

ADDENDUM # 3**DATE:** 06/16/2026**PROJECT:** Indiana State University Hulman Center Locker Room Renovations**RATIO PROJECT NUMBER:** 26029.000**OWNER:**

Indiana State University
Facilities Management
951 Sycamore Street
Terre Haute, Indiana 47809
(812) 237-8100

ARCHITECT:

RATIO ARCHITECTS, INC.
101 South Pennsylvania Street
Indianapolis, IN 46204-3684
(317) 633-4040

MEPT ENGINEER:

R.E. Dimond & Associates, Inc.
732 N Capitol Avenue
Indianapolis, IN 46204
(317) 634-4672

This Addendum is issued in accordance with the provisions of Contract Documents and becomes a part of the Contract Documents as provided therein. The information contained herein modifies the original Bidding Documents dated **May 15, 2026** and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect except as modified by this Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

PART 1 – GENERAL CLARIFICATIONS

1. Bidder question:

- a. Please confirm that the 100hp fire pump is an existing pump in the building and not apart of fire protection scope as its stated on drawing G002.2. On pages FP301 and FP302 please confirm that we can reuse the branch lines as needed. What is the current height of the branch lines so I can verify if they do need to be raised.

Answer: Fire pump is existing to remain. Our Plan Note 1 on FP-301 and FP-302 says to “remove sprinkler piping to mains and prepare for reconnection at higher elevation.” Our field observation confirmed that the existing pipes are too low to allow for the ceiling to be raised as much as desired. With the reconfiguration of other items above the ceiling, we need to redo this piping so that it’s coordinated with all trades. The bids should include the cost to redo the piping.

PART 2 - PROJECT MANUAL CHANGES

1. 00 01 10 – TABLE OF CONTENTS
 - a. Add Section 08 71 00 Door Hardware.
 - b. Add Section 10 28 00 Toilet, Bath, and Laundry Accessories.
2. 08 71 00 DOOR HARDWARE
 - a. Insert new section 08 71 00 “Door Hardware” into Project Manual.
3. 10 28 00 – TOILET, BATH, AND LAUNDRY ACCESSORIES
 - a. Insert new section 10 28 00 “Toilet, Bath, and Laundry Accessories into Project Manual.
4. 10 51 00 – LOCKERS
 - a. Add Grid (Built by Grid) to acceptable manufacturers.

PART 3 - DRAWING CHANGES

1. A-002.1 – INTERIOR PARTITION TYPES AND FINISH SCHEDULE
 - a. Tag 03C removed from Toilet Compartment C diagram.
 - b. Tag 03 changed to 03A to align with diagram in Toilet Room Accessories schedule.
 - c. Door 166 added to Door Schedule, and note removed from door 170 in Door Schedule.
2. A-401 - ENLARGED PLAN AND RCP – MBB LOCKER ROOM
 - a. Demo note 11 updated.
3. A-402 – ENLARGED PLAN AND RCP – WBB LOCKER ROOM
 - a. Door tags added to Entry and Storage rooms.
 - b. Demo note 11 updated.

PART 4 – PREVIOUS ADDENDA

1. ADDENDUM 01 – June 1, 2026.
2. ADDENDUM 02 – June 4, 2026.

PART 5 – ATTACHMENTS

- A. Drawing Sheets (by division):
 1. A-002.1, A-401, A-402
 - 2.
- B. Specifications
 1. 00 01 10 – TABLE OF CONTENTS
 2. 08 71 00 DOOR HARDWARE
 3. 10 28 00 – TOILET, BATH, AND LAUNDRY ACCESSORIES
 4. 10 51 00 – LOCKERS
- C. Supplemental Documents:
 1. NA

END OF ADDENDUM # 3

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- 00 10 10 Instructions to Bidders
- 00 10 20 Certification Regarding Suspension, Debarment, Ineligibility and Voluntary Exclusion
- 00 10 30 MBE/WBE/VBE Compliance Instructions
- 00 10 40 MBE/WBE/VBE Participation Plan
- 00 10 41 Tier II Spend Reporting Form
- 00 10 45 Bidders Certification of Authorized Employment
- 00 10 50 Sample ISU/Contractor Contract for Construction
- 00 20 00a Bid Form – Locker Room
- 00 20 10 Sample AIA A201 2007
- 00 20 11 Amendments to General Conditions (AIA A201 2007)
- 00 20 20 Supplementary General Conditions
- 00 30 00 ISU Special Requirements and Information

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- 01 32 00A Request for Substitution
- 01 32 00B Claims Waiver – Electronic Data Use
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- 01 70 00 Field Engineering
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- 01 74 19 Construction Waste Management and Disposal
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- 02 41 14 Selective Demolition

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10 11 00 Visual Display Units

10 14 19 Dimensional Letter Signage

10 21 13.17 Phenolic Toilet Compartments

10 28 00 Toilet, Bath, and Laundry Accessories

10 28 19 Tub and Shower Enclosures

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DIVISION 11 EQUIPMENT

11 30 13 Residential Appliances

DIVISION 12 FURNISHINGS

12 36 61.16 Solid Surfacing Countertops

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Not Used

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- 21 10 00 Water-Based Fire Suppression

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28 05 00 Common Work Results for Electronic Safety and Security

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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware

B. Section excludes:

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

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Miscellaneous Rough Carpentry"
3. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
4. Division 08 Sections:
 - a. "Metal Doors and Frames"

1.2 REFERENCES

A. DHI - Door and Hardware Institute

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

B. NFPA – National Fire Protection Association

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

C. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities

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

1.3 SUBMITTALS

A. General:

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

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
3. Door Hardware Schedule:
 - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
 - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.

- 4) Fastenings and other pertinent information.
- 5) Location of each hardware set cross-referenced to indications on Drawings.
- 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
- 7) Mounting locations for hardware.
- 8) Door and frame sizes and materials.
- 9) Degree of door swing and handing.

4. Key Schedule:

- a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
- d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

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

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

E. Inspection and Testing:

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

1.4 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

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

B. Certifications:

1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
2. Smoke and Draft Control Door Assemblies:

- a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
- b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

3. Accessibility Requirements:

- a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference

- a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Address for delivery of keys.

2. Pre-installation Conference

- a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- b. Inspect and discuss preparatory work performed by other trades.
- c. Review required testing, inspecting, and certifying procedures.
- d. Review questions or concerns related to proper installation and adjustment of door hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

1.6 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.7 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks: 10 years
 - 2) Closers: 30 years

1.8 MAINTENANCE

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

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."

1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.3 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
2. Acceptable Manufacturers and Products:
 - a. Hager BB1191/1279 series
 - b. McKinney TB series

c. Best FBB series

B. Requirements:

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

2.4 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage L9000 series
2. Acceptable Manufacturers and Products:
 - a. Osk Security Group 1ML series

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.

2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
 - a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
 - b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
 - c. Low maximum current draw – maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
 - d. Low holding current (Lever control or latch retraction) – maximum 0.01 amps to produce minimal heat, eliminate "hot levers" in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
 - e. Connections – provide quick-connect Molex system standard.
8. (OPTION Key Override) Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position - where the XL13-439 option is specified in the hardware sets.
9. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
 - a. (OPTION Vandlgard) Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
 - b. Lever Design: 17A

2.5 DEADBOLTS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage B600/B700/B800 Series

2. Acceptable Manufacturers and Products:
 - a. Osk Security Group 1MS series
- B. Requirements:
 1. Provide grade 1 deadbolt series conforming to ANSI/BHMA A156.
 2. Cylinders: Refer to "KEYING" article, herein.
 3. Provide deadbolts with standard 2-3/4 inches (70 mm) backset. Provide 2-3/8 inches (60 mm) where noted or if door or frame detail requires. Provide deadbolt with full 1-inch (25 mm) throw, constructed of steel alloy.
 4. Provide manufacturer's standard strike.
 5. Lock Status Indicator Trim: Where specified, provide escutcheon with lock status indicator window.
 - a. Escutcheon height 4.125 inches, width 2.54 inches. Projection 1.32 inches on thumbturn side and 1.28 inches on cylinder side.
 - b. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
 - c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
 - d. Indicator window to provide 180-degree visibility.

