



WTA ARCHITECTS

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BULLETIN NO. 1 **(Revised)**

491/20167.SDW - PHASE 500:
CENTER FOR FORENSIC PSYCHIATRY- CREATE KITCHEN
SALINE, MICHIGAN

WTA Project No. 2021094
~~January 08, 2025~~ **February 11, 2025**

The Contractor will kindly forward to the office of the Architect, within seven days of receiving this bulletin, the change in their contract amount for the following work items listed below. Please submit a quotation for each item listing itemized material costs and itemized labor costs, including the number of hours to complete the work.

ARCHITECTURAL

Item A1 Reference Section 087100 **(Re-Issued)**
A. Revised hardware set for door H132.A.

Item A2 Reference Sheets A2.01 **(Re-Issued)**
A. Added smoke area #13 with new smoke barrier between kitchen and corridors.

Item A3 Reference Sheets A2.01, A2.02, & A3.01 **(Re-Issued)**
A. Revised rated walls in Stair (H121), Stair (H200.A), (Kitchen (H123), Dry Storage (H124), and Storage (H119).
B. Revised fire ratings for doors H121.A, H122.A, H122.B, H122.C, H124.A, H132.B, & H200.A.
C. Added smoke area #13 and revised smoke area #12.

Item A4 Reference Sheets A2.01, A2.02, A2.21, & A9.01 **(Re-Issued)**
B. Revised door H132.A to be double-egress doors (refer to Structural).

Item A5 Reference Sheets A2.21 **(Re-Issued)**
A. Added notes to provide CMU infill above new door.
C. Field Condition Clarifications: Revise location of west wall of Corridor Connector (H132) to be flush with edge of existing window as indicated on re-issued sheet.
D. Field Condition Clarifications: Revise location of door H120.A as indicated on re-issued sheet.

STRUCTURAL

Item S1: Reference Sheet S2.02 and S7.01 **(Re-Issued)**
A. Added deck edge angles and detail 17/S7.01.

Item S2: Reference Sheet S2.02 **(Re-Issued)**
A. Clarification: Removed erroneous mechanical lintel callouts.

WIGEN
TINCKNELL
ASSOCIATES
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SPACE SOLVED.

CENTER FOR FORENSIC PSYCHIATRY- CREATE KITCHEN

BULLETIN NO. 1

~~January 08, 2025~~ February 11, 2025

PAGE 2



Item S3: Reference Sheet S2.02 (Re-Issued)
A. Reduction of steel members along Line @C following shop drawing review.

Item S4: Reference Sheet S2.02 (Re-Issued)
A. Altered stair framing at landing.

Item S5: Reference Sheet S2.02 (Re-Issued)
A. Addition of HSS steel member at stair tower wall for brick support.

Item S6: Reference Sheet S2.02 (Re-Issued)
A. Addition of bracing angles at top of column 2-@C.

Item S7: Reference Sheet S2.02 (Re-Issued)
A. Steel support frames added for existing AC unit relocation to existing building roof structure.

Item S8: Reference Sheet S2.01 (Re-Issued)
A. Added footing doweling to existing basement wall at SW corner of the storage room following site excavations.

Item S9: Reference Sheet S2.01 and S5.01 (Re-Issued)
A. Added detail to clarify reinforcement for thickened slab under floor troughs and grease interceptor in kitchen. Ref detail 15/S5.01.

Item S10: Reference Sheet S2.01 (Re-Issued)
A. Provide F1 footing at new extents of masonry at door H120.A as shown on architectural sheet a2.21 issued on 1/08/25. Provide corner bars per structural concrete note 11, sheet S3.01. F1 footing shall be poured tight to existing warehouse trench footing.

MECHANICAL

Item M1 Reference Sheet M3.01 (Not Re-Issued)
A. RFI #10 changed the RCP length. "Provide 9'-8" RCP's with 2' of spacing as recommended."

Item M2 Reference Sheet M7.03 (Re-Issued)
B. Increase pump HP for P-54 and P-55.

Item M3 Reference Sheet M8.04 (Not Re-Issued)
C. Line #1 from HWH sequence of operation needs to be removed. Boiler is always active due to VAV box reheat.

ELECTRICAL

Item E1 Reference Sheet E5.01 (Re-issued)
A. Increase pump HP and FLA for P-54 and P-55.

CENTER FOR FORENSIC PSYCHIATRY- CREATE KITCHEN
BULLETIN NO. 1
~~January 08, 2025~~ **February 11, 2025**
PAGE 3



END OF BULLETIN NO. 1

WTA ARCHITECTS

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Attachments: **Section 087100**, Sheets A2.01, A2.02, A2.21, A3.01, A9.01, S2.01, S2.02, **S3.01**, S5.01, S7.01, M7.03, & E5.01

Cc: Antler Construction Company, Inc.
Department of Technology, Management and Budget
Peter Basso Assoc., Inc.
MacMillian Assoc., Inc.
WTA Architects
CommTech Design
Stafford Smith
ROWE Professional Services Company

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

- 1.1 Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.

- 1.2 Work Included:
 - A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.
 - B. Related work:
 1. Division 00 00 00 - Procurement and Contracting Requirements
 2. Division 01 00 00 - General Requirements
 3. Division 06 00 00 - Wood, Plastics, and Composites
 4. Division 08 00 00 - Openings
 5. Division 10 00 00 - Specialties
 6. Division 11 00 00 - Equipment
 7. Division 26 00 00 - Electrical
 8. Division 27 00 00 - Communications
 9. Division 28 00 00 - Electronic Safety and Security
 - C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:
 1. Cabinet Hardware.
 2. Signs, except as noted.
 3. Folding partitions, except cylinders where detailed.
 4. Sliding aluminum doors
 5. Chain link and wire mesh doors and gates
 6. Access doors and panels
 7. Overhead and Coiling doors

- 1.3 Quality Assurance
 - A. Requirements of Regulatory Agencies:
 1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
 2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
 3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.
 - B. Hardware Supplier:

1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. The distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant (AHC).

C. Electrified Door Hardware Supplier:

1. Shall be an experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
2. Shall prepare data for electrified door hardware, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies like those indicated for this project.
3. Shall have experience in providing consulting services for electrified door hardware installations.

D. Pre-installation Meeting:

1. Before hardware installation, General Contractor/Construction Manager will request a hardware installation meeting be conducted on the installation of hardware; specifically, that of locksets, closers, exit devices, overhead stops and coordinators. Manufacturer's representatives of the above products, in conjunction with the hardware supplier for the project, shall conduct the meeting. Meeting to be held at job site and attended by installers of hardware for aluminum, hollow metal and wood doors. Meeting to address proper coordination and installation of hardware, per finish hardware schedule for this specific project, by using installation manuals, hardware schedule, templates, physical product samples and installation videos.
2. When any electrical or pneumatic hardware is specified this meeting shall also include the following trades/installers: Electrical, Security, Alarm systems and Architect.
3. Convene one week or more prior to commencing work of this Section.
4. The Hardware Supplier shall include the cost of this meeting in his proposal.

E. Manufacturer:

1. **Mandatory: all manufacturers of door hardware are to match the existing facility.**
2. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
3. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

1.4 Submittals:

A. Hardware Schedule

1. Submit number of Hardware Schedules as directed in Division 1.
2. Follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule unless noted otherwise.
3. Schedule will include the following:
 - a. Door Index including opening numbers and the assigned Finish Hardware set.
 - b. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
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Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

- c. Hardware Locations: Refer to Article 3.1 B.2 Locations.
- d. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
- e. Hardware Description: Quantity, category, product number, fasteners, and finish.
- f. Headings that refer to the specified Hardware Set Numbers.
- g. Scheduling Sequence shown in Hardware Sets.
- h. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
- i. Electrified Hardware system operation description.
- j. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- k. Typed Copy.
- l. Double-Spacing.
- m. 8-1/2 x 11-inch sheets
- n. U.S. Standard Finish symbols or BHMA Finish symbols.

B. Product Data:

- 1. Submit, in booklet form Manufacturers Catalog cut sheets of scheduled hardware.
- 2. Submit product data with hardware schedule.

C. Samples:

- 1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
- 2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.

D. Key Schedule:

- 1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
- 2. Submit as a separate schedule.

E. Electrified Hardware Drawings:

- 1. Submit elevation drawings showing relationship of all electrical hardware components to door and frame.
 - a. Include wiring drawing showing point to point wire hook up for all components.
 - b. Include system operations descriptions for each type of opening; describe each possible condition.

F. Submit to General Contractor/Construction Manager, the factory order acknowledgement numbers for the various hardware items to be used on the project. The factory order acknowledgement numbers shall help to facilitate and expedite any service that may be required on a hardware item. General Contractor/Construction Manager shall keep these order acknowledgement numbers on file in the construction trailer.

1.5 Product Delivery, Storage, and Handling:

A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number and deliver to the installer so designated by the contractor.

1.6 Warranties:

A. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work. Replace work found to be defective as defined in the General Conditions.

PART 2 - PRODUCT

2.1 **Mandatory: all manufacturers of door hardware are to match the existing facility.**

2.2 Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is **mandatory** whether various manufacturers are listed or not.

2.3 Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, it is understood that this is the owner's Building Standard and "no substitution" is allowed.

A. Hinges:

1. Furnish hinges of class and size as follows.
2. Furnish Ives 5BB1HW 4.5" x 4.5" (For Reference Only).
 - a. **Match existing facility manufacturer.**

B. Continuous Gear Hinge:

1. 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified). Manufacture to template, uncut hinges non-handed, pin less assembly, three interlocking extrusions, full height of door and frame, lubricated polyacetal thrust bearing, fasteners 410 stainless steel plated and hardened. Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12- 1/2" #3 Philips, flathead full thread at wood doors.
3. Furnish fire rated hinges "FR" at labeled openings.
 - a. For Wood and Hollow Metal frames;
 - 1) Ives 224XY (For Reference Only)
 - 2) Match existing facility manufacturer.
 - b. For Aluminum frames;
 - 1) Ives 112XY (For Reference Only)
 - 2) Match existing facility manufacturer.

C. Flush Bolts (For reference only - match existing facility manufacturer)

1. Automatic - metal doors:
 - a. Ives FB30 Series

- b. Equal product of any B.H.M.A. member.
- 2. Automatic - wood doors:
 - a. Ives FB40 Series
 - b. Equal product of any B.H.M.A. member.
- 3. Constant Latching: metal doors:
 - a. Ives FB50 Series
 - b. Equal product of any B.H.M.A. member.
- 4. Constant Latching: wood doors:
 - a. Ives FB60 Series
 - b. Equal product of any B.H.M.A. member.
- 5. Manual - wood and metal doors:
 - a. Ives FB458 Series
 - b. Equal product of any B.H.M.A. member.
- 6. Dust Proof Strikes - furnish with all flush bolts, except at openings having thresholds:
 - a. Ives DP2
 - b. Equal product of any B.H.M.A. member.

D. Locksets and Latch sets - Heavy Duty: (For reference only - match existing facility manufacturer)

- 1. Function numbers listed are or Schlage
- 2. Provide 2-3/4 inch backset.
- 3. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim at single doors, have 7/8" lip to center at pairs of 1-3/4" doors and rose size 3 1/2 diameter
- 5. Locksets and Latch sets:
 - a. Schlage L9000 series
- 6. Lockset Trim:
 - a. Schlage HSLR and O3A

E. Roller Latches: (For reference only - match existing facility manufacturer)

- a. Ives RL30

F. Exit Devices:

- 1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
- 2. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. Touchpad shall

extend a minimum of one half of the door width. All latch bolts to be dead latching type, with a self-lubricating coating to reduce wear.

3. Endcap will be sloped to deflect any impact from carts, and they shall be flush with the external mechanism case. End caps that overlap and project above the mechanism case are unacceptable. End cap shall utilize a two-point attachment to the mounting bracket.
4. Touchpad shall match exit device finish, and shall be stainless steel for US26, US26D, US28, US32, and US32D finishes. Only compression springs will be used in devices, latches, and outside trims or controls.
5. Plastic templates shall be included with each exit device to facilitate a quick, easy and accurate installation.
6. Strikes shall be roller type and come complete with a locking plate to prevent movement.
7. All rim and vertical rod exit devices shall have passed a 5 million (5,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
8. All mortise exit devices shall have passed a 10 million (10,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
9. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
10. Lever trim for exit devices shall be vandal-resistant type, which will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
11. Von Duprin 98/99 and 33A/35A Series. Series and function numbers as listed in sets.
12. Trim: Von Duprin 990 pull trim, 5 standard functions:
 - a. Classroom (TP)
 - b. Storeroom (NL)
 - c. Dummy trim (DT)
 - d. Passage (TP-BE)
 - e. Exit only (EO)

Trim: Von Duprin 33A/35A Series popular trims 360: lever or thumbpiece trim, 3 standard functions:

- a. Classroom (L, T)
- b. Passage (L-BE, T-BE)
- c. Dummy (L-DT)

386: pull trim, 2 standard functions:

- a. Storeroom (NL)
- b. Dummy (DT)

388: optional pull trim, 1 standard function:

- a. Storeroom (NL-OP)

13. Von Duprin 98/99 and 33A/35A QELA Baseplate Conv. Kit series.
14. Schlage PS902 with a Von Duprin 900-4RL is a 4-relay distribution board is a 2- amp 12/24 VDC output power supply for connection of electrified devices such Von Duprin exit devices equipped with the (QELA Baseplate Conv. kit series.)

G. Recessed Exit Devices:

1. Recessed exit devices shall be of the push pad design with straight or horizontal motion to eliminate pinch points. The push pad shall project a maximum of 1-3/4" from the face of the door in the closed position. The push pad shall project a maximum of 1-1/4" from the face of the door in the open position.
2. Latch bolts shall have a self-lubricating coating to reduce friction and wear.
3. Endcaps shall be diecast aluminum and be of a sloping design to deflect impact from carts.

4. Exit devices shall have compression springs, and all internal parts shall be zinc dichromate coated to prevent corrosion.
5. Outside trim shall be heavy-duty type and fasten by means of concealed studs and through-bolt from the inside. Lever trim shall be cast brass with a minimum average thickness of .130".
6. Exit devices shall be tested in accordance to ANSI/BHMA A156.3 Grade 1 by a BHMA certified testing laboratory.
7. A written certification showing successful completion of a minimum of one million cycles must be also provided.
8. Recessed exit devices shall be as manufactured by Von Duprin. Exit device series shall be 94/95 series.
9. Trim:
 - a. Levers to match lockset design.

