ADDENDUM NO. 1

November 6, 2024

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT
Whiting, IN 46394

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated October 25, 2024 by Fanning Howey Associates, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Addendum No. 1 from Fanning Howey Associates, Inc. dated November 5, 2024 and consisting of 3 pages, Specifications Section 05 52 13 - Pipe and Tube Railings, revised Specification Section 06 10 00 - Rough Carpentry, Specifications Section 08 12 13 - Hollow Metal Frames, Specifications Section 08 14 16 - Flush Wood Doors, Specifications Section 09 01 61.91 - Wood Flooring Restoration, Specifications Section 09 84 33.13 - Abuse-Resistant Sound-Absorbing Wall Units, and 15 drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **Add:**

   Specification Section 05 52 13 - Pipe and Tube Railings
   Specification Section 08 12 13 - Hollow Metal Frames
   Specification Section 08 14 16 - Flush Wood Doors
   Specification Section 09 01 61.91 - Wood Flooring Restoration
   Specification Section 09 84 33.13 - Abuse-Resistant Sound-Absorbing Wall Units

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

A. BID CATEGORY NO. 1 – GENERAL TRADES

1. **Add:**

Specification Section 05 52 13 - Pipe and Tube Railings
Specification Section 08 12 13 - Hollow Metal Frames
Specification Section 08 14 16 - Flush Wood Doors
Specification Section 09 01 61.91 - Wood Flooring Restoration
Specification Section 09 84 33.13 - Abuse-Resistant Sound-Absorbing Wall Units

B. BID CATEGORY NO. 2 – ROOFING

1. **Add:**

Clarification No. 7:
The Bid Category No. 2 Contractor shall include in their base bid, work associated with Alternate No. 3. This scope is located in The Skillman Corporation Project Number 223190.01 and Fanning Howey Associates Project Number 224023.01 – Whiting High School Auditorium Improvements Project.

C. BID CATEGORY NO. 3 – METAL STUDS/DRYWALL & CEILINGS

1. **Add:**

Clarification No. 4:
The **Bid Category No. 3 Contractor** is to include in their bid, all work associated with the temporary classroom construction; this shall include but not limited to, insulated partitions, landing and ramps, and temporary bracing. All the temporary measures provided in this space shall be removed and properly disposed of by the **Bid Category No. 3 Contractor**.

A D D E N D U M N O. 1

Whiting Middle School – Roof Replacement

School City of Whiting
Whiting, Indiana

Project No. 224151.00

Index of Contents

Addendum No. 1, 9 items, 3 pages
New Project Manual Sections: 05 52 13 – Pipe and Tube Railings, 08 12 13 – Hollow Metal Frames, 08 14 16 – Flush Wood Doors, 09 01 61.91 – Wood Flooring Restoration, and 09 84 33.13 – Abuse-Resistant Sound-Absorbing Wall Units
Revised Project Manual Sections: 06 10 00 – Rough Carpentry
New Drawing Sheets: A1.01 – First Floor Fire and Life Safety Plan, AF1.1A – Unit A First Floor Finish & Equipment Plan, AF2.02 – Interior Elevations, ED1.1A – Unit A First Floor Demolition Plan, EP1.1A – Unit A First Floor Power Plan, and T1.1A – Unit A First Floor Technology Plan
Revised Drawing Sheets: Cover, A1.00, A1.03, AD1.3A, A1.1A, A1.3A, AC1.3A, AF1.3A, and AF6.01

Date: November 5, 2024

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated October 25, 2024, for Whiting Middle School – Roof Replacement for School City of Whiting, 1500 Center Street, Whiting, Indiana 46394; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

A. Page 00 01 10 -1, DIVISION 05: Add Section 05 52 13 – Pipe and Tube Railings.

B. Page 00 01 10-1, Add DIVISION 08: Add Sections 08 12 13 – Hollow Metal Frames, and 08 14 16 – Flush Wood Doors.

C. Page 00 01 10-1, DIVISION 09: Add Sections 09 01 61.91 – Wood Flooring Restoration and 09 84 33.13 – Abuse-Resistant Sound-Absorbing Wall Units.

ITEM NO. 2. REVISED PROJECT MANUAL SECTIONS

A. Section 06 10 00 – Rough Carpentry has been revised, dated 11/5/24, and (is/are) included with and hereby made a part of this Addendum.

ITEM NO. 3. NEW PROJECT MANUAL SECTIONS

A. New Project Manual Sections: 05 52 13 – Pipe and Tube Railings, 08 12 13 – Hollow Metal Frames, 08 14 16 – Flush Wood Doors, 09 01 61.91 – Wood Flooring Restoration, and 09 84 33.13 – Abuse-Resistant Sound-Absorbing Wall Units are included with and hereby made a part of this Addendum.

ITEM NO. 4. PROJECT MANUAL, SECTION 06 41 16 – PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

A. Article 2.9, A., 9.: Change “MDF” to “MDO” within paragraph.

ITEM NO. 5. PROJECT MANUAL, SECTION 09 21 16 – GYPSUM BOARD ASSEMBLIES

A. Add 1.1, A., 1., b., as follows:

“b. Prefinished Gypsum Board for temporary classrooms.”

B. Add 2.1, A., 4., as follows:

"4. Prefinished Gypsum Board: Durasan Prefinished Gypsum Board by National Gypsum."

C. Add 2.6, D., as follows:

"D. Prefinished Gypsum Board: 1/2 inch vinyl covered gypsum panels, ASTMC C 1396.
1. Pattern: Durasan Santa Fe or Harvest.
2. Color: A/E will select from the manufacturer's 5 standard colors from Group 2 and Group 3.
3. Matching Trim: End caps required at all exposed ends of panels."

D. Add 2.7, I., as follows:

"I. Sill-Sealer Gaskets: Provide one of the following:
1. Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to suit width of sill members indicated."
2. Location: Under walls used for temporary classrooms."

E. Add 3.3, C., as follows:

"C. At temporary classroom walls, install sill sealer gasket to form continuous seal between sill plate and floor substrate."

ITEM NO. 6. PROJECT MANUAL, SECTION 09 68 13 – TILE CARPETING

A. Add 2.4, D., as follows:

"D. Tile Connectors: Manufacturer' standard acrylic adhesive applied to PET polyester backing with release liner. Units are clear 3"x3" square, similar to Interface TacTiles."

B. Add 3.3, H., as follows:

"H. Temporary Classrooms: At temporary classroom location, install carpet tile with manufacturer's adhesive connecting squares to connect carpet tile modules together without need for full adhesive on substrate. Comply with manufacturer's written installation instructions."

ITEM NO. 7. PROJECT MANUAL, SECTION 23 09 93 – HVAC SEQUENCE OF OPERATION

A. Change title of Section at top of first page to "HVAC SEQUENCE OF OPERATION" in lieu of "Operational Sequences".

ITEM NO. 8. NEW DRAWING SHEETS

A. Drawing Sheet No's.: A1.01 – First Floor Fire and Life Safety Plan, AF1.1A – Unit A First Floor Finish & Equipment Plan, AF2.02 – Interior Elevations, ED1.1A – Unit A First Floor Demolition Plan, EP1.1A – Unit A First Floor Power Plan, and T1.1A – Unit "A" First Floor Technology Plan are included with and hereby made a part of this Addendum.

ITEM NO. 9. REVISED DRAWING SHEETS

A. Drawing Sheets: Cover, A1.00, A1.03, AD1.3A, A1.1A, A1.3A, AC1.3A, AF1.3A, and AF6.01 have been revised, dated 11/5/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

SECTION 05 52 13 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Steel pipe and tube railings.

B. Related Sections include the following:
   1. Division 06 Section "Rough Carpentry" for wood blocking for anchoring railings.
   2. Division 09 Section "Gypsum Board Assemblies" for metal backing for anchoring railings.

1.2 COORDINATION AND SCHEDULING

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

C. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not satisfy structural performance requirements.

1.3 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to the following:
   1. AWS D1.1, "Structural Welding Code--Steel."

1.4 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate measurements on Shop Drawings.
   1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating railings without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
   2. Provide allowance for trimming and fitting at site.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Deliver materials to the job site in good condition and properly protected against damage to finished surfaces.

C. Storage on Site
   1. Store material in a location and in a manner to avoid damage. Stacking shall be done in a way which will prevent bending.
   2. Store aluminum, bronze, and stainless steel components and materials in a clean, dry location, away from uncured concrete and masonry. Cover with waterproof paper, tarpaulin or polyethylene sheeting in a manner that will permit circulation of air inside the covering.

D. Keep handling on site to a minimum. Exercise particular care to avoid damage to finishes of materials.
   1. Refer to NAAMM Manual AMP 555-92, Code of Standard Practice for the Architectural Metal Industry, Sections 6 and 7.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. Requests for Architect/Engineer's approval must be accompanied by the "Substitution Request Form" and complete technical data for evaluation. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 PERFORMANCE REQUIREMENTS

A. General: In engineering railings and posts to withstand structural loads indicated, determine allowable design working stresses of railing materials based on the following:
   1. Steel: 72 percent of minimum yield strength.

B. Structural Performance: Provide railings capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
   1. Handrails and Top Rails of Guards:
      a. Uniform load of 50 lbf/ ft. applied in any direction.
      b. Concentrated load of 200 lbf applied in any direction.
      c. Uniform and concentrated loads need not be assumed to act concurrently.
   2. Infill of Guards:
      a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft.
      b. Infill load and other loads need not be assumed to act concurrently.

2.3 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails, unless otherwise indicated.
   1. Provide bracket that provides 1-1/2 inch clearance from inside face of handrail to finished wall surface.

2.4 STEEL AND IRON

A. Tubing: ASTM A 500 (cold formed) or ASTM A 513.

B. Pipe: ASTM A 53, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.

C. Plates, Shapes, and Bars: ASTM A 36.

D. Castings: Either gray or malleable iron, unless otherwise indicated.
   1. Gray Iron: ASTM A 48, Class 30, unless another class is indicated or required by structural loads.
   2. Malleable Iron: ASTM A 47.

2.5 FASTENERS

A. General: Provide the following:
   1. Steel Railings: Plated steel fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating.
   2. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:
   1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.

D. Brackets, Flanges, Fittings and Anchors: Provide wall brackets, end closures, flanges, miscellaneous fittings, and anchors for interconnections of pipe and attachment of handrails and guards to other work. Furnish inserts and other anchorage devices for connecting handrails and guards to concrete and masonry work.
   1. Wall Bracket: Cast ductile iron wall mount handrail bracket with a projection of 2-1/2 inch. Bracket shall have one 7/16 inch mounting hole, 1-1/2 inch drop and round saddle with two countersunk mounting holes.
      a. Manufacturers
         1) Julius Blum & Co.
         2) R&B Wagner, Inc.
         3) J.G. Braun Co.
   2. At brackets and fittings fastened to plaster or gypsum board partitions, provide fillers made from crush resistant material, or other means to transfer wall loads through wall finishes to structural supports and prevent bracket of fitting rotation and crushing of substrate.
   3. Ease corners and edges of brackets. Brackets shall not have sharp edges.

2.6 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI #79 and compatible with topcoat.

2.7 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.

B. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.
   1. Clearly mark units for reassembly and coordinated installation.
   2. Use connections that maintain structural value of joined pieces equally spaced per code requirements between top rail and finish floor or nosing line of tread.
   3. Locate intermediate rails.

C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch, unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

D. Form work true to line and level with accurate angles and surfaces.

E. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.

F. Connections: Fabricate railings with either welded or nonwelded connections, unless otherwise indicated.

G. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
      a. Do not weld aluminum.
   2. Obtain fusion without undercut or overlap.
   3. Remove flux immediately.
   4. Weld exposed corners and seams continuously, unless otherwise indicated.
   5. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 2 welds; completely sanded joint, some undercutting and pinholes okay.

H. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
   1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.

I. Form changes in direction as follows:
   1. By bending or by inserting prefabricated elbow fittings.

J. Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

K. Close exposed ends of railing members with prefabricated end fittings or by welding metal closure in place.

L. Provide wall returns at ends of wall-mounted handrails, unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch or less.

M. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work, unless otherwise indicated.
   1. At brackets and fittings fastened to plaster or gypsum board partitions, provide fillers made from crush-resistant material, or other means to transfer wall loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.

N. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work.
   1. Fabricate anchorage devices capable of withstanding loads imposed by railings.
   2. Coordinate anchorage devices with supporting structure.

2.8 STEEL AND IRON FINISHES

A. For nongalvanized steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves, except galvanize anchors to be embedded in exterior concrete or masonry.

B. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with minimum requirements indicated below for SSPC surface preparation specifications and environmental exposure conditions of installed railings:
   1. Other Railings: SSPC-SP3, "Power Tool Cleaning."

C. Apply shop primer to prepared surfaces of railings, unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.
   1. Do not apply primer to galvanized surfaces.
   2. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements have been clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION, GENERAL

A. Fit exposed connections together to form tight, hairline joints.

B. Perform cutting, drilling, and fitting required for installing railings.
   1. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
   2. Fit exposed connections together to form tight, hairline joints.
   3. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
   4. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
   5. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
   6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

C. Corrosion Protection: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
   1. Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

D. Adjust railings before anchoring to ensure matching alignment at abutting joints.

E. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.3 RAILING CONNECTIONS

A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws using plastic cement filler colored to match finish of railings.

B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in Part 2 "Fabrication" Article whether welding is performed in the shop or in the field.

C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side, fasten internal sleeve securely to 1 side, and locate joint within 6 inches of post.
   1. Steel: Provide expansion joints on straight runs exceeding 40 feet.

3.4 ATTACHING HANDRAILS TO WALLS

A. Attach handrails to wall with wall brackets. Provide brackets with 1-1/2-inch clearance from inside face of handrail and finished wall surface.
   1. Use type of bracket with predrilled hole for exposed bolt anchorage.

B. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
   1. Steel Pipes: Spacing shall not be more than 6 feet.

C. Secure wall brackets to building construction as follows:
   1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
   2. For hollow masonry anchorage, use toggle bolts.
   3. For steel-framed gypsum board partitions, fasten brackets either directly to steel framing or concealed steel reinforcements using self-tapping screws of size and type required to support structural loads or with toggle bolts installed through flanges of steel framing or through concealed steel reinforcements or use hanger or lag bolts set into fire-retardant-treated wood backing between studs.

