

BIDDING AND CONTRACT DOCUMENTS
Section 00 21 15 – Addendum No. 1

DATE: May 08, 2024

Hurst-Rosche, Inc.
200 N. Market Street
Marion, Illinois 62959

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. 1 TO THE BIDDING DOCUMENTS FOR

Athletic Training Facility
Wabash Valley College
Illinois Eastern Community Colleges
2200 College Drive
Mt. Carmel, Wabash County, Illinois 62863
HR: 395-3272

This addendum forms a part of the bidding and contract documents and modifies the bidding documents dated April 23, 2024. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

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SPECIFICATIONS

1. Updated Section **00 01 10** (Table of Contents)
2. Add Section **00 21 14** (Instructions to Bidders – AIA).
3. Add Section **06 10 53** (Misc. Rough Carpentry).
4. Add Section **07 84 00** (Firestopping).
5. Add Section **08 11 13** (Hollow Metal Doors and Frames).
6. Section **08 71 00** (Door Hardware)
 - a. Revise Section 2.08 CYLINDRICAL LOCKS – GRADE 1
 - i. Subsection A. change “Acceptable Manufacturers and Products” to “Acceptable Manufacturers with equivalent products.
 - ii. Subsection A -subparagraphs b. and c. delete Sargent 11-Line and Corbin-Russwin Cl3100. Replace with Von Duprin and Hagar.
 - b. Revise Section 2.08 CYLINDERS
 - i. Subsection A. change “Acceptable Manufacturers and Products” to “Acceptable Manufacturers with equivalent products.
 - ii. Subsection A. subparagraph a. delete “Coordinate with owner on final Cylinder to be installed.” Replace with Schlage Everest 29 Primus XP
 - iii. Subsection A – revise subparagraphs b., c., d., and e. to reflect subparagraph b. Von Duprin and subparagraph c. Hagar.
 - c. Revise Section 2.11 KEYING
 - i. Revise subsection 2) under “Replaceable Construction Cores” to say “Coordinate with Owner or Owner’s Representative on replacement of construction cores with permanent cores.

DRAWINGS

7. G-002: Updated Table of Contents with new sheets C 101-A Site Plan & A-503 COLUMN DETAILS
8. Added sheet C-101 SITE PLAN: Provides clarifying details of existing drawings.
9. A-101: Added callouts for column details. Added gridlines A.1 and A.2. Made minor adjustments to walls in Rooms 103,104, 105, 107 related to Column Detail drawings.
10. Added new sheet A-503 consisting of Column Detail Drawings.

This addendum **DOES NOT** alter the previously published bid due date of **June 04, 2024, 02:00 pm, at Illinois Eastern Community Colleges District 529 Office, located at 233 East Chestnut Street, Olney, IL 62450.**

Respectfully submitted,

HURST-ROSCHÉ, INC.

Alexander Pape
Project Manager

cc: All known plan-holders (including plan houses and contractors), Hurst-Rosche web site, Illinois Eastern Community Colleges, Project File

RECEIVED BY:

Authorized Representative

Company Name

Date

DOCUMENT 00 01 10

ATHLETIC TRAINING FACILITY
 WABASH VALLEY COLLEGE
 ILLINOIS EASTERN COMMUNITY COLLEGES
 2200 COLLEGE DRIVE
 MT. CARMEL, WABASH CO., ILLINOIS
 HR # 395-3272

Section Title Pages

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END OF SECTION

INSTRUCTIONS TO BIDDERS - AIA

1.1 SUMMARY

- A. Document Includes:
 - 1. Instructions to Bidders.
 - 2. Site examination.
 - 3. Prebid conference.

- B. Related Documents:
 - 1. Document 00 11 16 - Invitation To Bid.
 - 2. Document 00 41 13 - Bid Form - Stipulated Price.
 - 3. Document 00 43 00 - Bid Form Supplements: Appendices A and B.
 - 4. Document 00 72 14 - General Conditions – AIA Stipulated Sum.
 - 5. Document 00 73 13 - Supplementary Conditions – AIA.

1.2 INSTRUCTIONS TO BIDDERS

- A. These Instructions to Bidders amend or supplement AIA Document A701-1997 - Instructions to Bidders and other provisions of Bidding Documents and Contract Documents.

- B. To be considered all bids must in accordance with these Instructions to Bidders.

- C. Those interested parties may obtain sets of Drawings and Specifications from the Architects upon non-refundable deposit of \$100.00 (\$150.00 if mailed) per set.

1.3 SITE EXAMINATION

- A. Bidders shall carefully examine documents and construction site to obtain first-hand knowledge of existing conditions. Contractors will not be given extra payments for conditions which can be determined by examining site and these documents.

- B. If a site visit, other than the scheduled pre-bid meeting, is desired prior to submitting a bid, Contact Ernie Majors, WVC O&M Team Lead, to determine an acceptable date and time to visit the site. Mr. Majors can be contact at the following site:
 - 1. Telephone: (618) 240-3525
 - 2. Email: majorse@iecc.edu

1.4 THE SCHEDULE FOR BIDDING THIS PROJECT IS AS FOLLOWS

- A. **Plans Available:** April 23, 2024

- B. **Pre-Bid Meeting:** May 15, 2024
10:00 AM
Wabash valley College
Main Hall Room 101
2200 College Drive. Mount Carmel, IL
Wabash Valley College



- C. **Latest Time to Submit Request for Interpretation:** May 23, 2024 by 4:30 p.m.
- D. **Latest Time to Issue an Addendum:** May 29, 2024 by 4:30 PM
- E. **Bid Opening** June 04, 2024
02:00 PM
I.E.C.C. District 529 Office
233 East Chestnut Street, Olney, IL,62450
- F. All requests for interpretations shall be in writing via mail or e-mail addressed to the Architect/Engineer and must be received seven (7) calendar days prior to date fixed for opening of bids in order to be given consideration. All questions must be submitted on the "Request for Interpretation Pre-Bid Question and Comment Form" included at the end of this section, and questions not submitted in accordance with this form and specified time frame will not be accepted. Any and all interpretations and supplemental instructions will be made by addendum to the Drawings and Specifications and forwarded to all bidders either by certified mail or fax transmittal. All responses by the Architect/Engineer must be in writing to be binding. Any response general in nature or affecting these Instructions to Bidders shall be sent via addendum as previously described. All bidders are required to include the signature page of the addendum signed with the completed bid package. Failure of any bidder to receive any such addendum or interpretations shall not relieve such bidder from an obligation under the bid as submitted. All addenda so issued shall become part of the Contract Documents. No addendum will be issued later than the date and time identified in Article 1.4 of this section except one withdrawing the request for Bids or one postponing date for receiving Bids. Oral interpretations, changes or corrections will not be binding and Bidders shall not rely upon such interpretations, changes and corrections. Each Bidder shall ascertain prior to submitting Bid that all addenda issued have been received and shall acknowledge receipt in Bid.

Questions shall be directed to:
E-mail: apape@hurst-rosche.com

- G. Materials, products and equipment described in Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Each such request shall include name of material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or other work that incorporation of the substitute would require shall be included. The burden of proof of the merit of proposed substitute is upon the proposer. Architect's decision of approval or disapproval of a proposed substitution shall be final. If the Architect approves any proposed substitution prior to receipt of Bids, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner. No substitutions will be considered after the contract award unless specifically provided in the Contract Documents.
- H. Bids shall be made on unaltered Bid Forms furnished by the Architect. Fill in all blank spaces and submit two (2) copies. Bids shall be signed with name typed below signature. Where bidder is a corporation, bids must be signed with legal name of corporation

followed by name of state of incorporation and legal signature of an officer authorized to bind the corporation to a contract.

- I. Each bidder submitting a bid shall submit on form provided a list of any subcontractors and major suppliers he proposes to use with the bid. Failure to do so could disqualify the bid.
- J. Each bidder shall designate on the attached bid form one person who shall serve as the bidder's contact person for all matters pertaining to the bid. In absence of such designation, the person who signs the bid shall be deemed the bidder contact.
- K. Each bid shall be accompanied by bid bond made payable to the Owner, in the amount of five percent (10%) of the bid sum. Security shall be either certified check, cashier's check, bank money order or bid bond issued by surety licensed to conduct business in the State of Illinois. Successful bidder's security will be retained until he has signed the contract and furnished required payment and performance bonds. Owner reserves the right to retain security of the next two (2) lowest bidders until the lowest bidder enters into contract or until thirty (30) days after bid opening, whichever is shorter. All other bid security will be returned as soon as practicable. If any bidder refuses to enter into a contract, Owner will retain bid security as liquidated damages, but not as a penalty.
- L. All costs associated with the preparation and submission of a bid are the sole responsibility of the bidder. These costs shall not be chargeable to the Owner by any successful or unsuccessful bidder. All bids become the property of the Owner and shall not be returned except in the case of a late submission.
- M. Simultaneously, with delivery of the executed contract, the successful bidder, at its own expense, shall furnish surety in the form of a performance bond and a labor and material payment bond in the amount of one hundred percent (100%) of the contract amount. Surety for such bonds shall be a company duly authorized and licensed in the State of Illinois and acceptable to the Owner. The Attorney-In-Fact who signs bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.
- N. All copies of the bid, bid security and any other documents required to be submitted with bid shall be enclosed in a sealed opaque envelope. Envelope shall be addressed to **Illinois Eastern Community Colleges, 233 East Chestnut, Olney, Illinois 62450**, and shall be identified with project name, bidder's name and address. Mailed bid envelopes shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof. Oral, telephonic or telegraphic Bids are invalid and will not receive consideration. Bids shall be deposited at the location designated in the Invitation to Bid prior to time and date designated for opening, or any extension thereof made by addendum. **Bidder shall assume full responsibility for timely delivery at location designated for receipt of Bids.** Bids received after time and date for receipt of bids will be returned unopened.
- O. A bid may not be modified, withdrawn, or canceled during the sixty (60) days immediately following bid opening, and each bidder so agrees in submitting his Bid. Any bidder may withdraw, cancel, or modify its bid, at any time prior to scheduled time for opening of bids, by letter or telegram actually received by Owner prior to bid time, or, with proper identification, by personally securing bid submitted; if by telegram, written confirmation over signature of bidder shall be mailed and postmarked on or before date and time of bid opening. Withdrawn bids may be resubmitted up to bid opening time provided that they are in full compliance with these Instructions to Bidders.

- P. Protests
1. Any bidder who submitted a bid and believes the bid was improperly rejected or that the bid selected by the Owner is not in the best interest of the Owner may submit a written notice of intent to protest the bid to the Owner within seven (7) days. The Owner shall consider all protests before execution of a contract. Each protest must specify the reasons supporting the protest. The Owner may require that additional information be provided. Failure to supply such required information shall be cause for dismissal of the protest.
 2. The Owner shall immediately investigate the allegations against the Owners actions and shall issue a written response to the protest.
 3. This provision allowing for the submission of protest shall not confer any right on any bidder but is intended solely to assist the Owner in determining the best responsible bid.
- Q. Any complaint or protest of the bidding procedure must be filed by the bidder to the Owner. Within 7 days of bid opening the bidder shall notify the Owner in writing of his intent to protest bidding. The bidder shall perfect this notice of intent within 7 days.
- R. Owner reserves right to disqualify bids and bidders, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon part of bidder, lack of responsibility as evidenced by poor workmanship and progress of past work, incomplete work which, in judgment of Owner, might hinder or prevent prompt completion of additional work if awarded, for being in arrears on existing contracts, in litigation with the Owner, or having defaulted on a previous contract.
- S. Bidder's attention is directed to the fact that all Federal and Illinois State Laws, municipal ordinances and regulations of any and all authority having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full. Successful Bidders shall be required to comply with 775 ILCS 10 concerning equal employment opportunities; comply with 30 ILCS 570 concerning the employment of citizens of the State of Illinois; comply with 820 ILCS 265 concerning substance abuse prevention on public works projects; and comply with 820 ILCS 130 concerning prevailing wages.
- T. Prevailing Wage: All Contractors and Subcontractors shall comply with the requirements of the Davis- Bacon Act, 40 U.S.C. 276, and any amendments therein and to the State of Illinois Statutes relative to the "Prevailing Wage Act" pertaining to hourly wages for public works projects. The Bidders attention shall also observe the apprentice training requirement, Illinois Procurement Code, 30 ILCS 500/30-22. All Contractors and all Subcontractors shall see that these requirements are complied with throughout the duration of the work performed under this contract. The Contractors shall file forms with the governmental agencies as required.
- U. Business Enterprise Program (BEP): Illinois Eastern Community Colleges has an aspirational goal that 20% of this project's material and/or labor will involve small, minority-owned, veteran-owned, and/or women owned businesses in the procurement process. Prime contractors that do not meet the eligibility criteria as a Business Enterprise Program are encouraged to utilize subcontractors who do qualify or to utilize material vendors that qualify. To qualify as a Business Enterprise Program entity, prime or subcontractors must be certified by the Department of Central Management Services of the State of Illinois as BEP vendors prior to contract award.

Go to (<http://www2.illinois.gov/cms/business/sell2/bep/Pages/default.aspx>) for complete requirements for BEP certification.

Bids submitted with small, minority-owned, veteran-owned, and/or women-owned (BEP) business participation; whether as primary contractor, sub-contractor, material vendor, etc.; should indicate the percentage of work associated with the BEP businesses.