H. Removable Mullion:

- a. Interior/Exterior doors, mullion is removable only using building keys.
 - 1) Match Existing
- b. Interior Doors - UL listed, Mullion is removable only using building keys.
 - 1) Match Existing

I. Push and Pull Hardware: (For reference only – match existing facility manufacturer)

1. Push Plates: Ives 8200 Series 6 x 16 x .050 inches. If stile widths will not accept 6 inches, provide stile width less two inches.
2. Push Bars: Von Duprin 330/350
3. Push-Pull Units: One-inch round rod. Push: Straight push bar, Pull: 90-degree offset, 12-inch centers. Attach top post of pull back to back with latch stile end of push bar, bottom post of pull and hinge stile end of push bar with end caps.
4. Pull, Offset: One-inch round rod, 90-degree offset, 12-inch centers.
5. Pulls: One-inch round rod, straight 12-inch centers.
6. Pull Plates: Ives 8303-8 4 x 16 x .050 inches. 8" center.
7. Pull, Bi-Fold: Dummy Lever Trims. Levers to match lockset lever design.
8. Pull, Wire: 3/4-inch diameter, 6-inch centers.
9. Vandal Resistant Pulls: Ives VR900 Series. Stainless steel construction 0.120 inches thick.
10. Manufacturer: Provide push and pull hardware from any member of B.H.M.A.

J. Coordinator – Frame Stop Mounted:

1. Door coordinator shall prevent the active door from closing before inactive door. Stop mounted channel 1-5/8" x 5/8" steel tubing x length to suit door opening. Coordinator shall be UL listed. Furnish filler bars to fill gap between end of coordinator and inactive door frame. Furnish mounting brackets for all stop mounted hardware such as exit device strikes, door closer PA shoes, etc. Coordinators shall be prepared (cutout) at the factory for surface applied or concealed vertical rod panic devices if required.
2. Furnish with carry bar CB1 when required for proper operation.
 - a. Ives COR x length to suit.

K. Electric Strike:

1. Electric strikes shall provide remote release of latch bolts. They shall be designed for use with the type locks shown at each opening where required. Strikes will be UL Listed for Burglary-Resistant Electric Door Strike, and where required, shall be UL listed as electric strikes for Fire Doors or Frames. Faceplates shall be stainless steel with finish as specified for each opening. The locking components shall be stainless steel to resist damage and abuse.

2. Solenoids shall be of the continuous duty type for the voltage specified. Plug connectors will be furnished. Strikes shall have an adjustable backbox to compensate for misalignment of door and frame.
3. Furnish strikes manufactured by Von Duprin
 - a. Von Duprin 6000 Series
 - b. Alternative subject to approval from DTMB Office of Infrastructure Protection, Security Program Coordinator

L. Electric Power Transfer:

1. Transfer power from door frame to edge of door, UL listed R4504.
2. Von Duprin EPT

M. Access control wire - Profusion Genesis series cable 22/6+22/4+22/2+18/4 - Plenum or FTS.

N. Closers:

1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 1/2" in diameter, and double heat-treated pinion shall be 11/16" in diameter with double D slab drive arm connection.
2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
3. Spring power shall be continuously adjustable over the full range of closer sizes and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).
5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.
6. Closers will have Powder coating finish certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
8. Furnish closers manufactured by LCN
 - a. LCN Series 4000.

O. ADA Special Closers

1. Where "Low Energy Power Operated Door" as defined by ANSI Standard A156.19 is indicated for doors required to be accessible to the disabled, provide electrically powered operators complying with the ADA requirements for opening force and time to close standards.
2. Full closing force shall be provided when the power or assist cycle ends.
3. Modular design, adjustments easily accessible from the front, UL listed for use on labeled doors.
4. Shall have "Second Chance" function to accommodate momentary resistance, "Breakaway" function in the electronically controlled clutch, "Soft Start" motor control function and "Maintain Hold-Open Switch" to hold the door open at 90 degree.

5. Shall have built in 12V and 24V power supply for actuators, card readers, electric strikes and magnetic door locks, inputs for both swing and stop side sensors and available to accept either 120VAC or 220VAC input power. All wiring connections between operator modules made by easy- to-handle electrical connectors. Shall comply with both UL and NEC requirements for Class 1 and Class 2 wiring by providing separate conduits for each.
6. Shall have seven independent electronic adjustments to tailor the operator for specific site conditions. Opening speed, holding force at 90 deg., sequential trigger and time delay, hold-open time at 90 deg., opening force, clutch "breakaway" force setting, electric strike trigger and time delay.
7. Shall have separate and independent adjustments for back check, main speed and latch speed.
8. Furnish actuators and other controls as shown in Hardware Sets.
9. Furnish operators manufactured by:
 10. **All installers must be certified by the American Association of Automatic Door Manufacturers (AAADM) is a trade association of power-operated automatic door manufacturers.**
 - a. Stanley Magic Force
 - b. LCN 4630/4640 Auto Equalizer™ Series Operators

P. Overhead Holders and Stops:

1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
 - a. Von Duprin-Glynn-Johnson

Q. Kick Plates:

1. Furnish .050 inches thick, beveled three sides, 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
2. Any BHMA manufacturing product meeting above is acceptable.

R. Bumpers:

1. Wrought, forged, or cast, approximately 2-1/2 inch diameter, convex or concave rubber center, concealed fasteners.
 - a. Ives WS407CCV
 - b. BHMA L02101.

S. Wall Stops:

1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction. Install with slope at top.
 - a. Ives WS33
 - b. BHMA L12011 or L12021

T. Floor Stops:

1. Half dome. Furnish height to suit undercut.
 - a. Ives FB430 series
 - b. BHMA L12141

U. Wall Holders:

1. Products specified by series only; furnish strike length to exceed projection of all other hardware.
 - a. Ives WS40
 - b. Equal products of any BHMA manufacturer

V. Door Holding Magnets:

1. Electrically controlled, fail-safe, holds door open until current is interrupted.
2. Units will have 35 lbs. of holding force.
3. Units will be "tri-voltage", 12VDC, 24VAC/DC & 120VAC.
4. Furnish model to hold door away from wall to allow for any trim or levers on pull side of door.
 - a. LCN SEM 7800 series

W. Thresholds:

1. 1/2" high - 5" wide. Cope at jambs.
2. Furnish full wall opening width when frames are recessed.
3. Cope in front of mullions if thresholds project beyond door faces.
4. Furnish with non-ferrous Stainless-Steel Screws and Lead Anchors.
 - a. Zero as listed in sets
 - b. Equal of NGP or Reese

X. Door Sweeps:

1. Surface Sweeps:
 - a. Zero as listed in sets
 - b. Equal of NGP or Reese

Y. Weather-stripping:

1. Apply to head and jamb stops.
2. Solid Bar stock all sides
 - a. Zero as listed in sets
 - b. Equal by Zero or

Reese

AA. Meeting Stile Weather-stripping:

3. 2 Pc. Nylon brush type to seal gap between pairs of doors.
 - a. Zero as listed in sets
 - b. Equal by NGP or Reese

BB. Astragal:

1. Stainless steel, type 304, Finish 2B. 12 gauge 1-5/8 inch wide. #10 x 3/4" sheet metal screws.
 - a. Zero as listed in sets
 - b. Equal by NGP or Reese

CC. Astragal, Sound:

1. Overlapping type.
 - a. Zero as listed in sets
 - b. Equal by NGP or Reese
2. Meeting stile type.
 - a. Zero as listed in sets
 - b. Equal by NGP or Reese

DD. Sound Seal:

1. Adjustable type perimeter seal.
 - a. Zero as listed in sets
 - b. Equal by NGP or Reese

EE. Lock Protector:

1. Lock protector shall eliminate gap between door and frame. No exposed fasteners on face of unit.
 - a. Ives LG series

FF. Door Position Switches:

1. Coordinate voltage requirements with Electrical Drawings and Specifications.
2. Numbers used are Schlage Electronics
 - a. Surface 7766
 - b. Concealed 7764

GG. Key Control:

1. Key Cabinet
 - a. Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3 way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150 percent of the number of locks required for the project.
 - b. Provide complete cross-index system set up by hardware supplier or Lockset manufacturer's representative or Lockset Manufacturers authorized Service Center. Place keys on markers and hooks in the cabinet as determined by the final key schedule. Provide hinged panel type cabinet for wall mounting. Provide one each wall mounted key cabinet.
 - c. Telkee WC Series with key loan record system.
 - d. Supplier shall include the cost of this service in their proposal.

HH. Fasteners:

1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.

2. Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.

2.4 Finishes:

- A. Generally, Dull Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.

2.5 Templates and Hardware Location:

- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
- B. Furnish metal template to frame/door supplier for continuous hinge.
- C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.

2.6 Cylinders and Keying:

- A. Locks Cylinders and keys will be furnished with Schlage standard core or Best Small Format Interchangeable Core (SFIC). Coordinate keying requirements with State of Michigan Department of Technology, Management and Budget, Office of Infrastructure Protection.
- B. Provide cylinders with construction cores or keying for use during the construction period. When so directed, and in the presence of the Owner's security department or representative, convert construction cores or keying to the final system.

PART 3 - EXECUTION

3.1 Installation

A. General:

1. Install hardware according to manufacturer's installations and template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacturer of the item.
2. Provide blocking/reinforcement for all wall mounted Hardware.
3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames will be drilled and tapped for machine screws.
4. Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
5. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keen form self-tapping. Use #13 or 3/16 drill for pilot.
6. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.
7. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.

B. Locations:

1. Dimensions are from finish floor to center line of items.
2. Include this list in Hardware Schedule.

<u>CATEGORY</u>	<u>DIMENSION</u>
Hinges	Door Manufacturer's Standard

Flush Bolt Levers	72" and 12"
Levers	Door Manufacturer's Standard
Exit Device Touch Bar	Per Template
Dead latch Cylinder	43" unless conflicting with push-
pull.	
Deadlock MS Cylinder	43" unless conflicting with push-
pull.	
Hospital Push-Pull	Manufacturer's Template
Roller Latch	At Head
Push-Pull Units	42" to centerline of Pull
Offset Pulls	Suitable for Exit Devices
Pulls - Flush Cup	46"
Pulls (BTB)	46"
Push-Pulls	46"
Push Plates	52"
Pull Plates	42"
Wire Pulls	42"
Wall Stops/Holders	At Head
Astragals	Pull side of active leaf
Trim Protector Bars	Push side of door below lever
handle	
Lock Protectors	Pull side of door

C. Field Quality Inspection:

1. Provide the services of a representative to inspect material furnished and its installation and is adjustment, and to instruct the Owner's personnel in adjustment, care and maintenance of hardware.
2. Locksets and exit devices shall be inspected by the factory representative after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
3. Closers shall be inspected by the factory representative (**and adjusted when required after a Pre- Installation meeting has been conducted**) after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
4. The manufacturer's representative shall prepare a written report stating compliance and recording locations and kinds of noncompliance. The original report shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

D. Technical and Warranty Information:

1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor/Construction Manager shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor/Construction Manager during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.
2. Submit to General Contractor/Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products

Hardware Group No. 01

H120.D H120.E

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	112HD EPT	628	IVE
1	EA POWER TRANSFER	EPT10	689	VON
1	EA EU MORTISE LOCK	L9095BDEU 03A RX CON 12/24 VDC	626	SCH
1	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
1	SET WEATHER SEAL	(BY DOOR & FRAME MFR)		
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	656A-V3-223	A	ZER
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
1	EA DOOR CONTACT	679-05	BLK	SCE

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER TO ALLOW PASSAGE THROUGH THE OPENING. AN AUTHORIZED CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 02

H122.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD EPT	628	IVE
1	EA POWER TRANSFER	EPT10	689	VON
1	EA EU MORTISE LOCK	L9095BDEU 03A RX LX DPS CON 12/24 VDC	626	SCH
1	EA H-SEC SURFACE CLOSER	4511T AVB	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TTX	630	IVE
1	EA WALL STOP	KG183	BLK	KIN
1	EA GASKETING	488SBK PSA ZAG	BK	ZER
1	EA WIRE HARNESS	CON-44		SCH
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
1	EA DOOR CONTACT	679-05	BLK	SCE

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER AND ALLOW PASSAGE THROUGH THE OPENING. A VALID CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

THIS OPENING IS PART OF A SECURITY INTERLOCK WITH OPENING H131.2
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 03

H131.B

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD EPT SECWDHM	628	IVE
1	EA POWER TRANSFER	EPT10	689	VON
1	EA EU MORTISE LOCK	L9095BDEU 03A RX LX DPS CON 12/24 VDC	626	SCH
1	EA H-SEC SURFACE CLOSER	4511T AVB	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	EA WALL STOP	KG183	BLK	KIN
1	EA GASKETING	488SBK PSA ZAG	BK	ZER
1	EA WIRE HARNESS	CON-44		SCH
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
1	EA DOOR CONTACT	679-05	BLK	SCE

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER AND ALLOW PASSAGE THROUGH THE OPENING. A VALID CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

THIS OPENING IS PART OF A SECURITY INTERLOCK WITH OPENING H122.1

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 04

H126.1

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA PRIVACY W/COIN TURN	L9044 03A 09-544 L283-722	626	SCH
1	EA SURFACE CLOSER	4011 MC	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	EA WALL STOP	WS447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 05

H130.B

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD SEC	628	IVE
1	EA ANTLIGATURE TIP	TIPIT	628	SEL
1	EA CLASSROOM LOCK	L9070BDC HSLR 09-663	630	SCH
1	EA H-SEC SURFACE CLOSER	4211 AVB EDA	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	EA MAGNETIC HOLDER	2400LR	689	ABH
1	EA GASKETING	488SBK PSA ZAG	BK	ZER

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 06

H120.B

H120.C

H131.D

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1		(ALL HDWE BY DOOR MFR)		

Hardware Group No. 07

H131.C

H132.C

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	112HD EPT SEC	628	IVE
2	EA ANTLIGATURE TIP	TIPIT	628	SEL
2	EA POWER TRANSFER	EPT10	689	VON
2	EA TWO PT EU MORT LOCK	LM9295EUBDC 03A CON 12/24 VDC	626	SCH
2	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
1	SET WEATHER SEAL	(BY DOOR & FRAME MFR)		
2	EA DOOR SWEEP	39A SEC	A	ZER
1	EA THRESHOLD	656A-V3-223	A	ZER
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA KEYPAD	(BY SECURITY CONTRACTOR)	A	
2	EA DOOR CONTACT	679-05	BLK	SCE