3.5 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
   1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

3.6 PROTECTION

A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION 05 52 13

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Framing with dimension lumber.
   2. Wood blocking and nailers.
   3. Miscellaneous plywood.

B. Related Sections include the following:
   1. Division 05 Section “Metal Fabrications” for post-installed anchors.
   2. Division 26 Section “General Electrical Panels” for plywood backing panels.

1.2 DEFINITIONS

A. Exposed Framing: Framing not concealed by other construction.

B. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.

C. Timber: Lumber of 5 inches nominal or greater in least dimension.

D. Boards or Strips: Lumber of less than 2 inches nominal size in least dimension.

E. Lumber grading agencies, and the abbreviations used to reference them, include the following:
   1. NeLMA: Northeastern Lumber Manufacturers' Association.
   2. NLGA: National Lumber Grades Authority.
   3. RIS: Redwood Inspection Service.
   4. SPIB: The Southern Pine Inspection Bureau.
   5. WCLIB: West Coast Lumber Inspection Bureau.
   6. WWPA: Western Wood Products Association.

1.3 PREINSTALLATION CONFERENCE

A. Preinstallation Conference: Conduct conference at Project site, unless otherwise noted. Attendees shall include installers whose work requires in-wall blocking.
   1. Review in-wall blocking.
   2. Distribute information on items furnished by the Owner and installed by the Contractor.

1.4 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant-treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

B. Environmental Conditions:
   1. Preservative treatment shall not contain hazardous materials as arsenic or chromium. Chromated copper arsenate (CCA) and ammoniacal copper zinc arsenate (ACZA) shall not be used.
   2. Composite wood products shall be labeled or show compliance with the Toxic Substances Control Act (TSCA) Title VI.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

1.6 FIELD CONDITIONS

A. Installer must examine the substrates and supporting structure and the conditions under which the Carpentry Work is to be installed; and notify the A/E in writing of conditions detrimental to the Work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

B. Coordination: Fit Carpentry Work to other work; scribe and cope as required for accurate fit. Correlate location of furring, nailers, blocking, grounds, and similar supports to allow proper attachment of other work.
   1. Contractor shall confirm with roofing system manufacturer that adhesives come into contact with roof membrane are compatible and acceptable.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
   1. Factory mark each piece of lumber with grade stamp of grading agency.
   2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece.
   3. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
   4. Provide dressed lumber, S4S, unless otherwise indicated.

B. Maximum Moisture Content of Lumber: 19 percent.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER (WPTL)

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
   1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
      a. Unless otherwise noted: Use one of the following formulations of inorganic boron.
         1) Sodium-octaborate (SBX) or disodium-octaborate-tetrahydrate (DOT).
         2) Zinc borates (ZB) for treating engineered wood or wood composites during the manufacturing process.
      b. For sleepers sill plates and for wood that will be installed in a location where it will be in contact with the ground or will be exposed to liquid water (continuously or periodically), use one of the following copper formulations:
         1) Alkaline-copper-quat (quaternary ammonium) (ACQ)
         2) Copper azole, Type B (CA-B).
         3) Micronized Copper Azole (MCA).

B. Kiln-dry or air-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat items indicated on Drawings, and the following:
   2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.
   3. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 FIRE-RETARDANT-TREATED MATERIALS (FRTM)

A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
   1. Use treatment that does not promote corrosion of metal fasteners.
   2. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
   3. Design Value Adjustment Factors: Treated lumber shall be tested according ASTM D 5664 and design value adjustment factors shall be calculated according to ASTM D 6841.

C. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.

D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

E. Application: Treat all rough carpentry, unless otherwise indicated

2.4 DIMENSION LUMBER FRAMING

A. Joists, Rafters, and Other Framing by Performance: Any species and grade with a modulus of elasticity of at least 1,500,000 psi and an extreme fiber stress in bending of at least 850 psi for 2-inch nominal thickness and 12-inch nominal width for single-member use.

2.5 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
   1. Blocking.
   2. Nailers.

B. For items of dimension lumber size, provide Standard, Stud, or No. 3 grade lumber with 19 percent maximum moisture content of any species.
   1. Provide No. 2 grade Douglas Fir or Southern Yellow Pine nailers associated with roofing and roof flashing.

C. For concealed boards, provide lumber with 19 percent maximum moisture content and any of the following species and grades:
   1. Mixed southern pine, No. 3 grade; SPIB.
   2. Hem-fir or hem-fir (north), Standard or 3 Common grade; NLGA, WCLIB, or WWPA.
   3. Spruce-pine-fir (south) or spruce-pine-fir, Standard or 3 Common grade; NeLMA, NLGA, WCLIB, or WWPA.

D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.6 MISCELLANEOUS PLYWOOD PANELS

A. General: Where plywood panels will be used for the following concealed types of applications, provide APA performance rated panels complying with requirements indicated for grade designation, span rating, exposure durability classification, edge detail (where applicable), and thickness.
   1. Plywood Shims, Nailers, and Blocking for Roof Insulation Stops: Shall be APA UNDERLAYMENT C-C PLUGGED EXT.
   2. Plywood Wall Sheathing: Exposure 1, Structural I sheathing (CDX).
      a. Span Rating: Not less than 24/0.
      b. Nominal Thickness: Not less than 5/8 inch, unless indicated otherwise.
      c. Utilize this plywood wall sheathing with fire retardant treatment at floor opening infill.

B. Plywood Combination Subfloor-Underlayment: DOC PS 1, Exposure 1, Structural I, Underlayment single-floor panels.
   1. Span Rating: Not less than 24 o.c.
   2. Nominal Thickness: Not less than 7/8 inch.
   3. Edge Detail: Tongue and groove.
   4. Surface Finish: Fully sanded face.

2.7 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
   1. Where rough carpentry is exposed to weather, in ground contact, preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153 or of Type 304 stainless steel.
      a. Provide Class D coating for fasteners 3/8-inch diameter and less. Provide Class C coating for larger fasteners.

B. Nails, Brads, and Staples: ASTM F 1667.

C. Power-Driven Fasteners: ICC-ES AC70.
   1. Exception: Powder-activated/actuated fasteners that involve a projectile propelled by a charge of carbon-dioxide or gun powder are not allowed.

D. Wood Screws: ASME B18.6.1.

E. Screws for Fastening to Metal Framing: ASTM C 1002, length as recommended by screw manufacturer for material being fastened.

F. Lag Bolts: ASME B18.2.1.

G. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.

H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
   1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5.

I. Post-Installed Anchors: Refer to Division 05 Section “Metal Fabrications”.

2.8 MISCELLANEOUS MATERIALS

A. Water-Repellent Preservative: NWWDA-tested and -accepted formulation containing 3-iodo-2-propynyl butyl carbamate, combined with an insecticide containing chlorpyrifos as its active ingredient.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Framing Standard: Comply with AF&PA's WCD1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

C. Do not splice structural members between supports, unless otherwise indicated.

D. 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.

E. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

F. 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 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 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- 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. and to solidly fill space below partitions.
   4. Fire block concealed spaces behind combustible cornices and exterior trim at not more than 20 feet o.c.

G. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
   1. Partial boards shall be fastened at a rate commensurate with full boards and shall have not less than two (2) fasteners per piece.

H. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
   1. Use inorganic boron for items that are continuously protected from liquid water.
   2. Use copper naphthenate for items not continuously protected from liquid water.

I. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
   1. ICC-ES ESR-1539 for power-driven fasteners.

J. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood; do not countersink nail heads, unless otherwise indicated.

K. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced, and with adjacent rows staggered.
   1. Use finishing nails, unless otherwise indicated. Countersink nail heads and fill holes with wood filler.

L. Plywood Fastening Methods: Fasten panels as indicated below:
   1. Combination Subfloor-Underlayment:
      a. Glue and nail to wood framing.
      b. Screw to cold-formed metal framing.
      c. Space panels 1/8 inch apart at edges and ends.

3.2 WOOD BLOCKING, AND NAILER INSTALLATION

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.
   1. Install additional fasteners, as required to counteract minor warpage or variances in substrate, and to hold tight and true to lines.
   2. When using multiple nailer courses, weave corners and stagger end joints a minimum of 3 feet from underlying course.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated. Build into masonry during installation of masonry work. Where possible, anchor to formwork before concrete placement.

C. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

D. Wood blocking, nailers, and grounds shall be provided as necessary to receive woodwork, lockers, cabinets, and other finish items.

3.3 FLOOR JOIST FRAMING INSTALLATION

A. General: Install floor joists with crown edge up and support ends of each member with not less than 1-1/2 inches of bearing on wood or metal, or 3 inches on masonry. Attach floor joists as follows:
   1. Where supported on wood members, by using metal framing anchors.
   2. Where framed into wood supporting members, by using wood ledgers as indicated or, if not indicated, by using metal joist hangers.

B. Fire Cuts: At joists built into masonry, bevel cut ends 3 inches and does not embed more than 4 inches.

C. Do not notch in middle third of joists; limit notches to one-sixth depth of joist, one-third at ends. Do not bore holes larger than 1/3 depth of joist; do not locate closer than 2 inches from top or bottom.

D. Provide solid blocking of 2-inch nominal thickness by depth of joist at ends of joists unless nailed to header or band.

E. Lap members framing from opposite sides of beams, girders, or partitions not less than 4 inches or securely tie opposing members together. Provide solid blocking of 2-inch nominal thickness by depth of joist over supports.

F. Anchor members paralleling masonry with 1/4-by-1-1/4-inch metal strap anchors spaced not more than 96 inches o.c., extending over and fastening to 3 joists. Embed anchors at least 4 inches into grouted masonry with ends bent at right angles and extending 4 inches beyond bend.

G. Provide solid blocking between joists under jamb studs for openings.

H. Provide bridging of type indicated below, at intervals of 96 inches o.c., between joists. Provide one of the following:

1. Diagonal wood bridging formed from bevel-cut, 1-by-3-inch nominal- size lumber, double-crossed and nailed at both ends to joists.

2. Steel bridging installed to comply with bridging manufacturer's written instructions.

3.4 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes sufficiently wet that moisture content exceeds that specified, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 06 10 00

SECTION 08 12 13 - HOLLOW METAL FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Hollow metal frames

B. Related Sections:
   1. Division 08 Section “Flush Wood Doors”.
   2. Division 09 Section Interior Painting**.**

1.2 DEFINITIONS

A. Minimum Thickness: Minimum thickness of base metal without coatings according to NAAMM-HMMA 803 or ANSI A250.8.

1.3 COORDINATION

A. Coordinate installation of anchorages for standard steel frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

B. Coordinate requirements for installation of door hardware, electrified door hardware, and access control and security systems.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver frames cardboard wrapped or crated to provide protection during transit and job storage.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store frames at building site under cover. Place units on minimum 4 inch high wood blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber. Provide minimum 1/4 inch space between each stacked door to permit air circulation.

1.5 FIELD CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

B. Door Size Field-Verification: Contractor/Frame Supplier shall note that the door sizes as listed on the door schedule, for new frames in existing openings, are approximate and are for bidding purposes only. The Contractor/Frame Supplier MUST field verify door size, frame preps, and other frame conditions prior to submission of Shop Drawings and fabrication of frames. It will be assumed, by the A/E, that the door size as indicated on the Shop Drawings has been field-verified by the Contractor/Frame Supplier. Frames shipped to the Project site that are incorrect size for the existing opening shall be the responsibility of the Contractor/Frame Supplier to replace at no additional cost to the Project.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
      a. Ceco Door Products; Div. of Assa-Abloy Group Company
      b. Steelcraft; Div. of Ingersoll-Rand
      c. Curries; Div. of Assa-Abloy Group Company
      d. Mesker Door Inc.
      e. The MPI Group, LLC
      f. Deansteel Manufacturing Company
      g. Security Metal Products.
      h. Door Components, Inc.
      i. Pioneer Industries
      j. Republic Doors and Frames.

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. Requests for A/E's approval must be accompanied by the “Substitution Request Form” and complete technical data for evaluation. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 PERFORMANCE REQUIREMENTS

A. Openings shall be provided to conform with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and State and Local Regulations. Where openings, in the opinion of the supplier/manufacturer, do not conform, the A/E shall be notified.

2.3 MATERIALS

A. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A1008, Drawing Steel, Type B; stretcher-leveled standard of flatness.

B. Frame Anchors: ASTM A879, Commercial Steel (CS), 40z (12G) coating designation; mill phosphatized.
   1. For anchors built into exterior walls, steel complying with ASTM A 1008A or ASTM A 1011, hot-dip galvanized according to ASTM A 153, Class B.

C. Inserts, Bolts, and Fasteners: Manufacturer's standard units, except hot dip zinc coated items to be built into exterior walls, complying with ASTM A153, Class C or D as applicable.

D. Shop Applied Paint: For steel surfaces, use rust-inhibitive enamel or paint, either air drying or baking, suitable as a base for specified finish paints.
   1. Comply with ANSI A250.10 for acceptance criteria.

2.4 FRAME TYPES

A. General: Provide steel frames for doors, transoms, sidelights, borrowed lights, and other openings that comply with ANSI A250.8 and with details indicated for type and profile. Conceal fastenings, unless otherwise indicated.

B. Frames for interior door openings and borrowed lights shall be fabricated with 2 inch face at jambs, heads and mullions, unless otherwise indicated.
   1. 0.053 inch thick (fka 16 gauge) steel, cold rolled, factory applied baked on primer, for Level 2 and Level 3 steel doors and wood doors.
   2. Construction: Full profile knock down, unless otherwise noted.
   3. Exposed Finish: Prime.

2.5 FRAME ASSEMBLIES

A. Stops and Beads: Furnish minimum 0.032 inch thick (fka 20 gauge) sheet steel glazing beads with the hollow metal frames at transoms, side lights, interior glazed panels, and other locations where beads are indicated in pressed steel frames. Glazing beads for exterior frames shall be on the interior side of transoms and sidelights. Glazing beads for interior frames shall be located on the secure side of opening.