- V. Any successful bidder that is a corporation organized in a state other than Illinois shall furnish to the Owner, upon request, a properly certified copy of its current Certificate of Authority to do business in the State of Illinois, such certificate is to remain on file with the Owner.
- W. Any successful bidder that is a corporation organized in the State of Illinois shall furnish at its own cost to the Owner, if requested, a Certificate of Good Standing issued by the Secretary of State, such certificate is to remain on file with the Owner.
- X. Suspension and Debarment: Illinois Eastern Community Colleges is a non-federal entity subject to 2 CFR 200.213. These regulations restrict awards, sub awards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs or activities.
- Y. Owner is exempt from payment of Illinois Department of Revenue's Use and Sales Tax on material entering permanently into structure. Therefore, retail sales tax shall not be included in the bid amount. The Owner is exempted by Section 3 of the Illinois Use Tax Act (Section 3, House Bill 1610, approved July 31, 1961. Illinois Revised Statutes 1967, Chapter 120, Section 439.3) from paying any of the taxes imposed by the Act, and sales to the Owner are exempt by Section 2 of the Illinois Retailer's Occupational Tax Act (Section 2, House Bill 1609, approved July 31, 1961, Illinois Revised Statutes 1967, Chapter 120, Section 441) from any of the taxes imposed by the Act. The Department of Revenue for the State of Illinois under Rule No. 15, issued August 9, 1961, has declared that sales of materials to construction contractors for conversion into real estate for schools, governmental bodies, agencies, and instrumentalities, are not taxable sales.
- Z. Bids will be opened as announced in the Invitation to Bid.
- AA. Owner reserves the right to reject any or all bids or any part thereof, to waive any informalities in bidding and to accept bids deemed most favorable to the Owner.
- BB. Notwithstanding any delay in preparation and execution of the formal Contract Agreement, each bidder shall be prepared, upon written notice of bid acceptance, to commence work within ten (10) days following receipt of official written Notice to Proceed, or on date stipulated in such notice.
- CC. Any work in providing or preparing to provide the services specified herein that is commenced by the successful bidder prior to execution of a written contract agreement shall be at the bidder's expense.
- DD. Accepted bidder shall assist and cooperate with the Owner in preparing the formal contract Agreement and, within fifteen (15) days following its presentation, shall execute same and return it to Owner.
- EE. Successful bidder shall provide **FULL TIME SUPERVISION ON SITE when work is being performed.**

FF. Contract Time: Time of Substantial Completion for the project shall not be later than June 18, 2025.

END OF DOCUMENT

SECTION 06 10 53

MISCELLANEOUS ROUGH CARPENTRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes blocking in wall and roof openings; wood furring and grounds; concealed wood blocking for support of lockers, casework, toilet and bath accessories; telephone, television and electrical panel back boards; and preservative treatment of wood.
- B. Related Sections:
 - 1. Section 05 40 00 – Cold- Formed Metal Framing: Cold-Formed Metal Framing to receive wood blocking.

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI A208.1 - Mat-Formed Wood Particleboard.
- B. American Wood-Preservers' Association:
 - 1. AWWPA C1 - All Timber Products - Preservative Treatment by Pressure Process.
 - 2. AWWPA C20 - Structural Lumber - Fire-Retardant Treatment by Pressure Processes.
- C. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. National Fire Protection Association:
 - 1. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
- E. The Redwood Inspection Service:
 - 1. RIS - Standard Specifications for Grades of California Redwood Lumber.
- F. Southern Pine Inspection Bureau:
 - 1. SPIB - Standard Grading Rules for Southern Pine Lumber.
- G. Underwriters Laboratories Inc.:
 - 1. UL 723 - Tests for Surface Burning Characteristics of Building Materials.
- H. U. S Department of Commerce National Institute of Standards and Technology:
 - 1. DOC PS 1 - Construction and Industrial Plywood.
 - 2. DOC PS 2 - Performance Standard for Wood-Based Structural-Use Panels.

3. DOC PS 20 - American Softwood Lumber Standard.

I. West Coast Lumber Inspection Bureau:

1. WCLIB - Standard Grading Rules for West Coast Lumber.

J. Western Wood Products Association:

1. WWPA G-5 - Western Lumber Grading Rules.

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Product Data: Submit technical data on wood preservative and fire-retardant treatment materials and application instructions.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with the following:

1. Lumber Grading Agency: Certified by DOC PS 20.

2. Wood Structural Panel Grading Agency: Certified by EWA - The Engineered Wood Association.

3. Lumber: DOC PS 20.

4. Wood Structural Panels: DOC PS 1 or DOC PS 2.

B. Surface Burning Characteristics:

1. Fire Retardant Treated Materials: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84 NFPA 255 UL 723.

C. Apply label from agency approved by authority having jurisdiction to identify each preservative treated and fire-retardant treated material.

PART 2 PRODUCTS

2.1 MATERIALS

A. Lumber Grading Rules: AP&PA. SPIB. WCLIB.

B. Miscellaneous Framing: Stress Group D, S/P/F, species, grade 19 percent maximum moisture content after treatment, pressure preservative treat.

C. Plywood: APA/EWA Rated Sheathing Structural I, Grade C-D; Exposure Durability 2; unsanded. See Drawings for locations requiring fire retardant treated plywood.

3

2.2 ACCESSORIES

- A. Fasteners and Anchors:
1. Fasteners: Hot dipped galvanized steel for high humidity and treated wood locations, unfinished steel elsewhere.
 2. Nails and Staples: ASTM F1667.
 3. Anchors: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt or ballistic fastener for anchorages to steel.
 4. Screws for Fastening to Metal Framing: ASTM C954, length as recommended by screw manufacturer for material being fastened.
 5. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

2.3 FACTORY WOOD TREATMENT

- A. Wood Preservative (Pressure Treatment): AWWA C1 using water borne preservative with 0.25 percent retainage.
- B. Fire Retardant Treatment: Pressure treatment, AWWA C20 for lumber and AWWA C27 for plywood, Interior Type, chemically treated and pressure impregnated; capable of providing a maximum flame spread/smoke development of 25/450.
- C. Moisture Content After Treatment:
1. Lumber: Maximum 19 percent.
 2. Structural Panels: Maximum 15 percent.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify substrate conditions are ready to receive blocking, curbing and framing.

3.2 PREPARATION

- A. Coordinate placement of blocking, curbing and framing items.

3.3 INSTALLATION

- A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry accurately to other construction. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.



- B. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant-treated plywood backing panels with classification marking of testing agency exposed to view.
- C. Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
- D. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
 - 1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches (406 mm) o.c.
- E. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows:
 - 1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches (2438 mm) o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces.
 - 2. Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches (2438 mm) o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal (38-mm actual) thickness.
 - 3. Fire block concealed spaces between floor sleepers with same material as sleepers to limit concealed spaces to not more than 100 sq. ft. (9.3 sq. m) and to solidly fill space below partitions
- F. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
 - 2. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.
 - 3. ICC-ES evaluation report for fastener.

3.4 INSTALLATION OF WOOD BLOCKING AND NAILER

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.



- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.
- C. Provide permanent grounds of dressed, pressure-preservative-treated, key-beveled lumber not less than 1-1/2 inches (38 mm) wide and of thickness required to bring face of ground to exact thickness of finish material. Remove temporary grounds when no longer required.

3.5 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment.
- B. Brush apply two coats of preservative treatment on wood in contact with cementitious materials, roofing and related metal flashings and treat site-sawn cuts.
- C. Allow preservative to dry prior to erecting members.

3.6 SCHEDULES

- A. Roof Blocking: S/P/F species, 19 percent maximum moisture content, pressure preservative treatment.
- B. Telephone, television and electrical panel boards: 3/4 inch thick, square edges, site brush applied preservative treated.

END OF SECTION

SECTION 07 84 00

FIRESTOPPING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes firestopping and through-penetration protection system materials and accessories; firestopping tops of fire rated walls, firestopping at ends of wall.
- B. Related Sections:
 - 1. Section 05 040 00 – Cold-Formed Metal Framing.
 - 2. Section 09 21 16 - Gypsum Board Assemblies: Gypsum board fireproofing.
 - 3. Division 22: Plumbing work requiring firestopping.
 - 4. Division 23: HVAC work requiring firestopping.
 - 5. Division 26: Electrical work requiring firestopping.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 - 3. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
 - 4. ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems.
- B. Intertek Testing Services (Warnock Hersey Listed):
 - 1. WH - Certification Listings.
- C. National Fire Protection Association:
 - 1. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
- D. Underwriters Laboratories Inc.:
 - 1. UL 263 - Fire Tests of Building Construction and Materials.
 - 2. UL 723 - Tests for Surface Burning Characteristics of Building Materials.
 - 3. UL 1479 - Fire Tests of Through-Penetration Firestops.
 - 4. UL 2079 - Tests for Fire Resistance of Building Joint Systems.
 - 5. UL - Fire Resistance Directory.

1.3 DEFINITIONS

- A. Firestopping (Through-Penetration Protection System): Sealing or stuffing material or assembly placed in spaces between and penetrations through building materials to arrest movement of fire, smoke, heat, and hot gases through fire rated construction.

1.4 SYSTEM DESCRIPTION

- A. Firestopping Materials: ASTM E814 to achieve fire ratings as noted on Drawings for adjacent construction, but not less than 1-hour fire rating.
- B. Firestopping Materials: UL 263, UL 1479, to achieve fire ratings of adjacent construction in accordance with UL Design Numbers noted in Schedule at end of this section.
- C. Surface Burning: ASTM E84 with maximum flame spread / smoke developed rating of 25/450.
- D. Firestop interruptions to fire rated assemblies, materials, and components.

1.5 PERFORMANCE REQUIREMENTS

- A. Conform to applicable code for fire resistance ratings and surface burning characteristics.
- B. Provide certificate of compliance from authority having jurisdiction indicating approval of materials used.

1.6 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data on product characteristics, performance and limitation criteria.
- C. Schedule: Submit schedule of opening locations and sizes, penetrating items, and required listed design numbers to seal openings to maintain fire resistance rating of adjacent assembly.
- D. Manufacturer's Installation Instructions: Submit preparation and installation instructions.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.
- F. Engineering Judgements: For conditions not covered by UL or WH listed designs, submit judgements by licensed professional engineer suitable for presentation to authority having jurisdiction for acceptance as meeting code fire protection requirements.

1.7 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years experience.
- B. Applicator: Company specializing in performing Work of this section with minimum three years experience, and approved by manufacturer.



1.8 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements.
- B. Do not apply materials when temperature of substrate material and ambient air is below 60 degrees F.
- C. Maintain this minimum temperature before, during, and for minimum 3 days after installation of materials.
- D. Provide ventilation in areas to receive solvent cured materials.

PART 2 PRODUCTS

2.1 FIRESTOPPING

- A. Manufacturers:
 - 1. Dow Corning Corp.
 - 2. Hilti Corp.
 - 3. 3M fire Protection Products.
 - 4. United States Gypsum Co.
 - 5. Substitutions: Section 01 60 00 - Product Requirements.
- B. Product Description: Different types of products by multiple manufacturers are acceptable as required to meet specified system description and performance requirements; provide only one type for each similar application.
 - 1. Silicone Firestopping Elastomeric Firestopping: Single or Multiple component silicone elastomeric compound and compatible silicone sealant.
 - 2. Foam Firestopping Compounds: Multiple component foam compound.
 - 3. Formulated Firestopping Compound of Incombustible Fibers: Formulated compound mixed with incombustible non-asbestos fibers.
 - 4. Fiber Stuffing and Sealant Firestopping: Composite of mineral or ceramic fiber stuffing insulation with silicone elastomer for smoke stopping.
- C. Color: Red or yellow.

2.2 ACCESSORIES

- A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces and suitable for required fire ratings.
- B. Dam Material: Permanent:
 - 1. Mineral fiberboard.
 - 2. Mineral fiber matting.
 - 3. Sheet metal.

- C. Installation Accessories: Provide clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify openings are ready to receive firestopping.

3.2 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter affecting bond of firestopping material.
- B. Remove incompatible materials affecting bond.
- C. Install backing and damming materials to arrest liquid material leakage.

3.3 APPLICATION

- A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit and other items, requiring firestopping.
- B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings.
- C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating, to uniform density and texture.
- D. Compress fibered material to maximum 40 percent of its uncompressed size.
- E. See Section 07 90 00 for joint for joint protection at non-fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit and other items.

3.4 FIELD QUALITY CONTROL

- A. Section 01 40 00 - Quality Requirements and 01 70 00 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Inspect installed firestopping for compliance with specifications and submitted schedule.



3.5 CLEANING

- A. Section 01 70 00 - Execution and Closeout Requirements: Final cleaning.
- B. Clean adjacent surfaces of firestopping materials.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 01 70 00 - Execution and Closeout Requirements: Protecting installed construction.
- B. Protect adjacent surfaces from damage by material installation.

END OF SECTION

SECTION 08 11 13

HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Exterior standard steel doors and frames.
 - 2. Fire rated or non-rated interior frames.
- B. Related Requirements:
 - 1. Section 08 71 00 Door Hardware
 - 2. Section 08 80 00 Glazing
 - 3. Section 09 90 00 Painting and Coating
 - 4. Section 13 34 19 Metal Building Systems

1.2 REFERENCES


- A. American National Standards Institute:
 - 1. ANSI A250.8 – Recommended Specifications for Standard Steel Doors and Frames
- B. ASTM International:
 - 1. ASTM A653 – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. National Fire Protection Association:
 - 1. NFPA 80 – Standard for Fire Doors, Fire Windows
 - 2. NFPA 105 – Standard for the Installation of Smoke Door Assemblies and other Opening Protectives
 - 3. NFPA 252 – Standard Methods of Fire Tests of Door Assemblies
- D. Underwriters Laboratories Inc.:
 - 1. UL 10B – Fire Tests of Door Assemblies
 - 2. UL 10C – Positive Pressure Fire Tests of Door Assemblies
 - 3. UL 1784 – Air Leakage Tests of Door Assemblies

1.3 COORDINATION

- A. See Section 01 30 00 – Administrative Requirements: Coordination and Project Conditions

- B. Coordinate anchorage installation for hollow-metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
- C. Coordinate requirements for installation of door hardware, electrified door hardware, and access control and security systems.
- D. Sequence installation to accommodate required door hardware electric wire connections.