PRESENTING AN AUTHORIZED PIN WILL UNLOCK THE LEVER TO ALLOW PASSAGE THROUGH THE OPENING. AN AUTHORIZED PIN IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Center For Forensic Psychiatry
 Kitchen
 Michigan Department of Health and Human Services
 Saline, Michigan

File No. 491/20167.SDW
 Index No. 5603
 PSC Project No. 2021094

Hardware Group No. 08

E126.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	224HD	628	IVE
2	EA ANTILIGATURE TIP	TIPIT	628	SEL
2	EA FIRE EXIT HARDWARE	9849-L-BE-F-03-LBL	626	VON
1	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
1	EA H-SEC SURFACE CLOSER	4211 AVB EDA	689	LCN
2	EA KICK PLATE	8400 10" X 1" LDW B-CS TKTX	630	IVE
2	EA MAGNETIC HOLDER	2400LR	689	ABH

Hardware Group No. 09

H125.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA OFFICE/ENTRY LOCK	L9050BDC 03A 09-544	626	SCH
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA WALL STOP	WS447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 10

H124.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD	628	IVE
1	EA CLASSROOM LOCK	L9070BDC 03A	626	SCH
1	EA OH STOP	90S J	630	GLY
1	EA ARMOR PLATE	8400 36" X 1 1/2" LDW B-CS	630	IVE
1	EA GASKETING	488SBK PSA ZAG	BK	ZER

Hardware Group No. 11

H127.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA CLASSROOM LOCK	L9070BDC 03A	626	SCH
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	EA WALL STOP	WS447	626	IVE
1	EA GASKETING	488SBK PSA ZAG	BK	ZER

Hardware Group No. 12
 E124.C H133.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	CONT. HINGE	224HD EPT SECWDHM	628	IVE
1	ANTILIGATURE TIP	TIPIT	628	SEL
1	POWER TRANSFER	EPT10	689	VON
1	EL MORTISE LOCK	L9095BDEL HSLR 09-663 RX LX CON 12/24 VDC	630	SCH
2	SFIC MORTISE CYL.	80-102	626	SCH
1	H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
1	KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	GASKETING	488SBK PSA	BK	ZER
1	POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
1	DOOR CONTACT	679-05	BLK	SCE

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 13
 H121.A H200.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	STOREROOM LOCK	L9080BDC 03A	626	SCH
1	SURFACE CLOSER	4011 MC	689	LCN
1	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	WALL STOP	WS33X	626	IVE
1	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 13.1

H132.B

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	CONT. HINGE	224HD	628	IVE
1	ANTILIGATURE TIP	TIPIT	628	SEL
1	STOREROOM LOCK	L9080BDC HSLR 09-663	630	SCH
1	SURFACE CLOSER	4011 MC	689	LCN
1	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	WALL STOP	WS33X	626	IVE
1	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 14

H131.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	224HD SEC	628	IVE
1	EA PANIC HARDWARE	9849-EO-LBL-SEC	626	VON
1	EA PANIC HARDWARE	9875-HL-576A-SEC	626	VON
1	EA SFIC MORTISE CYL.	80-102	626	SCH
2	EA H-SEC SURFACE CLOSER	4211 AVB EDA	689	LCN
2	EA KICK PLATE	8400 10" X 1" LDW B-CS TKTX	630	IVE
2	EA MAGNET	SEM7820 12V/24V/120V	689	LCN

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 15

H201.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD	628	IVE
1	EA DBL CYL STORE W/DB	L9466BDC 03A	626	SCH
1	EA SURFACE CLOSER	4111 SHCUSH MCSRI	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET GASKETING	429AA-S	AA	ZER
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	656A-V3-223	A	ZER

Hardware Group No. 16 <B1>

H132.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	224HD SEC	628	IVE
4	EA FIRE EXIT HARDWARE	9849-EO-F-LBL-SEC	626	VON
4	EA FIRE EXIT HARDWARE	9875-HL-F-576A-SEC	626	VON
4	EA SFIC MORTISE CYL.	80-102	626	SCH
2	EA H-SEC SURFACE CLOSER	4211 AVB EDA	689	LCN
2	EA KICK PLATE	8400 10" X 1" LDW B-CS TKTX	630	IVE
2	EA MAGNETIC HOLDER	2400LR	689	ABH

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 17

H120.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	224HD EPT	628	IVE
2	EA POWER TRANSFER	EPT10	↗ 689	VON
2	EA TWO PT EU MORT LOCK	LM9295EUBDC 03A CON 12/24 VDC	↗ 626	SCH
2	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
2	EA ARMOR PLATE	8400 36" X 1" LDW B-CS	630	IVE
2	EA MAGNET	SEM7820 12V/24V/120V	↗ 689	LCN
2	EA WIRE HARNESS	CON-44	↗	SCH
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)	↗	
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)	↗	
2	EA DOOR CONTACT	679-05	↗ BLK	SCE

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER TO ALLOW PASSAGE THROUGH THE OPENING. AN AUTHORIZED CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 18
 H122.B H122.C

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA CONT. HINGE	224HD EPT	628	IVE
2	EA POWER TRANSFER	EPT10	689	VON
2	EA TWO PT EU MORT LOCK	LM9295EUFBDC 03A CON 12/24 VDC	626	SCH
2	EA FIRE/LIFE HOLDER	4040SEH 24V/120V AC/DC AS REQ	689	LCN
2	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
2	EA ARMOR PLATE	8400 36" X 1" LDW B-CS	630	IVE
2	EA WIRE HARNESS	CON-44		SCH
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
2	EA DOOR CONTACT	679-05	BLK	SCE

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER TO ALLOW PASSAGE THROUGH THE OPENING. AN AUTHORIZED CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 19

H122.D

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	112HD EPT	628	IVE
1	EA POWER TRANSFER	EPT10	689	VON
1	EA EU MORTISE LOCK	L9095BDEU 03A RX CON 12/24 VDC	626	SCH
1	EA H-SEC SURFACE CLOSER	4211 AVB CUSH	689	LCN
1	SET WEATHER SEAL	(BY DOOR & FRAME MFR)		
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	656A-V3-223	A	ZER
1	EA POWER SUPPLY	(BY SECURITY CONTRACTOR)		
2	EA KEYPAD	(BY SECURITY CONTRACTOR)		
1	EA DOOR CONTACT	679-05	BLK	SCE

PRESENTING AN AUTHORIZED PIN WILL UNLOCK THE LEVER TO ALLOW PASSAGE THROUGH THE OPENING. AN AUTHORIZED PIN IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 20

H129.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD	628	IVE
1	EA CLASSROOM LOCK	L9070BDC 03A	626	SCH
1	EA ARMOR PLATE	8400 36" X 1 1/2" LDW B-CS	630	IVE
1	EA WALL STOP	WS447	626	IVE
1	EA GASKETING	488SBK PSA ZAG	BK	ZER

Hardware Group No. 21

H130.A

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD EPT SECWDHM	628	IVE
1	EA ANTILIGATURE TIP	TIPIT	628	SEL
1	EA POWER TRANSFER	EPT10	689	VON
1	EA EU MORTISE LOCK	L9095BDEU HSLR 09-663 RX LX CON 12/24 VDC	630	SCH
1	EA H-SEC SURFACE CLOSER	4211T AVB	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
		TKTX		
1	EA WALL STOP	KG183	BLK	KIN
1	EA GASKETING	488SBK PSA ZAG	BK	ZER
2	EA ACCESS CONTROL	(BY SECURITY CONTRACTOR)		
1	EA POWER SUPPLY	PS902 900-4RL-FA 120/240 VAC		VON

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE LEVER AND ALLOW PASSAGE THROUGH THE OPENING. A VALID CREDENTIAL IS REQUIRED ON EACH SIDE OF THE OPENING.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE USER, THE ARCHITECT AND ALL RELATED TRADES.

Hardware Group No. 22

H130.C

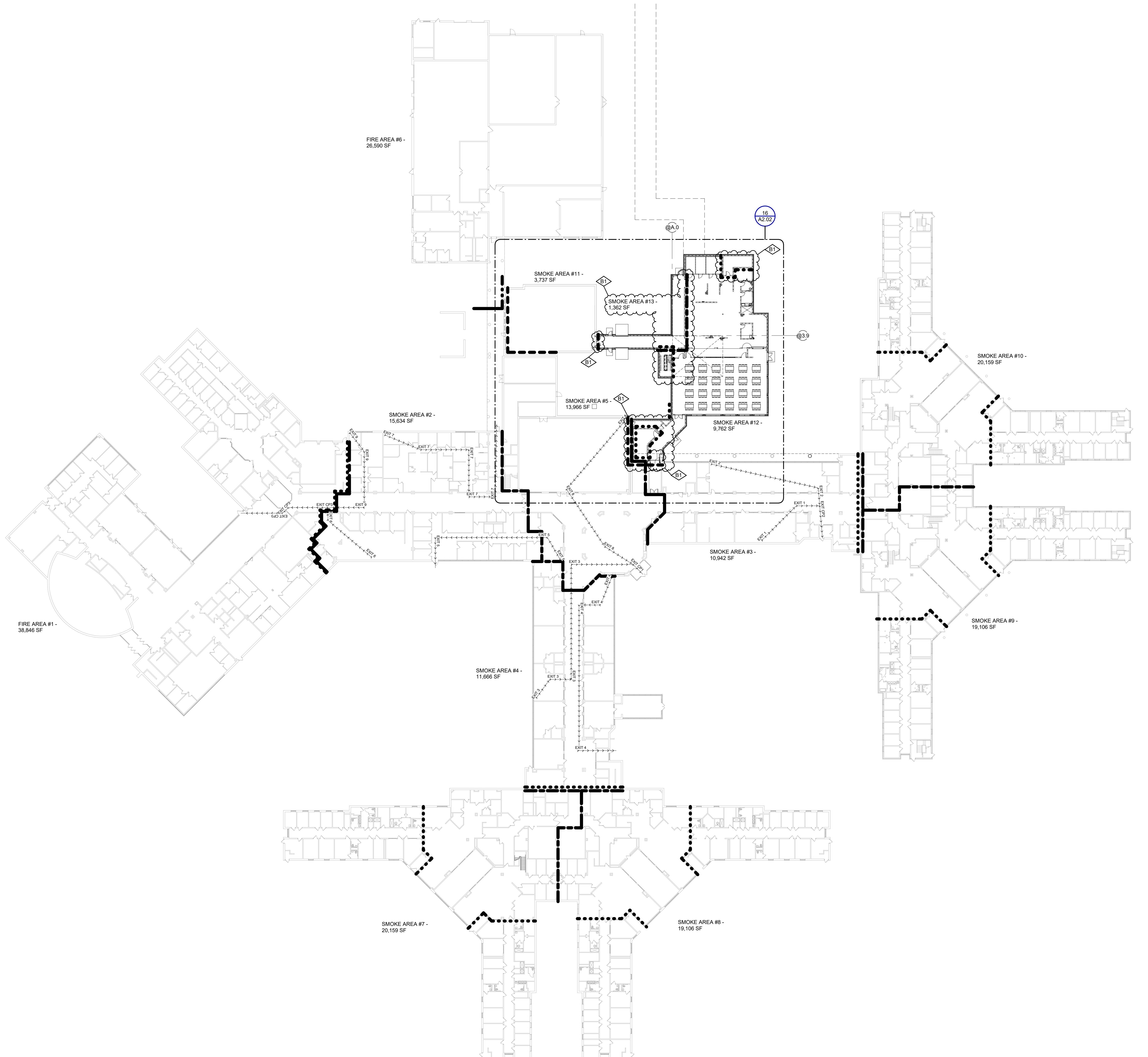
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	224HD SEC	628	IVE
1	EA ANTILIGATURE TIP	TIPIT	628	SEL
1	EA CLASSROOM LOCK	L9070BDC HSLR 09-663	630	SCH
1	EA H-SEC SURFACE CLOSER	4511T AVB	689	LCN
1	EA KICK PLATE	8400 10" X 1 1/2" LDW B-CS TKTX	630	IVE
1	EA MAGNETIC HOLDER	2400LR	689	ABH
1	EA GASKETING	488SBK PSA ZAG	BK	ZER

DOORS MAY BE HELD-OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

END OF SECTION



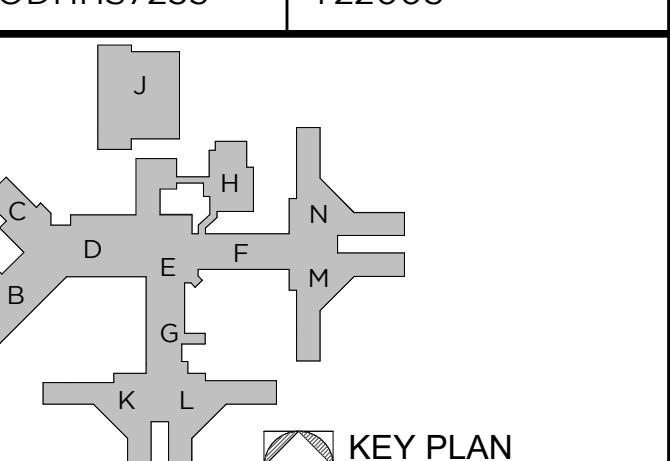
CODE LEGEND	
● ● —	3-HOUR BUILDING SEPARATION
— — —	2-HOUR BARRIER
● ● ● —	1-HOUR ENCLOSURE / FIRE RESISTANCE RATING
— — —	1-HOUR SMOKE BARRIER
→ → →	TRAVEL DISTANCE
□	100% SPRINKLED
DF	DRINKING FOUNTAIN
FE	FIRE EXTINGUISHER
724	OCCUPANT LOAD
#	EXIT CAPACITY
CODE PLAN EGRESS PATH LENGTH	
ID	LENGTH
CP1	11'
CP2	26'
CP3	71'
1	58'
2	102'
3	177'
4	187'
5	134'
6	56'
7	186'
8	156'
9	93'

CODE PLAN EGRESS PATH LENGTH		
ID	DESCRIPTION	LENGTH
CP1		11'
CP2		26'
CP3		71'
1		58'
2		102'
3		177'
4		187'
5		134'
6		56'
7		186'
8		156'
9		93'