B. Mortar/Plaster Guards: Provide minimum 0.016 inch thick (fka 26 gauge) steel plaster guards or mortar boxes, welded to the frame, at back of door hardware cutouts where mortar or other materials might obstruct hardware operation.

C. Provide minimum 0.1495 inch thick (fka 9 MSG) hinge reinforcement, including all doors with continuous-type hinges.

D. Provide minimum 0.1046 inch thick (fka 12 MSG) frame head reinforcement for closers, surface, and concealed overhead stop and holders, removable mullions, flush bolts, and top latch of vertical rod exit devices.

E. Door Silencers: Drill stops and install 3 silencers on strike jambs of single swing frames and 2 silencers on heads of double swing frames.

2.6 FRAME ANCHORAGE

A. Wall, Floor, and Head Anchors
   1. Frames Set Against Previously Placed Masonry or Concrete: Punch each frame jamb and dimple countersink for not less than four 3/8 inch diameter flat head screws. For doors over 7’-6” high, punch for one additional anchor for each 24 inches or fraction thereof. Provide pipe sleeves with spacers welded into each jamb at each fastening location. Provide 3/8 inch diameter galvanized steel flat head screws with approved expansion anchors or toggles as required. After installing flat head screws, fill head of countersink screw with body filler, then sand flush with frame.
   2. Frames Set in Metal Stud Partitions: Provide a minimum of three 0.042 inch thick (fka 18 gauge) metallic coated "Z" shaped sheet metal jamb anchor clips welded in each jamb. For doors over 7’-6” high weld one additional anchor for each 24 inches or fraction thereof.
   3. Provide head anchors at door or window heads over 5 feet wide at minimum 3 feet o.c.
   4. Provide 0.067 inch thick (fka 14 gauge) minimum angle shaped floor clips welded to jambs and punched for two 3/8 inch diameter bolts each.
   5. Provide adjustable length clip angles as required.

2.7 FABRICATION

A. Fabricate steel door frame units to comply with ANSI A250.8 and be rigid, neat in appearance, and free from defects, warp, or buckle. Accurately form metal to required sizes and profiles. Wherever practicable, fit and assemble units in the manufacturer's plant. Clearly identify work that cannot be permanently factory assembled before shipment, to assure proper assembly at the Project site.

B. Fabricate concealed stiffeners, reinforcement, edge channels, and moldings from either cold rolled or hot rolled steel (at fabricator's option).

C. Clearances for Non-Fire Rated Doors: Not to exceed 1/8 inch at jambs and heads, 3/32 inch between pairs of doors, and 3/4 inch at bottom.

D. Tolerances: Comply with SDI 117, "Manufacturing Tolerances for Standard Steel Doors and Frames."

E. Exposed fasteners: Unless otherwise indicated, provide countersunk flat Phillips heads for exposed screws and bolts.

F. Door Hardware Preparation: Factory prepare hollow-metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.
   1. Prepare hollow metal units to receive mortised and concealed door hardware, including cutouts, steel reinforcing, drilling, and tapping in accordance with final door hardware schedule and templates provided by hardware supplier. Comply with applicable requirements of ANSI A250.6 and ANSI/BHMA A156.115 for preparation of hollow-metal work for hardware.
   2. Reinforce hollow metal units to receive nontemplated, mortised, and surface mounted hardware. Hardware installer shall drill and tap for surface applied hardware.

G. Stops and Moldings: Manufacturer's standard, formed from minimum 0.032 inch thick (fka 20 gauge) steel sheet stops and moldings around glazed lites and louvers. Form corners of stops and moldings with butted or mitered hairline joints.
   1. Multiple Glazed Lites: Provide fixed and removable stops and moldings so that each glazed lite is capable of being removed independently.
   2. Provide fixed frame moldings on outside of exterior and on secure side of interior frames. Provide loose stops and moldings on inside of hollow-metal 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-headed machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.

2.8 STEEL FINISHES

A. General: Comply with recommendations in "Metal Finishes Manual" by Architectural and Metal Products Division of National Association of Architectural Metal Manufacturers (NAAMM) for applying and designating finishes.
   1. Finish standard steel frames after assembly.

B. Steel Surface Preparation: Clean surfaces to comply with SSPC-SP1, "Solvent Cleaning"; remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel; comply with SSPC-SP 3, "Power Tool Cleaning," or SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning".

C. Factory Priming for Field Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils.
   1. Shop Primer: Manufacturer's standard, fast curing, lead and chromate free primer complying with ANSI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible with substrate and field applied finish paint system indicated; and providing a sound foundation for field applied topcoats despite prolonged exposure.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of standard steel frames.
   1. Examine roughing-in for embedded and built-in anchors to verify actual locations of standard steel frame connections before frame installation.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory prior to setting frames. Restore exposed finish by grinding, fitting, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces. Touch up factory-applied finishes where spreaders are removed.

B. Prior to installation and with Contractor-installed installation spreaders in place, adjust and securely brace standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
   1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
   2. Alignment: Plus or minus 1/16 inch, measured on jambs on a horizontal line parallel to plane of wall.
   3. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
   4. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.

C. Drill and tap frames to receive nontemplated mortised and surface-mounted door hardware.

3.3 INSTALLATION

A. General: Install steel frames and accessories according to shop drawings, manufacturer’s data, and as specified.

B. Standard Steel Frames: Install standard steel frames for doors, sidelights, transoms, borrowed lights, and other openings, of size and profile indicated. Comply with ANSI A250.11 or NAAMM HMMA 840 as required by standards specified.
   1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
      a. At fire protection rated openings, install frames according to NFPA 80.
      b. Where frames are fabricated in sections due to shipping or handling limitations, field-splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
      c. Install frames with removable glazing stops located on secure side of opening.
      d. Install door silencers in frames before grouting.
      e. Remove temporary braces necessary for installation only after frames have been properly set and secured.
      f. Check plumb, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
      g. Field-apply corrosion-resistant coating to backs of frames that are installed in masonry or concrete walls, where coating has not been shop applied. coverage rate, or in the case of automotive undercoating, to a minimum 1/8-inch thickness.

2. Floor Anchors: Provide floor anchors for each jamb and mullions that extends to floor and secure with postinstalled expansion anchors.
    a. Floor anchors may be set with power-actuated fasteners instead of postinstalled expansion anchors if so indicated and approved on shop drawings.
3. Existing Concrete or Masonry Construction: Secure frames in place with postinstalled expansion anchors. Countersink anchors, and fill and make smooth, flush, and invisible on exposed faces.
4. Existing Gypsum Board Partitions: Secure frames in place with postinstalled expansion anchors through floor anchors at each jamb. Countersink anchors, and fill and make smooth, flush, and invisible on exposed faces.
5. Installation Tolerances: Adjust standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
    a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
    b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
    c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
    d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.

3.4 FIELD QUALITY CONTROL

A. Frames
1. Install plumb, level and true to line, secured in openings.
2. Install frames in accordance with accepted shop drawings, manufacturer's printed instructions.

B. Final Adjustment: Doors and hardware shall receive final adjustment as follows:
1. Door Contact with Silencers: Single doors shall strike a minimum of two silencers without binding lock or latch bolts in the strike plate.
2. Head, Strike and Hinge Jamb Margin: 1/8 inch.
3. Meeting Edge Clearance, Pairs of Doors: . 1/8 inch plus-or-minus 1/16 inch
4. Bolts and Screws: Leave tight and firmly seated.

C. Warped, bowed, or damaged work will be rejected and shall be replaced with new work.

D. Check and readjust operating hardware items immediately before final inspection.

E. Leave work in a complete and proper operating condition.

3.5 CLEANING

A. Clean grout and other bonding material off standard steel frames immediately after installation.

B. Prime Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air drying primer.

3.6 PROTECTION

A. After installation, protect frames from damage during subsequent construction activities.

END OF SECTION 08 12 13

SECTION 08 14 16 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Five-ply flush wood veneer-faced doors panels for transparent finish.
2. Factory-preparation of wood doors for hardware specified in Division 08 Section “Door Hardware”.
3. Doors shall be factory-finished, unless otherwise noted.
4. Factory-fitting flush wood doors to frames.

B. Related Sections:
1. Division 08 Section “Hollow Metal Frames”.
2. Division 08 Section “Door Hardware” for coordination.

1.2 CLOSEOUT SUBMITTALS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals.
1. Cleaning Instructions: Submit manufacturer’s cleaning instructions for doors.
2. Warranty: Special warranty specified in this Section.

1.3 QUALITY ASSURANCE

A. Comply with the applicable requirements of the following standards unless otherwise indicated:
1. ANSI/WDMA I.S. 1, "Industry Standard for Wood Flush Doors," published by Window and Door Manufacturers Association (WDMA), formerly the National Wood Window and Door Association (NWWDA).

B. Openings shall be provided to conform to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and State and Local Regulations. Where, in the opinion of the supplier/manufacturer, openings do not conform, notify the A/E.

C. Composite wood products shall be labeled or show compliance with the Toxic Substances Control Act (TSCA) Title VI.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Protect wood doors during transit, storage, and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced ANSI standard and recommendations of WDMA pamphlet "How to Store, Handle, Finish, Install, and Maintain Wood Doors," as well as with manufacturer's instructions.

B. Identify each door with individual opening numbers that correlate with designation system used on shop drawings for door, frames, and hardware, and STC or fire rating where applicable, using temporary, removable, or concealed markings.

C. Polybag protect each door for shipment and handling.

1.5 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation areas during the remainder of the construction period to comply with requirements of the referenced quality standard for Project's geographical location.

1.6 WARRANTY

A. Special Warranty: Manufacturer's standard form, signed by manufacturer, installer, and contractor, in which manufacturer agrees to repair or replace doors that are defective in materials or workmanship, have warped (bow, cup, or twist) more than 1/4 inch in a 42 by 84 inch section, or show telegraphing of core construction in face veneers exceeding 0.01 inch in a 3 inch span.
   1. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.
   2. Warranty shall be in effect during the following period of time from date of Substantial Completion.
      a. Interior Solid-Core Interior Doors: Full Life of Original Installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
      a. Masonite Architectural
      b. Lambton Doors
      c. Oregon Door
      d. Oshkosh Door Company
      e. VT Industries, Inc.
      f. Five Lakes Manufacturing
      g. Wilsonart LLC

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. Requests for A/E's approval must be accompanied by the "Substitution Request Form" and complete technical data for evaluation. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

C. Manufacturer: Obtain doors from a single manufacturer to ensure uniformity in quality of appearance and construction.

2.2 DOOR CONSTRUCTION, GENERAL

A. Quality Standard: In addition to requirements specified, comply with WDMA I.S.1-A, "Architectural Wood Flush Doors".
   1. Contract Documents contain selections chosen from options in quality standard and additional requirements beyond those of quality standard. Comply with those selections and requirements in addition to quality standard.

B. WDMA I.S.1-A Performance Grade: Extra Heavy Duty.

C. Particleboard-Core Doors:
   1. Particleboard: ANSI A208.1, Grade LD-2, made with binder containing no urea-formaldehyde resin.
   2. Provide doors with structural-composite-lumber cores instead of particleboard cores for doors indicated to receive exit devices, light openings, or louvers.

D. Structural-Composite-Lumber-Core Doors:
   1. Structural Composite Lumber: WDMA I.S.10.
      a. Screw Withdrawal, Face: 700 lbf (3100 N).
      b. Screw Withdrawal, Edge: 400 lbf (1780 N).

E. Mineral-Core Doors:
   1. Core: Noncombustible mineral product complying with requirements of referenced quality standard and testing and inspecting agency for fire-protection rating indicated.
   2. Blocking: Provide composite blocking with improved screw-holding capability approved for use in doors of fire-protection ratings indicated as follows:
      a. Two 4-1/2-by-10-inch lock blocks or 5-inch mid-rail blocking, in doors indicated to have exit devices.
   3. Edge Construction: At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split-resistance. Comply with specified requirements for exposed edges.

2.3 VENEERED-FACED DOORS FOR TRANSPARENT FINISH

A. Interior Solid-Core Doors, General:
   1. Grade: Custom (Grade A faces).
   2. Species: Red Oak.
   3. Cut: Plain sliced (flat sliced).
   4. Match between Veneer Leaves: Slip match.
   5. Assembly of Veneer Leaves on Door Faces: Running match.
   6. Exposed Vertical Edges: Applied wood (veneered or solid) edges of same species as faces and covering edges of crossbands-edge Type B or D.
   7. Core:
      a. Doors without Exit Devices, Light Openings, or Louvers: Provide particle board core (PC), unless otherwise noted.
      b. Doors with Exit Devices, Doors with Light Openings and Doors with Louvers (and where otherwise noted): Provide structural composite lumber core (SCLC).
         1) Lock-to-lite-cutout shall not be less than 1 1/2 inches.
   8. Construction: Five plies. Stiles and rails are bonded to core, then abrasive-plane entire unit before veneering. Faces are bonded to core using a hot press.
      a. Seven plies will not be acceptable.

2.4 PREFITTING AND PREPARATION FOR HARDWARE

A. Prefit and premachine wood doors at factory, including beveling both edges 1/8 inch in 2 inches. Where pairs of doors are scheduled, prefit and premachine as pairs. Where pairs of doors are scheduled with 3 point latching (lockset and flush bolts), the strike edge of the inactive leaf shall be square equal to WDMA meeting edge option E1.

B. Rated and nonrated doors shall comply with tolerance requirements of NFPA 80 for prefitting. Machine doors for hardware requiring cutting of doors. Comply with final hardware schedules and door frame shop drawings and with hardware templates and other essential information required to ensure proper fit of doors and hardware.
   1. Top and hinge edges: 1/8 inch maximum.
   2. Single door, lock edge: 1/8 inch maximum.
   3. Pair meeting edge: 1/16 inch per leaf maximum.
   4. Bottom (rated or nonrated):
      a. 1/2 inch from decorative floor covering.
      b. 3/4 inch maximum from top of noncombustible floor.
      c. 3/8 inch maximum from top of noncombustible sill or threshold.
      d. Doors with vertical rod exit devices, manual or automatic flush bolts shall be undercut for latching of bolts to a flush floor strike or threshold.
      e. See Division 09 Section “Room Finish Schedule”, for floor finish materials.