2.6 CYLINDERS

- A. Manufacturers:
 1. Scheduled Manufacturer and Product:
 - a. Best Access Systems
 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.7 KEYING

- A. Scheduled System:
 1. Existing factory registered system:
 - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Construction Keying:

a. Replaceable Construction Cores.

- 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - a) 3 construction control keys
 - b) 12 construction change (day) keys.
- 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:

a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.

- 1) Master Keying system as directed by the Owner.

b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.

c. Provide keys with the following features:

- 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)

d. Identification:

- 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
- 2) Identification stamping provisions must be approved by the Architect and Owner.
- 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
- 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
- 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

e. Quantity: Furnish in the following quantities.

- 1) Change (Day) Keys: 1 per cylinder/core that is keyed differently

2.8 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

- a. LCN 4040XP series

2. Acceptable Manufacturers and Products:

- a. No Substitute

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.9 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:

- a. Ives

2. Acceptable Manufacturers:

- a. Burns
- b. Trimco
- c. Rockwood

B. Requirements:

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

2.10 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:

- a. Ives

2. Acceptable Manufacturers:

- a. Burns
- b. Trimco
- c. Rockwood

B. Requirements:

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

2.11 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:

- a. Glynn-Johnson

2. Acceptable Manufacturers:

- a. Rixson
- b. Sargent
- c. ABH

B. Requirements:

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

2.12 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Burns
 - b. Rockwood
 - c. Trimco

B. Requirements:

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

2.13 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

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

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

- B. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.
- J. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- K. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

- L. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

3.3 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.4 CLEANING AND PROTECTION

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

3.5 DOOR HARDWARE SCHEDULE

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

RATIO Design

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 Electrified Opening

Hardware Group No. 01

For use on Door #(s):
127

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER		FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)		652	IVE
1	EA	CLASSROOM DEADBOLT	B663BDC		626	SCH
1	EA	SFIC CYLINDER	KEYED TO/MATCH EXISITNG SYSTEM		626	BES
1	EA	PUSH PLATE	8200 4" X 16"		630	IVE
1	EA	PULL PLATE	8303 8" 4" X 16"		630	IVE
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP REG ST-1630		689	LCN
1	EA	MOUNTING PLATE	4040XP-18TJ		689	LCN
1	EA	KICK PLATE	8400 4" X 1" LDW B-CS		630	IVE
1	EA	KICK PLATE	8400 8" X 1 1/2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 02

For use on Door #(s):
170

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER		FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)		652	IVE
1	EA	STOREROOM LOCK	L9080BDC 17A		626	SCH
1	EA	SFIC CYLINDER	KEYED TO/MATCH EXISITNG SYSTEM		626	BES
1	EA	OH STOP	100S		630	GLY
3	EA	SILENCER	SR64		GRY	IVE

END OF SECTION 087100

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Public-use washroom accessories.

1.2 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.3 ACTION SUBMITTALS

- A. Product Data:
 - 1. Public-use washroom accessories.
- B. Product Data Submittals: For each product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
 - 2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
- C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
 - 1. Identify locations using room designations indicated.
 - 2. Identify accessories using designations indicated.
- D. Delegated Design Submittals: For grab bars.
 - 1. Include structural design calculations indicating compliance with specified structural-performance requirements.

1.4 INFORMATIONAL SUBMITTALS

- A. Sample Warranty: For manufacturer's special warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For accessories to include in maintenance manuals.

1.6 WARRANTY

- A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, visible silver spoilage defects.
 - 2. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Design accessories and fasteners to comply with the following requirements:
 - 1. Grab Bars: Installed units are able to resist 250 lbf concentrated load applied in any direction and at any point.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

- A. Source Limitations: Obtain public-use washroom accessories from single source from single manufacturer.
- B. Toilet Tissue (Roll) Dispenser (**04A**):
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
 - 2. Description: Roll-in-reserve dispenser with hinged front secured with tumbler lockset.
 - 3. Mounting: Surface mounted.
 - 4. Operation: Noncontrol delivery with theft-resistant spindle.
 - 5. Capacity: Designed for 4-1/2- or 5-inch diameter tissue rolls.
 - 6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

C. Combination Towel (Folded) Dispenser/Waste Receptacle (01A):

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
2. Description: Combination unit for dispensing C-fold or multifold towels, with removable waste receptacle.
3. Mounting: Surface mounted.
4. Minimum Towel-Dispenser Capacity: 350 C-fold or 475 multifold paper towels.
5. Minimum Waste-Receptacle Capacity: 3 gal.
6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
7. Liner: Reusable, vinyl waste-receptacle liner.
8. Lockset: Tumbler type for towel-dispenser compartment.

D. Soap Dispenser (06A):

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
 - d. Koehler
2. Description: Designed for manual operation and dispensing soap in liquid or lotion form.
3. Mounting: Deck mounted on lavatory.
4. Capacity: 16 oz.

E. Grab Bar (05*):

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
2. Mounting: Flanges with concealed fasteners.
3. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin).
4. OD: 1-1/4 inches.
5. Configuration and Length: As indicated on Drawings.

F. Sanitary-Napkin Disposal Unit (03):

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
2. Mounting: Surface mounted.
3. Door or Cover: Self-closing, disposal-opening cover.
4. Receptacle: Removable.
5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

G. Mirror Unit (08*):

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated in Drawings or comparable product by one of the following:
 - a. ASI Group.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley.
2. Size: As indicated on Drawings.
3. Hangers: Manufacturer's standard rigid, tamper and theft resistant.

2.3 MATERIALS

- A. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.031-inch-minimum nominal thickness unless otherwise indicated.
- B. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.
- C. Fasteners: Screws, bolts, and other devices of same material as accessory unit, unless otherwise recommended by manufacturer or specified in this Section, and tamper and theft resistant where exposed, and of stainless or galvanized steel where concealed.
- D. Mirrors: ASTM C1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.4 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION**3.1 INSTALLATION**

- A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.
- C. Shower Seats: Install to comply with specified structural-performance requirements.

3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Clean and polish exposed surfaces in accordance with manufacturer's written instructions.

END OF SECTION 102800

SECTION 105100 - LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Plastic-laminate-clad wood lockers.
2. Integral locker benches.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Plastic-laminate-clad wood lockers.
2. Locker benches.

B. Product Data Submittals: For each product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of locker and bench.

C. Shop Drawings: For plastic-laminate-clad wood lockers.

1. Include plans, elevations, sections, and attachment details.
2. Show details full size.
3. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
4. Show locations and sizes of cutouts and holes for items installed in lockers.
5. Show locker fillers, trim, base, sloping tops, and accessories.
6. Show locker identification system and numbering sequence.

D. Samples for Initial Selection: For each type of the following:

1. High-pressure decorative laminates.
2. Thermally fused laminate overlay panels.

E. Samples for Verification: For the following products:

1. Plastic-laminate-clad panels, not less than 8 by 10 inches, for each type, color, pattern, and surface finish.
2. Corner pieces of locker front frame joints between stiles and rail, as well as exposed end pieces, not less than 18 inches wide by 18 inches high by 6 inches deep.
3. Exposed cabinet hardware and accessories, one unit for each type and finish.

1.3 INFORMATIONAL SUBMITTALS

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

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Locker doors, complete with specified door hardware. Furnish no fewer than five doors of each type and color installed.
 - 2. Units of the following locker hardware items equal to 10 percent of amount installed for each type and finish installed, but no fewer than five units:
 - a. Coat rod.
 - b. Name Plate Holder.
 - c. Locks.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer of lockers or entity approved by locker manufacturer.
- B. Manufacturer Qualifications: Minimum 10 years practical experience, with a minimum of 15 successful projects completed during that time.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until painting and similar operations that could damage lockers have been completed in installation areas. If lockers must be stored in other-than-installation areas, store only in areas where environmental conditions are the same as those in final installation location, and comply with requirements specified in "Field Conditions" Article.
- B. Deliver master and control keys to Owner by registered mail or overnight package service.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install lockers until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 25 and 55 percent during the remainder of the construction period.
- B. Field Measurements: Where lockers are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings.
 - 1. Locate concealed framing, blocking, and reinforcements that support lockers by field measurements before being enclosed, and indicate measurements on Shop Drawings.