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION

NO. 00107-00144

ING CODE CONTRACT NO.
QDHHS7255 Y22003



Jefferson Ave, Suite 601
Detroit, Michigan 48607

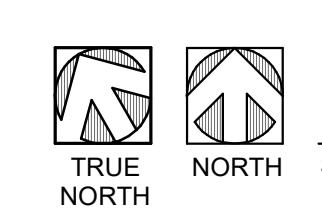
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PROJECT TITLE 1/20167.SDW - PHASE 500: ENTER FOR FORENSIC PSYCHIATRY - CREATE

ICHEN
INE, MICHIGAN

IT TITLE
RST FLOOR MASTER
ODE AND TEMPORARY
RESS PLAN

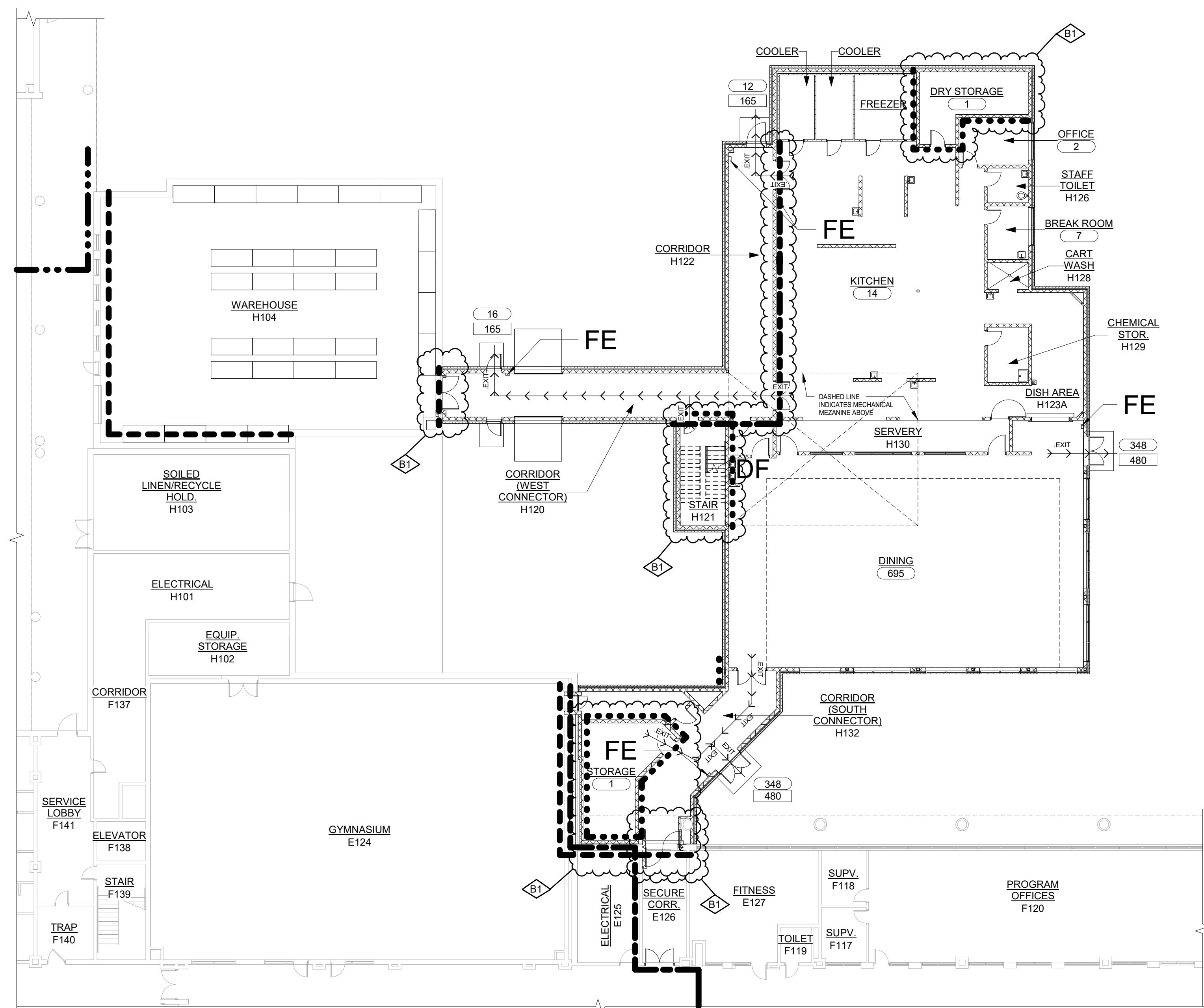
PROJECT NUMBER 021094	SHEET NUMBER A2.01
PROJECT DATE SEPTEMBER 6, 2023	
MADE BY D.S.	



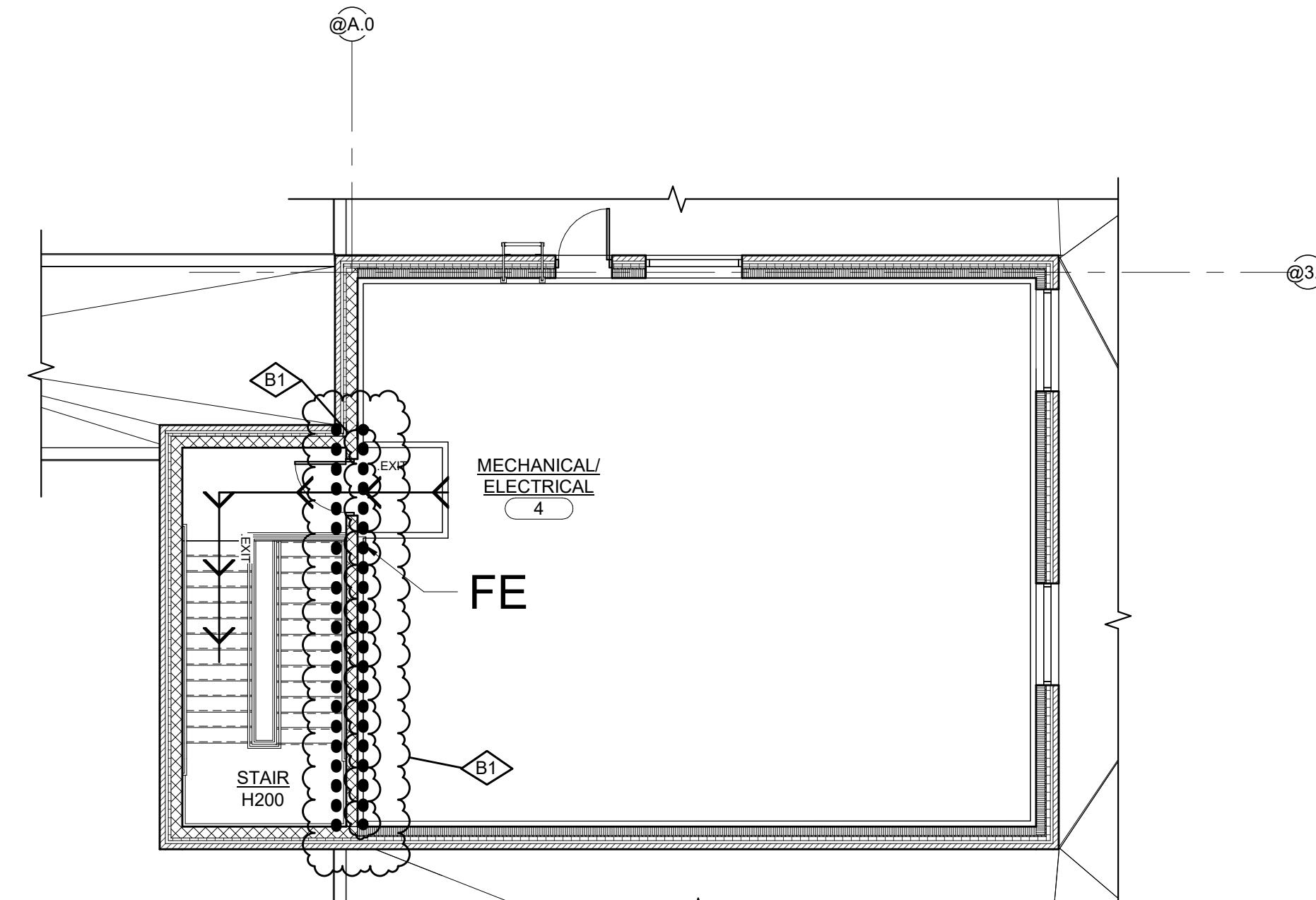
FIRST F
CALE: 1/32

FLOOR CODE MASTER PLAN

CENTER FOR FORENSIC PSYCHIATRY - BUILDING CODE NOTES				
CODE REFERENCE	2012 NFPA 2015 MICHIGAN BUILDING CODE ANSI A117.1 2015 PLUMBING CODE 2015 ELECTRICAL CODE 2015 MECHANICAL CODE			
DESCRIPTION	REFERENCE	EXISTING	NEW ADDITION	REMARKS
OCCUPANCY CLASSIFICATION	MBC 303.3 / 308.4	I-2 CONDITION 1	A-2	ASSEMBLY - DINING FACILITY & ASSOCIATED KITCHEN / INSTITUTIONAL - PSYCHIATRIC HOSPITAL
CONSTRUCTION TYPE	MBC 601	IB	IIB	TYPE IIB: RATING FOR BLDG ELEMENTS = 0-HOUR TYPE IB: RATING FOR BLDG ELEMENTS = 2-HOUR EXCEPTION: NONBEAR INT WALLS = 0-HOUR ROOF = 1-HOUR
NONBEARING EXTERIOR WALL SEPARATION	MBC 602	IIB > 30 FT = 0-HOUR	IIB-A = 0-HOUR	
FEATURES OF FIRE PROTECTION		FULLY SPRINKLED		
BUILDING HEIGHT	MBC 504.4	ALLOWED - 5 STORIES 180 FT.	ALLOWED - 3 STORIES 75 FT.	A-2: ACTUAL - 1 STORY - 18 FT.
BUILDING AREA	MBC 506.2	UNLIMITED	ALLOWED - 38,000 S.F.	A-2: ACTUAL - 11,124 S.F.
SEPARATED OCCUPANCIES	MBC 508.4	I-2	A-2	2-HOUR FIRE BARRIER SEPARATION TO COMPLY WITH A-2 REQUIREMENTS
INCIDENTAL USE AREAS	MBC 509	FURNACE ROOM WITH >40,000 BTU PER HOUR INPUT = 1 HOUR OR SPR. BOILER ROOMS >15 PSI OR 10 HORSEPOWER = 1 HOUR OR SPR.		BUILDING FULLY SPRINKLERED
FIRE BARRIERS	MBC 707	SEPARATED OCCUPANCIES		CONTINUITY: TOP OF FND OR FLR/CLG ASSEMBLY TO UNDERSIDE OF FLR OR ROOF ABOVE - CONT THRU OUT CONCEALED SPACES
INTERIOR WALL/CEILING FINISHES	MBC TABLE 803.11	INTERIOR EXIT STAIRWAYS - B CORRIDORS - B ROOMS AND ENCLOSED SPACES - B ADMIN - C ≤ 4 OCC - C	ROOMS AND ENCLOSED SPACES - C	
OCCUPANT LOAD	MBC 1004.12	STOR/MECH 1,300 S.F. (GROSS) WAREHOUSE 1/500 S.F. (GROSS) INPUT 1,240 S.F. (GROSS) SLEEPING 1/20 S.F. (GROSS) DINING ROOM/SERVING 15 S.F. (NET)	KITCHEN 1,200 S.F. (GROSS) DINING ROOM/SERVING	A-2 : TOTAL OCCUPANTS = 718
FIRE EXTINGUISHERS	NFPA 10	75' MAXIMUM DISTANCE APART		
COMMON PATH EGRESS TRAVEL	MBC 1006.2.1	75'		THAT PORTION OF THE EXIT ACCESS TRAVEL DISTANCE MEASURED FROM THE MOST REMOTE POINT OF EGRESS TO THAT POINT WHERE THE OCCUPANTS HAVE SEPARATE AND DISTINCT ACCESS TO TWO EXITS OR EXIT ACCESS DOOR-WAYS.
NUMBER OF EXITS	MBC 1006.3.1		REQUIRED: (1) KITCHEN (2) DINING	PROVIDED: (2) DINING ROOM (2) KITCHEN
EXIT ACCESS TRAVEL DISTANCE	MBC 1017.2	200 FT.	250 FT.	
CORRIDOR FIRE RESISTANCE	MBC 1020.1	w/ SPRINKLER = 0 HOUR	FULLY SPRINKLERED	
MINIMUM CORRIDOR WIDTH	MBC 1020.2	MIN. 44 INCHES MIN. 96 INCHES FOR BED CLEARANCE		
DEAD END CORRIDORS	MBC 1020.4	20 FT.		
ACCESSIBILITY	MBC 1101.2		DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE	
PLUMBING FIXTURES	MPC TABLE 403.1		NO ADDITIONAL STAFF OR PATIENTS ARE BEING ADDED TO THE FACILITY	
ENERGY EFFICIENCY	MEC		SO OF - INSULATION ENTIRELY ABOVE DECK = R-30 C WALLS - MASS = R-11.4 C SLAB ON GRADE = R-15 FOR 24IN.	