C. Coordinate with the metal frame supplier the locations of hardware mortises in metal frames to verify dimensions and alignment before proceeding with machining in factory.

D. Factory-machine doors for hardware that is not surface-applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame, shop drawings, DHI A115-W series standards, and hardware templates.

2.5 FABRICATION

A. General:
   1. The utility or structural strength of the doors must not be impaired in fitting to the opening in applying hardware, in preparing for lights, louvers, plant-ons or other detailing.
   2. Pilot holes must be drilled for all screws that act as hardware attachments. Threaded-to-the-head screws are preferable for fastening hardware to nonrated doors and are required on fire-rated doors.
   3. In fitting for height, do not trim top or bottom edge by more than 3/4 inch, unless accommodated by additional blocking. Do not trim top edge of fire doors.

B. Factory-fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of referenced quality standard for fitting unless otherwise indicated.
   1. Comply with clearance requirements of referenced quality standard for fitting, unless otherwise indicated.
   2. Comply with requirements in NFPA 80 for fire-rated doors.

C. Factory-machine doors for hardware that is not surface-applied.
   1. Locate hardware to comply with DHI-WDHS-3.
   2. Comply with final hardware schedules, door frame Shop Drawings, DHI A115-W series standards, and hardware templates.
   3. Coordinate with hardware mortises in metal frames to verify dimensions and alignment before factory-machining.
   4. For doors scheduled to receive electrified locksets, provide factory-installed raceway and wiring to accommodate specified hardware.
   5. Metal Astragals: Factory-machine astragals and formed-steel edges for hardware for pairs of fire-rated doors.

2.6 FACTORY FINISHING

A. General: Comply with referenced quality standard for factory-finishing. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface-applied, before finishing.
   1. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on top and bottom edges, edges of cutouts, and mortises.

B. Finish doors at factory, unless specifically noted otherwise.

C. Transparent Finish:
   1. Grade: Custom.
   2. Finish: WDMA TR-4 conversion varnish or TR-6 catalyzed polyurethane.
   3. Staining: As selected by A/E from manufacturer's full range.
   4. Effect: Open-grain finish.
   5. Sheen: Satin.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and installed door frames before hanging doors.
   1. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.
   2. Reject doors with defects.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Ensure frames are solidly anchored, allowing no deflection when doors are installed.

3.2 INSTALLATION

A. Hardware: For installation, see Division 08 Section “Door Hardware”.

B. Manufacturer’s Written Instructions: Install doors to comply with manufacturer’s written instructions, referenced quality standard, and as indicated.
   1. Install fire-rated doors according to NFPA 80.
   2. Install smoke-and draft-control doors according to NFPA 105.

C. Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels as indicated below; do not trim stiles and rails in excess of limits set by manufacturer or permitted for fire-rated doors. Machine doors for hardware. Seal cut surfaces after fitting and machining.
   1. Clearances: Provide 1/8 inch at heads, jambs, and between pairs of doors. Provide 1/8 inch from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 3/8 inch from bottom of door to top of threshold.
      a. Comply with NFPA 80 for fire-rated doors.
   2. Bevel nonfire-rated doors 1/8 inch in 2 inches at lock and hinge edges.
   3. Bevel fire-rated doors 1/8 inch in 2 inches at lock edge; trim stiles and rails only to extent permitted by labeling agency.

D. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.

E. Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.

3.3 ADJUSTING

A. Operation: Rehang or replace doors that do not swing or operate freely.

B. Finished Doors: Replace doors that are damaged or do not comply with requirements. Doors may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

3.4 CLEANING

A. Clean doors promptly after installation in accordance with manufacturer’s instructions.

B. Do not use harsh cleaning materials or methods that could damage finish.

3.5 PROTECTION

A. Protect installed doors from damage during construction.

END OF SECTION 08 14 16

SECTION 09 01 61.91 - WOOD FLOORING RESTORATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Restoring existing wood gym flooring, including game lines, and finish, as specified herein.
a. Painted graphics.
2. Patching and repair of damaged existing wood flooring with matching materials.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct meeting at Project site to comply with requirements in Division 01 Section “Project Management and Coordination”.
1. Review Article “PROJECT CONDITIONS”.
2. Review Article “EXAMINATION”.

1.3 ACTION SUBMITTALS

A. Product Data: For each product indicated.

B. Shop Drawings: Show installation details including location and layout of each type of floor assembly and accessory. Include the following:
1. Layout, colors, widths, and dimensions of game lines and markers.

C. Samples for Initial Selection: Manufacturer's color charts showing colors and glosses available for the following:
1. Floor finish.
2. Game-line and marker paint.

1.4 CLOSEOUT SUBMITTALS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
1. Maintenance Data: For finish systems to include in maintenance manuals.
a. Data shall include manufacturer’s recommendations for continued maintenance requirements and precautions against cleaning materials and methods detrimental to finish and performance.
2. Warranties: Special warranties specified in this Section.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: The finish product shall be approved and currently listed on the NFMA Athletic Floor Sealer and Finish Conformance List.
1. http://www.maplefloor.org/literature/finishlist.cfm

B. Installer Qualifications: A firm or individual that has been approved by MFMA as an accredited Installer according to the MFMA Accreditation Program.
1. MFMA Accredited Installer(s) must be on-site for duration of the refinish.

C. Regulatory Requirements
1. Provide layout complying with requirements of the National Federation of State High School Associations (NFHS).
2. Volatile organic compound (VOC) emission standards shall not exceed either of the following:
a. The National Volatile Organic Compound Emission Standards for Architectural Coatings published by the Environmental Protection Agency, September 11, 1998.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver finish materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
   1. Product name or title of material.
   2. Product description (generic classification or binder type).
   3. Manufacturer's stock number and date of manufacture.
   4. Application instructions.
   5. Color name and number.
   6. VOC content.

B. Store Materials
   1. Store only the approved materials at the jobsite and store only in a suitable and designated area restricted to the storage of finish materials and related equipment.
      a. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F. Maintain containers used in storage in a clean condition, free of foreign materials and residue.
      b. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.
      c. Remove rags and waste from storage areas daily.
   2. Use means necessary to ensure the safe storage and use of finish materials and the prompt and safe disposal of waste.
   3. Use means necessary to protect finish materials before, during, and after application and to protect the installed work and materials of other trades.
   4. Where toxic and/or volatile/explosive/flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings as required.
   5. Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (finishes, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.

1.7 FIELD CONDITIONS

A. Resurfacing of an existing floor system shall not commence until all masonry, finish and/or wet trades, such as concrete, painting, etc., plastering/gypsum finish, tile and overhead mechanical trades are complete. The building must be enclosed and weathertight.

B. Environmental Conditions: Maintain an ambient temperature between 65 and 75 deg F. and relative humidity planned for building occupants, but not less than 35 percent or more than 50 percent, in spaces to be refurbished.

C. Provide ventilation at not less than one cfm per square foot of area.

D. After refurbishing is complete, maintain relative humidity and ambient temperature planned for building occupants.

1.8 WARRANTY

A. Provide a 2 year warranty signed jointly by the Contractor and wood flooring subcontractor covering the materials, workmanship, and satisfactory performance of the floors.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Finish Products: products shall be approved and currently listed on the MFMA Athletic Floor Sealer and Finish Conformance List.

2.2 FINISHING MATERIALS

A. Floor Finish System (Wood Gym Flooring): MFMA listed system of compatible components recommended by flooring and finish manufacturers for application indicated.
   1. Type: Group 5, Water-Based Finishes.
   2. Floor Sealer: Pliable, penetrating type.
   3. Finish Coats: Formulated for gloss finish and multicoat application.

B. Game Line and Marker Paint: High gloss industrial enamel compatible with finish coats and recommended in writing by finish and paint manufacturers for this purpose.

C. Wood Filler: Compatible with finish system components and recommended by filler and finish manufacturers for use indicated. If required to match approved Samples, provide pigmented filler.

2.3 FIELD-FINISHED WOOD FLOORING

A. Solid-Wood, Strip Flooring: Kiln dried to 6 to 9 percent maximum moisture content, tongue and groove and end matched, and with backs channeled (kerfed) for stress relief.
   1. Species and Grade:
      a. Hardwood: MFMA-RL Second and Better Grade hard maple.
      b. Softwood: C & BTR - Flooring Douglas fir.
   2. Thickness: Match existing.
   3. Face Width: Match existing.
   4. Lengths: Random-length strips complying with applicable grading rules.
   5. Provide new material to match existing where required for patching and replacement of damaged areas of existing wood floor that can't be refinished without new material.

2.4 ACCESSORIES

A. Sandpaper: Shall consist of three grits.
   1. First cut (course grit)
   2. Second cut (medium grit)
   3. Third cut (fine grit)
      a. Follow selected finish manufacturers final cut recommendation to ensure proper adhesion of the finish.

B. Buffing Materials: Shall be #100 screen back pads.

C. Finish Application Tools: As approved by finish manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions for compliance with requirements.
   1. Verify ventilation requirements can be met and building systems will not circulate contaminated air to occupied portions of facility.
   2. If necessary facility, due to use of Class I or II finishes, facility must be unoccupied during installation of finishes.
   3. The athletic maple surface shall be inspected and approved by the Sports Floor Contractor to ensure proper moisture content and eligible to receive a complete resurfacing.

B. Inspection:
   1. The athletic maple system shall be cleared of athletic equipment by Owner to ensure the sport floor contractor will have adequate access to the athletic maple system's surface.
   2. The athletic maple system surface shall be inspected and approved by the Wood Floor Contractor to ensure proper moisture content and eligible to receive a complete resurfacing.

3. All, if any, repair work on the athletic system shall be completed prior to the start of the sanding process.
4. Record existing game line layout and graphics for reproduction of size, type, number, quantity, configuration and graphics as part of restoration process. Layout and graphics shall match existing.

C. Proceed with work only after unsatisfactory conditions have been corrected.

D. Patch existing wood planks with wood filler compatible with wood flooring where fasteners have left holes or other damage to the existing wood plank surface.

3.2 INSTALLATION

A. General: Follow applicable recommendations in NFMA's "Industry Recommendations for Sanding, Sealing, Finishing, and Resurfacing of Maple Floors" and finish manufacturers recommendations.

B. General: Follow applicable recommendations in NFMA's "Industry Recommendations for Sanding, Sealing, Finishing, and Resurfacing of Maple Floors".

C. Sanding
1. The first sanding cut will be on a 45 degree angle to the direction of the finished floor. The cut will be made with #36 grit sand paper.
2. The second sanding cut will be on a 45 degree angle to the direction of the finished floor, the opposite of the first cut. This cut should also be with #36 grit paper.
3. The third sanding cut will be a straight cut in the same direction as the finished floor. This cut should also be with #36 grit paper.
4. The forth sanding cut should also be a straight cut using #60 grit paper.
5. The final sanding cut is a straight cut using #100 grit paper.
6. After the floor has been drum sanded it should be buffed with a slow speed buffing machine using #100 grit screen back pads.

D. Sealing: Apply coatings per finish manufacturer's recommendations.
1. After sanding, floor shall be thoroughly vacuumed and swept with a tack rag using recommended solvent until no traces of powder remain on floor.
2. With a clean lamb's wool applicator, apply a liberal coat of sealer in a uniform coat.
3. Apply first coat across the grain, then smooth out with the grain.
4. After the first coat is thoroughly dry, entire surface should be abraded using No. 2 steel wool under a single brush floor machine.
5. Floor shall then be tack ragged as outlined above and a sealer shall be applied, working first across the grain and smoothing out with the grain.
6. After overnight drying, entire surface should be abraded with No. 2 steel wool under a floor machine and "tack ragged" in preparation for court layout and painting.

E. Court Lining
1. Mark game lines with proper colors of game line paint according to Architect's layout, and with the use of precision taping machine.
   a. Note: Game lines shall be laid out in accordance with current rules of Athletic Association having jurisdiction. Lines shall be straight with sharp edges of colors selected by Architect.
2. Line paint should be allowed to dry 12 hours before preparing for finish coat.

F. Finishing
1. After lines and logos have dried, abrade with No. 2 steel wool as recommended by finish manufacturer vacuum and tack.
   a. Abrade until the floor is dull and uniform in appearance.
   b. Logo and/or markings that are added to the floor by a third party need to be properly abraded by that company to ensure proper adhesion of the floor finish.
   c. Vacuum and tack entire floor system.

2. Apply an even coat of wood gym finish across the grain and smooth out with the grain using semi-dry lamb's wool applicator.
3. Allow to dry overnight.
4. Burnish with No. 2 steel wool and tack rag. Then apply a final coat of wood gym finish, as outlined above.
5. After the final coat, do not use floor for at least 72 hours. Avoid heavy traffic for at least one week.
6. During finishing and drying time, floor must be free of dirt. Avoid air currents that carry dust and dirt. Temperatures of room and materials should be 65 degrees F or above during treatment and curing. Allow adequate ventilation for proper curing.
7. Finish must be abraded with 150-grit screen if allowed to cure more than 72 hours between coats.
8. MFMA recommends screening between all coats of finish that are applied or as recommended by the finish manufacturer.

G. Follow selected finish manufacturer's recommendation on time allotted before foot traffic and activities can presume.

3.3 MAINTENANCE

A. Upon completion of the resurfacing of the wood floor system, the Owners, attendants or individuals in charge are responsible for the upkeep of the building and are to see that the care and maintenance instructions of the MFMA and the flooring manufacturer are followed.

END OF SECTION 09 01 61.91

SECTION 09 84 33.13 - ABUSE-RESISTANT SOUND-ABSORBING WALL UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Abuse-resistant acoustical wall treatment (AR-AWT) as indicated.

B. Related Sections:
1. Division 06 Section “Rough Carpentry”.

1.2 ACTION SUBMITTALS

A. Product Data: Manufacturer's specifications and installation instructions for each material, and include other data as may be required to show compliance with these specifications. Indicate by transmittal form that a copy of each installation instruction has been distributed to the installer.
1. Recommended procedures for normal cleaning and removal of stains including precautions in use of cleaning materials that may be detrimental to surfaces.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Protect acoustical wall treatment from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver material to building until wet work, such as concrete and plaster, has been completed and cured to a condition of equilibrium.