1.9 COORDINATION

- A. Coordinate sizes and locations of concealed wood support bases.
 - 1. Requirements are specified in Section 061053 "Miscellaneous Rough Carpentry."
- B. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that lockers can be supported and installed as indicated.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of lockers that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures.
 - b. Faulty operation of locks or hardware.
 - c. Deterioration of wood, finishes, and other materials beyond normal use.
 - 2. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE-CLAD WOOD LOCKERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Hollman, Inc; Dynasty+ Series or a comparable product by one of the following:
 - 1. Legacy Lockers.
 - 2. **Grid (Built by Grid).**

- B. Construction Style: Flush overlay.
- C. Final Assembly: Manufacturer's standard factory assembly.
- D. Locker Body: Fabricated from medium-density fiberboard (MDF)-core panels covered on both sides with thermally fused laminate overlay.
 - 1. Locker Tops, Back, Bottoms, Sides, and Shelves: 5/8-inch thick.
 - 2. Doors, End Panels, and Toe Kick Plates: 3/4-inch thick.
 - 3. Exposed Panel Edges: 1-mm-thick PVC, colored to match plastic laminate.
- E. Plastic-Laminate Colors, Patterns, and Finishes:
 - 1. As selected by Architect from plastic-laminate manufacturer's full range of solid colors, allow two colors.

2.2 MATERIALS

- A. Composite Wood: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.
 - 1. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
- B. High-Pressure Decorative Laminate: ISO 4586-3, grades as follows:
 - 1. Horizontal Surfaces: Grade HGS.
 - 2. Vertical Surfaces: Grade VGS.
- C. Anchors: Material, type, size, and finish as required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.

2.3 HARDWARE

- A. Built-in Combination Lock: Key-controlled, four-number independent dialing combination locks.
 - 1. Basis-of-Design Product: Keyless 1.
- B. Frameless Hinges (European Type): Fully concealed, nickel-plated steel, with not less than 110 degrees of opening, with limited lifetime warranty.
 - 1. Provide two hinges for doors 35 inches high and under.
 - 2. Provide three hinges for doors from 36 inches to 59 inches high.
 - 3. Provide four hinges for doors 60 inches high and over.
- C. Recessed Pulls: Back mounted; 5 inches long.

- D. Coat Rods: 1-inch-diameter steel; chrome finished.
 - 1. Provide coat rod for each compartment of double-tier lockers.
- E. Exposed Hardware Finish:
 - 1. Polished chrome unless otherwise indicated.
 - 2. Unless otherwise indicated, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 - a. Bright Chromium Plated: BHMA 625 for brass or bronze base; BHMA 651 for steel base.

2.4 ACCESSORIES

- A. Security Lock Boxes: Minimum 6 inches wide by 6 inches high by depth of locker; with piano hinge and built-in combination lock.
- B. Name Identification Plates and Plate Holders: 2-inch-high by 12-inch-wide, etched, embossed, or stamped, stainless steel plates with black letters at least 1/2 inch high. Identify lockers as indicated on Drawings.
- C. LED Lights:
 - 1. Standard warm white lighting.
- D. USB Power:
 - 1. Single power supply per locker unit, with chrome face plate.

2.5 LOCKER BENCHES

- A. Integral Locker Benches: Bench top supported by locker front and continuous base, as follows:
 - 1. Supports: MDF panel in finish and thickness matching locker, full width of each individual locker.
 - 2. Bench Top: Manufacturer's standard core material with integral cushioned vinyl upholstered seat.

2.6 FABRICATION

- A. Fabricate each locker with shelves, an individual door and frame, an individual top, a bottom, and a back, and with common intermediate uprights separating compartments.
 - 1. Fabricate lockers to dimensions, profiles, and details indicated.
 - 2. Ease edges of corners of solid-wood members to 1/16-inch radius.

- B. Fabricate lockers square, rigid, without warp, and with finished faces flat and free of dents, scratches, and chips. Accurately factory machine components for attachments. Make joints tight and true.
 - 1. Fabricate lockers using manufacturer's standard construction, with joints made with dowels, dados, or rabbets. Dado side panels to receive shelving except
- C. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
 - 1. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that the parts fit as intended, and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.
 - 2. Use only manufacturer's nuts, bolts, screws, and other devices for assembly.
- D. Shop cut openings, to maximum extent possible, to receive hardware, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
- E. Attach PVC edging to panels by thermally fusing edging to panels after panel fabrication.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and floors or support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify that furring is attached to concrete and masonry walls that are to receive lockers.
- C. Verify electrical rough-in is provided for lighting and power supply.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Condition lockers to average prevailing humidity conditions in installation areas before installation.
- B. Before installing lockers, examine factory-fabricated work for completeness and complete work as required, including removal of packing.

3.3 INSTALLATION

- A. Install lockers level, plumb, and true; use concealed shims.
- B. Connect groups of lockers together with manufacturer's standard fasteners, through predrilled holes, with no exposed fasteners on face frames. Fit lockers accurately together to form flush, tight, hairline joints.
- C. Install lockers without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings, providing unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 1. Installation Tolerance: No more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line. Shim as required with concealed shims.
- D. Locker Anchorage:
 - 1. Fasten lockers through wood locker base, at ends, and not more than 36 inches o.c. per manufacturer's written instructions.
 - 2. Fasten lockers through back, near top and bottom, at ends per manufacturer's written instructions.
- E. Scribe and cut corner and filler panels to fit adjoining work using fasteners concealed where practical. Repair damaged finish at cuts.
- F. Install name identification plates and holders after lockers are in place.
 - 1. Attach name identification plate holder above each locker assembly, centered over assembly, with at least two screws, with finish matching the name identification plate holder.
 - 2. Insert name identification plate into matching nameplate holder on each door.
- G. Install electrical power supply and LED lighting per manufacturer's written instructions.