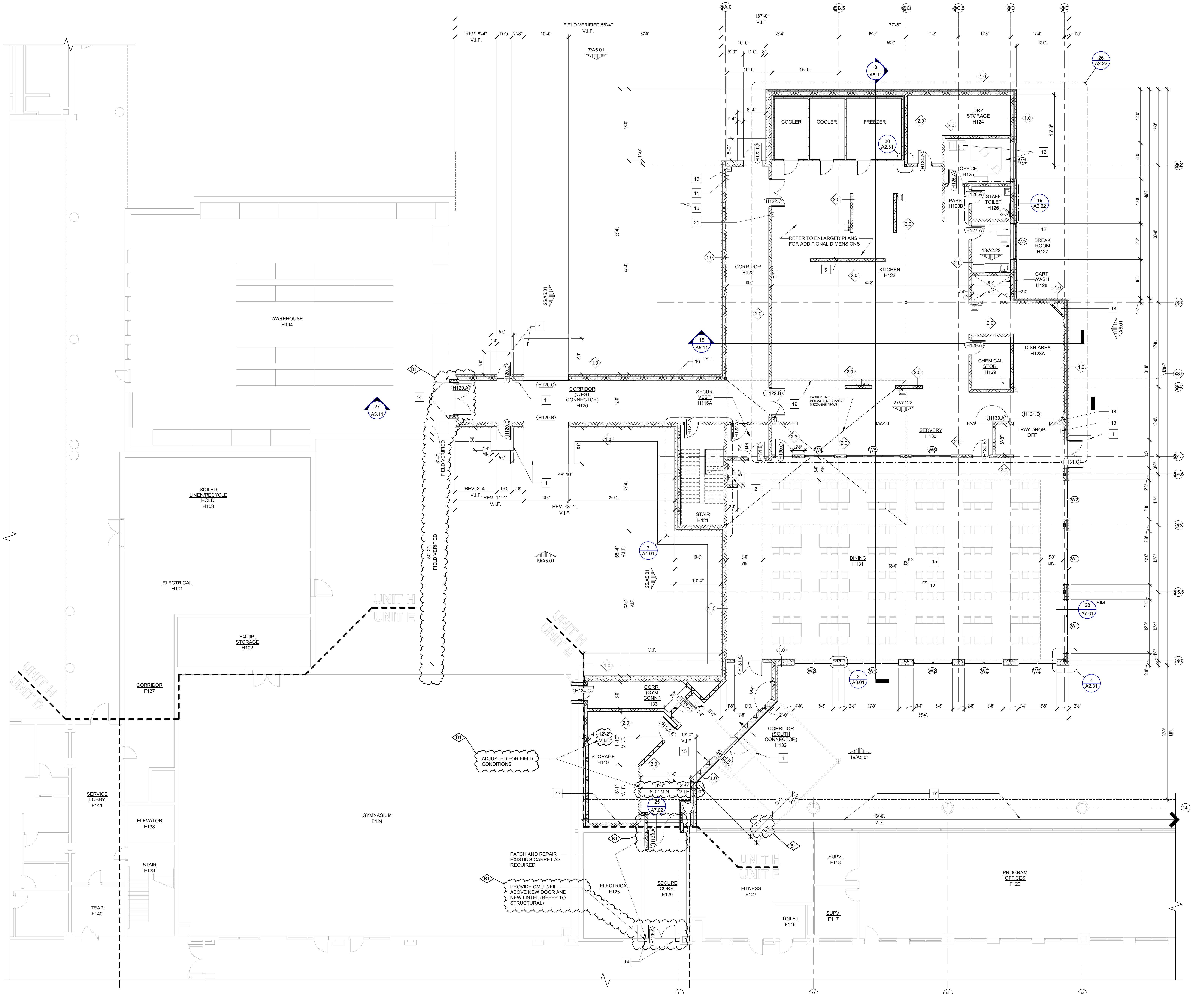
FIRST FLOOR CODE PLAN
A2.02
SCALE: 1/16" = 1'-0"



SECOND FLOOR CODE PLAN
A2.02
SCALE: 1/8" = 1'-0"

CODE LEGEND	
3-HOUR BUILDING SEPARATION	3-HOUR
2-HOUR BARRIER	2-HOUR
1-HOUR ENCLOSURE / FIRE RESISTANCE RATING	1-HOUR
1-HOUR SMOKE BARRIER	1-HOUR
TRAVEL DISTANCE	TRAVEL DISTANCE
100% SPRINKLED	100% SPRINKLED
DRINKING FOUNTAIN	DRINKING FOUNTAIN
FIRE EXTINGUISHER	FIRE EXTINGUISHER
724	724
OCCUPANT LOAD	OCCUPANT LOAD
#	EXIT CAPACITY

B1	BULLETIN NO 1	01/08/25
NO.	REVISION	DATE
STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET FACILITIES AND BUSINESS SERVICES ADMINISTRATION DESIGN AND CONSTRUCTION DIVISION ADAM LACH, RA, DIRECTOR		
FILE NO. 491/20167.SDW		
FUNDING CODE 17ICODHHS7255		
CONTRACT NO. Y22003		
 KEY PLAN NOT TO SCALE WTAARCH.COM		
 WTA ARCHITECTS 100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607 989 752 8107 COPYRIGHT © 2024		
PROJECT TITLE 491/20167.SDW - PHASE 500: CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN SALINE, MICHIGAN		
SHEET TITLE FIRST FLOOR PARTIAL CODE PLAN		
PROJECT NUMBER 2021094	SHEET NUMBER A2.02	
PROJECT DATE SEPTEMBER 6, 2023		
CHECKED BY C.D.S.		



CONSTRUCTION GENERAL NOTES:

WALL TYPES ARE INDICATED AS A DIAMOND WITH A NUMBER. REFER TO SHEET A0.01 FOR DESCRIPTION OF WALL TYPES.

PLAN DIMENSIONS DO NOT INCLUDE WALL THICKNESS (REFER TO WALL TYPES).

DOOR FRAMES ARE TO BE LOCATED 8" FROM THE PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR AT MASONRY WALLS, UNLESS NOTED OTHERWISE.

PROVIDE BLOCKING AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: PLUMBING ACCESSORIES, KITCHEN EQUIPMENT, ETC.

ALL AREAS DAMAGED BY DEMOLITION WORK ARE TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES.

PATCH AND REPAIR REMAINING WALLS; AT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS IN SIZE, COLOR AND TEXTURE.

PATCH AND REPAIR ALL EXISTING FLOORS AS REQUIRED WHERE EXISTING WALLS HAVE BEEN REMOVED.

FURNITURE OR EQUIPMENT TO BE BUILT AND/ORG INSTALLED BY CONTRACTOR IS SPECIFICALLY NOTED, DIMENSIONED OR DETAILED. ALL OTHER FURNITURE OR EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER.

FOR CASEWORK DETAILS - REFER TO "NORTHERN AMERICA ARCHITECTURAL WOODWORK STANDARDS (A.W.S.).

CASEWORK DESIGNATION REFERS TO THE WIDTH (W) AND DEPTH (D) OF THE CABINET. REFER TO DIMENSIONS FOR HEIGHT. REFER TO "A.W.S." FOR CABINET NUMBER LOCATED BELOW DIMENSION LINE.

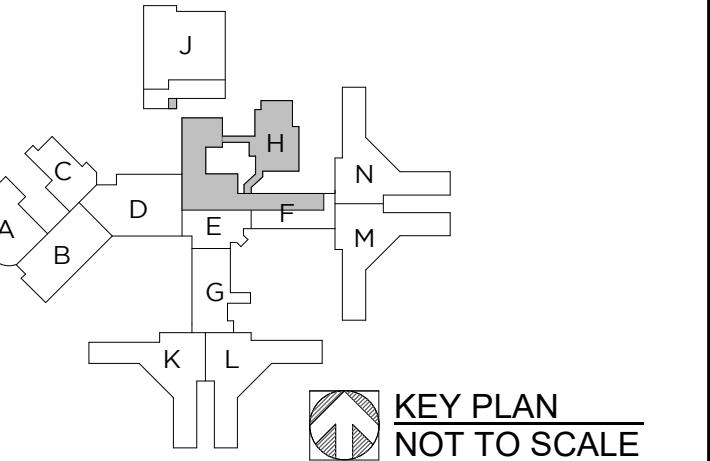
CONSTRUCTION KEYNOTES

- CONCRETE ENTRY SLAB (REFER TO STRUCTURAL)
- PLUMBING FIXTURE (REFER TO MECHANICAL)
- CASEWORK (REFER TO ELEVATIONS AND DETAILS)
- STAINLESS STEEL GRAB BARS
- PAPER TOWEL DISPENSER
- TOILET PAPER DISPENSER
- SANITARY NAPKIN RECEPTICLE
- MIRROR 18" x 36"
- SOAP DISPENSER
- RECESSED FIRE EXTINGUISHER CABINET
- FURNITURE AND EQUIPMENT (BY OWNER)
- SEMI-RECESSED DETENTION FIRE EXTINGUISHER CABINET
- PATCH AND REPAIR WALL CONSTRUCTION, WALL BASE, AND FLOORING TO MATCH EXISTING.
- COORDINATE LOCATION OF FLOOR TILE MOVEMENT JOINTS WITH ARCHITECT, TYPICAL OF TCNA EJ-171
- FIN TUBE RADIATOR (REFER TO MECHANICAL)
- PROVIDE NEW WATER COLD FLUID-APPLIED WATERPROOFING ALONG THE EXENT OF THE EXISTING FOUNDATION WALL - REFER TO CIVIL FOR COORDINATION OF NEW SIDEWALK, NEW ENTRY SLAB, AND FENCE MODIFICATIONS - USE CAUTION AS UNDERGROUND LINES ARE LOCATED IN THIS AREA.
- MECHANICAL CHASE VERIFY SIZE WITH KITCHEN EQUIPMETN MFR. AND MECHANICAL (REFER TO MECHANICAL)
- MECHANICAL CHASE VERIFY CLEAR WIDTH REQUIRED WITH MECHANICAL (REFER TO MECHANICAL)
- EYE WASH STATION (REFER TO FOOD SERVICE AND MECHANICAL)
- SEMI-RECESSED WET CHEMICAL FIRE EXTINGUISHER CABINET
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

1	BULLETIN NO 1	01/08/25
D.	REVISION	DATE

LE NO.
91/20167.SDW

ENDING CODE 1CODHHS7255	CONTRACT NO. Y22003
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9 752 8107

OBJECT TITLE

491/20167.SDW - PHASE 500:

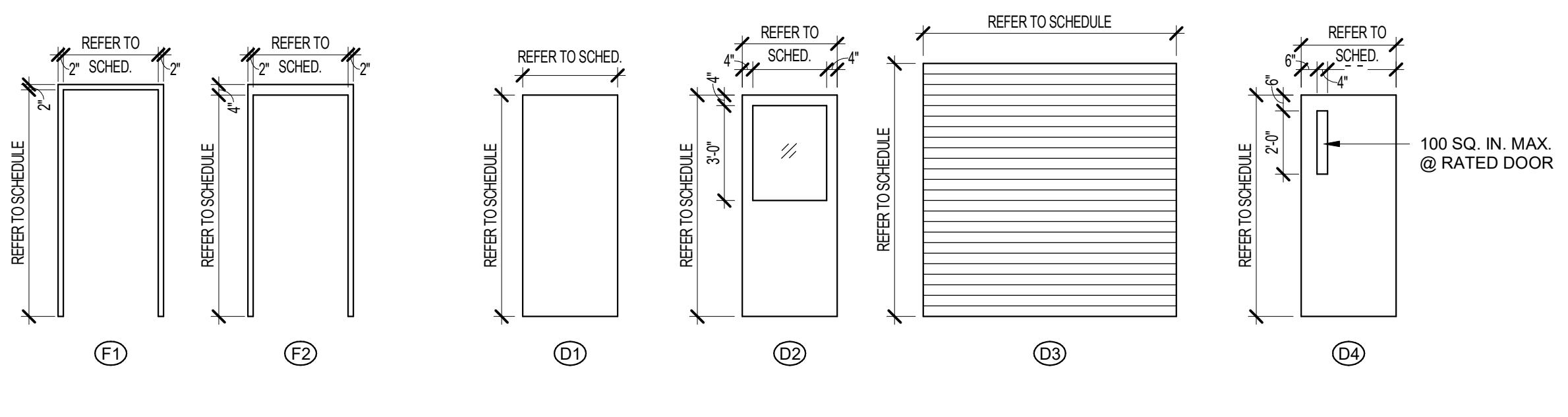
CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN

HEET TITLE
**FIRST FLOOR
CONSTRUCTION PLAN**

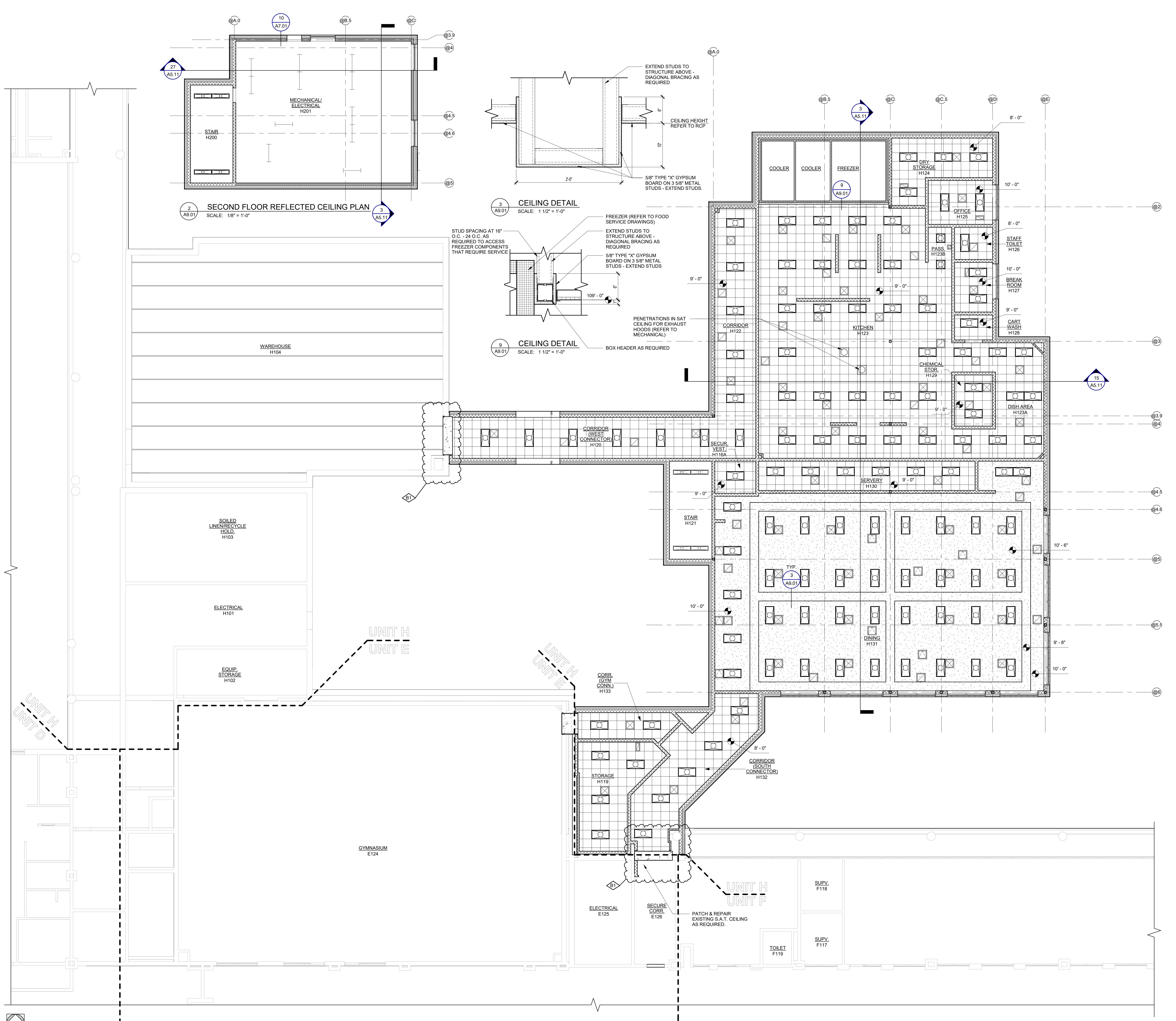
OBJECT NUMBER 2021094	SHEET NUMBER A2.21
OBJECT DATE SEPTEMBER 6, 2023	
CHECKED BY C.D.S.	