B. Before installing acoustical wall units, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical wall units carefully to avoid chipping edges or damaged units in any way.

1.4 FIELD CONDITIONS

A. Environmental Conditions: Do not begin installation until spaces for acoustical wall treatment have been enclosed and maintained at approximately the same humidity and temperature conditions as planned for occupancy. Maintain temperature and humidity as recommended by panel manufacturer.
1. Locate materials onsite at least 24 hours before beginning installation to allow materials reach temperature and moisture content equilibrium.

B. Field Measurements: Check actual wall surfaces by accurate field measurements before fabrication and show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
1. Tectum® by Armstrong World Industries, Inc.
2. Knauf/Heraklith
3. Troy Acoustics
4. Cardinal Acoustics

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The “Substitution Request Form” and complete technical data for evaluation must accompany requests for A/E's approval. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 PERFORMANCE REQUIREMENTS

A. Provide acoustical wall panel assembly designed and tested to provide surface-burning characteristics (ASTM E84) as follows:
   1. Flame spread:
      a. Fabric covered: 25
      b. Natural: 0

B. Provide acoustical wall panel system that has been manufactured, fabricated, and installed to provide Noise Reduction Coefficient (NRC) rating as indicated.

2.3 ACOUSTICAL WALL TREATMENT (AR-AWT)

A. Abuse-Resistant Acoustical Panels, General:
   1. Flame spread of panels shall be 25 or less under the ASTM E 84.
   2. Panels are Class A.
   3. Panels shall consist of wood fibers and a hydraulic-cement binder formed under controlled conditions of heat and pressure.
   4. Humidity/Sag Resistance: Manufactures standard treatment, similar to Armstrong HumiGuard.
   5. Anti-Mold/Mildew: Manufacturers standard treatment, similar to Armstrong BioBlock.

B. Interior Wall Panels
   1. Basis of Design: Tectum DesignArt
   2. Material:
      a. Material: Aspen wood fibers bonded with inorganic hydraulic cement.
   3. Thickness
      a. Thickness 2 inches (Walls)
         1) Mounting Method:
            a) Type C-20; NRC .90
      b. Edges: Square and painted.
   4. Size and shape shall be as indicated on Drawings.
   5. Finish: Factory applied latex paint on abuse resistant silicate surface coating.
   6. Color: Refer to “List of Finishes”. Custom color will be required.

2.4 ACCESSORIES

A. Panel Edge Spline: Furnish vinyl splines that are continuous. Insert splines into kerfed edges of panel and fasten to the wall or other structures.
   1. Utilize when panels abut each other or are arranged continuously.

B. Supplemental Acoustical Insulation:
   1. Mounting Method C-20: Thermal insulation board (between furring) combing glass fibers with thermosetting resin binders to comply with ASTM C612, Type 1A or Type 1B.
      a. Nominal Density: 3 pounds per cubic foot.
      b. Thermal Conductivity: k-value of 0.23 at a mean temperature of 75 degrees Fahrenheit.

C. Furring Strips: Fire retardant treated framing lumber or boards as required by installation method, per requirements of Division 06 Section “Rough Carpentry”.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of acoustical wall treatment.

B. Do not proceed with installation until all work such as concrete, and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer’s printed recommendations.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each wall area and establish layout of wall units. Coordinate panel layout with mechanical and electrical fixtures.

3.3 INSTALLATION

A. General: Install acoustical wall panels in locations indicated with vertical surfaces and edge plumb, top edges level and in alignment with other panels, scribed to fit adjoining work accurately at borders and at penetrations. Comply with panel manufacturer's printed instructions for installation of panels using type of mounting accessories indicated or, if none indicated, as recommended by manufacturer for substrate.

B. Painted Panels: Install panels using the following method, unless otherwise noted.
   1. Type C-20: Laid on 3/4 inch furring strips, 24 inches o.c. or less, cavities to be filled with glass-fiber board insulation. Furring is required at panel ends, top and bottom. Sound-absorbing insulation shall not be left exposed. Furring at outside edge shall be recessed back 1 inch from panel edge and exposed surface of furring painted. Mechanically attach panels with screws as recommended by the manufacturer.

3.4 CLEANING

A. Clean exposed surfaces of acoustical panel, trim, moldings, and suspension members to comply with manufacturer’s instructions for cleaning.

B. Touch up any minor finish damage.

C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

3.5 PROTECTION

A. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the Owner.

END OF SECTION 09 84 33.13

CONSTRUCTION DOCUMENTS

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

1800 NEW YORK AVENUE
WHITING, IN 46394

224151.00

10-25-2024

NOTE:
SEE PROJECT 224023.01 WHITING HIGH SCHOOL - AUDITORIUM IMPROVEMENTS FOR PREVIOUSLY ISSUED WORK, INCLUDING BUT NOT LIMITED TO: DEMOLITION WORK FROM THE CEILING AND ABOVE AND NEW ROOF WORK ABOVE THE DECK.

OWNER
SCHOOL CITY OF WHITING

ARCHITECT
FANNING HOWEY ASSOCIATES INC.
350 E NEW YORK ST, STE#300,
INDIANAPOLIS, IN 46204
317-848-0966

STRUCTURAL ENGINEER
JPS CONSULTING ENGINEERS
9365 COUNSELORS ROW, SUITE 116
INDIANAPOLIS, IN 46240
317-617-4270

CONSTRUCTION DOCUMENTS

PAULA A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

COVER SHEET

COVER

1 OVERALL BUILDING AERIAL

SCALE: 1 1/2" = 1'-0"

BUILDING CODE INFORMATION

BUILDING DESCRIPTION: EXISTING AUDITORIUM RENOVATION

APPLICABLE CODES:
2012 INTERNATIONAL BUILDING CODE - INDIANA BUILDING CODE, 2014 EDITION (675 IAC 13-2.6)
2012 INTERNATIONAL FIRE CODE - INDIANA FIRE CODE, 2014 EDITION (675 IAC 22-2)
2012 INTERNATIONAL MECHANICAL CODE - INDIANA MECHANICAL CODE, 2014 EDITION (675 IAC 18-1.6)
2012 INTERNATIONAL PLUMBING CODE - INDIANA PLUMBING CODE, 2012 EDITION (675 IAC 16-1.4)
2012 INTERNATIONAL ELECTRICAL CODE - INDIANA ELECTRICAL CODE, 2009 EDITION [NFPA 70-2008] (675 IAC 17-1.6)
INDIANA ENERGY CONSERVATION CODE 2010 [ASHRAE 90.1, 2007 AMENDED] (672 IAC 19-4)
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION:
OCCUPANCY/USE GROUP: EDUCATIONAL GROUP E (305)
ASSEMBLY GROUP A-1 (303)

NON-SEPARATED USES (TABLE 508.4)

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
BUILDING AREA/HEIGHT: EXISTING BUILDING AREA AND HEIGHT TO REMAIN

RENOVATION AREA:
FIRST FLOOR: 6,550 SF (1)
SECOND FLOOR: NONE
THIRD FLOOR: 13,020 SF
TOTAL: 19,570 SF (1)

CHAPTER 6 TYPES OF CONSTRUCTION:
CONSTRUCTION TYPE: II-B (602.3)

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

	(HOURS)
STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	2
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS - EXTERIOR	
X < 5	1
5 ≤ X < 10	1
10 ≤ X < 30	1
X > 30	0
NON-BEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES:
PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOPPING PER PROJECT MANUAL (CHAPTER 7). SEE FLOOR PLANS FOR LOCATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES

INCIDENTAL USE AREAS (TABLE 509) WITH AUTOMATIC SPRINKLER SYSTEM PROVIDED SHALL RESIST THE PASSAGE OF SMOKE (509.4.2)

CHAPTER 8 INTERIOR FINISHES:

INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS	GROUP E: B / GROUP A-1: B
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	GROUP E: C / GROUP A-1: B
ROOMS AND ENCLOSED SPACES	GROUP E: C / GROUP A-1: C

CHAPTER 9 FIRE PROTECTION SYSTEMS:
PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM (903)

75 FEET MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER (906.3)

CHAPTER 10 MEANS OF EGRESS:
EXISTING OCCUPANT LOADS AND MEANS OF EGRESS REMAIN AS EXISTING WITH NO MODIFICATION

LIFE SAFETY LEGEND

Room name
101
AREA: 150 SF
OCCUP: Occupancy: ##
Load: ##
# of Exits: #

EGRESS INFORMATION TAG (SEE FLOOR PLANS)
ROOM AREA
OCCUPANT LOAD CALCULATED
OCCUPANCY LOAD FACTOR PER CODE
MINIMUM NUMBER OF EXITS PER CODE

Occupants: 98
DR Clear: 52"
Capacity: 260

EGRESS COMPONENT TAG (SEE FLOOR PLANS)
OCCUPANT LOAD CALCULATED
COMPONENT CLEAR DIMENSION
OCCUPANT CAPACITY PER CODE

S — INCIDICATES INCIDENTAL ACCESSORY OCCUPANCY PARTITION WITH CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE THAT EXTENDS TO THE FLOOR/ROOF DECK ABOVE AND HAS SELF CLOSING AND/OR AUTOMATIC CLOSING DOORS WITH SMOKE DETECTORS, SECTION 509 (SEE FLOOR PLANS FOR LOCATIONS)

(1) — INDICATES 1 HOUR FIRE-RESISTANT RATED FIRE BARRIER WITH 1 HOUR RATED OPENING PROTECTIVES, SECTION 707 (SEE FLOOR PLANS FOR LOCATIONS)

INDICATES 2 HOUR FIRE-RESISTANT RATED FIRE BARRIER WITH 1-1/2 HOUR RATED OPENING PROTECTIVES, SECTION 707 (SEE FLOOR PLANS FOR LOCATIONS)

INDICATES 3 HOUR FIRE-RESISTANT RATED FIRE BARRIER THAT WITH 3 HOUR RATED OPENING PROTECTIVES, SECTION 707 (SEE FLOOR PLANS FOR LOCATIONS)

X — INDICATES 2 HOUR FIRE-RESISTANT RATED EXTERIOR WALL, TABLE 602 AND SECTION 705 (SEE FLOOR PLANS FOR LOCATIONS)

P — INDICATES PANIC HARDWARE

(1) NOTE:
SEE A1.01 AND A1.03 FIRST FLOOR AND THIRD FLOOR FIRE AND LIFE SAFETY PLANS FOR ANNOTATION ON PLANS OF CODE INFORMATION.

NOTE:
SEE PROJECT 224023.01 WHITING HIGH SCHOOL - AUDITORIUM IMPROVEMENTS FOR PREVIOUSLY ISSUED WORK, INCLUDING BUT NOT LIMITED TO: DEMOLITION WORK FROM THE CEILING AND ABOVE AND NEW ROOF WORK ABOVE THE DECK.

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE ELEVATIONS INDICATED WITHIN THIS PROJECT UTILIZE ELEVATIONS SET IN THE 1984 ADDITIONS AND RENOVATION DRAWINGS.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
F. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
G. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS
H. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL/WOOD STUD WALLS FOR WALL MOUNTED ITEMS.
I. REFER TO FLOOR PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
J. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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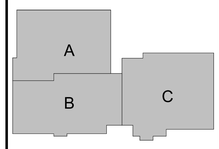

KEY PLAN N

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: AME
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

OVERALL BUILDING AERIAL AND BUILDING CODE INFORMATION

(1) A1.00

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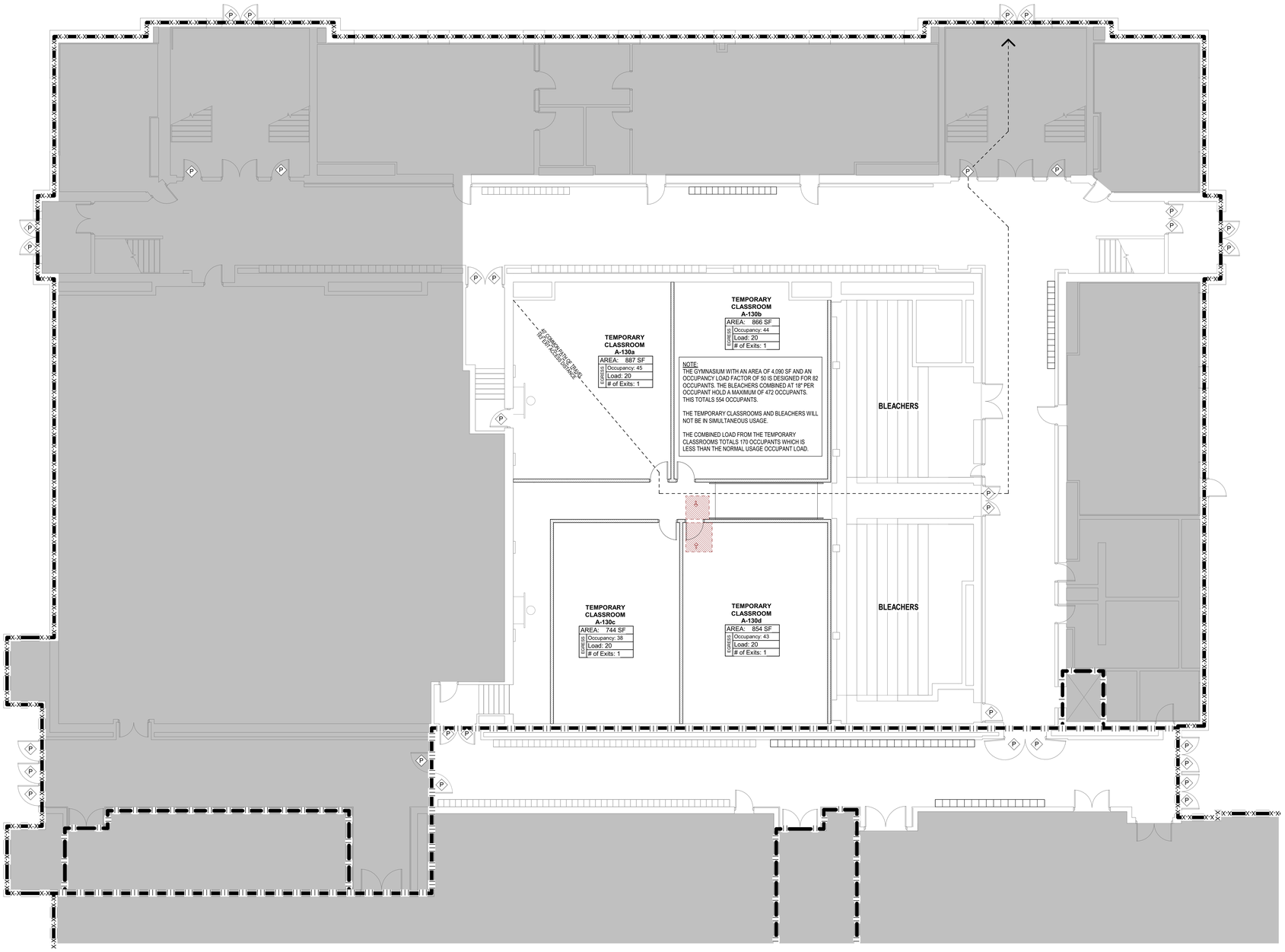