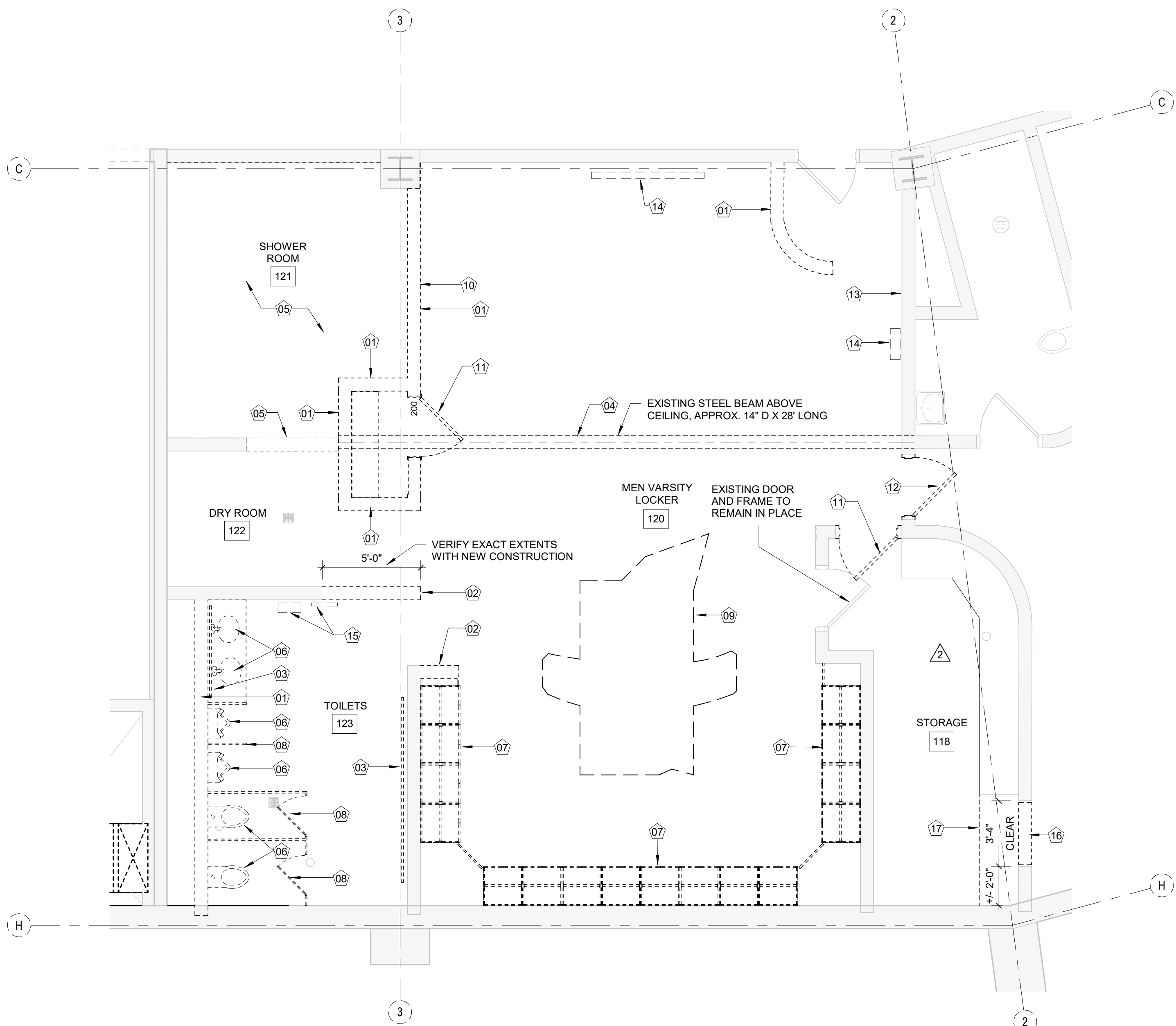
3.4 ADJUSTING

- A. Clean, lubricate, and adjust hardware. Adjust doors to operate easily without binding. Verify that integral locking devices operate properly.

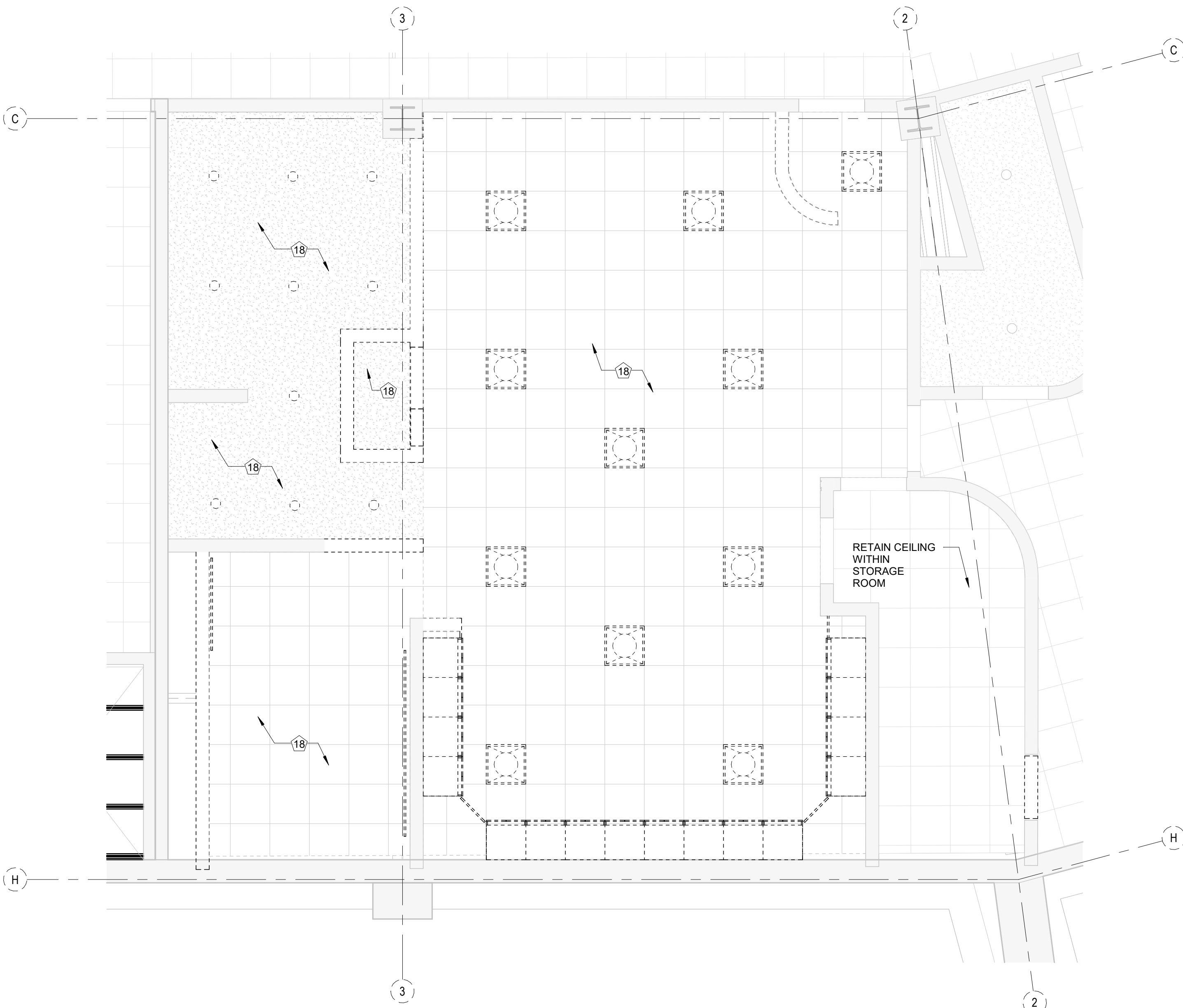
3.5 PROTECTION

- A. Protect lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.
- B. Touch up marred finishes, or replace lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