1.4 SUBMITTALS

- A. See Section 01 33 00 – Submittal Procedures
- B. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, core descriptions, fire-resistance ratings, and finishes.
- C. Shop Drawings: Include the following:
 - 1. Elevations of each door type.
 - 2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
 - 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 - 4. Locations of reinforcement and preparations for hardware.
 - 5. Details of each different wall opening condition.
 - 6. Details of anchorages, joints, field splices, and connections.
 - 7. Details of accessories.
 - 8. Details of moldings, removable stops, and glazing.
- D. Product Schedule: For hollow-metal doors and frames, prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final door hardware schedule.
- E. Manufacturer's Installation Instructions: Submit any required special installation instructions.
- F. Manufacturer's Certificate: Certify products meet or exceed specified requirements. 

1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Section 01 60 00 – Product Requirements: Product storage and handling requirements.

- B. Deliver hollow-metal doors and frames palletized, packaged, or crated to provide protection during transit and Project-site storage. Do not use non-vented plastic.
 - 1. Provide additional protection to prevent damage to factory-finished units.
 - 2. Accept frames on site in manufacturer's packaging. Inspect for damage.
 - 3. Break seal on-site to permit ventilation.
- C. Store hollow-metal doors and frames vertically under cover at Project site with head up. Place on minimum 4-inch-high wood blocking. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

1.6 QUALIFICATIONS

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

1.7 QUALITY ASSURANCE

- A. Conform to the requirements of ANSI A250.8.
- B. Fire Rated Frame Construction: Conform to one of the following:
 - 1. NFPA 252; with neutral pressure level at 40 inches maximum above sill at 5 minutes into test.
 - 2. UL 10C.
- C. Installed Fire Rated Frame Assembly: Conform to NFPA 80 for fire rated class same as fire door.
- D. Attach label form agency approved by authority having jurisdiction to identify each fire rated door frame.

PART 2 - PRODUCTS

2.1 HOLLOW METAL DOORS AND FRAMES

A. MANUFACTURERS

- 1. Steelcraft
- 2. Ceco Door Products.
- 3. Republic Builders Products.
- 4. Amweld Building Products.
- 5. Curries Company
- 6. Kewanee Corp.



7. Mesker Door Inc.
8. Pioneer Industries
9. Substitutions: Not Permitted.

B. Source Limitations: Obtain hollow-metal work from a single manufacturer.

2.2 EXTERIOR STANDARD STEEL DOORS AND FRAMES AND INTERIOR FRAMES

- A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.\
- B. Hardware Locations:
 1. Mounting heights for hardware shall be in accord with Table V of Steel Door Institute "Technical Data Series" S.D.I. 100-80 unless indicated otherwise.
- C. Doors shall be made of commercial quality, level cold rolled steel conforming to ASTM A-366 and free of scale, pitting or other surface defects.
 1. Face sheets for all exterior doors shall be not less than 16 gauge and all exterior doors shall have a zinc coating of not less than 0.30 ounces per square foot and factory painted finish. Interior doors shall be as exterior, except 18 gauge minimum. Color to be selected by Architect / Engineer.
 - a. Insulated Hollow Metal Doors for exterior doors. Total insulation minimum R-value of 6, measured in accordance with ASTM C518.
 2. Door finish shall be factory applied prime and field applied finish of a compatible coat of finish paint, per specification 09 90 00. Color to be chosen by the Architect / Engineer from the manufacturer's full line of available colors. Contractor shall provide the Architect / Engineer with one gallon of touch-up paint for each door color selected.
- D. Frames for exterior openings shall be made of commercial grade cold rolled steel conforming to ASTM Designation A-366, 14 gauge and shall have a zinc coating of not less than 0.30 ounces per square foot. Frames for interior openings shall be as for exterior, except 16 gauge minimum.
 1. Fabricate frames as a welded unit. "Knock-down" type frames shall not be acceptable without written permission from Architect / Engineer.
 2. Finish shall be factory applied primer and field applied painted finish. Color to be chosen by the Architect / Engineer from the manufacturer's full line of available colors.
 3. Prepare exterior frames for weatherstripping: Specified in Section 08 71 00.

2.3 FRAME ANCHORS

A. Jamb Anchors:

1. Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
 2. Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor.
 3. Post-installed Expansion Anchor: Minimum 3/8-inch- (9.5-mm-) diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.
- B. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor.
- C. Steel (CS), 04Z coating designation; mill phosphatized.
1. For anchors built into exterior walls, steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M; hot-dip galvanized in accordance with ASTM A153/A153M, Class B.

2.4 FABRICATION

- A. Hollow-Metal Frames: Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as frames.
1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
- B. Hardware Preparation: Factory prepare hollow-metal doors and frames to receive templated mortised hardware, and electrical wiring; include cutouts, reinforcement, mortising, drilling, and tapping in accordance with ANSI/SDI A250.6, the Door Hardware Schedule, and templates. Provide hardware reinforcement plates, welded in place.
1. Comply with BHMA A156.115 for preparing hollow-metal doors and frames for hardware.
- C. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with mitered hairline joints.
1. Provide stops and moldings flush with face of door, and with square stops unless otherwise indicated.
 2. Provide fixed frame moldings on outside of exterior and on secure side of interior doors and frames. Provide loose stops and moldings on inside of hollow-metal doors and frames.
 3. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.
 4. Provide stops for installation with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches (230 mm) o.c. and not more than 2 inches (51 mm) o.c. from each corner.

- D. Fire Rated Label: Attach to each fire rated door and each fire rated frame.

2.5 STEEL FINISHES

- A. Steel Sheet: Galvannealed to ASTM A653 A60.
- B. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
 - 1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI/SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.
- C. Coat inside of frame profile with bituminous coating to minimum thickness of 1/16 inch at all masonry walls.
- D. Field finish per Section 0990 00.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Section 01 30 00 – Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify opening sizes and tolerances are acceptable.

3.2 INSTALLATION


- A. Install hollow-metal doors and frames plumb, rigid, properly aligned, and securely fastened in place. Comply with approved Shop Drawings and with manufacturer's written instructions.
- B. Hollow-Metal Frames: Comply with SDI A250.11.
 - 1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces without damage to completed Work.
 - a. Where frames are fabricated in sections, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces. Touch-up finishes.
 - b. Install frames with removable stops located on secure side of opening.
 - 2. Floor Anchors: Secure with post-installed expansion anchors.

- a. Floor anchors may be set with power-actuated fasteners instead of post-installed expansion anchors if so indicated and approved on Shop Drawings.
3. Solidly pack mineral-fiber insulation inside frames.
4. Installation Tolerances: Adjust hollow-metal frames to the following tolerances:
 - a. Squareness: Plus or minus 1/16 inch (1.6 mm), measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b. Alignment: Plus or minus 1/16 inch (1.6 mm), measured at jambs on a horizontal line parallel to plane of wall.
 - c. Twist: Plus or minus 1/16 inch (1.6 mm), measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - d. Plumbness: Plus or minus 1/16 inch (1.6 mm), measured at jambs at floor.
- C. Hollow-Metal Doors: Fit and adjust hollow-metal doors accurately in frames, within clearances specified below.
 1. Non-Fire-Rated Steel Doors: Comply with SDI A250.8
 2. Coordinate with installation of hardware specified in Section 08 71 00
 3. Touch-up damaged shop finishes
- D. Glazing: Comply with installation requirements in Section 08 80 00 "Glazing" and with hollow-metal manufacturer's written instructions.

3.3 SCHEDULE

- A. Refer to Door and Frame Schedule on Drawings.

3.4 FIELD QUALITY CONTROL

- A. Inspections:
 1. Fire-Rated Door Inspections: Inspect each fire-rated door in accordance with NFPA 80, Section 5.2.
 2. Egress Door Inspections: Inspect each door equipped with panic hardware, each door equipped with fire exit hardware, each door located in an exit enclosure, each electrically controlled egress door, and each door equipped with special locking arrangements in accordance with NFPA 101, Section 7.2.1.15.
- B. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements. 
- C. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.5 REPAIR

- A. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- B. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

END OF SECTION

SECTION 08 71 00 – DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

Mechanical and electrified door hardware

B. Section excludes:

Windows
Cabinets (casework), including locks in cabinets
Signage
Toilet accessories
Overhead doors

C. Related Sections:

Division 01 Section “Alternates” for alternates affecting this section.
Division 06 Section “Rough Carpentry”
Division 06 Section "Finish Carpentry”
Division 07 Section “Joint Sealants” for sealant requirements applicable to threshold installation specified in this section.
Division 08 Sections for Doors and Frames.

1.02 REFERENCES

A. UL, LLC

UL 10B - Fire Test of Door Assemblies
UL 10C - Positive Pressure Test of Fire Door Assemblies
UL 1784 - Air Leakage Tests of Door Assemblies
UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

Sequence and Format for the Hardware Schedule
Recommended Locations for Builders Hardware
Keying Systems and Nomenclature
Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

NFPA 70 – National Electric Code
NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
NFPA 101 – Life Safety Code

NFPA 105 – Smoke and Draft Control Door Assemblies
NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
ANSI/SDI A250.8 - Standard Steel Doors and Frames.
ANSI/DHI A115.IG – Installation Guide for Doors and Hardware

E. ICC – International Code Council, Inc

1. ICC/ANSI A117.1 – Accessible and Usable Buildings and Facilities.
2. ICC IBC – International Building Code

F. NFPA – National Fire Protection Agency

1. NFPA 101 - Life Safety Code
2. NFPA 80 - Fire Doors and Windows

G. Builders Hardware Manufacturing Association (BHMA)

1.03 SUBMITTALS

A. General:

Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
Prior to forwarding submittal:

- a. Comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, “EXAMINATION” article, herein.
- b. Review drawings and Sections from related trades to verify compatibility with specified hardware.
- c. 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:

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.

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.

Door Hardware Schedule:

- b. 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.
- c. 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.
- d. 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.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

Key Schedule:

- e. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
- f. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- g. 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.
- h. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- i. 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.
- j. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
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:

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.
- f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

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.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

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.

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.

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.
- d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

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.

Smoke and Draft Control Door Assemblies:

- c. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
- d. 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.

Electrified Door Hardware

- e. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

Accessibility Requirements:

- f. 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

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) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.

Pre-installation Conference

- b. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- c. Inspect and discuss preparatory work performed by other trades.
- d. Inspect and discuss electrical roughing-in for electrified door hardware.

- e. Review sequence of operation for each type of electrified door hardware.
- f. Review required testing, inspecting, and certifying procedures.
- g. Review questions or concerns related to proper installation and adjustment of door hardware.

1.05 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.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. 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.
- B. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

1.07 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

Warranty Period: Beginning from date of Substantial Completion, for durations indicated.

- a. Closers:
 - 1) Mechanical: 30 years
- b. Exit Devices:
 - 1) Mechanical: 3 years.

- 2) Electrified: 1 year.
- c. Locksets:
 - 1) Mechanical: 10 years
 - 2) Electrified: 1 year.
- d. Continuous Hinges: Lifetime warranty.
- e. Key Blanks: Lifetime

Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.08 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

2.01 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."

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 in section 01 60 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.

2.02 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.

2.03 HINGES

A. Manufacturers and Products:

Scheduled Manufacturer and Product:

- a. Ives 5BB series

Acceptable Manufacturers and Products:

- b. Hager BB1191/1279 series
- c. McKinney TB series
- d. 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. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
5. Provide minimum 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.
6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
7. 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

2.04 CONTINUOUS HINGES

A. Manufacturers

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Select
 - b. Best
 - c. Roton
 - d. ABH
 - e. Hager

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.

7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 FLUSH BOLTS

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives

Acceptable Manufacturers:

- b. Burns
- c. Rockwood
- d. Trimco

B. Requirements:

Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.06 COORDINATORS

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives

Acceptable Manufacturers:

- b. Burns
- c. Trimco
- d. Rockwood

B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers, surface vertical rod exit device strikes, or other stop mounted hardware. Factory-prepared coordinators for vertical rod devices as specified.

2.07 MORTISE LOCKS

A. Manufacturers and Products:

Scheduled Manufacturer and Product:

- a. Schlage L9000 series

Acceptable Manufacturers and Products:

- b. Sargent 8200 series
- c. Corbin-Russwin ML2000 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 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 to allow for multiple locks on a single power supply.
 - d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate "hot levers" in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
 - e. Connections – provide quick-connect Molex system standard.
 - f. 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.

6 a.

2.08 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

Scheduled Manufacturer and Product:

- a. Schlage ND series

Acceptable manufacturers with equivalent products

- b. Von Duprin
- c. Hagar

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Cylinders: Refer to “KEYING” article, herein.
3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.

2.09 EXIT DEVICES

A. Manufacturers and Products:

Scheduled Manufacturer and Product:

- a. Von Duprin 99/33A series

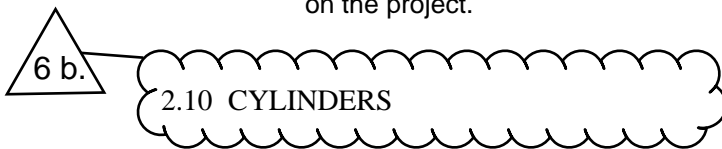
Acceptable Manufacturers and Products:

- b. Precision APEX 2000 series
- c. Sargent 19-43-GL-80 series

C. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to “KEYING” article, herein.
3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.

8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets..
14. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
15. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.



A. Manufacturers:

Scheduled Manufacturer and Product:

- a. Schlage Everest 29 Primus XP

Acceptable Manufacturers with equivalent product:

- b. Von Duprin
- c. Hagar

B. Requirements:

1. Provide construction cores prior to final installation of permanent cylinder
2. 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.
3. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. High Security: dual-locking cylinder with permanent core requiring restricted, patented keyway. Dual-locking mechanism with interlocking finger pin(s) to check for patented features on keys.

4. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
5. Nickel silver bottom pins.

6 c.

2.11 KEYING

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) Coordinate with Owner or Owner's Representative on replacement of construction cores with permanent cores.