ROOM FINISH SCHEDULE													
ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	CLG. HEIGHT	REMARKS			
E124	GYMNASIUM	EXISTING	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	O			
E126	SECURE CORR.	EXIST. / R.W.B.	EXIST. / C.M.U.	PAINT	EXIST. / C.M.U.	PAINT	EXIST. / C.M.U.	PAINT	EXIST.	O			
H104	WAREHOUSE	EXISTING	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	O			
H116A	SECUR. VEST.	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"		
H119	STORAGE	R.T.F.	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"		
H120	CORRIDOR (WEST CONNECTOR)	SEALED CONC.	R.W.B.	C.M.U.	PAINT	—	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"	L
H121	STAIR	SEALED CONC.	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	EXP.	PAINT		
H122	CORRIDOR	SEALED CONC.	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"	L	
H123	KITCHEN	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	9' - 0"	N	
H123A	DISH AREA	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	9' - 0"	N	
H124	DRY STORAGE	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	8' - 0"	N	
H125	OFFICE	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	10' - 0"		
H126	STAFF TOILET	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	8' - 0"		
H127	BREAK ROOM	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	10' - 0"		
H128	CART WASH	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	9' - 0"	N	
H129	CHEMICAL STOR.	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	9' - 0"	N	
H130	SERVERY	RSF	RSF COVE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	9' - 0"	N	
H131	SERVERY	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"		
H132	CORRIDOR (SOUTH CONNECTOR)	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	8' - 0"	L	
H133	CORR. (GYM CONN.)	RTF	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	9' - 0"		
H200	STAIR	SEALED CONC.	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	EXP.	PAINT		
H201	MECHANICAL/ELECTRICAL	SEALED CONC.	—	GYP. BD.	PAINT	GYP. BD.	PAINT	GYP. BD.	PAINT	EXP.	PAINT		

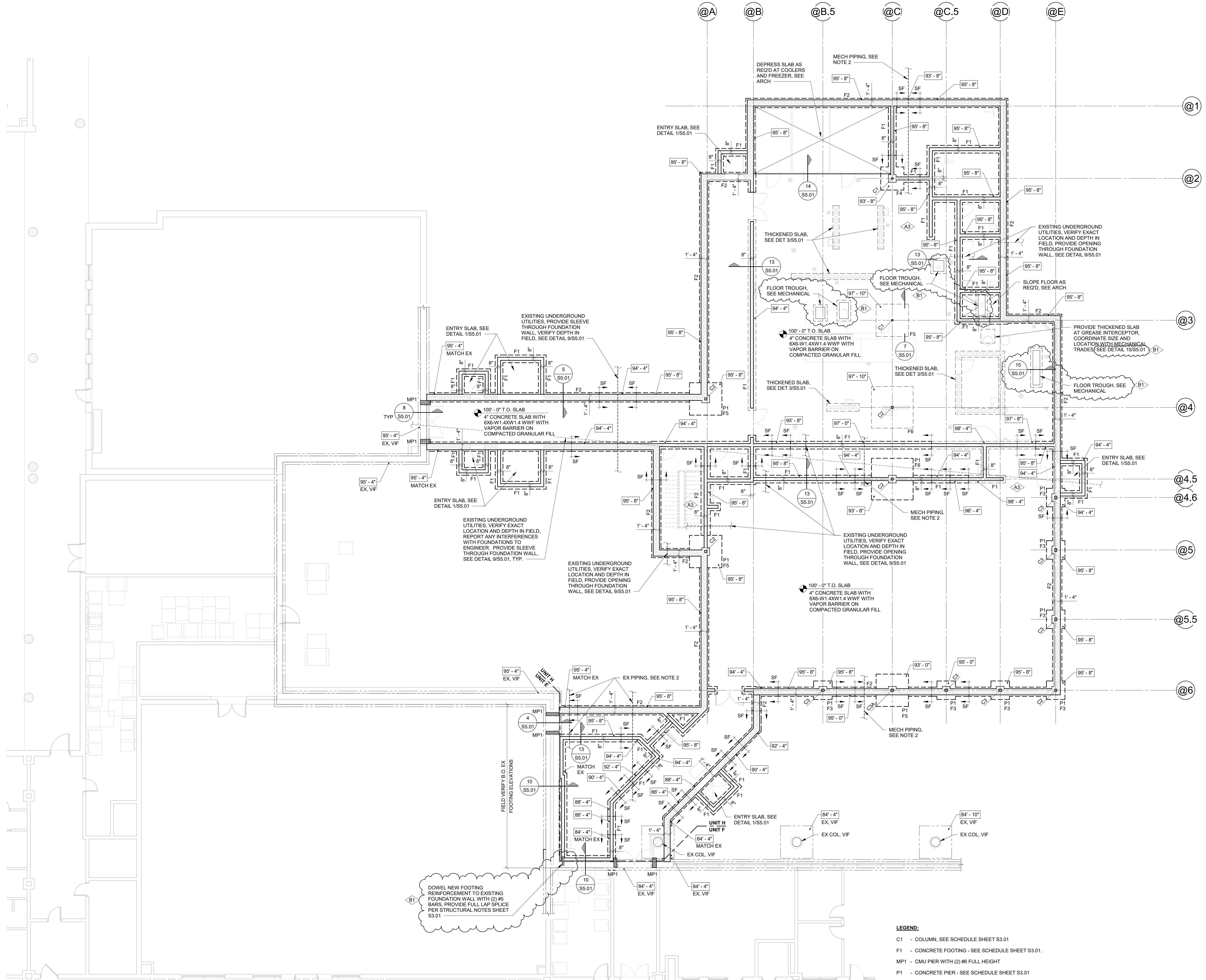
DOOR & FRAME SCHEDULE															
DOOR NUMBER	ROOM NAME	DOOR PAIR	WIDTH	HEIGHT	THK.	MAT.	TYPE	FRAME	DETAILS	HEAD	JAMB	SILL	FLR. RATING	REMARKS	
E124.C	GYMNASIUM	EXIST. (GYM CONN.)	3' - 0"	7' - 0"	1 3/4"	H.M.	D4	H.M.	F2	20'17.02 SIM.	11/A/31	30/A/02 SIM.	90	A, D, K, V	
E126	SECURE CORR.	EXIST. / C.M.U.	3' - 0"	7' - 0"	1 3/4"	H.M.	D2	H.M.	F2	20/A/01	25/A/01	—	20	B, C, D, G, V	
H120.A	CORR. (W. CONN.)	X	3' - 6"	7' - 0"	1 3/4"	H.M.	D4	H.M.	F2	27/A/02	1/A/31	30/A/02	90	B, C, G, W	
H120.B	CORR. (W. CONN.)	X	10' - 0"	8' - 0"	1 3/8"	STEEL	D3	STEEL	-	27/A/01	28/A/01	—	H		
H120.C	CORR. (W. CONN.)	X	3' - 6"	7' - 0"	1 3/8"	STEEL	D3	STEEL	-	27/A/01	28/A/01	—	H		
H120.D	CORR. (W. CONN.)	X	3' - 0"	7' - 2"	1 3/4"	H.M.	D2	H.M.	F1	21/A/01	29/A/23 SIM.	—	B	C, G, T	
H120.E	CORRIDOR (WEST CONNECTOR)	X	3' - 0"	7' - 2"	1 3/4"	H.M.	D2	H.M.	F1	21/A/01	29/A/23 SIM.	—	C, G, T		
H121	STAIR	X	3' - 0"	7' - 2"	1 3/4"	H.M.	D4	H.M.	F1	30/A/01	6/A/31	—	B	60 A, H, R, W	
H122.A	SECUR. VEST.	X	3' - 8"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	20 B, C, F, G, S		
H122.B	CORRIDOR	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	B	30 C, G, R, Y	
H122.C	CORRIDOR	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	B	30 C, G, R, Y	
H122.D	CORRIDOR	X	4' - 0"	7' - 2"	1 3/4"	H.M.	D2	H.M.	F1	21/A/01	29/A/23	—	C, D, G, T		
H122.E	DRY STORAGE	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	45 A, H		
H125.A	OFFICE	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	H, R		
H125.B	STAFF SILENT	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	H, R		
H125.C	BREAK ROOM	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	H, R		
H129.A	CHEMICAL STOR.	X	3' - 8"	7' - 2"	1 3/4"	H.M.	D1	H.M.	F1	20/A/01	6/A/31	—	C, G		
H130.A	SERVERY	X	3' - 8"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	H, S, Y		
H130.B	SERVERY	X	3' - 8"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	H, S, Y		
H131.A	FINNING COOL. (S. CONN.)	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	B, H, S		
H131.B	SECUR. VEST.	X	3' - 0"	7' - 2"	1 3/4"	WD	D2	H.M.	F1	20/A/01	6/A/31	—	B, H, S		
H131.C	DINING	X	3' - 0"	7' - 2"	1 3/4"	D.H.M.	D3	D.H.M.	F1	29/A/01	5/A/31	—	B, D, E, G, U		
H131.D	STAFF SILENT	X	3' - 0"	7' - 2"	1 3/4"	STEEL	D3	STEEL	CLASSIC	26/A/01	26/A/23	—	B, D, E, G, U		
H132.A	SECURE CORR.	X	3' - 6"	7' - 0"	1 3/4"	H.M.	D4	H.M.	F2	27/A/02	13/A/31	30/A/02	90	B, H, V	
H132.B	STORAGE	X	3' - 8"	7' - 2"	1 3/4"	H.M.	D1	H.M.	F1	20/A/01	6/A/31	—	45 A, H		
H132.C	CORRIDOR (SOUTH CONNECTOR)	X	3' - 0"	7' - 2"	1 3/4"	D.H.M.	D2	D.H.M.	F1	21/A/01	5/A/31	—	B	C, D, E, G, U	
H133.A	STAIR	X	3' - 0"	7' - 2"	1 3/4"	WD	D4	H.M.	F1	20/A/01	6/A/31	—	D, K, S		
H200.A	STAIR	X	3' - 0"	7' - 2"	1 3/4"	H.M.	D1	H.M.	F1	20/A/01	6/A/31	—	B	60 A, H, R, W	
H201.A		X	3' - 0"	7' - 2"	1 3/4"	H.M.	D1	H.M.	F1	22/A/01	22/A/30	—	H		



FINISH MATERIAL SCHEDULE													
MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS								
C. TILE - CERAMIC TILING	STONEPEAK	SIMPLY MODERN	SIMPLY TAN, HONED FINISH	12"X24"	WITH MATCHING SIMPLY MODERN 6"X12" COVE BASE, LATICRETE GROUT COLOR: H								



REFLECTED CEILING LEGEND:								
	LIGHT FIXTURES (REFER TO ELECTRICAL)							
	SUPPLY AIR GRILLE (REFER TO MECHANICAL)							
	RETURN AIR GRILLE / EXHAUST FAN (REFER TO MECHANICAL)							
	CEILING ACCESS PANEL - COORDINATE LOCATIONS WHERE CEILING ACCESS IS REQUIRED							
GENERAL CEILING NOTES:								
<ol style="list-style-type: none"> 1. COORDINATE INSTALLATION OF SUSPENDED CEILING SYSTEM WITH MECHANICAL AND ELECTRICAL SYSTEMS. 2. POSITION LIGHT FIXTURES IN CENTER OF CEILING TILES UNLESS NOTED OR DIMENSIONED OTHERWISE. 3. REFERENCE SPECIFICATIONS FOR SUSPENDED CEILING SYSTEM DESCRIPTION AND LOCATION REQUIREMENTS. 4. ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION REFERENCE ONLY, REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DETAILS. 5. FIRE DEVICES AND EXIT LIGHTING NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION, DETAILS, AND SPECIFICATIONS. 6. PROVIDE S.A.T. HOLD DOWN CLIPS AT EXTERIOR DOORS. 								
<p>STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET FACILITIES AND BUSINESS SERVICES ADMINISTRATION DESIGN AND CONSTRUCTION DIVISION ADAM LACH, RA, DIRECTOR</p>								
<p>FILE NO. 01/20167.SDW</p> <table border="1"> <tr> <td>RECORDING CODE 1C0DHHS7255</td> <td>CONTRACT NO. Y22003</td> </tr> </table> <p></p>			RECORDING CODE 1C0DHHS7255	CONTRACT NO. Y22003				
RECORDING CODE 1C0DHHS7255	CONTRACT NO. Y22003							
<p>WTAARCH.COM</p> <p></p>								
<p>WTA ARCHITECTS</p> <p>10 S Jefferson Ave, Suite 601 Flint, Michigan 48503 989-752-8107</p> <p>COPYRIGHT © 2024</p>								
<p>PROJECT TITLE 01/20167.SDW - PHASE 500: CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN FLINT, MICHIGAN</p>								
<p>FLOOR TITLE FIRST & SECOND FLOOR REFLECTED CEILING PLAN</p>								
<table border="1"> <tr> <td>OBJECT NUMBER 2021094</td> <td>SHEET NUMBER A9.01</td> </tr> <tr> <td>OBJECT DATE SEPTEMBER 6, 2023</td> <td></td> </tr> <tr> <td>CHECKED BY CDS</td> <td></td> </tr> </table>			OBJECT NUMBER 2021094	SHEET NUMBER A9.01	OBJECT DATE SEPTEMBER 6, 2023		CHECKED BY CDS	
OBJECT NUMBER 2021094	SHEET NUMBER A9.01							
OBJECT DATE SEPTEMBER 6, 2023								
CHECKED BY CDS								



NORTH
FOUNDATION PLAN
1/8" = 1'-0"

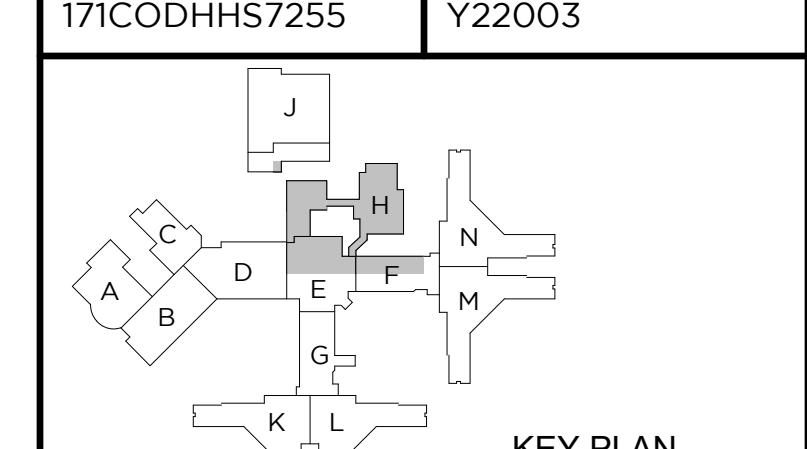
LEGEND:
 C1 - COLUMN, SEE SCHEDULE SHEET S3.01
 F1 - CONCRETE FOOTING - SEE SCHEDULE SHEET S3.01.
 MP1 - CMU PIER WITH (2) #6 FULL HEIGHT
 P1 - CONCRETE PIER - SEE SCHEDULE SHEET S3.01
 SF - STEP FOOTING - SEE DETAIL 2/S5.01.