1 FIRST FLOOR FIRE AND LIFE SAFETY PLAN

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

BUILDING CODE INFORMATION

BUILDING DESCRIPTION: EXISTING AUDITORIUM RENOVATION

APPLICABLE CODES:
2012 INTERNATIONAL BUILDING CODE - INDIANA BUILDING CODE, 2014 EDITION (675 IAC 13-2.6)
2012 INTERNATIONAL FIRE CODE - INDIANA FIRE CODE, 2014 EDITION (675 IAC 22-2)
2012 INTERNATIONAL MECHANICAL CODE - INDIANA MECHANICAL CODE, 2014 EDITION (675 IAC 18-1.6)
2012 INTERNATIONAL PLUMBING CODE - INDIANA PLUMBING CODE, 2012 EDITION (675 IAC 16-1.4)
2012 INTERNATIONAL ELECTRICAL CODE - INDIANA ELECTRICAL CODE, 2009 EDITION [NFPA 70-2008] (675 IAC 17-1.6)
INDIANA ENERGY CONSERVATION CODE 2010 [ASHRAE 90.1, 2007 AMENDED] (672 IAC 19-4)
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION:
OCCUPANCY/USE GROUP: EDUCATIONAL GROUP E (305)
ASSEMBLY GROUP A-1 (303)

NON-SEPARATED USES (TABLE 508.4)

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
BUILDING AREA/HEIGHT: EXISTING BUILDING AREA AND HEIGHT TO REMAIN

RENOVATION AREA:
FIRST FLOOR: 6,950 SF (1)
SECOND FLOOR: NONE
THIRD FLOOR: 13,020 SF
TOTAL: 19,970 SF (1)

CHAPTER 6 TYPES OF CONSTRUCTION:
CONSTRUCTION TYPE: III-B (602.3)

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

	(HOURS)
STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	2
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS - EXTERIOR	
X < 5	1
5 < X < 10	1
10 < X < 30	1
X > 30	0
NON-BEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES:
PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOPPING PER PROJECT MANUAL (CHAPTER 7). SEE FLOOR PLANS FOR LOCATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES

INCIDENTAL USE AREAS (TABLE 509) WITH AUTOMATIC SPRINKLER SYSTEM PROVIDED SHALL RESIST THE PASSAGE OF SMOKE (509.4.2)

CHAPTER 8 INTERIOR FINISHES:

INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS	GROUP E: B / GROUP A-1: B
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	GROUP E: C / GROUP A-1: B
ROOMS AND ENCLOSED SPACES	GROUP E: C / GROUP A-1: C

CHAPTER 9 FIRE PROTECTION SYSTEMS:
PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM (903)

75 FEET MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER (906.3)

CHAPTER 10 MEANS OF EGRESS:
EXISTING OCCUPANT LOADS AND MEANS OF EGRESS REMAIN AS EXISTING WITH NO MODIFICATION

LIFE SAFETY LEGEND

Room name
101
AREA: 150 SF
EGRESS
Occupancy: ##
Load: ##
# of Exits: #

EGRESS INFORMATION TAG (SEE FLOOR PLANS)
ROOM AREA
OCCUPANT LOAD CALCULATED
OCCUPANCY LOAD FACTOR PER CODE
MINIMUM NUMBER OF EXITS PER CODE

Occupants: 98
DR Clear: 52"
Capacity: 260

EGRESS COMPONENT TAG (SEE FLOOR PLANS)
OCCUPANT LOAD CALCULATED
COMPONENT CLEAR DIMENSION
OCCUPANT CAPACITY PER CODE

INCIDICATES INCIDENTAL ACCESSORY OCCUPANCY PARTITION WITH CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE THAT EXTENDS TO THE FLOOR/ROOF DECK ABOVE AND HAS SELF CLOSING AND/OR AUTOMATIC CLOSING DOORS WITH SMOKE DETECTORS, SECTION 509 (SEE FLOOR PLANS FOR LOCATIONS)

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INDICATES 2 HOUR FIRE-RESISTANT RATED EXTERIOR WALL, TABLE 602 AND SECTION 705 (SEE FLOOR PLANS FOR LOCATIONS)

INDICATES PANIC HARDWARE

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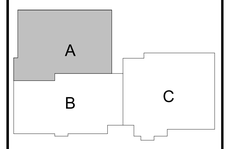


KEY PLAN

CONSTRUCTION DOCUMENTS

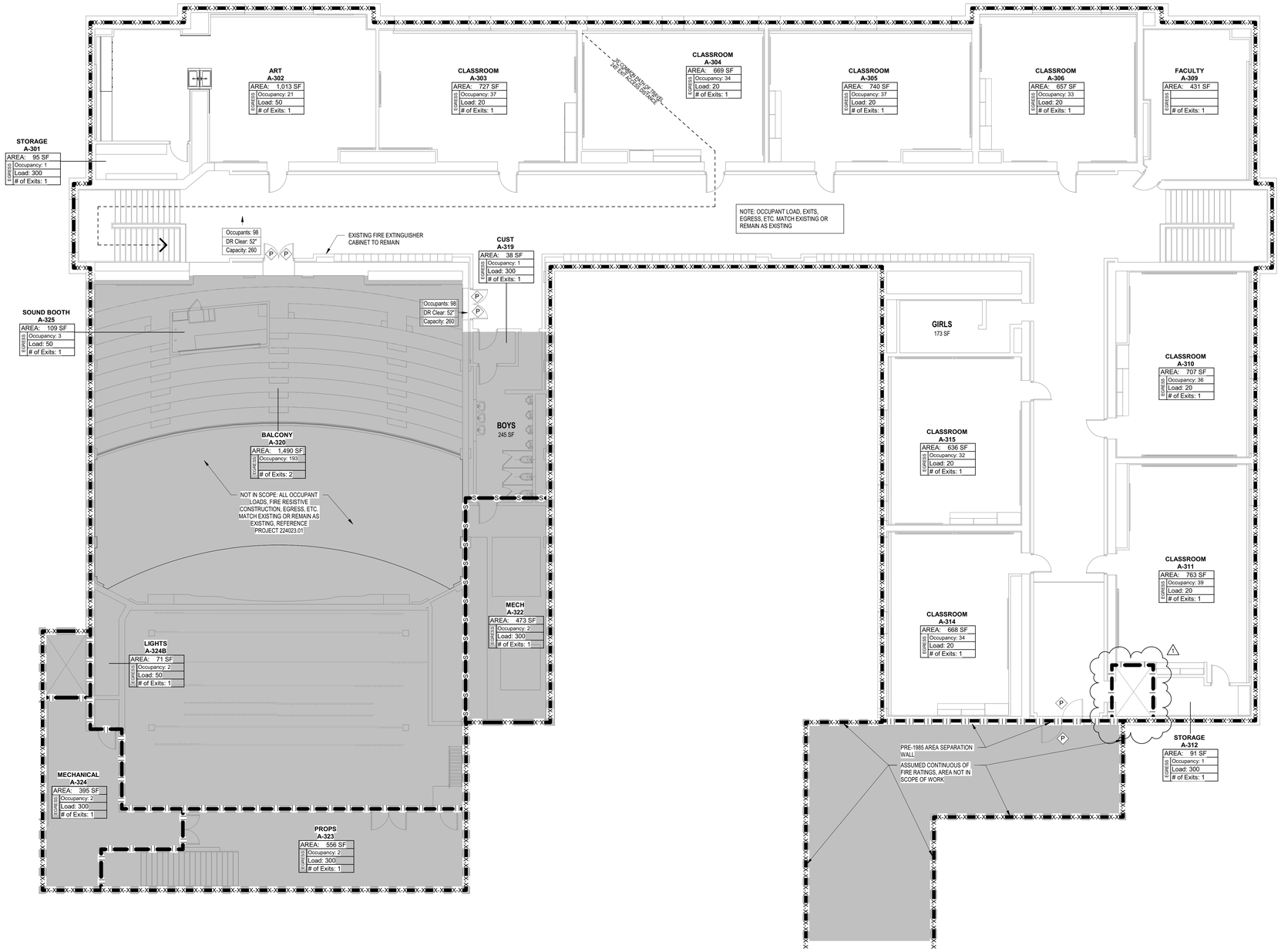
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: Author
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

FIRST FLOOR FIRE AND LIFE SAFETY PLAN

A1.01



1 THIRD FLOOR FIRE AND LIFE SAFETY PLAN

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

BUILDING CODE INFORMATION

BUILDING DESCRIPTION: EXISTING AUDITORIUM RENOVATION

APPLICABLE CODES:
2012 INTERNATIONAL BUILDING CODE - INDIANA BUILDING CODE, 2014 EDITION (675 IAC 13-2.6)
2012 INTERNATIONAL FIRE CODE - INDIANA FIRE CODE, 2014 EDITION (675 IAC 22-2)
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NON-SEPARATED USES (TABLE 508.4)

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BUILDING AREA/HEIGHT: EXISTING BUILDING AREA AND HEIGHT TO REMAIN

RENOVATION AREA:
FIRST FLOOR: 6,950 SF (1)
SECOND FLOOR: NONE
THIRD FLOOR: 13,020 SF
TOTAL: 19,970 SF (1)

CHAPTER 6 TYPES OF CONSTRUCTION:
CONSTRUCTION TYPE: III-B (602.3)

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

	(HOURS)
STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	2
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS - EXTERIOR	
X < 5	1
5 < X < 10	1
10 < X < 30	1
X > 30	0
NON-BEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES:
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CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	GROUP E: C / GROUP A-1: B
ROOMS AND ENCLOSED SPACES	GROUP E: C / GROUP A-1: C

CHAPTER 9 FIRE PROTECTION SYSTEMS:
PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM (903)

75 FEET MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER (906.3)

CHAPTER 10 MEANS OF EGRESS:
EXISTING OCCUPANT LOADS AND MEANS OF EGRESS REMAIN AS EXISTING WITH NO MODIFICATION

LIFE SAFETY LEGEND

Room name
101
AREA: 150 SF
EGRESS
Occupancy: ##
Load: ##
# of Exits: #

EGRESS INFORMATION TAG (SEE FLOOR PLANS)
ROOM AREA
OCCUPANT LOAD CALCULATED
OCCUPANCY LOAD FACTOR PER CODE
MINIMUM NUMBER OF EXITS PER CODE

Occupants: 98
DR Clear: 52"
Capacity: 260

EGRESS COMPONENT TAG (SEE FLOOR PLANS)
OCCUPANT LOAD CALCULATED
COMPONENT CLEAR DIMENSION
OCCUPANT CAPACITY PER CODE

S — INCIDICATES INCIDENTAL ACCESSORY OCCUPANCY PARTITION WITH CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE THAT EXTENDS TO THE FLOOR/ROOF DECK ABOVE AND HAS SELF CLOSING AND/OR AUTOMATIC CLOSING DOORS WITH SMOKE DETECTORS, SECTION 509 (SEE FLOOR PLANS FOR LOCATIONS)

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INDICATES 3 HOUR FIRE-RESISTANT RATED FIRE BARRIER THAT WITH 3 HOUR RATED OPENING PROTECTIVES, SECTION 707 (SEE FLOOR PLANS FOR LOCATIONS)

INDICATES 2 HOUR FIRE-RESISTANT RATED EXTERIOR WALL, TABLE 602 AND SECTION 705 (SEE FLOOR PLANS FOR LOCATIONS)

P — INDICATES PANIC HARDWARE

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A
B
C

KEY PLAN N

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: Author
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