Permanent Keying:

- b. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner or Owner's representative.
- c. 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.
- d. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
- e. 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.
- f. Quantity: Furnish in the following quantities.
 - 1) Permanent Control Keys: 3.
 - 2) Master Keys: 6.
 - 3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
 - 4) Key Blanks: Quantity as determined in the keying meeting.

2.12 KEY CONTROL SYSTEM

A. Manufacturers:

Scheduled Manufacturer:

- a. Telkee

Acceptable Manufacturers:

- b. HPC
- c. Lund

B. Requirements:

1. Provide 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% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.13 DOOR CLOSERS

A. Manufacturers and Products:

Scheduled Manufacturer and Product:

- a. LCN 4040XP series

Acceptable Manufacturers and Products:

- b. Corbin-Russwin DC8000 series
- c. Sargent 281 series

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.

2.14 DOOR TRIM

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives.

Acceptable Manufacturers:

- b. Elmes
- c. Trimco
- d. Burns
- e. Rockwood

B. Requirements:

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

2.15 PROTECTION PLATES

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives

Acceptable Manufacturers:

- b. Burns
- c. Trimco
- d. 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. Sizes plates 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.

2.16 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

Scheduled Manufacturers:

- a. Glynn-Johnson

Acceptable Manufacturers:

- b. Rixson
- c. Sargent
- d. 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. Provide friction type at doors without closer and positive type at doors with closer.

2.17 DOOR STOPS AND HOLDERS

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives

Acceptable Manufacturers:

- b. Trimco
- c. Burns
- d. Rockwood

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button or thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other, and overhead stop cannot be used.

2.18 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

Scheduled Manufacturer:

- a. Zero International

Acceptable Manufacturers:

- b. National Guard
- c. Reese
- d. DHSI
- e. Legacy
- f. Pemko

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.19 SILENCERS

A. Manufacturers:

Scheduled Manufacturer:

- a. Ives

Acceptable Manufacturers:

- b. Burns
- c. Rockwood
- d. 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.

2.20 DOOR POSITION SWITCHES

A. Manufacturers:

Scheduled Manufacturer:

- a. Schlage

Acceptable Manufacturers:

- b. GE-Interlogix
- c. Sargent

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

PART 3 - EXECUTION

3.01 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.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

Standard Steel Doors and Frames: ANSI/SDI A250.8.

Custom Steel Doors and Frames: HMMA 831.

Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A

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. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- J. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- K. Closer/holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- L. Overhead Stops: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- M. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- N. 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.
- O. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

- P. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- Q. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

- 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.

3.04 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.

3.05 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.

Hardware Sets:

- 1) The hardware sets listed below represent design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process.

END OF SECTION

Hardware Group No. 01

For use on Door #(s):

112-A

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
2	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CD-9947-EO	626	VON
1	EA	PANIC HARDWARE	CD-9947-NL-OP	626	VON
3	EA	MORT CYLINDER	AS REQ'D	626	SCH
3	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH MC	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER
2	EA	DOOR CONTACT	7764	628	SCE
2	EA	CLOSER TEMPLATING, BRACKETS, SHOES, SPACERS, ETC	AS REQUIRED		
1	EA		BALANCE OF GASKETING BY DOOR/FRAME MFR.		

OPERATIONAL DESCRIPTION

ACTIVE LEAF

CONCEALED ROD EXIT DEVICE. FREE EGRESS AT ALL TIMES BY PRESSING PUSHBAR. ENTRY BY PULL AFTER RETRACTING LATCHBOLT WITH KEY/ THUMB TURN. DOGGING BY KEYED CYLINDER LOCKS DOWN THE PUSHBAR SO THE LATCHBOLT REMAINS RETRACTED AND DOOR FUNCTIONS AS A PUSH/PULL. SELF-CLOSING SPRING-LOADED STOP INCLUDED. PUSH SIDE MOUNTED.

INACTIVE LEAF

CONCEALED ROD EXIT DEVICE. FREE EGRESS AT ALL TIMES BY PRESSING PUSHBAR. ENTRY BY PULL WHEN DEVICE DOGGED DOWN. DOGGING BY KEYED CYLINDER LOCKS DOWN THE PUSHBAR SO THE LATCHBOLT REMAINS RETRACTED AND DOOR FUNCTIONS AS A PUSH/PULL. SELF-CLOSING. SPRING LOADED STOP INCLUDED. PUSH SIDE MOUNTED.

DOOR POSITION SWITCH(S) MONITOR WHETHER THE DOOR IS OPEN OR CLOSED.

Hardware Group No. 02

For use on Door #(s):

105 108

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ND80LD RHO	626	SCH
1	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH MC	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	DOOR CONTACT	679-05HM OR WD AS REQ'D	BLK	SCE

OPERATIONAL DESCRIPTION

STOREROOM LOCK - OUTSIDE LEVER FIXED. ENTRANCE BY KEY ONLY. INSIDE LEVER ALWAYS UNLOCKED. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS. SELF-CLOSING. SPRING LOADED STOP INCLUDED. PUSH SIDE MOUNTED. DOOR POSITION SWITCH(S) MONITOR WHETHER THE DOOR IS OPEN OR CLOSED.

Hardware Group No. 03

For use on Door #(s):

106 107

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	CORRIDOR LOCK	L9456L 06A L583-363 L283-722	626	SCH
1	EA	MORT CYLINDER	AS REQ'D	626	SCH
1	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH MC	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER

OPERATIONAL DESCRIPTION

CORRIDOR LOCK - LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE. DEADBOLT THROWN OR RETRACTED BY KEY OUTSIDE OR INSIDE THUMBTURN. THROWING DEADBOLT LOCKS OUTSIDE LEVER. TURNING INSIDE LEVER SIMULTANEOUSLY RETRACTS DEADBOLT AND LATCHBOLT AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS FREE FOR EGRESS. VISUAL INDICATOR DISPLAYS OCCUPIED/VACANT ON OUTSIDE FACE OF DOOR. SELF-CLOSING. SPRING LOADED STOP INCLUDED. PUSH SIDE MOUNTED.

Hardware Group No. 04

For use on Door #(s):

101-A 101-B

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH MC	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	328AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	DOOR CONTACT	679-05HM OR WD AS REQ'D	BLK	SCE

OPERATIONAL DESCRIPTION

RIM EXIT DEVICE. FREE EGRESS AT ALL TIMES BY PRESSING PUSHBAR. EXIT ONLY, NO EXTERIOR TRIM.

SELF-CLOSING. SPRING LOADED STOP INCLUDED. PUSH SIDE MOUNTED.

DOOR POSITION SWITCH(S) MONITOR WHETHER THE DOOR IS OPEN OR CLOSED.

Hardware Group No. 05

For use on Door #(s):

104-B

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

FIRE RATED OPENING

OPERATIONAL DESCRIPTION

PASSAGE LOCK – NEITHER LEVER LOCKABLE. BOTH LEVERS ALWAYS FREE FOR IMMEDIATE INGRESS OR EGRESS.

SELF CLOSING.

Hardware Group No. 06

For use on Door #(s):

110

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CORRIDOR LOCK	L9456L 06A L583-363 L283-722	626	SCH
1	EA	MORT CYLINDER	AS REQ'D	626	SCH
1	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
1	EA	SURFACE CLOSER	4040XP MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

FIRE RATED OPENING

OPERATIONAL DESCRIPTION

CORRIDOR LOCK - LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE. DEADBOLT THROWN OR RETRACTED BY KEY OUTSIDE OR INSIDE THUMBTURN. THROWING DEADBOLT LOCKS OUTSIDE LEVER. TURNING INSIDE LEVER SIMULTANEOUSLY RETRACTS DEADBOLT AND LATCHBOLT AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS FREE FOR EGRESS. VISUAL INDICATOR DISPLAYS OCCUPIED/VACANT ON OUTSIDE FACE OF DOOR. SELF CLOSING.

Hardware Group No. 07

For use on Door #(s):

109

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53LD RHO	626	SCH
1	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

FIRE RATED OPENING

OPERATIONAL DESCRIPTION

OFFICE LOCK - TURN/PUSH-BUTTON LOCKING; PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED. PUSHBUTTON LOCKING; PUSHING BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED BY KEY OR BY TURNING INSIDE LEVER. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS. SELF CLOSING.

Hardware Group No. 08

For use on Door #(s):

112-C

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
6	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	9947-L-F-LBR-06	626	VON
1	EA	FIRE EXIT HARDWARE	9947-L-F-LBRAFL-06	626	VON
2	EA	RIM CYLINDER	AS REQ'D	626	SCH
2	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH MC	689	LCN
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	ASTRAGAL	ASTRAGAL AS REQ'D BY DOOR MFR	D	ZER

FIRE RATED OPENING

OPERATIONAL DESCRIPTION

BOTH LEAVES

CONCEALED ROD EXIT DEVICE. FREE EGRESS AT ALL TIMES BY PRESSING PUSHBAR. ENTRY BY TURNING LEVER UNLESS LOCKED BY KEY. KEY LOCKS AND UNLOCKS LEVER SELF-CLOSING. SPRING LOADED STOP INCLUDED. PUSH SIDE MOUNTED.

Hardware Group No. 09

For use on Door #(s):

111 112-B

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80LD RHO	626	SCH
1	EA	AS REQUIRED	PRIMUS CONV. KIL CYLINDER	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

FIRE RATED OPENING

OPERATIONAL DESCRIPTION

STOREROOM LOCK - OUTSIDE LEVER FIXED. ENTRANCE BY KEY ONLY. INSIDE LEVER ALWAYS UNLOCKED. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS. SELF CLOSING.

Hardware Group No. 10

For use on Door #(s):

102 103 104-A

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
Y				H	
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ELEC CLASSROOM LOCK	CO-100-CY-70-KP-RHO-L 48 BATTERY	626	SCE
1	EA	PRIMUS K-I-L CYL	20-765-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

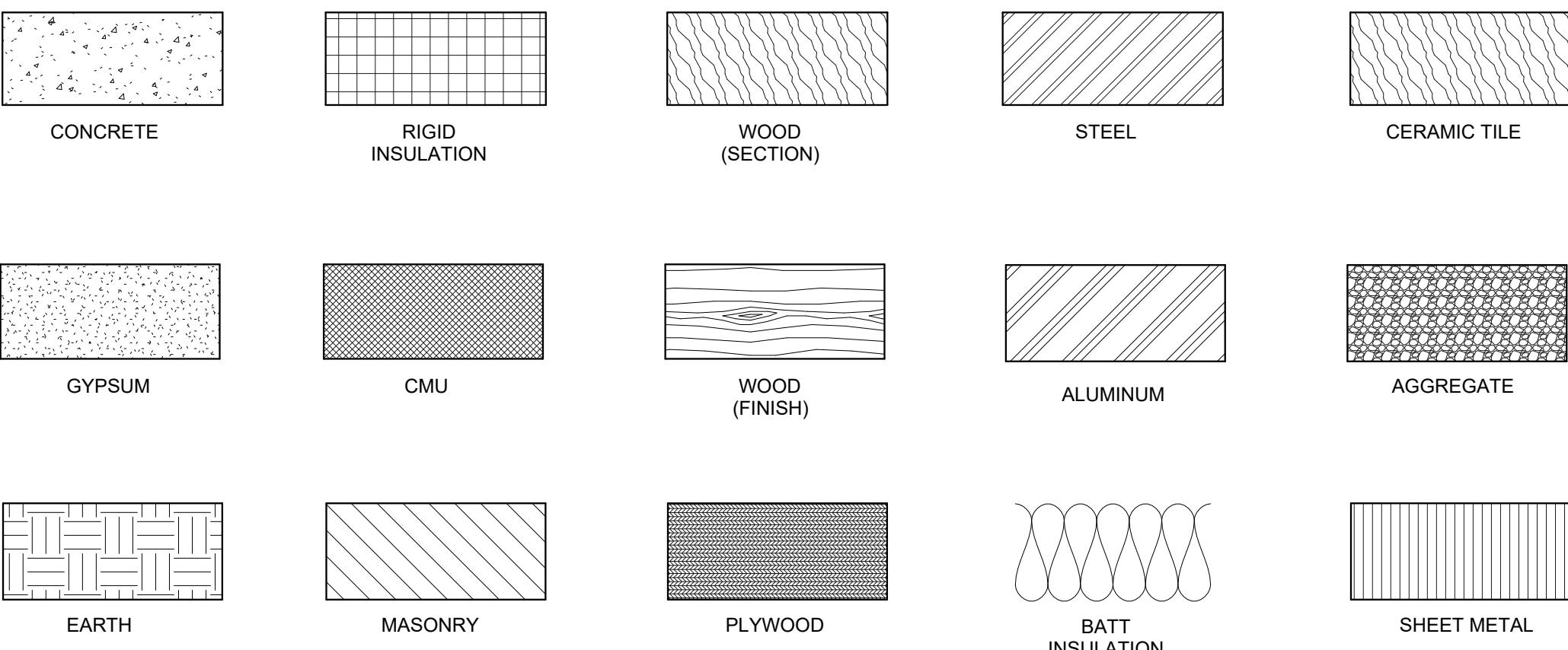
FIRE RATED OPENING

OPERATIONAL DESCRIPTION

STOREROOM LOCK - OUTSIDE LEVER FIXED. ENTRANCE BY KEY ONLY. INSIDE LEVER ALWAYS UNLOCKED. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS. SELF CLOSING.