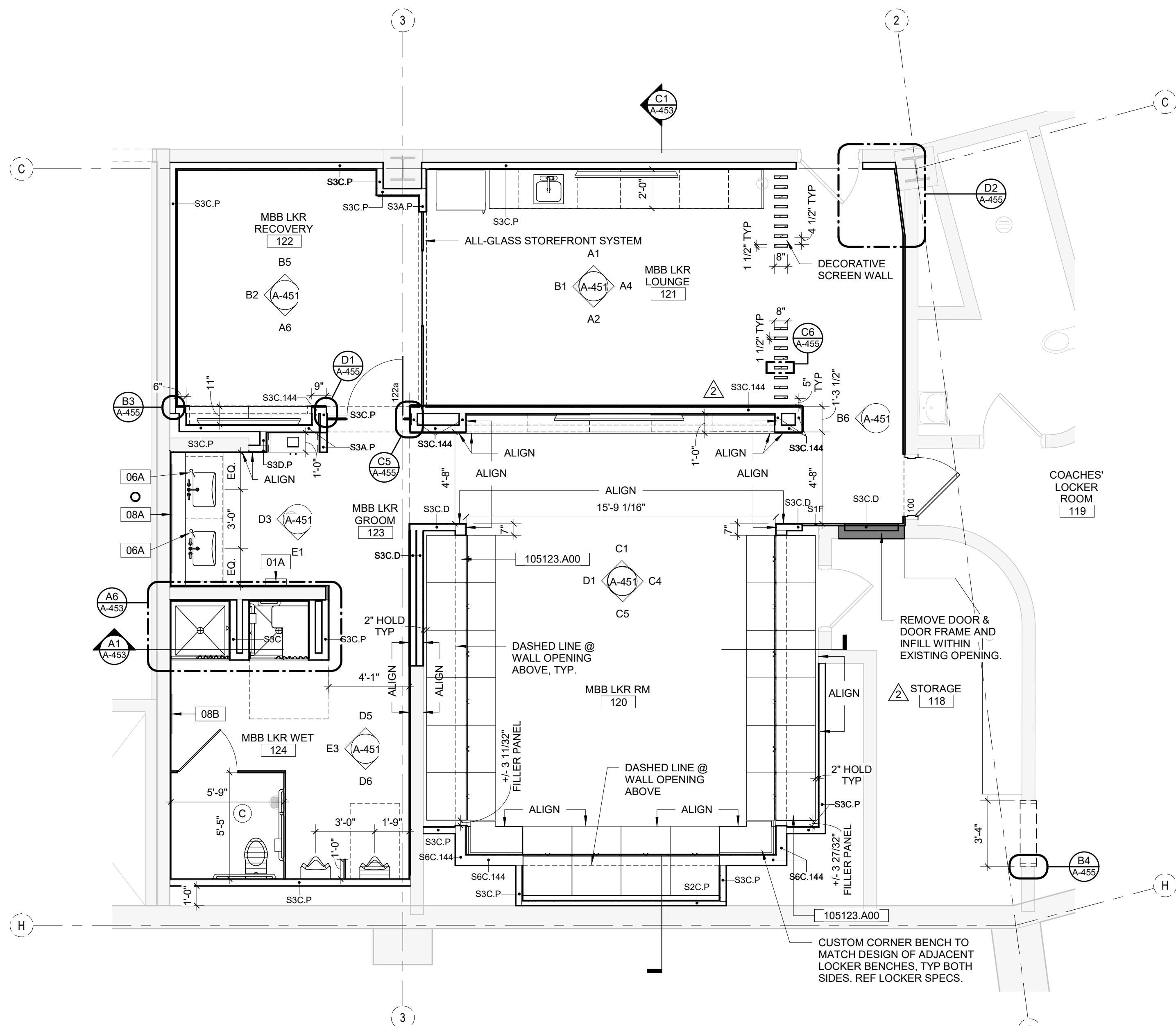
END OF SECTION 105123



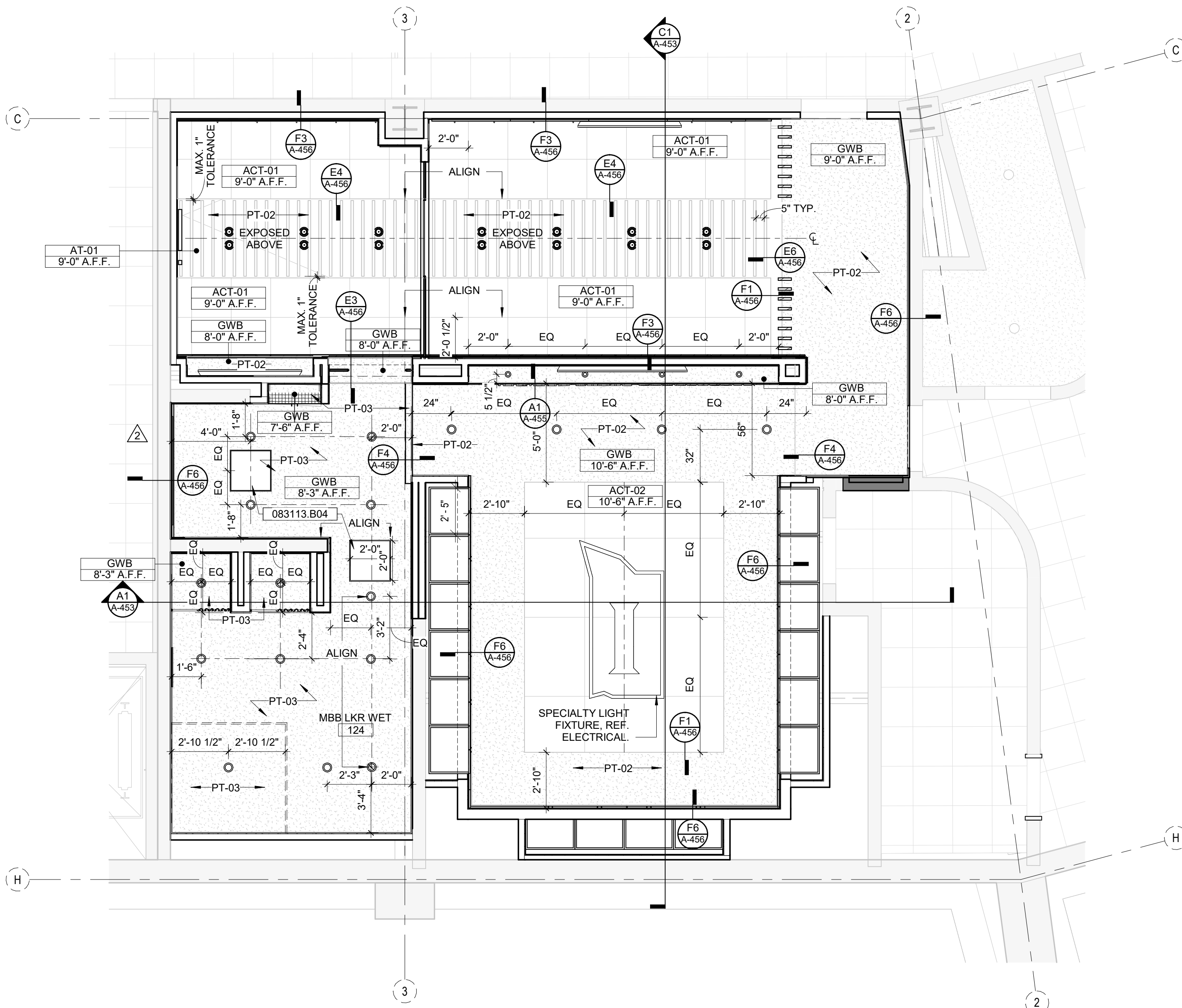
DEMOLITION - ENLARGED FLOOR PLAN - MBB LOCKER RM
1/4" = 1'-0"



DEMOLITION - ENLARGED RCP - MBB LOCKER RM
1/4" = 1'-0"



NEW CONST - ENLARGED FLOOR PLAN - MBB LOCKER RM
1/4" = 1'-0"



NEW CONST - ENLARGED RCP - MBB LOCKER RM
1/4" = 1'-0"

DEMO KEYNOTES - LOCKER ROOM 2

- DEMOLISH WALL IN ITS ENTIRETY
- SAWCUT AND SELECTIVELY DEMOLISH WALL. COORDINATE PRECISE EXTENTS WITH NEW CONSTRUCTION
- REMOVE AND SALVAGE VANITY MIRROR
- UNINSTALL AND REMOVE STEEL BEAM FROM ABOVE CEILING
- CUT AND REMOVE FLOOR SLAB AT EXISTING SHOWER ROOM
- UNINSTALL AND REMOVE PLUMBING FIXTURE (TOILET, URINAL, SINK, ETC.) AND ASSOCIATED COMPONENTS
- REMOVE AND SALVAGE EXISTING ATHLETIC LOCKER AND ADJOINING PANELS AND COMPONENTS
- DEMOLISH TOILET PARTITION, DOOR, AND ASSOCIATED COMPONENTS
- REMOVE CARPET LOGO AND SALVAGE FOR REINSTALLATION
- REMOVE EXISTING ISU SYCAMORES GRAPHIC. SALVAGE FOR REINSTALLATION
- REMOVE DOOR PANEL AND ASSOCIATED HARDWARE
- REMOVE DOOR PANEL AND ASSOCIATED HARDWARE. DOOR FRAME TO REMAIN AND RECEIVE SALVAGED DOOR PANEL FROM MBB LOCKER ROOM. REFERENCE ADD'L DEMO DRAWINGS
- REMOVE WHITEBOARD AND RETURN TO OWNER
- REMOVE ELECTRONIC EQUIPMENT (GAME CLOCK, TV MONITOR, ETC.) AND SALVAGE FOR REINSTALLATION
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- MODIFY AND EXISTING SHELVING TO ACCOMMODATE NEW WALL OPENING
- DEMO CEILING IN ITS ENTIRETY. SALVAGE TILES THAT ARE IN GOOD CONDITION AND RETURN TO OWNER. SALVAGE ALL EXISTING LIGHT FIXTURES AND CEILING DEVICES FOR REINSTALLATION. PATCH AND REPAIR WALLS AS NECESSARY

GENERAL CEILING PLAN NOTES

- THESE GENERAL NOTES APPLY TO SERIES A-400 REFLECTED CEILING DRAWINGS.
- CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE
- LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN NOT LESS THAN 1/2 TILE WIDTH, UNLESS OTHERWISE INDICATED.
- CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
- PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES UNLESS OTHERWISE INDICATED. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-01 UNLESS NOTED OTHERWISE.
- PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
- CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.
- REFER TO GENERAL INFORMATION DRAWINGS FOR MATERIAL SYMBOL KEY.
- REFER TO FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.
- REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
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- REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES.
- CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW PRIOR TO WORK COORDINATION DRAWINGS FOR ALL NEW CEILINGS SHOWING CEILING TYPE WITH LAYOUT GRIDS AND JOINTS AND ALL CEILING MOUNTED ELEMENTS INCLUDING, BUT NOT LIMITED TO LIGHTS, DIFFUSERS, SPRINKLER HEADS, FIRE ALARM DEVICES, OCCUPANCY SENSORS, EXIT SIGNS, AND ACCESS PANELS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS ASSOCIATED WITH RELOCATING CEILING MOUNTED ELEMENTS INSTALLED WITHOUT ACCEPTED COORDINATION DRAWINGS THAT ARE DEEMED INAPPROPRIATELY LOCATED BY ARCHITECT OR OWNER.