NOTES:
 1. SEE SHEET S3.01 FOR GENERAL NOTES
 2. PROVIDE PIPE SLEEVE AT PIPE PENETRATIONS THROUGH FOUNDATION WALL, COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES, TYP. SEE DETAIL 11/S5.01 FOR PIPE SLEEVES THROUGH CONCRETE FOUNDATION WALLS.

B1 BULLETIN NO. 1 01/08/25
 A3 ADDENDUM NO. 3 09/28/23
 NO. REVISION DATE
 STATE OF MICHIGAN
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 FACILITIES AND BUSINESS SERVICES ADMINISTRATION
 DESIGN AND CONSTRUCTION DIVISION
 ADAM LACH, RA, DIRECTOR

FILE NO.
 491/20167.SDW

FUNDING CODE
 171CODHHS7255 CONTRACT NO.
 Y22003



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PROJECT TITLE
 491/20167.SDW - PHASE 500:
 CENTER FOR FORENSIC
 PSYCHIATRY - CREATE
 KITCHEN
 SALINE, MICHIGAN

SHEET TITLE
 FOUNDATION PLAN

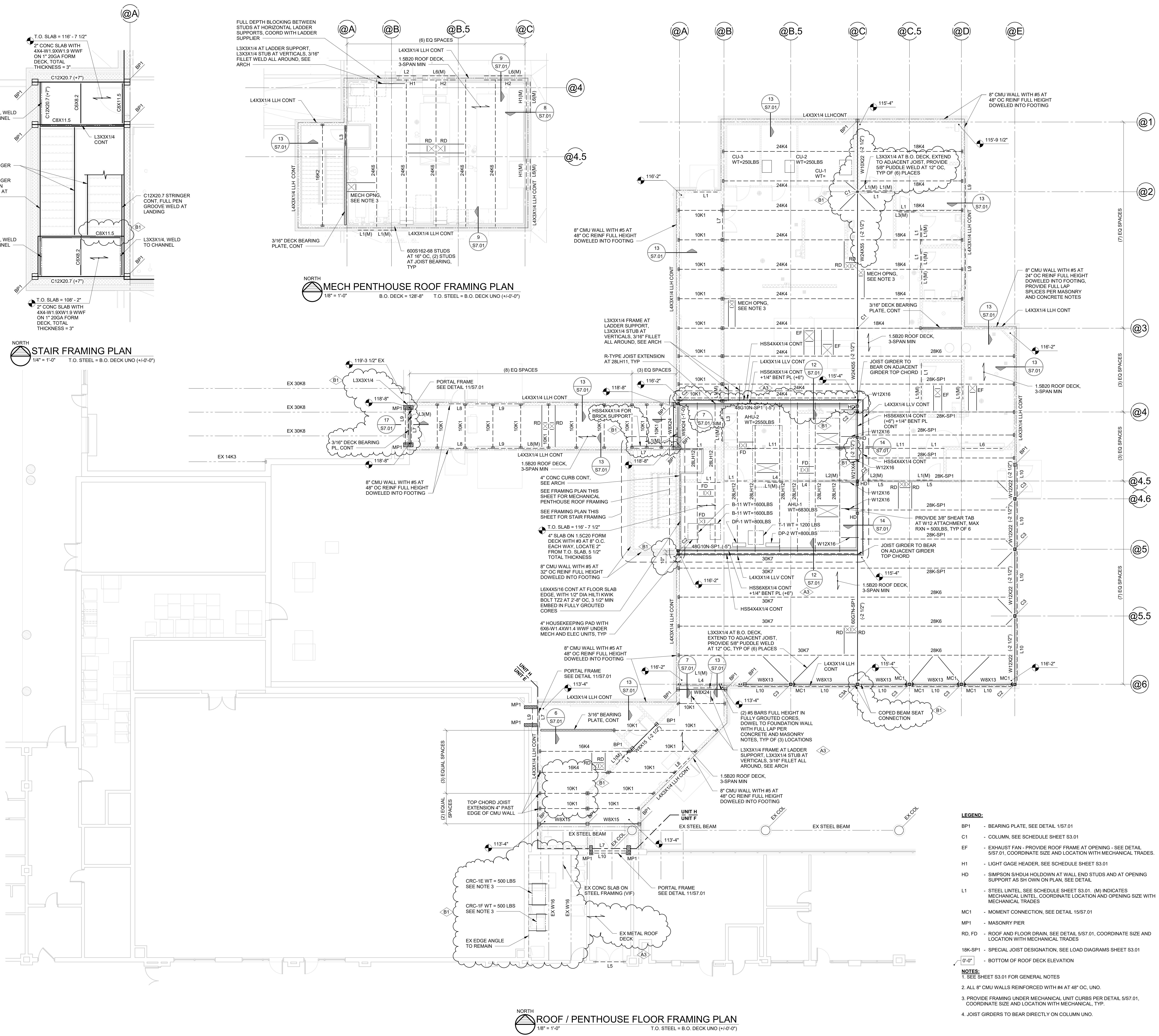
PROJECT NUMBER
 2021094

SHEET NUMBER

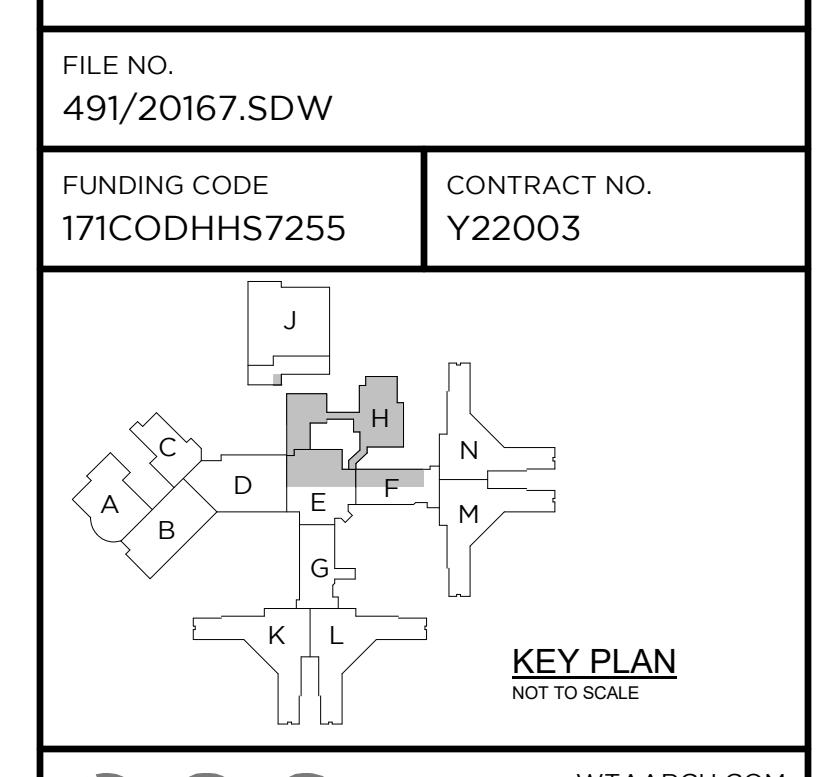
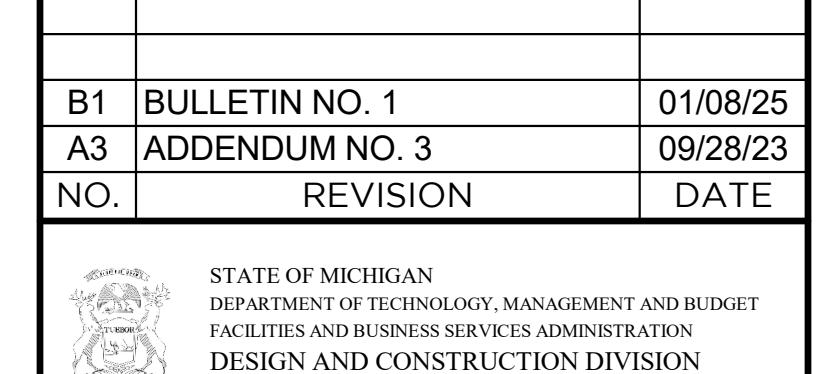
S2.01

PROJECT DATE
 SEPTEMBER 6, 2023

CHECKED BY
 JAG



B1	BULLETIN NO. 1	01/08/25
A3	ADDENDUM NO. 3	09/28/23
NO.	REVISION	DATE
STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET FACILITIES AND BUSINESS SERVICES ADMINISTRATION DESIGN AND CONSTRUCTION DIVISION ADAM LACH, RA, DIRECTOR		
FILE NO. 491/20167.SDW		
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PROJECT TITLE

491/20167.SDW - PHASE 500:

CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN

SALINE, MICHIGAN

SHEET TITLE

ROOF FRAMING PLAN

PROJECT NUMBER

2021094

PROJECT DATE

SEPTEMBER 6, 2023

CHECKED BY

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GENERAL

- VERIFY DIMENSIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT.
- VERIFY OPENINGS IN THE FRAMING PLANS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- ALL WORK SHALL CONFORM TO MICHIGAN BUILDING CODE 2015.
- DESIGN LOADS
 - A. DESIGNED IN ACCORDANCE WITH MICHIGAN BUILDING CODE 2015.
 - B. ROOF SNOW LOAD: GROUND SNOW LOAD $P_g = 20$ PSF. ROOF SNOW LOAD $P_r = 15$ PSF. SNOW EXPOSURE FACTOR, $CE = 1.0$. SNOW LOAD IMPORTANCE FACTOR, $I = 1.1$. THERMAL FACTOR, $CT = 1.0$. DRIFTED SNOW LOAD, SEE DIAGRAM THIS SHEET

C. FLOOR LIVE LOADS:
 STAIR 100 PSF
 CORRIDOR, KITCHEN 100 PSF
 MECHANICAL ROOMS 125 PSF
 D. WIND LOADS: BASIC WIND SPEED, $V_{ASD} = 120$ MPH
 WIND EXPOSURE C
 WIND LOAD, PRESSURE COEFFICIENT, $GC_Pi = +0.18$
 WALL COMPONENTS & CLADDING
 EFFECTIVE WIND AREA (FT²) POSITIVE PRESSURE (PSF) NEGATIVE PRESSURE (PSF)

-END ZONE	10	33	-44
20	32	-41	
50	30	-38	
100	29	-35	
-INTERIOR ZONE	10	33	-36
20	32	-35	
50	30	-33	
100	29	-31	

E. EARTHQUAKE DESIGN DATA:
 SEISMIC IMPACT FACTOR, $I = 1.25$
 SPECTRAL RESPONSE COEFFICIENTS: $SDS = 0.104$, $SD1 = 0.08$
 SITE CLASS D
 BASIC SEISMIC - FORCE - RESISTING SYSTEM: SHEAR WALL, MOMENT FRAME
 SEISMIC DESIGN CATEGORY, B

5. SPECIAL INSPECTIONS:
 A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, SECTION 1700.
 B. THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS: (REFER TO THE BUILDING CODE AND SPECIFICATIONS FOR DETAILED INSPECTION REQUIREMENTS)

- 1. EARTH FILL
- 2. CONCRETE CONSTRUCTION
- 3. STEEL CONSTRUCTION
- 4. MASONRY CONSTRUCTION
- 5. SPRAYED FIRERESISTIVE MATERIALS.

FOUNDATION NOTES

1. FOUNDATIONS ARE DESIGNED BASED ON SOIL BEARING OF 2000 PSF. IF SOIL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATION NOTED, ENLARGE OR LOWER FOOTINGS AT THE DIRECTION OF THE ARCHITECT/ENGINEER.

2. PLACE STRUCTURAL BACKFILL MEETING OR EXCEEDING MDOT CLASS II IN LAYERS NOT EXCEEDING 6" LOOSE THICKNESS. COMPACT EACH LAYER TO AT LEAST 95% OF THE MAXIMUM DENSITY PER ASTM D-1557. COMPACTING BY FLOODING IS NOT PERMITTED.

3. CENTER FOOTINGS UNDER WALL LOCATION AND COLUMNS AND COLUMNS UNLESS NOTED.

4. EARTH FORMS ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED.

5. DISTURBANCE OF THE FOUNDATION BEARING SOILS SHALL BE AVOIDED.

6. EXISTING FOUNDATIONS OR FLOOR SLAB ENCOUNTERED DURING SITE GRADINGS AND EXCAVATION SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW NEW CONSTRUCTION. REPLACE WITH STRUCTURAL BACKFILL.