ABBREVIATIONS

ABV	ABOVE	GA	GAUGE	TB	TILE BASE
ACC	ACCESS	GFCI	GROUND FAULT CIRCUIT	T.O	TOP OF
ACT	ACOUSTICAL CEILING TILE	GWB	GYPSPUM WALL BOARD	TYP	TYPICAL
ACU	AIR CONDITIONING UNIT	GYP	GYPSPUM		
ADJ	ADJACENT			UH	UNIT HEATER
ADJT	ADJUSTABLE	HC	HOLLOW CORE		
AFF	ABOVE FINISH FLOOR	HM	HOLLOW METAL	VA	VOLT AMPS
AHU	AIR HANDLING UNIT	HP	HORSEPOWER	VB	VAPOR BARRIER
ALT	ALTERNATE, ALTERNATIVE	HORIZ	HORIZONTAL	VTR	VENT THROUGH ROOF
ALUM	ALUMINUM	HSS	STRUCTURAL TUBE		
AMPS	AMPERES	HT	HEIGHT	WD	WOOD
AUTO	AUTOMATIC	HTG	HEATING	WF	WALL FINISH
		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	WH-X	WATER HEATER
				WP	WATER PROOFING
BD	BOARD			W/	WITH
BLDG	BUILDING	HWS	HOT WATER SUPPLY	W/O	WITHOUT
B.O.	BOTTOM OF				
BTUH	BRITISH THERMAL UNIT PER HOUR	IN	INCH		
		INS	INSULATE (D), (ION)		
BTWN	BETWEEN	INT	INTERIOR		
CASS	CASSETTE	JT	JOINT		
CF	CUBIC FOOT				
CFL	COUNTERFLASHING	KPL	KICKPLATE		
CFS	COLD FORMED STEEL				
CFM	CUBIC FEET PER MINUTE	L	LENGTH		
CJ	CONTROL JOINT	LL	LIVE LOAD		
CLG	CEILING	LLC	LOCAL LIGHTING CONTROLLER		
CMU	CONCRETE MASONRY UNIT	LT	LIGHT		
CO	CLEAN OUT				
COL	COLUMN				
CONC	CONCRETE	M/MECH	MECHANICAL		
CONST	CONSTRUCTION	MAX	MAXIMUM		
CONT	CONTINUOUS	MBH	1,000 BTU/hr.		
CONTR	CONTROLLER BOX	MED	MEDIUM		
COTF	CLEAN OUT TO FLOOR	MEZZ.	MEZZANINE		
COTG	CLEAN OUT TO GRADE	MFG	MANUFACTURE (ER)		
COTW	CLEAN OUT TO WALL	MIN	MINIMUM		
CPT	CARPET (ED)	MISC	MISCELLANEOUS		
CS	COUNTERSINK	MO	MASONRY OPENING		
CSBA	COLOR SELECTED BY ARCHITECT	MOV	MOVABLE		
		MP	METAL PANEL		
CT	CARPET TILE	MT	MOUNT (ED), (ING)		
CU-X	CONDENSER UNIT	MTL	METAL		
CWS	COLD WATER SUPPLY				
		No	NUMBER		
DBL	DOUBLE	NOM	NOMINAL		
DEG	DEGREES				
DEMO	DEMOLISH, DEMOLITION	OAU.	OUTDOOR AIR UNIT		
DIAG	DIAGONAL	O.C.	ON CENTER		
DIAM	DIAMETER	OH	OVERHEAD		
DIM	DIMENSION	OS	OCCUPANCY SENSOR		
DISP.	DISPENSER	OPP	OPPOSITE		
DIV	DIVISION	OWSJ	OPEN WEB STEEL JOIST		
DR	DOOR				
DS	DOWNSPOUT				
DT	DRAINTILE	PEMB	PRE-ENGINEERED METAL BUILDING		
DWG	DRAWING	PP	POWER PACK		
		PS	PULL SWITCH		
EL	EMERGENCY LIGHT	PT	PAINT (ED)		
ELEC	ELECTRIC (AL)				
ERV	EMERGENCY RECOVERY VENTILATION	RB	RUBBER BASE		
EXG	EXISTING	RF	RUBBER FLOORING		
		RM	ROOM		
F	DEGREES FAHRENHEIT	RO	ROUGH OPENING		
FA	FIRE ALARM	RR	RESTROOM		
FACP	FIRE ALARM CONTROL PANEL	RTU	ROOF TOP UNIT		
FC	FAN COIL				
FD	FLOOR DRAIN	SHT	SHEET		
F.F.	FINISHED FLOOR	SIM	SIMILAR		
FDN	FOUNDATION	SL	SEALER		
FP	FIREPROOF	SS	STAINLESS STEEL		
FR	FRAME	STS	STANDING SEAM		
FT	FEET	STL	STEEL		
FTG	FOOTING	STO.	STORAGE		
		STR	STRUCTURE		



SHEET INDEX

SHEET NUMBER	SHEET NAME
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C-100	DEMO
C-101	SITE PLAN
C-101 A	SITE PLAN
C-102	SITE PLAN CONNECTIONS
C-103	SANITARY SEWER FORCEMAIN PROFILE
C-501	MISC. DETAILS
C-502	UTILITY DETAILS
STRUCTURAL	
S-001	STRUCTURAL NOTES
S-002	STRUCTURAL NOTES
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S-104	ROOF PLAN
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A-002	ACCESSIBILITY GUIDELINES
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A-104	ROOF PLAN
A-201	BUILDING ELEVATIONS
A-301	BUILDING SECTIONS
A-302	WALL SECTIONS
A-303	WALL SECTIONS
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A-402	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-501	STAIR PLAN AND DETAILS, SIDEWALK PLAN
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E-400	ELECTRICAL DIAGRAMS
E-500	ELECTRICAL SCHEEDULES
E-600	ELECTRICAL PANEL SCHEDULES



HURST-ROSCH, Inc.
PROFESSIONAL DESIGN NUMBER: 154-00298

200 N. MARKET STREET
MARION, IL
PH: 618.998.0075

HILLSBORO, IL
EAST ST. LOUIS, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN



SIGNATURE: [Signature]
DATE: 05/08/2024
DATE: 11-30-2024
LICENSE EXPIRES

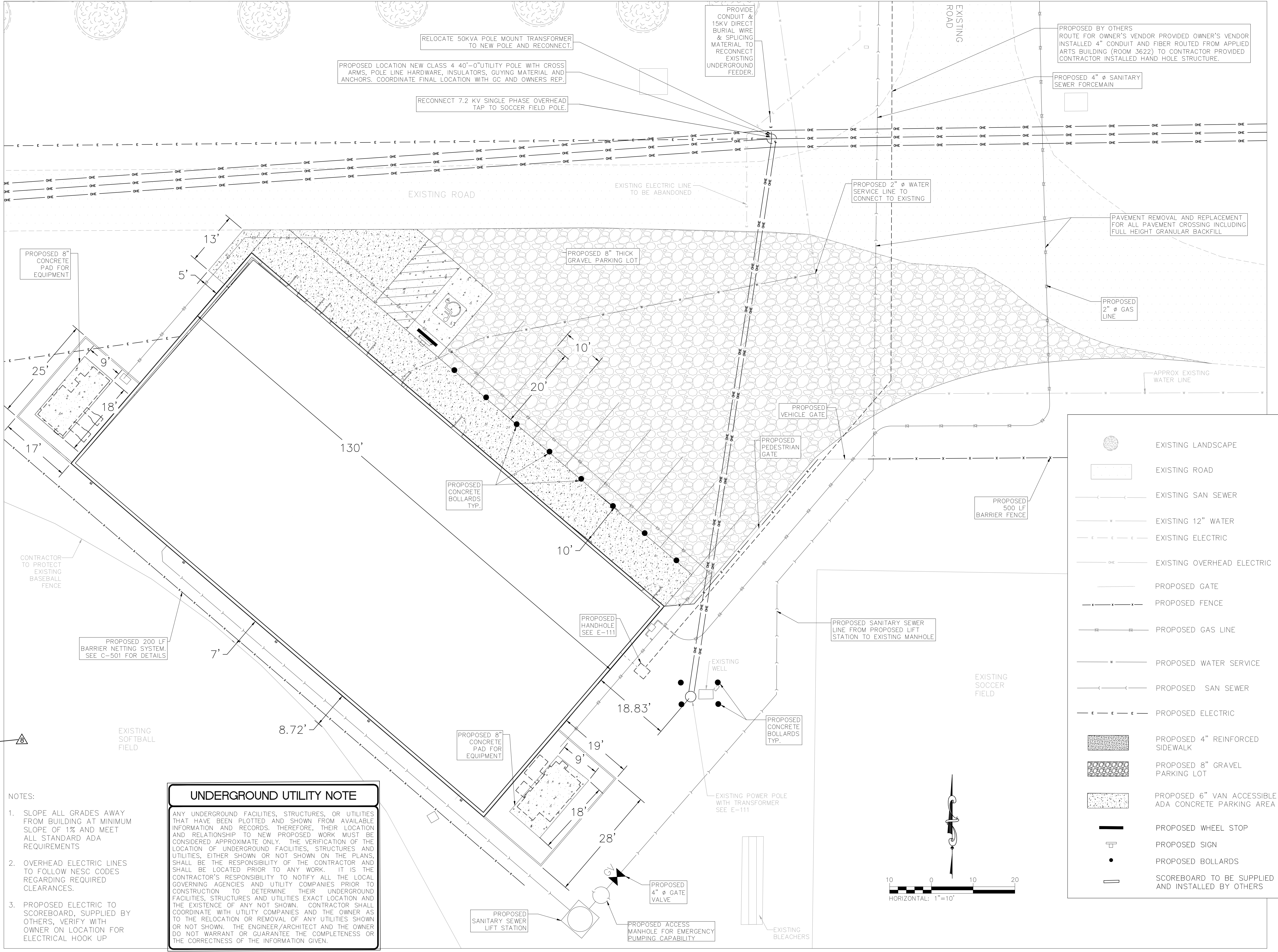
ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL, 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK	DATE	DESCRIPTION
07	05/08/24	ADDENDUM #01

DATE: 04/23/2024
PROJECT NO: 395-3272
DESIGN: H.R.I. DRAWN: H.R.I. CHECK: RWE

ABBREVIATIONS,
INDEX, NOTES, AND
ANNOTATIONS

G-002

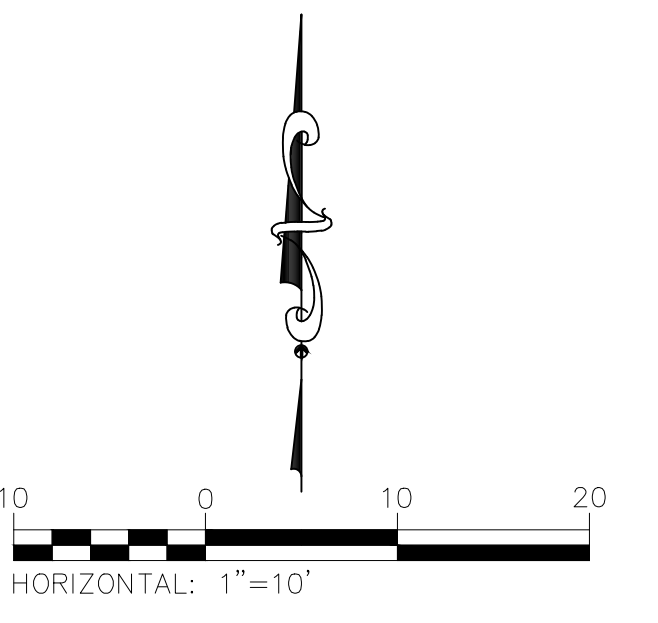


- NOTES:
1. SLOPE ALL GRADES AWAY FROM BUILDING AT MINIMUM SLOPE OF 1% AND MEET ALL STANDARD ADA REQUIREMENTS
 2. OVERHEAD ELECTRIC LINES TO FOLLOW NESC CODES REGARDING REQUIRED CLEARANCES.
 3. PROPOSED ELECTRIC TO SCOREBOARD, SUPPLIED BY OTHERS, VERIFY WITH OWNER ON LOCATION FOR ELECTRICAL HOOK UP

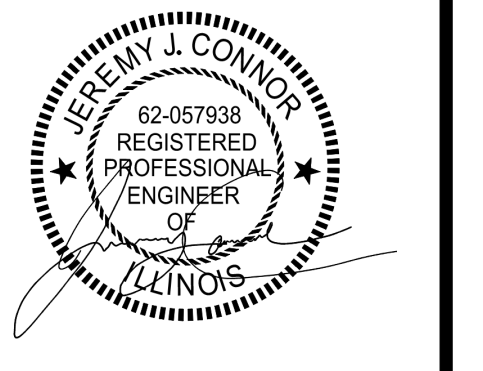
UNDERGROUND UTILITY NOTE

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS, THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER/ARCHITECT AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.