Hulman Center Interior Upgrades Locker Room Renovations

200 N 8th Street
Terre Haute, IN 47809

Owner

Indiana State University
200 N 7th Street
Terre Haute, IN 47809
812-237-6311

Architect

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Mechanical / Electrical Engineer

RE Dimond & Associates

732 N Capital Ave
Indianapolis, IN 46204
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SEAL | DATE 6/16/26



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	5/15/26
2	ADDENDUM 01	6/01/26
3	ADDENDUM 03	6/16/26



PROJECT NO. 26029.00

SHEET TITLE

ENLARGED PLAN
AND RCP - MBB
LOCKER ROOM

SHEET NUMBER

A-401

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Interior Upgrades
Locker Room
Renovations

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DEMOLITION - ENLARGED FLOOR PLAN - WBB LOCKER RM

1/4" = 1'-0"

NEW CONST - ENLARGED FLOOR PLAN - WBB LOCKER RM

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NEW CONST. - ENLARGED RCP - WBB LOCKER RM

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NEW CONST. - ENLARGED RCP - WBB LOCKER RM

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FINISH SCHEDULE

				FINISH DESCRIPTION						
LOCATION	FINISH TYPE	TAG	MANUFACTURER	STYLE	SIZE	PRODUCT NUMBER	COLOR	INSTALL NOTES	COMMENTS	
WALL	APPLIED FILM	AF-01	SOLYX	MISTY FROST GRADIENT	REFER TO DRAWINGS	SKJ-0596	CUSTOM INDIANA STATE UNIVERSITY CUTOUT WITHIN FILM. COORDINATE WITH ARCHITECT TO OBTAIN LOGO SIZE AND REPEAT.	FILM TO BE APPLIED ON RECOVERY ROOM 122 SIDE OF DOOR.		
WALL	APPLIED FILM	AF-02	SOLYX	DUAL MISTY FROST GRADIENT	REFER TO DRAWINGS	SKJ-0598	CUSTOM INDIANA STATE UNIVERSITY CUTOUT WITHIN FILM. COORDINATE WITH ARCHITECT TO OBTAIN LOGO SIZE AND REPEAT.	FILM TO BE APPLIED ON RECOVERY ROOM 122 SIDE OF DOOR.		
WALL	ACOUSTIC TREATMENT	AT-02	FILZFELT	AKUSTIKA	CUSTOM PANEL SIZES, REFER TO ELEVATIONS.	300	ANTHRAZIT			
WALL	PORCELAIN TILE	CT-02	DALTILE	ARTEFINO VINTAGE GLOSSY	1"x6", 5/16" THICKNESS	AR14	AZURITE			
WALL	GROUT	GT-02	TEC	EPOXY, ACCUCOLOR EFX	REFER TO DRAWINGS	-	CUSTOM COLOR			
WALL	PAINT	PT-01	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 7005	PURE WHITE			
WALL	PAINT	PT-02	BENJAMIN MOORE	PER SPECIFICATION	N/A	2124-10	WROUGHT IRON			
WALL	PAINT	PT-03	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 9146	FADED FLAXFLOWER			
WALL	TEXTILE-SHOWER CURTAIN	TEX-01	INPRO	MALT	REFER TO DRAWINGS	166229	PEBBLE			
BASE	WALL BASE-RUBBER	RB-01	ROPPE	STANDARD COVE	4"H	20	CHARCOAL			
BASE	WALL BASE-SOLID WOOD	WDW-01	MILLWORKER	REFERENCE DETAIL	4"H	N/A	CUSTOM STAINED TO MATCH WDW-01 WOOD VENEER			
FLOOR	CARPET TILE	CPT-01	SHAW	ACTIVE COLLECTION, TRACK TILE ST204	12"x48"	04327	MEDITATE	INSTALL IN 1/3 RUNNING BOND PATTERN, REFERENCE FINISH PLANS AND FINISH LEGEND FOR EXACT LAYOUT		
FLOOR	CARPET TILE	CPT-02	SHAW	ACTIVE COLLECTION, DASH TILE ST203	12"x48"	04327	MEDITATE	INSTALL IN 1/3 RUNNING BOND PATTERN, REFERENCE FINISH PLANS AND FINISH LEGEND FOR EXACT LAYOUT		
FLOOR	CARPET TILE	CPT-03	SHAW	ACTIVE COLLECTION, TURN TILE ST205	12"x48"	04327	MEDITATE	INSTALL IN 1/3 RUNNING BOND PATTERN, REFERENCE FINISH PLANS AND FINISH LEGEND FOR EXACT LAYOUT		
FLOOR	PORCELAIN TILE	CT-01	DALTILE	KEYSTONES, MATTE	2"x2" MOSAIC	D169	WATERFALL			
FLOOR	GROUT	GT-01	TEC	EPOXY, ACCUCOLOR EFX	REFER TO DRAWINGS	-	CUSTOM COLOR			
FLOOR	LUXURY VINYL TILE	RF-01	NORA	NORAMENT ARAGO	36.53" X 19.76" TILE, 3.5MM THICKNESS	5174	HARMONY			
CEILING	ACOUSTICAL CEILING TILE	ACT-01	ARMSTRONG	OPTIMA, 15/16" GRID, SQUARE TEGULAR	24"x24"x1"	3354	STANDARD WHITE			
CEILING	ACOUSTICAL CEILING TILE	ACT-02	ARMSTRONG	LYRA, 15/16" GRID, SQUARE TEGULAR	48"x48"x1"	6355PB	BLACK			
CEILING	ACOUSTICAL TREATMENT	AT-01	FRASCH	BAFL PLUS	1.5" WIDE X CUSTOM 6"H	10	TRUE BLACK			
MILLWORK/ CASEWORK	PLASTIC LAMINATE	PL-01	FORMICA	COLOR CORE2; MATTE FINISH	REFER TO DRAWINGS	7223	NEW WHITE			
MILLWORK/ CASEWORK	PLASTIC LAMINATE	PL-02	NEVAMAR	HIGH PRESSURE LAMINATE, MATTE FINISH	REFER TO DRAWINGS	S-6054	WROUGHT IRON			
MILLWORK/ CASEWORK	SOLID SURFACE	SSM-01	CORIAN	-	REFER TO DRAWINGS	SPG	SPARKLING GRANITA			
MILLWORK/ CASEWORK	WOOD VENEER	WDV-01	MILLWORKER	RIFT CUT WHITE OAK	REFER TO DRAWINGS	N/A	CUSTOM STAIN TO MATCH ARCHITECT'S SAMPLE			