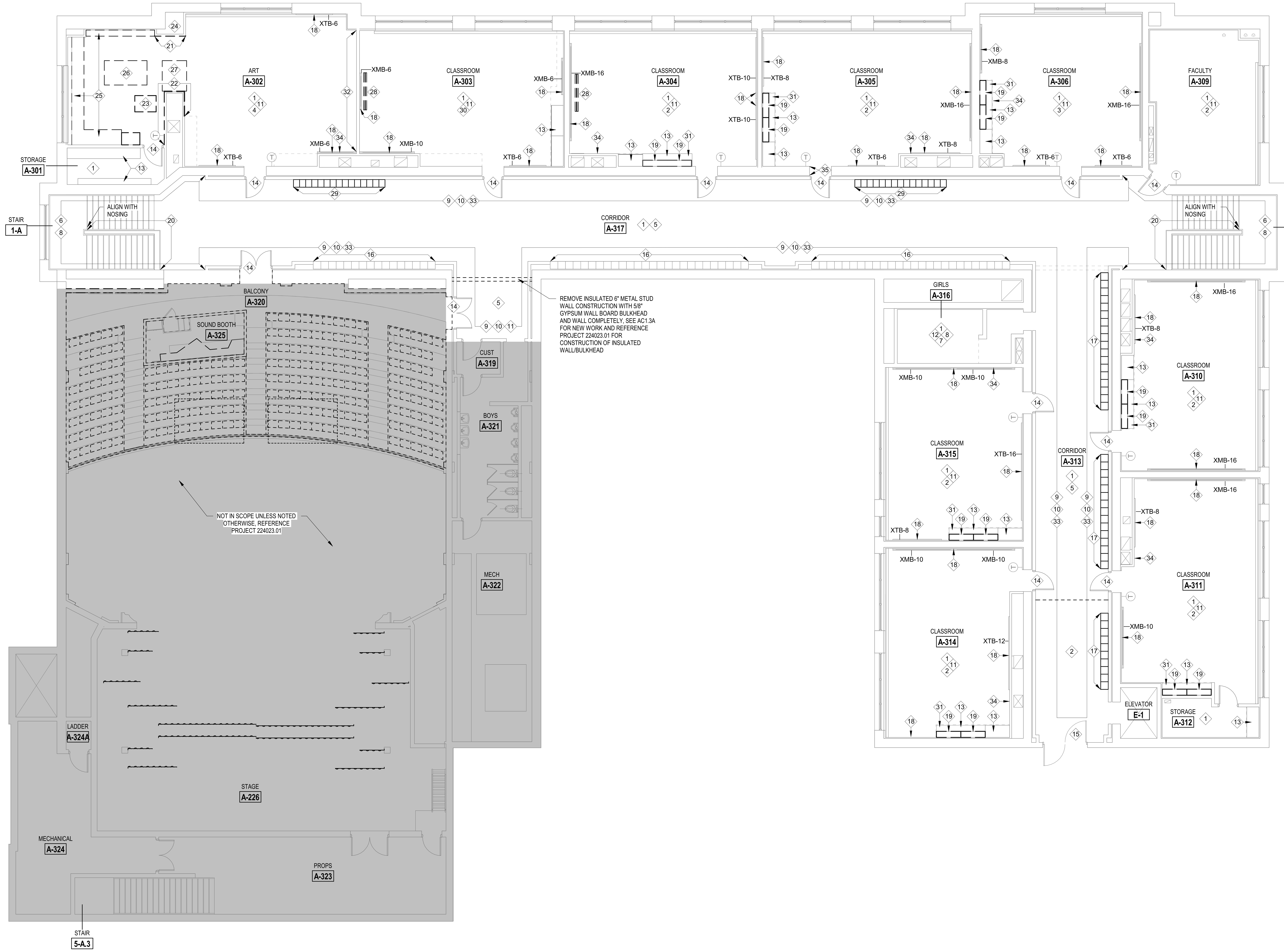
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

THIRD FLOOR FIRE AND LIFE SAFETY PLAN

A1.03

NOTE:
SEE A1.00 OVERALL BUILDING AERIAL FOR BUILDING CODE INFORMATION AND LIFE SAFETY LEGEND.

NOTE:
SEE PROJECT 224023.01 WHITING HIGH SCHOOL - AUDITORIUM IMPROVEMENTS FOR PREVIOUSLY ISSUED WORK, INCLUDING BUT NOT LIMITED TO: DEMOLITION WORK FROM THE CEILING AND ABOVE AND NEW ROOF WORK ABOVE THE DECK.



1 UNIT 'A' THIRD FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

ARCHITECTURAL DEMOLITION GENERAL NOTES

A. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN THE FIELD WITH THE DEMOLITION DRAWINGS, NEW CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT.
B. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKINGS, ADHESIVES, BASES, DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS, UNLESS NOTED OTHERWISE.
C. "CEILING" DENOTES CEILING MATERIALS INCLUDING SUSPENSION SYSTEMS ADHESIVE RESIDUES, MOLDINGS, UP TO BUT EXCLUSIVE OF STRUCTURAL MATERIALS.
D. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" (MIN.) BELOW THE EXISTING FLOOR SLAB (UNLESS SETTING ON SLAB). PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
E. WHEN OPENINGS ARE CUT INTO AN EXISTING WALL, THE OPENING SHALL BE A MINIMUM OF 1'-4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR 8" (MIN) OF NEW CMU TOOTHED-IN AT EDGES.
F. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACE SHALL BE SMOOTH AND FLUSH WITH EXISTING CONDITIONS.
G. MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPPED AND ABANDONED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
H. COORDINATE THIS WORK WITH DEMOLITION WORK ON STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL.
I. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.
J. CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTIONS OF EXISTING WALLS TO BE FILLED IN AND SALVAGE NECESSARY MATERIAL.
K. MATERIALS OF DEMOLITION SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
L. OWNER TO REMOVE EXISTING FURNITURE AND MISCELLANEOUS ITEMS NOT SHOWN AND NOT TO BE DEMOLISHED. CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR OTHER ITEMS TO BE REMOVED.
M. ITEMS TO BE PATCHED. REMOVE ALL LOOSE OR DAMAGED MATERIAL. REFINISH TO LIKE NEW CONDITION, OR IF CONDITION WARRANTS REPLACE IN ENTIRETY.
N. THE OWNER SHALL RESERVE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.
O. "TURNED OVER TO THE OWNER" DENOTES: 1) TAG AND IDENTIFY ITEMS: 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
P. ITEMS MADE OBSOLETE TO ACCOMODATE NEW CONSTRUCTION OR RENOVATION SHALL BE REMOVED.
Q. ITEMS TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
R. AFTER REMOVAL OF ITEMS, THE EXISTING WALL SURFACES (IF EXPOSED) SHALL BE REPAIRED/PATCHED AS REQUIRED TO RECEIVE NEW FINISHES.

DEMOLITION PLAN NOTES (X)

1	REFERENCE PROJECT 224023.01 FOR PREVIOUS DEMOLITION WORK, INCLUDING BUT NOT LIMITED TO: CEILINGS, PLUMBING/MECHANICAL/ELECTRICAL/TECHNOLOGY COMPONENTS, STRUCTURE, ETC.
2	REMOVE EXISTING BROADLOOM CARPET AND CARPET BASE COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE FOR NEW FINISHES, SEE FINISH PLANS.
3	BASE BID: EXISTING WAXED SHEET VINYL FLOORING AND CARPET BASE TO REMAIN. ALTERNATE #1 BID: EXISTING WAXED SHEET VINYL FLOORING TO REMAIN. REMOVE EXISTING CARPET BASE COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE TO RECEIVE A NEW LAYER OF GYPSUM WALLBOARD, SEE PLANS.
4	REMOVE EXISTING LVT FLOORING AND RUBBER BASE COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE FOR NEW FINISHES, SEE FINISH PLANS.
5	EXISTING TERRAZZO FLOORING TO REMAIN.
6	EXISTING TERRAZZO FLOORING/STAIRS AND INTEGRAL BASE TO REMAIN.
7	EXISTING FLOOR TILE TO REMAIN.
8	EXISTING WALL TILE TO REMAIN.
9	EXISTING WALL TILE WAINSCOT TO REMAIN. PREPARE WALL TILE TO RECEIVE NEW FINISHES, SEE FINISH PLANS.
10	REMOVE EXISTING RUBBER BASE COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE FOR NEW FINISHES, SEE FINISH PLANS.
11	BASE BID: EXISTING WALLCOVERING TO REMAIN. PREPARE FOR NEW FINISH, SEE FINISH PLANS. ALTERNATE #1 BID: REMOVE EXISTING WALLCOVERING COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE TO RECEIVE A NEW LAYER OF GYPSUM WALLBOARD, SEE PLANS.
12	EXISTING PLUMBING FIXTURES, TOILET PARTITIONS, AND ACCESSORIES TO REMAIN.
13	EXISTING CASEWORK TO REMAIN. SEE FINISH PLANS FOR EXTENT OF NEW FINISH.
14	EXISTING WOOD DOOR AND FRAME TO REMAIN.
15	EXISTING HOLLOW METAL DOOR AND FRAME TO REMAIN. PREPARE DOOR AND FRAME TO RECEIVE NEW FINISHES, SEE FINISH PLANS.
16	EXISTING METAL LOCKERS TO REMAIN.
17	REMOVE EXISTING METAL LOCKERS, WOOD BLOCKING, AND RESILIENT BASE. SALVAGE LOCKERS FOR REINSTALLATION ON FIRST FLOOR OF HIGH SCHOOL.
18	BASE BID: EXISTING VISUAL DISPLAY BOARD TO REMAIN. ALTERNATE #1 BID: REMOVE EXISTING VISUAL DISPLAY BOARD, SALVAGE FOR REINSTALLATION. NOTE EXISTING LOCATION AND MOUNTING HEIGHT.
19	REMOVE EXISTING WALL-MOUNTING SHELVING UNIT, SALVAGE FOR REINSTALLATION. NOTE EXISTING LOCATION AND MOUNTING HEIGHT.
20	REMOVE EXISTING WALL CARPET COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE FOR NEW FINISHES, SEE FINISH PLANS. EXISTING TERRAZZO INTEGRAL BASE TO REMAIN.
21	DEMOLISH EXISTING CERAMIC WALL TILE AND TILE BACKER BOARD COMPLETELY. PREPARE WALL FRAMING TO RECEIVE NEW GYPSUM WALLBOARD, SEE PLANS.
22	DEMOLISH EXISTING CERAMIC WALL TILE AND TILE BACKER BOARD COMPLETELY. PREPARE WALL FRAMING TO RECEIVE NEW TILE BACKER BOARD, SEE PLANS.
23	DEMOLISH EXISTING KILN. REMOVE ALL WIRING AND CONDUIT BACK TO PANEL BOARD COMPLETE. REMOVE EXHAUST COMPLETELY.
24	DEMOLISH EXISTING SPRAY BOOTH. REMOVE ALL WIRING AND CONDUIT BACK TO PANEL BOARD COMPLETE. REMOVE EXHAUST COMPLETELY.
25	DEMOLISH EXISTING WOOD CASEWORK AND PLASTIC LAMINATE COUNTERTOPS/ BACKSPLASHES.
26	DEMOLISH EXISTING WOOD CASEWORK AND EPOXY RESIN COUNTERTOPS.
27	DEMOLISH EXISTING WOOD CASEWORK AND STAINLESS STEEL COUNTERTOP/SINK ASSEMBLY AND ALL ASSOCIATED PIPING AND TRIM COMPLETE. REMOVE EXISTING HOT AND COLD WATER SUPPLY PIPING BACK TO WALL AND PREPARE REMAINING PIPING FOR CONNECTION TO NEW. REMOVE WASTE PIPING BACK TO WALL AND PREPARE REMAINING PIPE FOR CONNECTION NEW.
28	DEMOLISH EXISTING CEILING-MOUNTING PROJECTION SCREEN COMPLETELY.
29	REMOVE EXISTING METAL LOCKERS AND METAL BASE. SALVAGE FOR RELOCATION TO FIRST FLOOR OF MIDDLE SCHOOL.
30	BASE BID: EXISTING LVT FLOORING AND RUBBER BASE TO REMAIN. ALTERNATE #1 BID: REMOVE EXISTING RUBBER BASE COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE TO RECEIVE A NEW LAYER OF GYPSUM WALLBOARD, SEE PLANS.
31	ALTERNATE #2 BID: REMOVE EXISTING CASEWORK COUNTERTOP COMPLETELY. PREPARE EXISTING CASEWORK TO RECEIVE NEW COUNTERTOP, SEE FINISH PLANS.
32	EXISTING WALL MURAL TO REMAIN, PROTECT THROUGHOUT DURATION OF WORK.
33	BASE BID: EXISTING WALLCOVERING TO REMAIN. PREPARE FOR NEW FINISH, SEE FINISH PLANS. ALTERNATE #3 BID: REMOVE EXISTING WALLCOVERING COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE TO RECEIVE A NEW LAYER OF GYPSUM WALLBOARD, SEE PLANS.
34	REMOVE EXISTING WALL-MOUNTED SUPPLY AIR GRILLE, SEE MECHANICAL DRAWINGS. PREPARE OPENING TO RECEIVE INFILL WALL CONSTRUCTION.
35	REMOVE EXISTING VINYL WALLCOVERING WHERE INDICATED; BASE BID: PREPARE FOR NEW VINYL WALLCOVERING INSTALLATION ALTERNATE #1 BID: REMOVE EXISTING WALLCOVERING COMPLETELY INCLUDING ADHESIVES. PREPARE SUBSTRATE TO RECEIVE A NEW LAYER OF GYPSUM WALLBOARD, SEE PLANS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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FANNING HOWEY
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350 E NEW YORK ST, STE#300, INDIANAPOLIS, IN 46204

KEY PLAN
A B C

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: NVW
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

UNIT 'A' THIRD FLOOR DEMOLITION PLAN

AD1.3A

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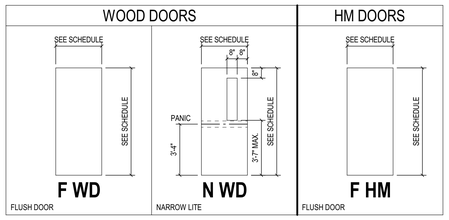
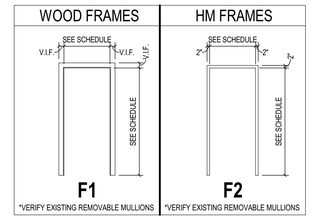


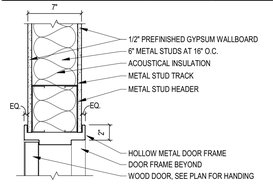
LEGEND - DOOR TYPES



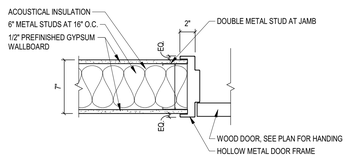
LEGEND - FRAME TYPES

DOOR AND FRAME SCHEDULE - TEMPORARY CLASSROOMS

DOOR MARK	DOORS: DOOR SIZE (WxH)	DOORS: DOOR TYPE	FRAME: FRAME MATERIAL	FRAME: FRAME ELEVATION	FRAME: DETAILS: HEAD	FRAME: DETAILS: JAMB	FRAME: DETAILS: SILL	FIRE RATING	HARDWARE: SET NO.	HARDWARE: KEYSIDE ROOM	STC RATING	REMARKS	DOOR MARK
A-127	PR 2'-6" x 7'-0"	N WD	WD	F1	EXISTING	EXISTING	EXISTING		EXISTING	EXT		EXISTING TO REMAIN	A-127
A-129	3'-0" x 7'-0"	N WD	WD	F1	EXISTING	EXISTING	EXISTING		EXISTING	EXT		EXISTING TO REMAIN	A-129
A-130	3'-0" x 7'-0"	N WD	WD	F1	EXISTING	EXISTING	EXISTING		EXISTING	EXT		EXISTING TO REMAIN	A-130
A-130a	3'-0" x 7'-0"	F WD	HM	F2	H1	J1				EXT			A-130a
A-130b	3'-0" x 7'-0"	F WD	HM	F2	H1	J1				EXT			A-130b
A-130c	3'-0" x 7'-0"	F WD	HM	F2	H1	J1				EXT			A-130c
A-130d	3'-0" x 7'-0"	F WD	HM	F2	H1	J1				EXT			A-130d
A-133	PR 3'-0" x 7'-0"	N WD	WD	F1	EXISTING	EXISTING	EXISTING		EXISTING	EXT		EXISTING TO REMAIN	A-133
A-151	PR 3'-0" x 7'-0"	F HM	HM	F2	EXISTING	EXISTING	EXISTING	3 HR	EXISTING	EXT		EXISTING TO REMAIN	A-151