	EXISTING LANDSCAPE
	EXISTING ROAD
	EXISTING SAN SEWER
	EXISTING 12" WATER
	EXISTING ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	PROPOSED GATE
	PROPOSED FENCE
	PROPOSED GAS LINE
	PROPOSED WATER SERVICE
	PROPOSED SAN SEWER
	PROPOSED ELECTRIC
	PROPOSED 4" REINFORCED SIDEWALK
	PROPOSED 8" GRAVEL PARKING LOT
	PROPOSED 6" VAN ACCESSIBLE ADA CONCRETE PARKING AREA
	PROPOSED WHEEL STOP
	PROPOSED SIGN
	PROPOSED BOLLARDS
	SCOREBOARD TO BE SUPPLIED AND INSTALLED BY OTHERS



HR
Hurst-Rosche, Inc.
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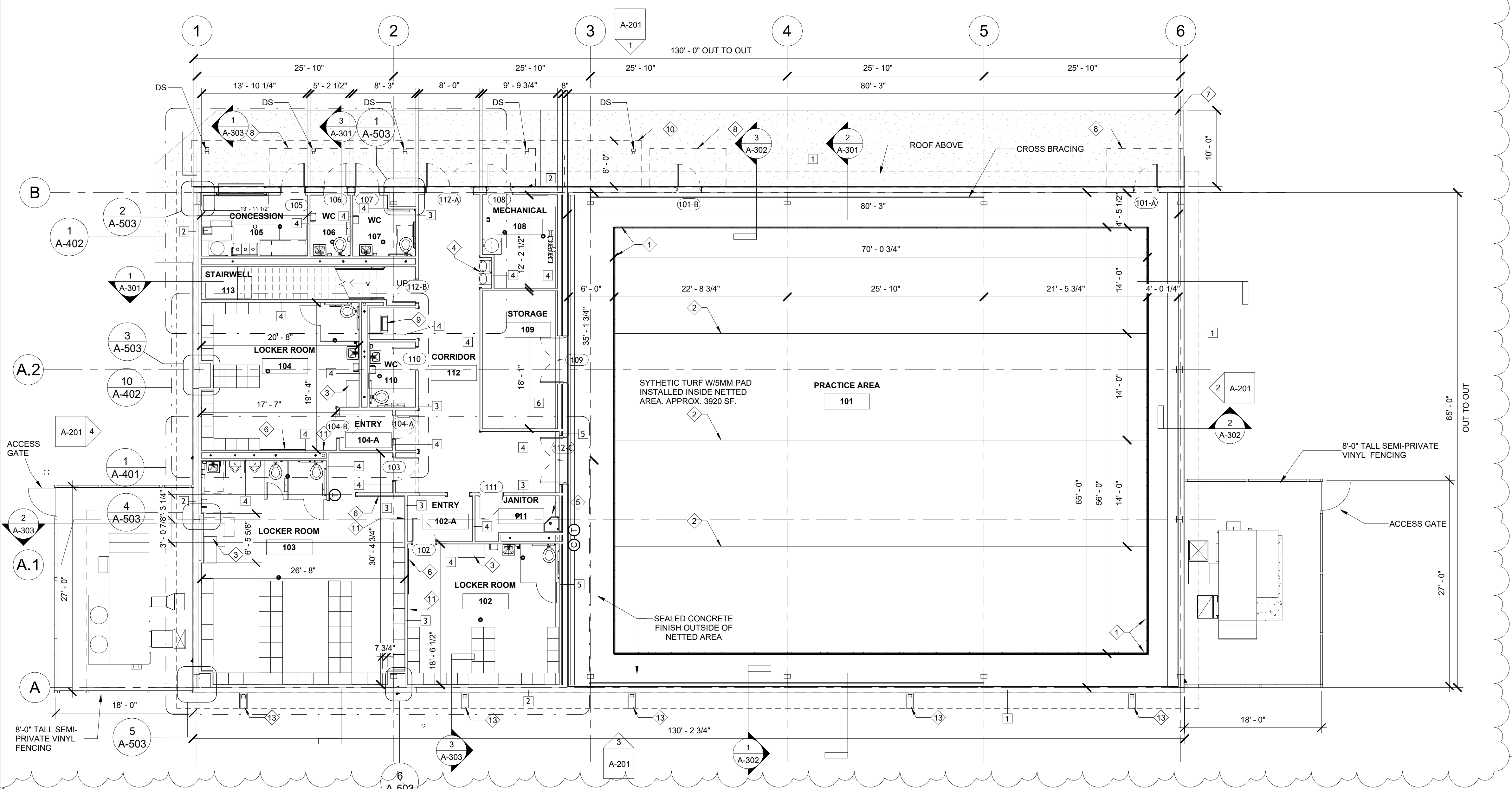
ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MK.	DATE	DESCRIPTION
08	05/08/24	ADDENDUM #01

DATE:
 PROJECT NO: 395-3272
 DESIGN: ZAY DRAWN: ZMS CHECK: JJC

SITE PLAN

C 101-A



- ### ARCHITECTURAL GENERAL NOTES
- PLAN DIMENSIONS ARE TO FACE OF STUD OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS - USE DIMENSIONS.
 - PLAN DIMENSIONS NOTED "WF" INDICATE THAT THIS DIMENSION IS TO WALL FINISH, RATHER THAN FACE OF STUD.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR THE SAME.
 - CONTRACTOR TO ADJUST WALL PLACEMENT TO ACCOMMODATE STRUCTURE AS NECESSARY. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
 - ALL DRAWINGS ARE FOR INFORMATIONAL PURPOSES.
 - ALL GYP. BD. IN LOCKER ROOMS & TOILETS TO BE MOLDMOISTURE RESISTANT.
 - PITCH FLOORS TO DRAIN AT LOCKER ROOMS, TOILET ROOMS, CONCESSION AREA, JANITOR'S CLOSET, AND MECHANICAL ROOM.
 - IF CANOPY AS SHOWN CAN BE SUPPORTED BY THE PRE-ENGINEERED METAL BUILDING, STEEL CANOPY SUPPORTS AND THEIR FOUNDATIONS MAY BE OMITTED.
 - COLUMNS SHOWN TO ILLUSTRATE SUGGESTED PLACEMENT IF REQUIRED TO SUPPORT CANOPY.
 - GC TO COORDINATE LOCATION OF STRUCTURAL STOOPS TO ALIGN WITH SIDEWALK CUT JOINTS.
 - ALL INTERIOR EXPOSED WALL CORNERS AND END OF WALLS TO RECEIVE CORNER GUARD/END-OF-WALL PROTECTION. FOR MORE INFORMATION SEE SPEC. # 10 26 00
 - DOWNSPOUTS NOT TO EXPEL ONTO SIDEWALK. GC TO PROVIDE UNDERGROUND CONNECTION WITH DAYLIGHTING BEYOND THE SIDEWALK.
- ### KEYED NOTES
- | Note Number | Note Content |
|-------------|---|
| 1 | STATIC PERIMETER NETTING |
| 2 | WALK-DRAW DIVIDER CURTAIN |
| 3 | ADA BENCH - TO BE INSTALLED PER ADA REQUIREMENTS. |
| 4 | DRINKING FOUNTAIN WITH BOTTLE FILLER - SEE P SHEETS FOR MORE INFORMATION |
| 5 | CORNER MOP SINK SEE P-SHEETS FOR MORE INFORMATION |
| 6 | 6'-0" X 4'-0" MARKER BOARD - FOR MORE INFORMATION SEE SPEC. 10 11 00 |
| 7 | SIDEWALK - SEE 6' A-501, C-SHEETS FOR MORE DETAILS |
| 8 | STRUCTURAL STOOP - SEE DETAIL 7/S-301, 6/A-501 |
| 9 | ICE MAKER - FOR MORE INFORMATION SEE SPEC. 11 40 00 |
| 10 | CANOPY BY PEMB MANUFACTURER |
| 11 | NOT USED ON THIS PAGE |
| 12 | NOT USED |
| 13 | DOWNSPOUT W/SPLASH BLOCK - FOR MORE INFORMATION SEE SPEC. #03 48 16 |
| 14 | PROVIDE SERVICE ACCESS PANEL FOR WATER HAMMER ARRESTORS. GC TO COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR |

HURST-ROSCHÉ, Inc.
PROFESSIONAL DESIGN NUMBER: 154-00298

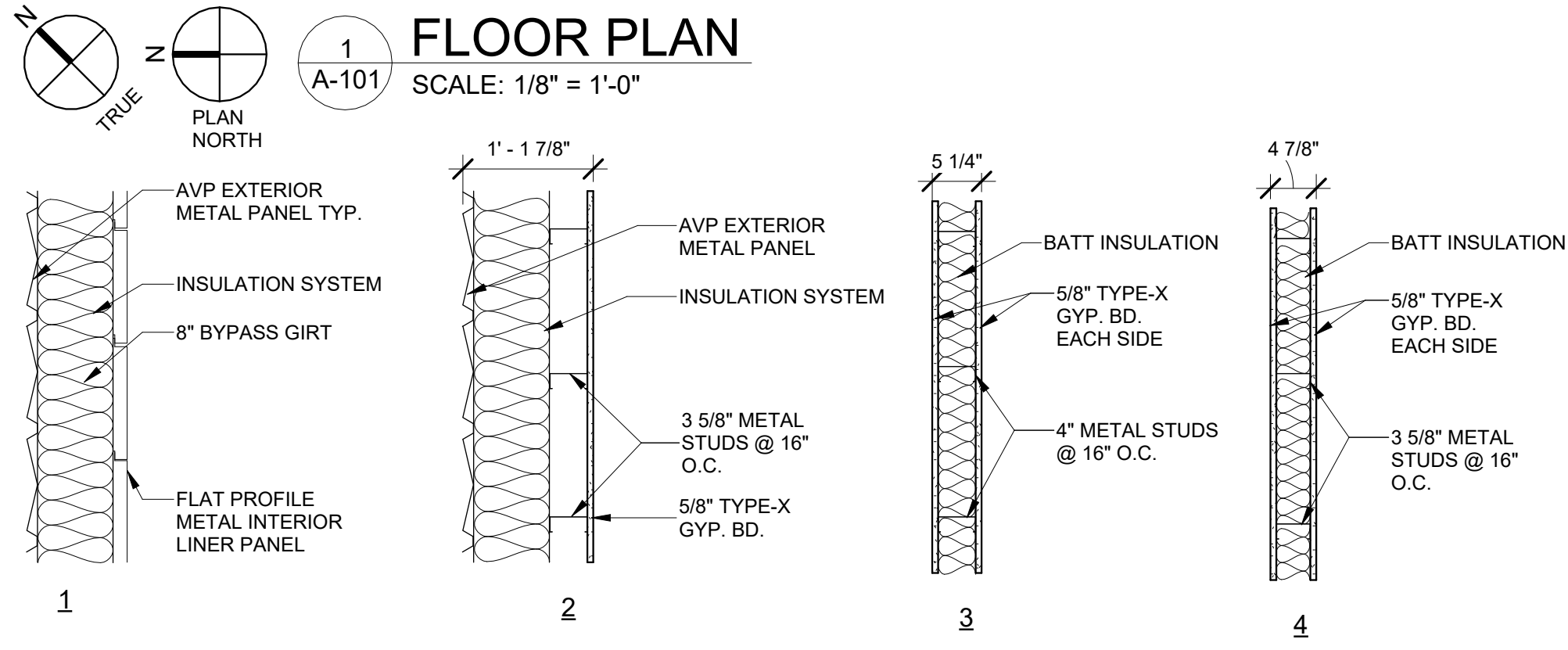
**200 N. MARKET STREET
MARION, IL
PH: 618.998.0075**

**HILLSBORO, IL
EAST ST. LOUIS, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN**

SIGNATURE: *Ralph W. Eide II* 05/08/2024
DATE: 11-30-2024
LICENSE EXPIRES:

FLOOR PLAN

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



GENERAL NOTES - DOOR SCHEDULE:

1. DOORS TO BE FACTORY PRIMED AND FIELD FINISHED. FINISH TO BE CONFIRMED WITH A/E.

DOOR LABEL - DOOR SCHEDULE:

1. B = 90 MINUTE FIRE PROTECTION
2. C = 45 MINUTE FIRE PROTECTION

COMMENTS - DOOR SCHEDULE:

1. THERMALLY BROKEN

INTERIOR SIGN SCHEDULE - DOOR SCHEDULE:

1. PROVIDE ADA ROOM IDENTIFICATION SIGNAGE - 4' x 6" - ROOM NUMBER
2. PROVIDE ADA REGULATORY SIGNAGE - 8' x 6" - ROOM NUMBER - PICTOGRAM - SYMBOL OF ACCESSIBILITY.

GLAZING SCHEDULE

See Spec Section 08 80 00 for more information.

- GL-1 - 1" INSULATED GLASS UNIT
- GL-2 - SAFETY GLASS
- GL-3 - FIRE RATED GLASS

DOOR SCHEDULE

MARK	ROOM	WIDTH	HEIGHT	DR. THICKNESS	DR. MATERIAL	DR. FINISH	DR. ELEV.	FR. MATERIAL	FR. FINISH	FR. ELEV.	HARDWARE	LABEL	HEAD	JAMB	SILL	SIGN	GLAZING	COMMENT
101-A	PRACTICE AREA	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	C	HM.	PT.	1	04	--	D	D	A	--	GL-1	1
101-B	PRACTICE AREA	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	C	HM.	PT.	1	04	--	D	D	A	--	GL-1	1
102	LOCKER ROOM	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	10	C	A	A	--	1	--	
103	LOCKER ROOM	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	10	C	A	A	--	1	--	
104-A	CORRIDOR	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	10	C	A	A	--	1	--	
104-B	LOCKER ROOM	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	05	C	A	A	--	--	--	
105	CONCESSION	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	02	--	C	C	A	--	--	1
106	WC	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	03	--	C	C	A	3	--	1
107	WC	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	03	--	C	C	A	2	--	1
108	MECHANICAL	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	02	--	C	C	A	--	--	1
109	STORAGE	6'-0"	7'-0"	0'-1 3/4"	HM.	PT.	(2) A	HM.	PT.	2	07	B	E	E	--	1	--	
110	WC	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	06	C	A	A	--	2	--	
111	JANITOR	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	A	HM.	PT.	1	09	C	A	A	--	1	--	
112-A	CORRIDOR	6'-0"	7'-0"	0'-1 3/4"	AL/GL	PF.	(2) B	AL/GL	PF.	2	01	C	C	C	A	--	GL-1	1
112-B	CORRIDOR	3'-0"	7'-0"	0'-1 3/4"	HM.	PT.	C	HM.	PT.	1	09	C	A	A	--	1	GL-2	
112-C	CORRIDOR	6'-0"	7'-0"	0'-1 3/4"	HM.	PT.	C	HM.	PT.	2	08	B	B	B	--	1	GL-3	