TOILET ROOM ACCESSORIES LOCKER ROOM				
Type Mark	Type	Description	Manufacturer	Model
01A	01A SURFACE MOUNTED PAPER TOWEL DISPENSER/WASTE RECEPTACLE	TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED	BOBRICK	B-43699
03	03 SANITARY NAPKIN DISPOSAL	CONTURA SERIES: SURFACE MOUNTED SS	BOBRICK	B-270
04A	04A TOILET TISSUE HOLDER	CONTURA SERIES: SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-4288
05A	05A Grab Bar, 42"	GRAB BAR, 42"	BOBRICK	B-5606 x 42
05D	05D Grab Bar, 18"	GRAB BAR, 18"	BOBRICK	B-5606 x 18
06A	06A SOAP DISPENSER	SOAP DISPENSER- DECK MOUNTED	KOHLER	K-35761-BL
08A	08A MIRROR, CUSTOM (66" x 48")	MIRROR, ABOVE COUNTERTOP	BOBRICK	
08A	08A MIRROR, CUSTOM (72" x 48")	MIRROR, ABOVE COUNTERTOP	BOBRICK	
08B	08B MIRROR, FULL HEIGHT	MIRROR, FULL HEIGHT	BOBRICK	B-290 2472

EQUIPMENT SCHEDULE - LOCKER ROOM				
Type Mark	Description	Manufacturer	Model	Comments
EQ-01	FULL HEIGHT REFRIGERATOR	THERMADOR	T30IR905SP	CFCI
EQ-02	MICROWAVE	IGE	GCST16S1WBB	CFCI

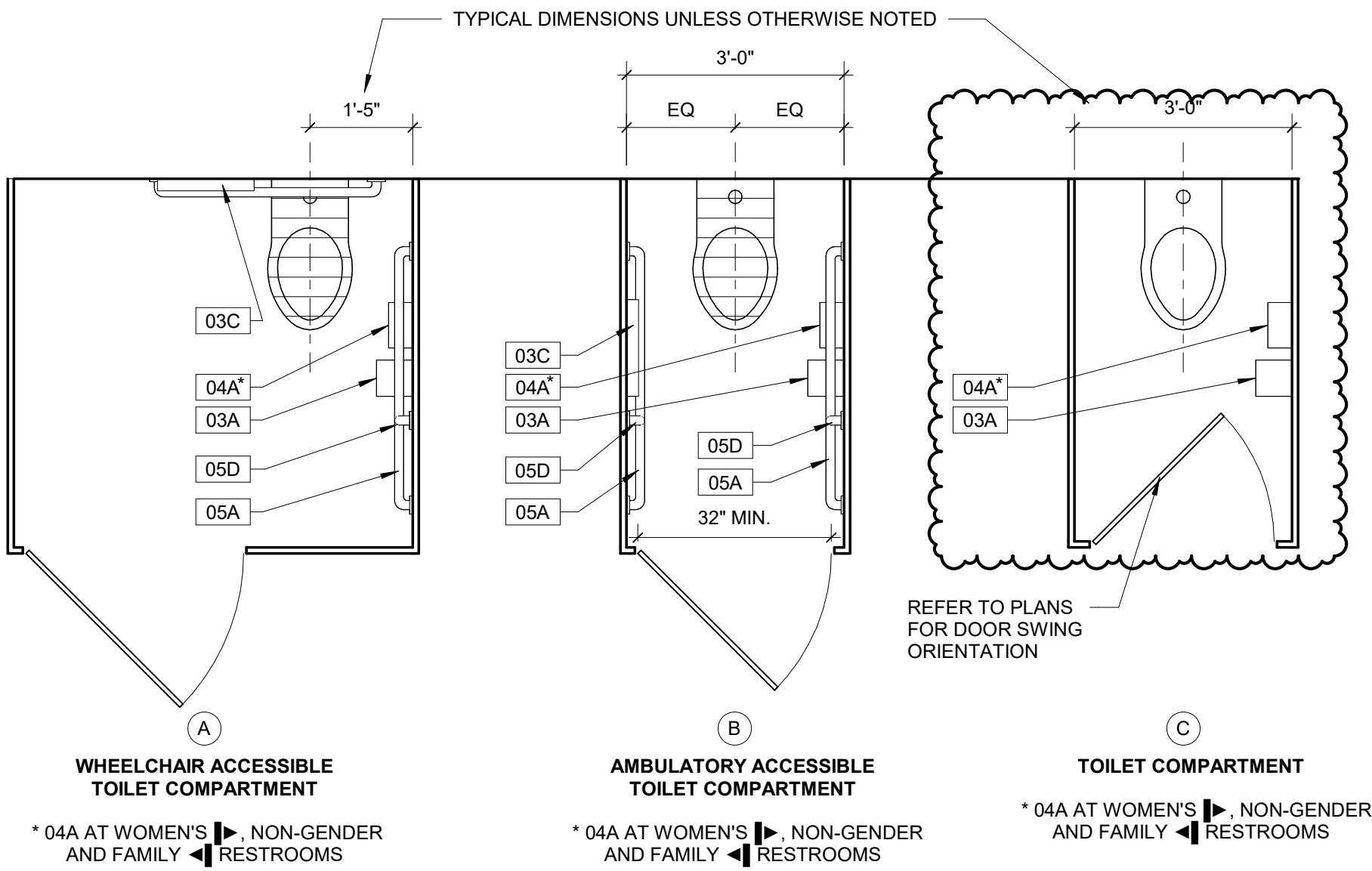
Level	DOOR NUMBER	PAIR	DOOR			FRAME			FIRE RATING	NOTES
			W	H	T	MTRL.	ELEV.	GLASS	HDWR. SET	
EVENT LEVEL	122a	No	3'-0"	8'-0"	1 1/2"	GLASS	FG1	REF. SPECS	REFERENCE SPECS	REFERENCE SECTION 084126.23
EVENT LEVEL	166		3'-0"	7'-0"	1 3/4"	H.M.	F	-	-	FIELD VERIFY EXISTING DOOR FRAME SIZE PRIOR TO ORDER & INSTALL.
EVENT LEVEL	170		3'-0"	7'-0"	1 3/4"	H.M.	F	-	-	

DOOR PANEL LEGEND LOCKER ROOM

DOOR FRAME LEGEND

STANDARD TOILET COMPARTMENT TYPES - TYPICAL ACCESSORIES

REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET ROOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.



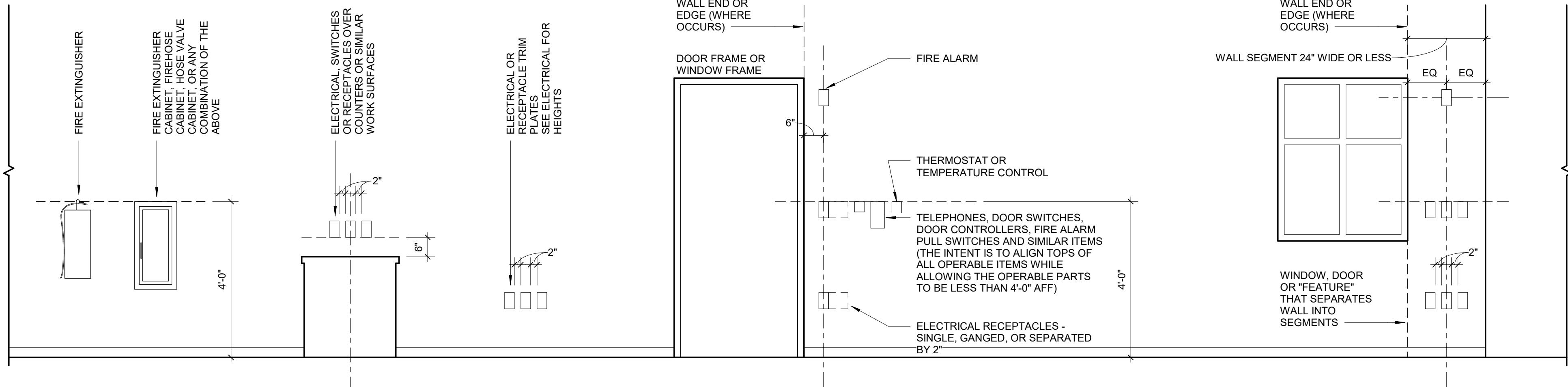
* 04A AT WOMEN'S, NON-GENDER AND FAMILY RESTROOMS

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STANDARD-DEVICE MOUNTING GUIDELINES

- NOTES:
- USE THIS DETAIL TO LOCATE DEVICES THAT ARE INDICATED ON THE DRAWINGS BUT NOT LOCATED BY DIMENSION, OR TO LOCATE REQUIRED DEVICES THAT ARE NOT INDICATED ON THE DRAWINGS.
 - ALIGN MULTIPLE DEVICES HORIZONTALLY AND/OR VERTICALLY AS DETAILED.
 - ITEMS OTHER THAN ELECTRICAL RECEPTACLES SHALL BE MOUNTED NEAR DOORWAYS OR INTERSECTING WALLS AS DETAILED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF ART OR FURNITURE, EXCEPT THAT WHERE THE WALL SEGMENT IS LESS THAN 24" WIDE, CENTER THE DEVICES AS DETAILED.