7. PROVIDE BOND BREAK MATERIAL BETWEEN ALL GRADE SLABS AND VERTICAL SURFACES.

8. BACKFILL AND EXCAVATION PER SPECIFICATIONS.

9. FOLLOWING DEMOLITION OF STRUCTURES AND STRIPPING OF TOPSOIL, PREPARE SOILS IN ACCORDANCE WITH SOILS REPORT BY SME DATED FEBRUARY 9, 2022.

CONCRETE NOTES

1. ACI BUILDING CODE (18-14): MANUAL OF STANDARD PRACTICE FOR DETAILING (315) FOR THE MIXING, FABRICATION AND PLACEMENT OF CONCRETE, REINFORCING STEEL, AND ACCESSORIES.

2. CONCRETE STRENGTH - STANDARD WEIGHT CONCRETE:
 FOOTINGS, WALLS, PIERS: $F_C = 3000$ MINIMUM PSI
 CONCRETE SLABS ON GRADE: $F_C = 3500$ MINIMUM PSI
 EXTERIOR CONCRETE SLABS EXPOSED TO DE-ICING: $F_C = 4500$ MINIMUM PSI

3. REINFORCING - BARS: ASTM A-615 GRADE 60
 WELDED WIRE FABRIC: ASTM A-1064

4. CONCRETE SLABS ON GRADE REINFORCING: 6W-1.4W1.4 WWF UNLESS NOTED. LOCATED IN THE UPPER 1/3 OF SLAB THICKNESS.

5. PROVIDE SAWCUT CONTROL JOINTS AT APPROXIMATELY 20' ON CENTER EACH WAY IN SLABS OR GROUT JOINTS AT 20' ON CENTER UNDER PARTITIONS WHENEVER POSSIBLE. CONSTRUCTION JOINTS AT CONTRACTOR'S OPTION.

6. DEPRESS SLABS AS REQUIRED FOR FLOOR FINISHES, SEE ARCHITECT.

7. SLOPE FLOORS AS REQUIRED TO FLOOR DRAINS, SEE ARCHITECT.

8. FORM ALL CONCRETE.

10. EXPOSED EDGES OF CONCRETE BEAMS, COLUMNS, ETC. SHALL BE CHAMFERED 1/4".

11. PROVIDE CORNER BARS FOR ALL CONTIGUOUS CORNERS.

12. WATER/CEMENT RATIO LIMITS:
 $F_C = 3000$ PSI 0.68 NON-AIR ENTRAINED, 0.50 AIR ENTRAINED
 $F_C = 3500$ PSI 0.62 NON-AIR ENTRAINED, 0.50 AIR-ENTRAINED
 $F_C = 4500$ PSI 0.4 AIR-ENTRAINED

13. SLUMP LIMITS:
 3" FOR FOUNDATIONS, 4" FOR SLABS AND WALLS

14. PROVIDE AIR ENTRAINED CONCRETE FOR EXTERIOR EXPOSURES.

15. CONTRACTOR TO SUBMIT SIZE AND LAYOUT OF CONCRETE WALL SLEEVES, OPENINGS, ETC. FOR REVIEW PRIOR TO CONCRETE PLACEMENT.

16. REINFORCING LAP LENGTH: 45 BAR DIAMETERS (36 IF STAGGERED) FOR BARS UP TO #5, 60 BAR DIAMETERS (48 IF STAGGERED) FOR BARS LARGER THAN #5.

MASONRY NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530 SPECIFICATIONS.
2. MORTAR: AS SPECIFIED.
3. GROUT: ASTM C476, $F_G = 2000$ PSI, TESTED PER ASTM C1019.
4. REINFORCING BARS SHALL BE ASTM A-615, GRADE 60, LAP MINIMUM 40 BAR DIAMETERS FOR #5 BARS AND SMALLER, LAP MINIMUM 60 BAR DIAMETERS FOR BARS LARGER THAN #5 UNLESS OTHERWISE.
5. HORIZONTAL WALL REINFORCING: PER ASTM A-82, 9 GA HOT-DIPPED GALVANIZED PERFORATED STEEL. PROVIDE 1/2" SPACES TO SUPPLY REINFORCING JOINTS AT 18" O.C. AND AT 18" AND 24" BED JOINTS AT BOTTOM OF WALL, TOP OF WALL, ABOVE LINTELS AND BELOW SILLS. REINFORCING CONTINUOUS EXCEPT AT CONTROL JOINTS. SIDE RODS LAPPED A MINIMUM OF 6" AT SPLICES. PROVIDE PREFABRICATED CORNERS AND TEES.
6. CONCRETE MASONRY UNITS: ASTM C-90, GRADE N, TWO CORE TYPE FOR REINFORCED MASONRY. DESIGN BASED ON $F_m = 2000$ PSI.
7. VERTICAL WALL REINFORCING: 1- #5 EACH SIDE OF MASONRY OPENINGS, CONTROL JOINTS AND AS SHOWN, IN GROUT FILLED BLOCK CORES.
8. VERTICAL BAR REINFORCING: PLACE ACCURATELY AND MECHANICALLY HOLD IN POSITION WHILE GROUTING. GROUTING SHALL BE DONE IN LOTS NOT EXCEEDING 4'-0" AND MECHANICALLY CONSOLIDATED IN PLACE; CONSOLIDATION BY RODDING NOT ACCEPTABLE.
9. PROVIDE COMPLETELY GROUTED UNITS:
 - A. UNDER PRECAST FLOOR PLANK BEARING
 - B. UNDER CAST-IN-PLACE CONCRETE FLOOR BEARING
 - C. UNDER PRECAST ARCHITECTURAL CONCRETE PANEL BEARING
 - D. UNDER PRECAST CONCRETE BEARING
 - E. UNDER ANY CHANGE OF WALL THICKNESS, I.E. 8" ON TOP OF 12"
 - F. UNDER STEEL JOIST OR BEAM BEARING.
10. PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS OVER 8' WIDE. SEE SCHEDULE(S).
11. RUNNING BOND MASONRY SHALL BE BUILT INTEGRALLY AT WALL CORNERS UNLESS INDICATED OTHERWISE.
12. BLOCK CONTROL JOINTS SHALL BE "MICHIGAN" TYPE UNLESS NOTED OTHERWISE. TEMPORARY REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
13. TEMPORARY WALL BRACING IS THE CONTRACTOR'S RESPONSIBILITY. CONFORM TO APPLICABLE CODES AND STANDARDS.
14. CONTRACTOR SHALL KEEP THE AIR SPACE CAVITY BETWEEN THE CONCRETE MASONRY AND VENEER COMPLETELY CLEAR OF MORTAR AND DEBRIS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL: FABRICATED AND ERECTED PER THE AISC MANUAL OF STEEL CONSTRUCTION.

W-BEAMS: ASTM A-992 GR. 50.
 HSS: ASTM A-500 GRADE B.
 STEEL PIPE: ASTM A53, TYPE E, GRADE B.
 ALL OTHER SHAPES: ASTM A-36.

2. ANCHOR RODS: 36 KSI ASTM F-1554.

3. WELDS: TO BE 70% LOW-HUGO GEE FILLER METAL PLACED BY WELDERS CERTIFIED TO WELD AND POSITION BY CLASS 1, STRUCTURAL WELDING CODE. ALL WELDS SHALL BE APPLIED TO SURFACES FREE OF GREASE, PAINT, DIRT, OR OTHER HARMFUL MATERIAL.

4. BOLTED CONNECTIONS: 3/4" DIAMETER A-325 BOLTS WITH HEAVY HEX NUTS UNLESS NOTED. DESIGNED FOR BEARING CONNECTIONS, TIGHTENED TO SNUG TIGHT CRITERIA UNLESS NOTED OTHERWISE.

5. STEEL PRIMER: RUST INHIBITING ALKYD INDUSTRIAL PRIMER, SSPC 6, 1.5 MIL MINIMUM THICKNESS EXCEPT STEEL WHICH WILL RECEIVE SPRAYED-ON FIRE PROOFING.

6. BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY PER ASC. WHEREVER POSSIBLE, EXTEND CONNECTIONS FULL DEPTH OF BEAM.

7. SHEAR TAB CONNECTIONS TO STEEL BEAMS ARE NOT ACCEPTABLE UNLESS BEAMS OF EQUAL STRENGTH ARE FASTENED ON OPPOSITE SIDES OF THE STEEL BEAM.

8. BEAM BEARING PLATES ARE TO BE LOCATED ON CENTER OF WALL UNLESS NOTED OTHERWISE. BEAM BEAM FULL LENGTH OF BEARING PLATES.

9. WHERE BEAMS BEAR ON COLUMNS, BEAMS BEAR ON BEAMS, BEAMS HANG FROM BEAM, OR COLUMNS BEAR ON BEAMS, STIFFENER PLATES MINIMUM 1/4" THICK.

10. TEMPORARY BRACING IS TO BE MAINTAINED UNTIL PERMANENT CONNECTIONS ARE COMPLETED, APPROVED, AND SUPPORTED SLABS ARE CAST AND CURED.

11. INSTALL BRICK SUPPORT SHELF MEMBERS AFTER ALL SUPPORTED CONCRETE FLOOR SLABS AND ROOF DECK WITH ROOFING IS IN PLACE.

12. BEAMS AND GIRDERS HAVE BEEN DESIGNED WITHOUT SHORING REQUIRED.

INSTALLATION OF SHORING IS PERMITTED AT CONTRACTOR'S OPTION. ANTICIPATED BEAM DEFLECTION UNDER WET CONCRETE LOAD IS SPAN/360, 3/4" MAX.

13. DO NOT ALLOW LOADS ON SLAB UNTIL CONCRETE HAS ATTAINED A MINIMUM OF 75% OF THE 28-DAY SPECIFIED STRENGTH.

14. PROVIDE SHEAR TABS FOR ALL JOISTS.

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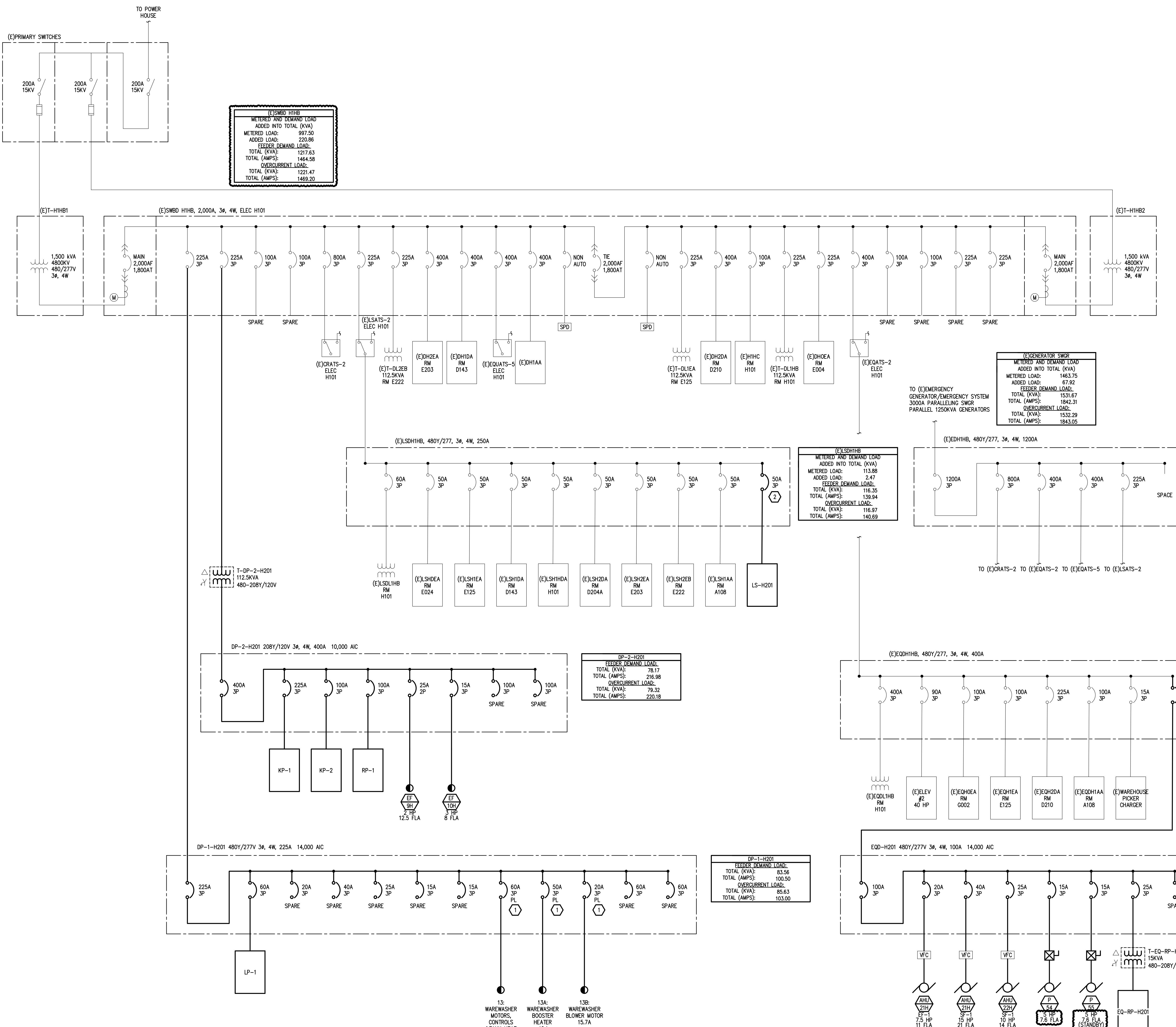
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ONE-LINE DIAGRAM - SWITCHBOARD H1HB

DIAGRAM GENERAL NOTES:

THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.

FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE—GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.

TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE—GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.

MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.

BASIS OF DESIGN IS EATON/CUTLER-HAMMER POW-R-LINE DISTRIBUTION EQUIPMENT. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.

VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

CONSTRUCTION KEY NOTES:

- I. PROVIDE PADLOCKABLE HANDLE.
- II. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF PANEL. EXISTING PANEL IS CUTLER-HAMMER POW-R-LINE PRL4 SERIES.

1	BULLETIN NO 1	01/08/25
O.	REVISION	DATE

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1/20167.SDW



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OBJECT TITLE
491/20167.SDW - PHASE 500:
**CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN**

ONE LINE DIAGRAM - NEW

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SHEET NUMBER