ROOM FINISH SCHEDULE

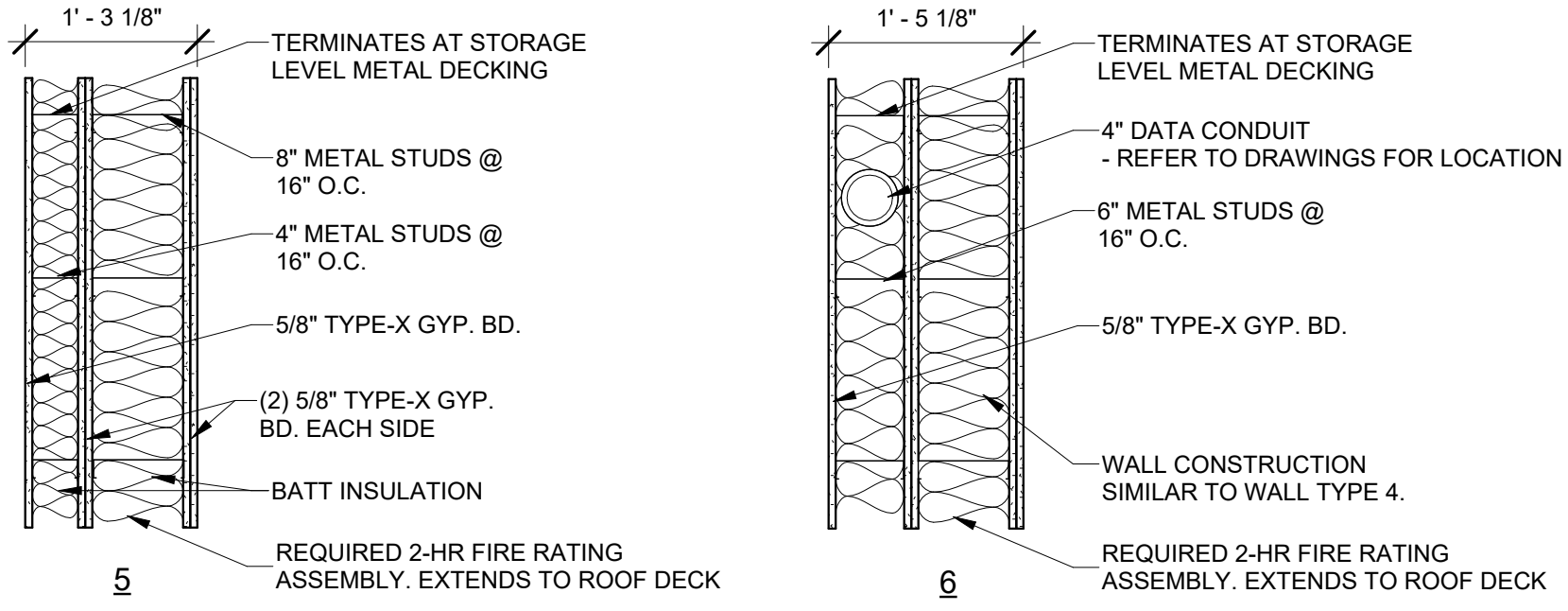
NUMBER	ROOM	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	FLOOR FINISH	BASE FINISH	CEILING FINISH	CEILING HEIGHT
101	PRACTICE AREA	GYP/PT	LINER PANEL	LINER PANEL	LINER PANEL	SL. /TURF	RB	FLS.	VARIES
102	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
102-A	ENTRY	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8'-6"
103	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
104	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
104-A	ENTRY	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8'-6"
105	CONCESSION	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
106	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
107	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
108	MECHANICAL	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	N/A	8'-6"
109	STORAGE	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8'-6"
110	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8'-6"
111	JANITOR	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8'-6"
112	CORRIDOR	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8'-6"
113	STAIRWELL	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	N/A	N/A
201	STORAGE	FLS.	FLS.	GYP/PT	FLS.	PT.	--	FLS.	VARIES

GENERAL NOTES - ROOM FINISH SCHEDULE:

ABBREVIATIONS ROOM FINISH SCHEDULE:

- ACT-1 ACOUSTIC CEILING TILE: TYPE 1
- ACT-2 ACOUSTIC CEILING TILE: TYPE 2
- FLS FABRIC INSULATION LINER SYSTEM
- GYP. GYPSUM BOARD
- PT. PAINT
- R.B. RUBBER BASE
- SL SEALER
- TURF SYNTHETIC GRASS SURFACING

WALL TYPES - DETAILS



ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL, 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK	DATE	DESCRIPTION
09	05/08/24	ADDENDUM #01

DATE: 04/23/2024
PROJECT NO: 395-3272
DESIGN: H.R.I. DRAWN: H.R.I. CHECK: RWE

FLOOR PLAN

A-101



HURST-ROSCHKE, Inc.
PROFESSIONAL DESIGN NUMBER: 154-000298

200 N. MARKET STREET
MARION, IL
PH: 618.998.0075

HILLSBORO, IL
EAST ST. LOUIS, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN



SIGNATURE: [Signature]
DATE: 05/08/2024
DATE: 11-30-2024
LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK	DATE	DESCRIPTION
10	05/08/24	ADDENDUM #01

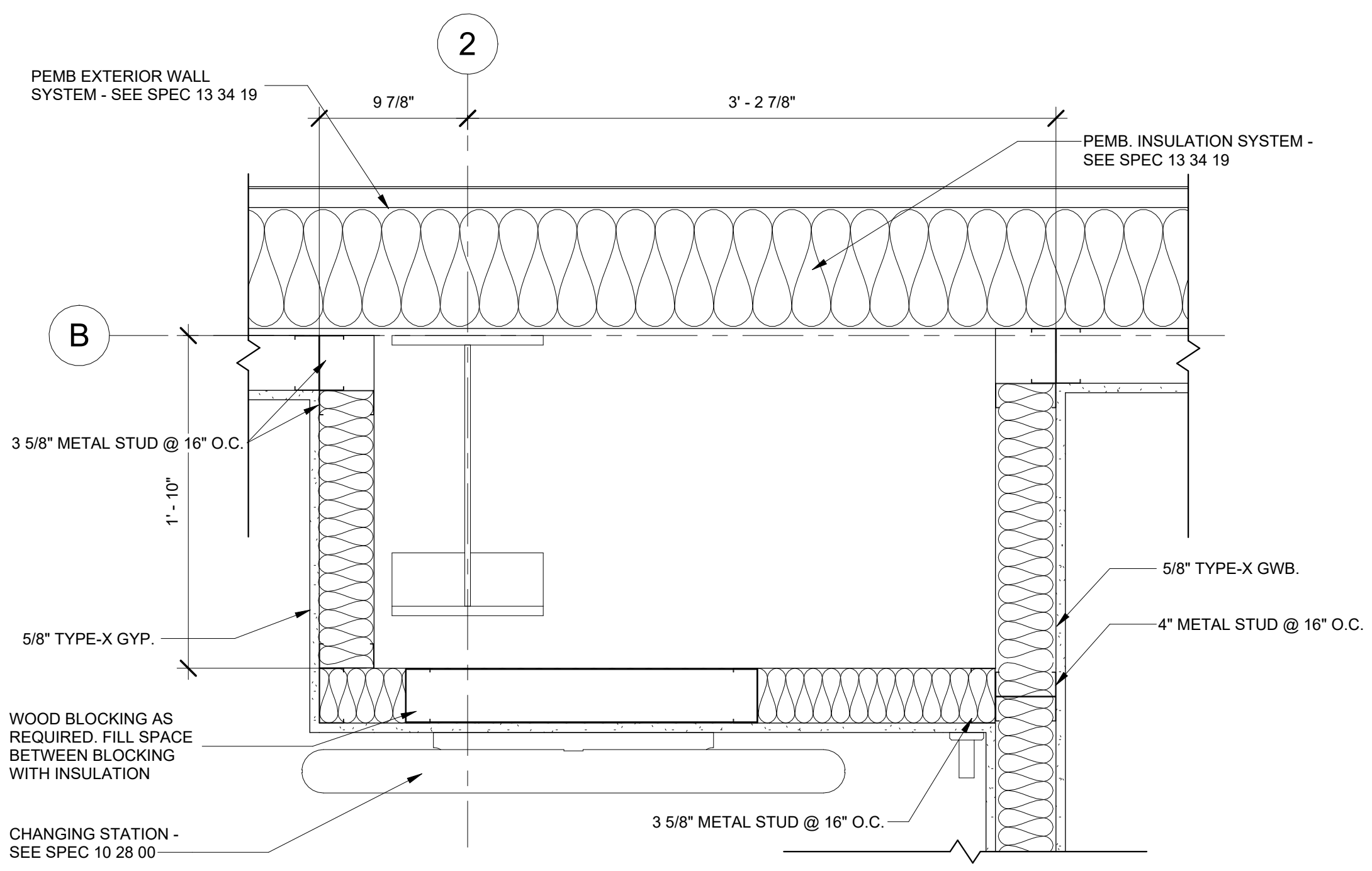
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PROJECT NO: 395-3272