INTERIOR PARTITION TYPES

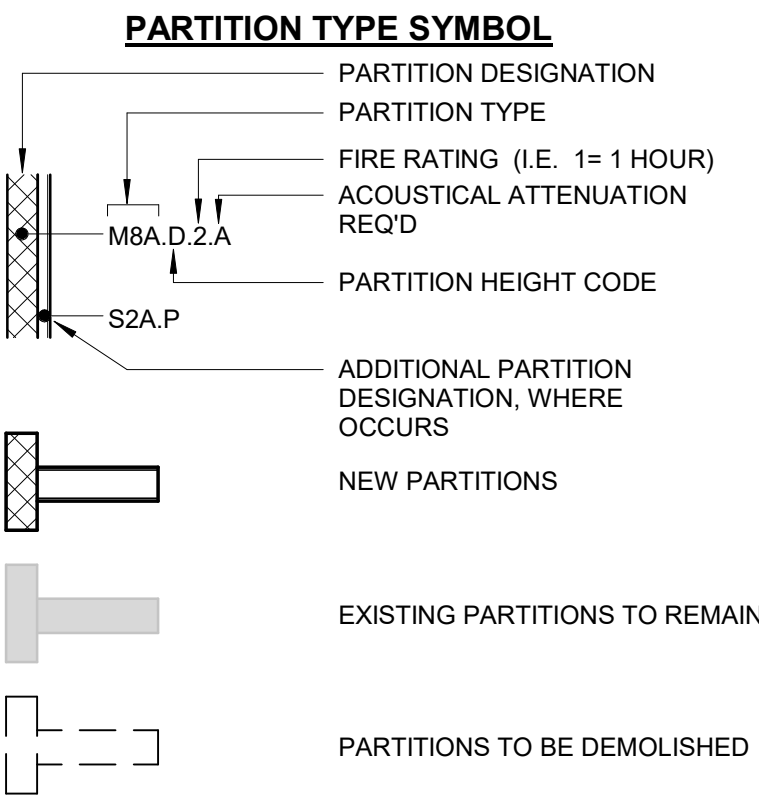
* FIRE RATING AND ACOUSTICAL ATTENUATION WHEN REQUIRED BY PARTITION SYMBOL

WS	
S2C	2 1/2" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE * ACOUSTIC ATTEN. COMPONENTS STC-32
S3A	3 5/8" METAL STUDS WITH (1) LAYER 5/8" TYPE X GYPSUM WALL BOARD EACH SIDE * 1 HR RATED, UL-419 * ACOUSTIC ATTEN. COMPONENTS STC-
S3C	3 5/8" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE
S6A	6" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * ACOUSTIC ATTEN. COMPONENTS STC-44
S6C	6" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE

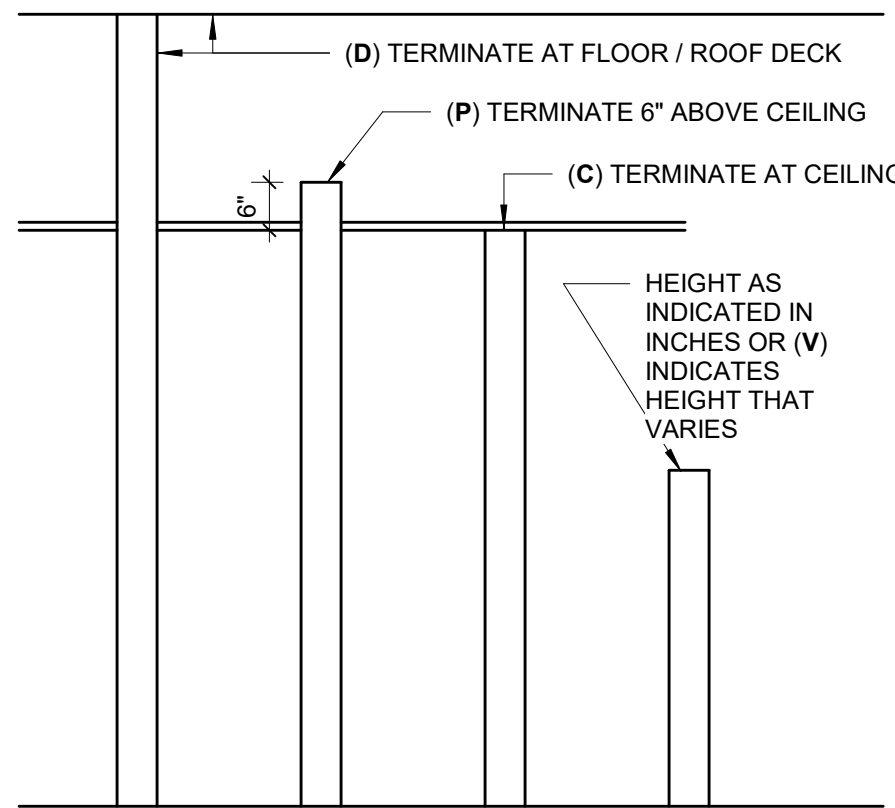
INTERIOR PARTITION NOTES

- A ALL WALLS ARE TYPE S3C-P UNLESS NOTED OTHERWISE.
B PARTITION SYMBOLS APPEAR ON LARGEST SCALE FLOOR PLAN PROVIDED FOR AREA.
C REFER TO FINISH AND CEILING PLANS FOR WALL FINISH, BASE, AND CEILING INFORMATION.
E PROVIDE MOISTURE RESISTANT GWB ON WALLS WITH OPERABLE PLUMBING FIXTURES AND ON ALL WALL SURFACES WITHIN 4' OF A DRINKING FOUNTAIN OR WATER COOLER.
F PROVIDE LATERAL BRACING FOR PARTITIONS WHICH EXTEND ABOVE CEILING.
G PROVIDE FIRE RESISTIVE RATED GYPSUM WALL BOARD AT ALL RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS.
H PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL RATING AT ALL PENETRATIONS AND AT HEAD / FLOOR INTERSECTIONS WITH RATED ASSEMBLIES.
J PROVIDE ACOUSTICAL SEALANT AT WALL SILL, HEAD, PENETRATIONS AND ADDITIONAL SPECIFIED SOUND ATTENUATION COMPONENTS AT SOUND RATED WALLS.
K PROVIDE SPECIFIED TILE BACKER BOARD AT ALL WALLS SCHEDULED TO HAVE CERAMIC TILE.
L ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS SPECIFIED.
M STUD SPACING 16" O.C. MAXIMUM UNLESS NOTED OTHERWISE.
REV. 01/23/2018

INTERIOR PARTITION LEGEND



INTERIOR PARTITION HEIGHT CODES



GENERAL DOOR SCHEDULE NOTES

- A THESE GENERAL NOTES APPLY TO SHEET A-002.1 DOOR SCHEDULE DRAWINGS.
B UNDERCUT DOORS AS REQUIRED BY FINAL FLOOR FINISH.
C PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
D PROVIDE SEALANT BETWEEN INTERIOR AND EXTERIOR STOREFRONT FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
E GROUT FULL NEW HOLLOW METAL DOORFRAMES IN MASONRY WALL CONSTRUCTION.
F SPOT GROUT NEW HOLLOW METAL DOORFRAMES IN GYPSUM BOARD WALL CONSTRUCTION.
Rev. 06/01/2026

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RATIO

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PROJECT NO. 26029.00

INTERIOR PARTITION TYPES AND FINISH SCHEDULE

SHEET NUMBER

A-002.1