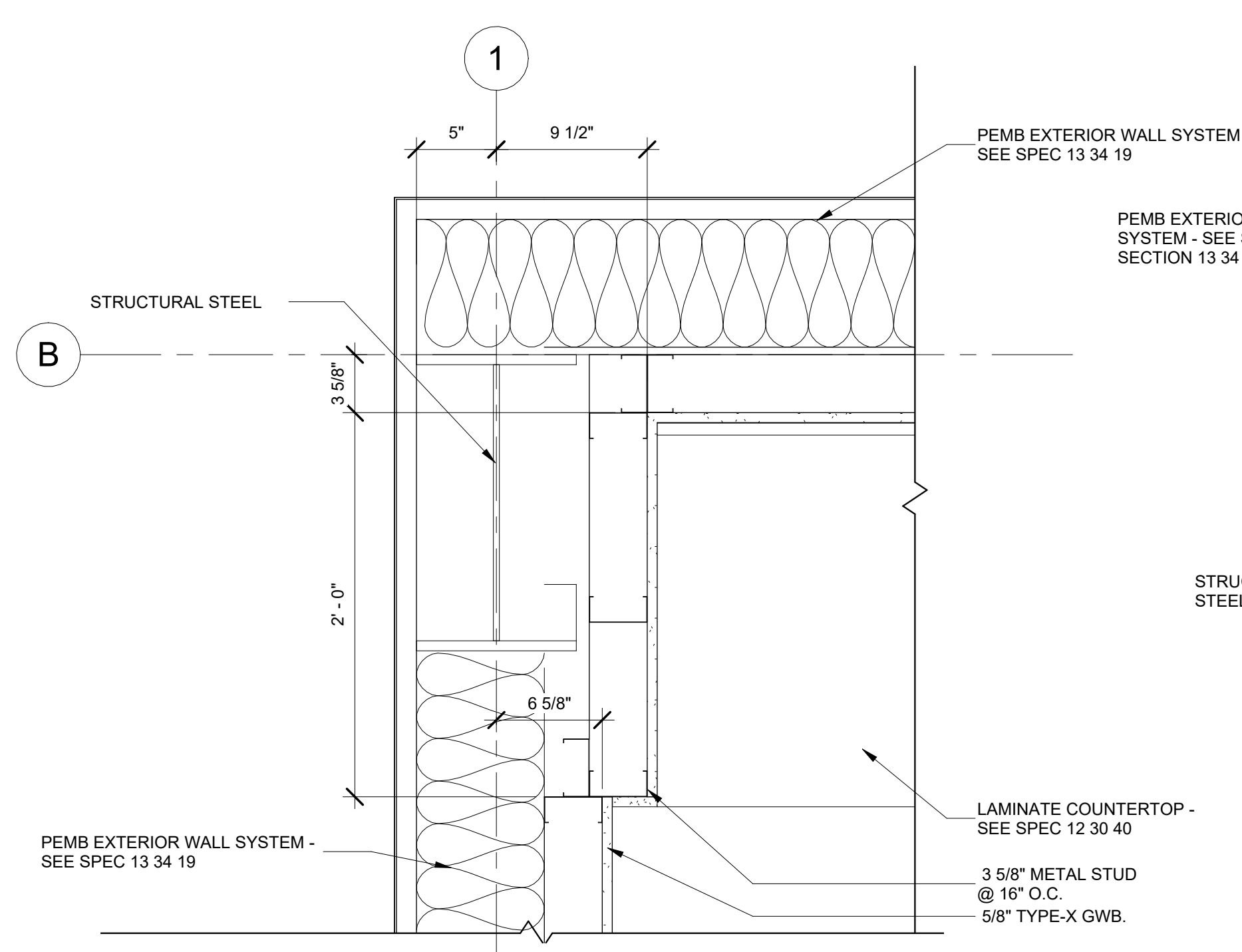
DESIGN: H.R.I. DRAWN: H.R.I. CHECK: RWE

COLUMN DETAILS

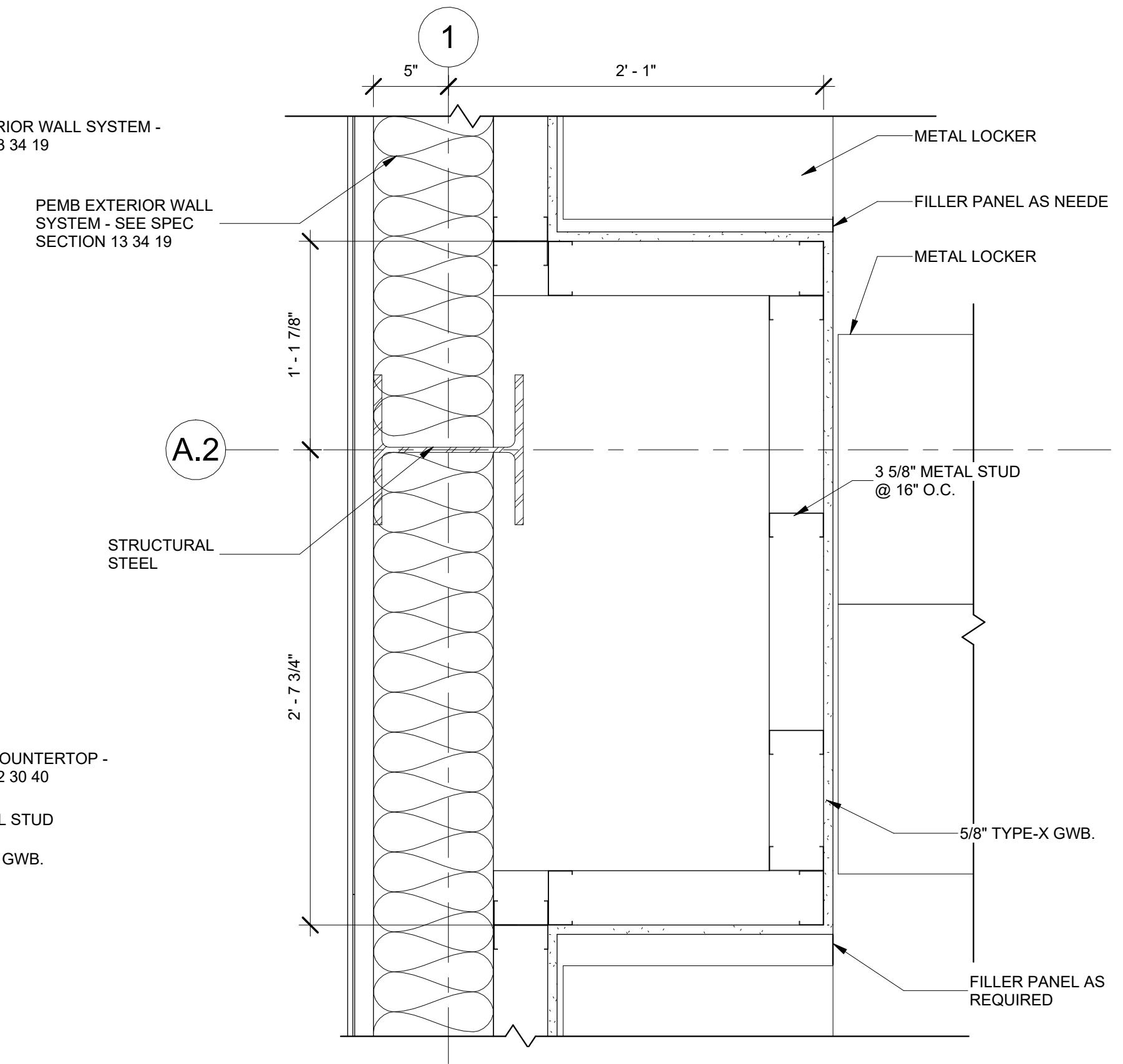
A-503



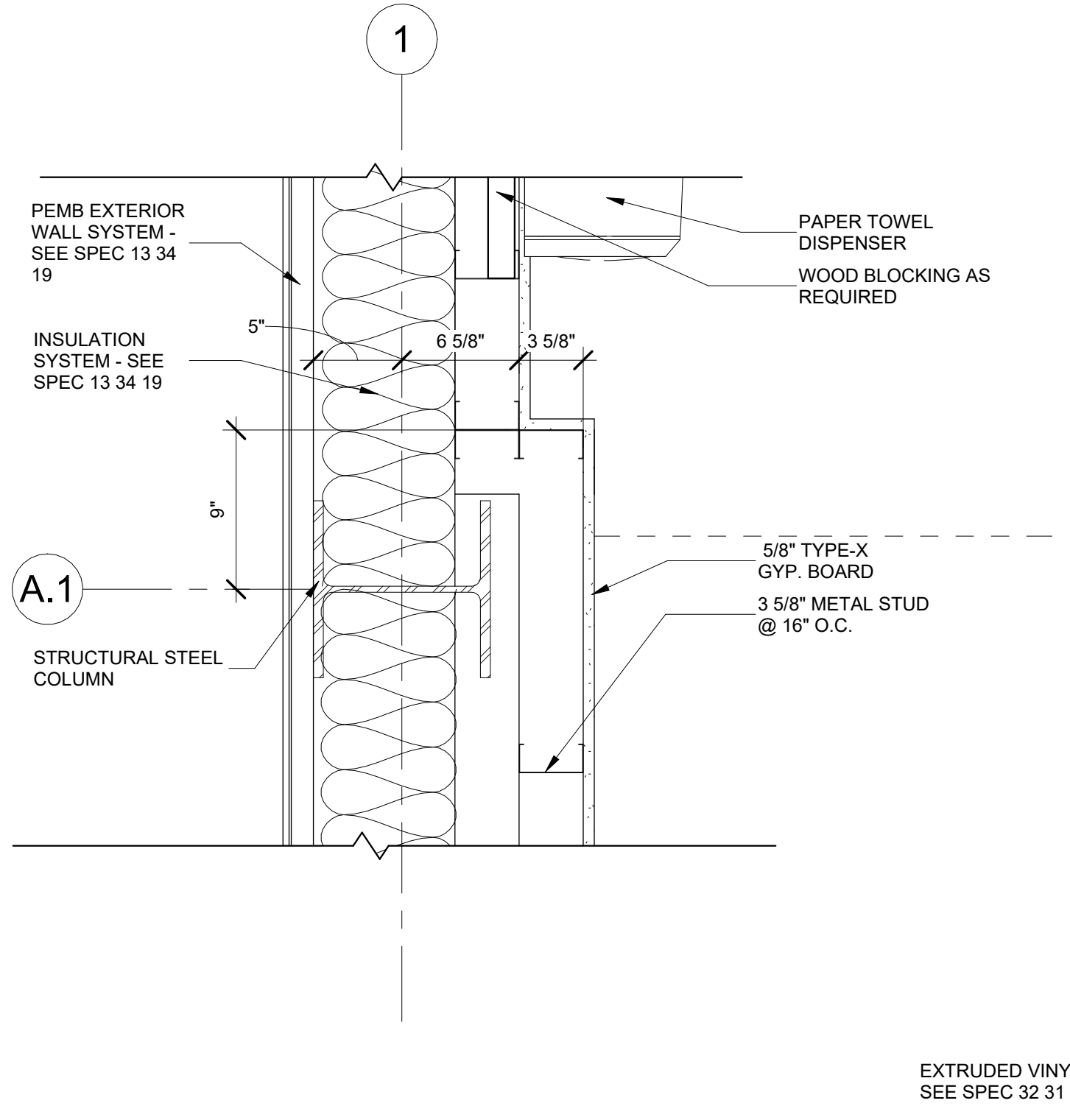
1 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"



2 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"

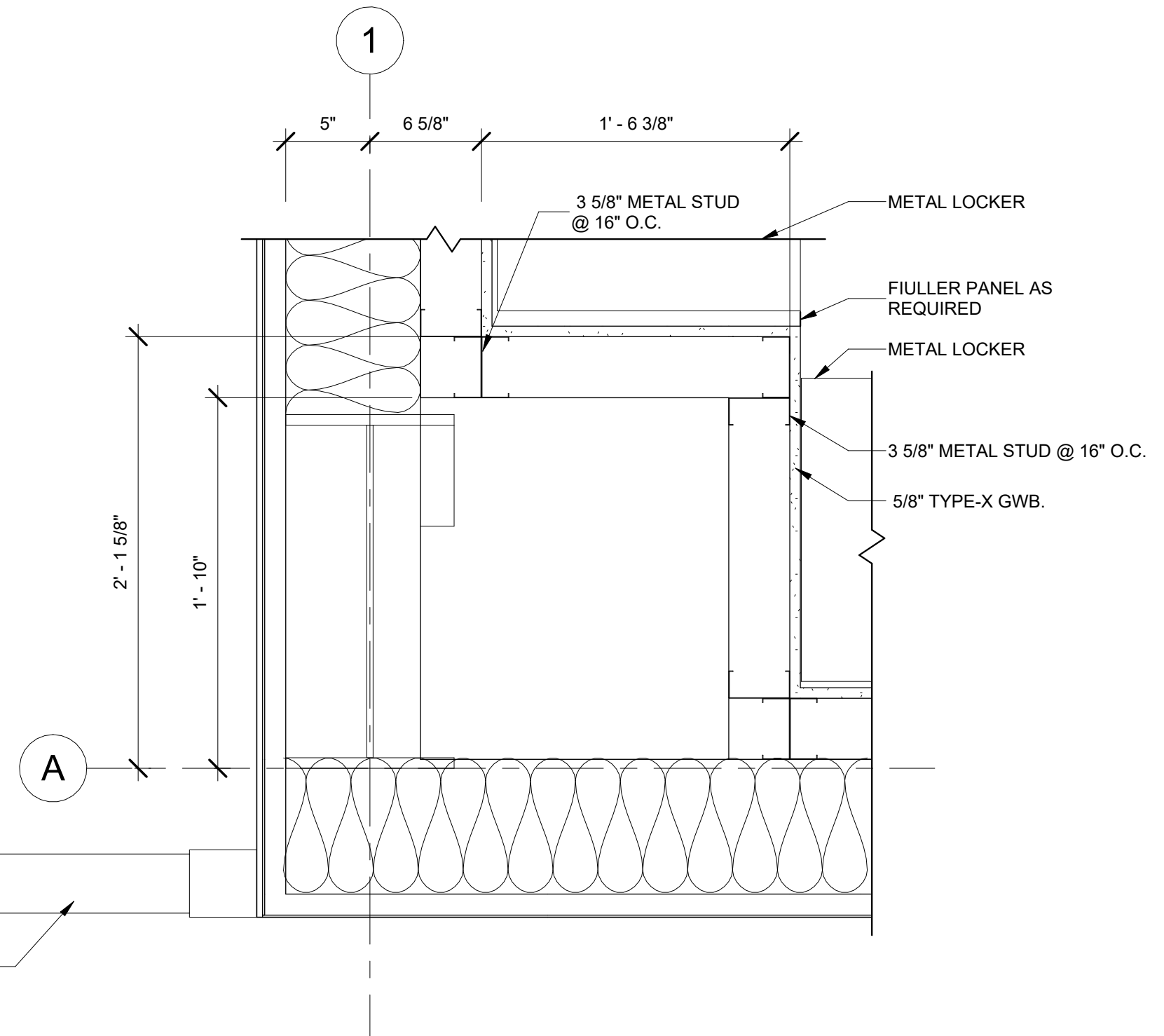


3 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"

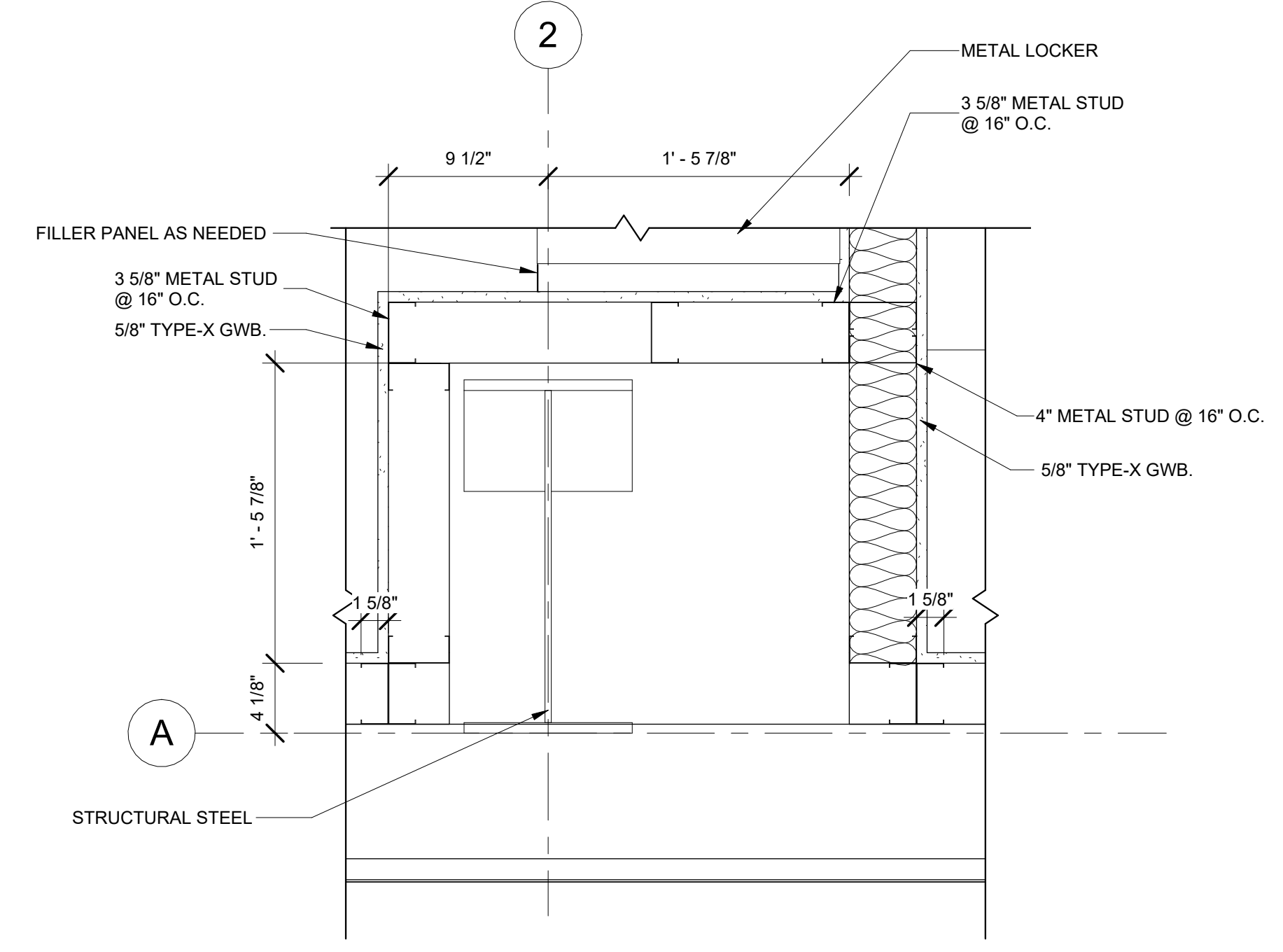


4 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"

EXTRUDED VINYL FENCING SYSTEM - SEE SPEC 32 31 23



5 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"



6 COLUMN DETAIL
A-503 SCALE 1 1/2" = 1'-0"