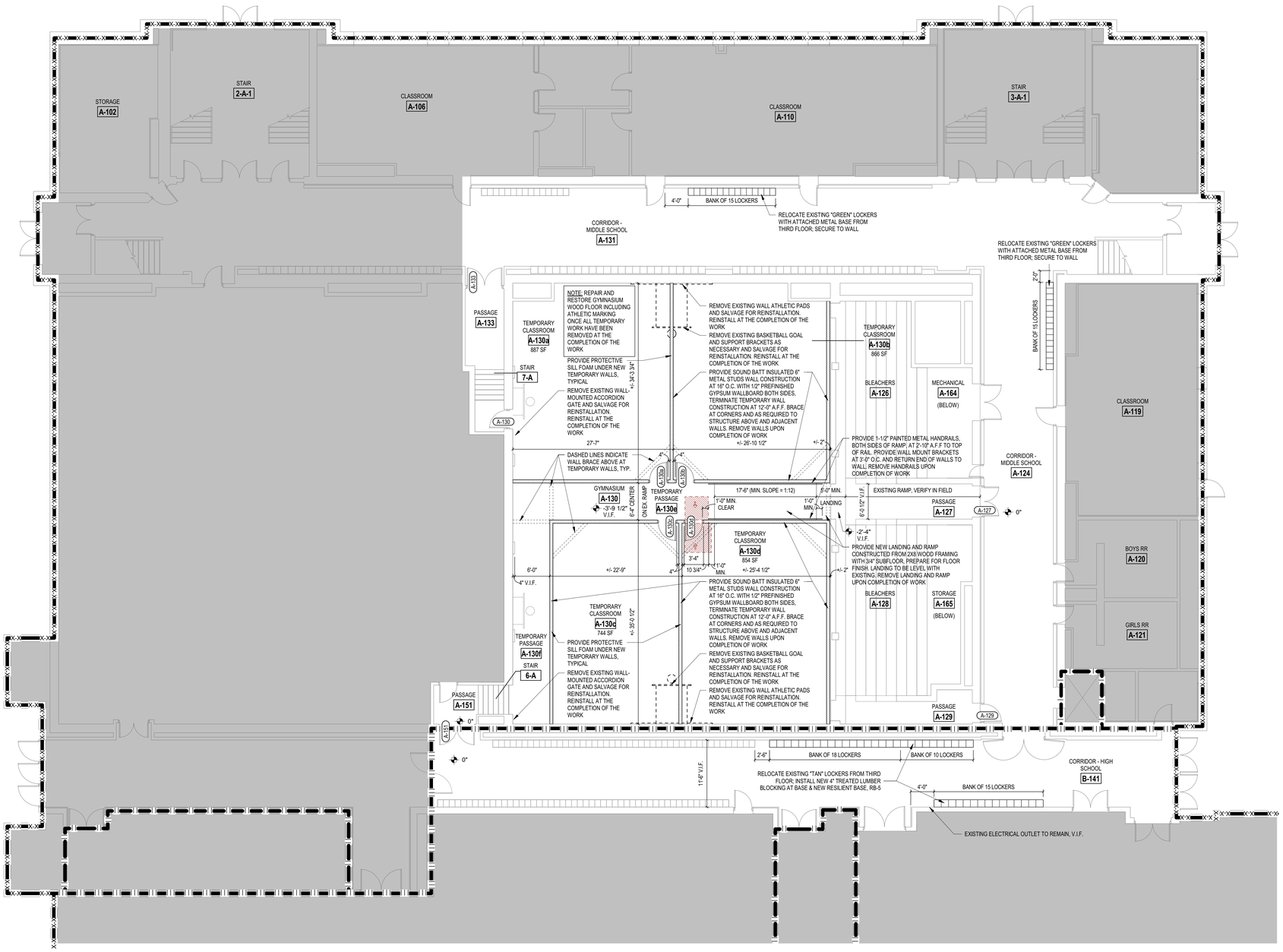
H1 - HEAD DETAIL



J1 - JAMB DETAIL

NOTE:
SEE PROJECT 224023.01 WHITING HIGH SCHOOL - AUDITORIUM IMPROVEMENTS FOR PREVIOUSLY ISSUED WORK, INCLUDING BUT NOT LIMITED TO: DEMOLITION WORK FROM THE CEILING AND ABOVE AND NEW ROOF WORK ABOVE THE DECK.

NOTE:
SEE A1.00 OVERALL BUILDING AERIAL FOR BUILDING CODE INFORMATION AND LIFE SAFETY LEGEND.



1 UNIT 'A' FIRST FLOOR PLAN

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE ELEVATIONS INDICATED WITHIN THIS PROJECT UTILIZE ELEVATIONS SET IN THE 1984 ADDITIONS AND RENOVATION DRAWINGS.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
F. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
G. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS
H. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL/WOOD STUD WALLS FOR WALL MOUNTED ITEMS.
I. REFER TO FLOOR PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
J. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

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SCHOOL CITY OF WHITING

ARCHITECT

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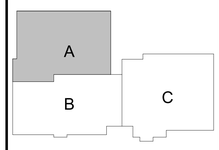


KEY PLAN N

CONSTRUCTION DOCUMENTS

PROJECT MANAGER: NVW
DRAWN BY: AML
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

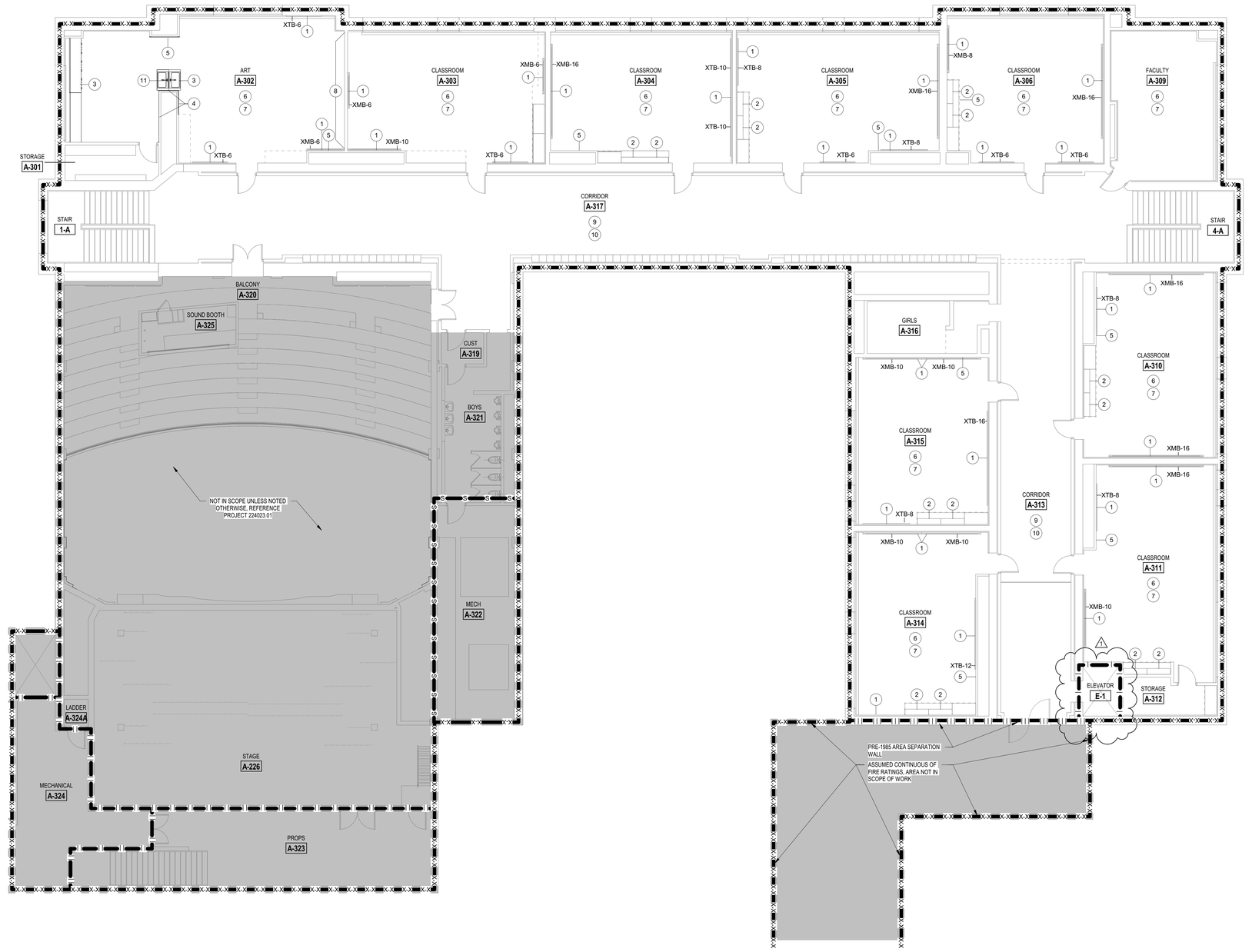
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

UNIT 'A' FIRST FLOOR PLAN

A1.1A

NOTE:
SEE A1.00 OVERALL BUILDING AERIAL FOR BUILDING CODE INFORMATION AND LIFE SAFETY LEGEND.

NOTE:
SEE PROJECT 224023.01 WHITING HIGH SCHOOL - AUDITORIUM IMPROVEMENTS FOR PREVIOUSLY ISSUED WORK, INCLUDING BUT NOT LIMITED TO: DEMOLITION WORK FROM THE CEILING AND ABOVE AND NEW ROOF WORK ABOVE THE DECK.



1 UNIT 'A' THIRD FLOOR PLAN

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE ELEVATIONS INDICATED WITHIN THIS PROJECT UTILIZE ELEVATIONS SET IN THE 1984 ADDITIONS AND RENOVATION DRAWINGS.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
F. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
G. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
H. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL/WOOD STUD WALLS FOR WALL MOUNTED ITEMS.
I. REFER TO FLOOR PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
J. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1	BASE BID: EXISTING VISUAL DISPLAY UNIT TO REMAIN. ALTERNATE #1 BID: REINSTALL SALVAGED VISUAL DISPLAY UNIT, INCLUDING BUT NOT LIMITED TO: VISUAL DISPLAY BOARD, DISPLAY RAIL, TRAYS, AND FLAG MOUNTS/FLAGS. REINSTALL AT PREVIOUS LOCATION AND MOUNTING HEIGHT, UNLESS NOTED OTHERWISE.
2	REINSTALL SALVAGED WALL-MOUNTING SHELVING, INCLUDING BUT NOT LIMITED TO: STANDARDS, BRACKETS, AND SHELVES. REINSTALL AT PREVIOUS LOCATION AND MOUNTING HEIGHT, UNLESS NOTED OTHERWISE.
3	PROVIDE NEW CASEWORK. SEE FINISH PLANS AND ELEVATIONS FOR MORE INFORMATION.
4	PROVIDE NEW TILE BACKER BOARD OVER EXISTING WALL FRAMING. SEE FINISH PLANS FOR NEW TILE INFORMATION.
5	PROVIDE NEW 5/8" GYPSUM WALLBOARD OVER EXISTING WALL FRAMING, INFILL EXISTING WALL FRAMING AS NECESSARY WITH NEW WALL FRAMING. SEE FINISH PLANS FOR MORE INFORMATION.
6	BASE BID: SEE FINISH PLANS FOR NEW WALL FINISH. ALTERNATE #1 BID: PROVIDE NEW 1/4" GYPSUM WALLBOARD AT ALL WALL AND BULKHEAD SURFACES AT LOCATION OF REMOVED WALLCOVERING. PREPARE SURFACES TO RECEIVE NEW PAINTED FINISH, SEE FINISH PLANS. PROVIDE 1/4" TEAR AWAY L BEAD/TRIM AT LOCATIONS WHERE NEW GYPSUM WALLBOARD ABUTS AN EXISTING CONDITION, INCLUDING BUT NOT LIMITED TO: EXISTING CASEWORK, WINDOW SILLS, PAINTED WALL MURAL, MECHANICAL EQUIPMENT, DOOR FRAMES, WINDOW FRAMES, ETC.
7	ALTERNATE #1 BID: REMOVE ALL WALL-MOUNTED DEVICES AS NECESSARY FOR INSTALLATION OF NEW GYPSUM WALLBOARD, INCLUDING BUT NOT LIMITED TO: CLOCKS, ELECTRICAL OUTLETS, SWITCHES, SENSORS, MECHANICAL DIFFUSERS/GRILLES, ETC. EXTEND ROUGH-INS AS NECESSARY AND REINSTALL ALL WALL-MOUNTED DEVICES.
8	EXISTING WALL MURAL TO REMAIN, PROTECT THROUGHOUT DURATION OF WORK.
9	BASE BID: SEE FINISH PLANS FOR NEW WALL FINISH. ALTERNATE #3 BID: PROVIDE NEW 1/4" GYPSUM WALLBOARD AT ALL WALL AND BULKHEAD SURFACES AT LOCATION OF REMOVED WALLCOVERING. PREPARE SURFACES TO RECEIVE NEW PAINTED FINISH, SEE FINISH PLANS. PROVIDE 1/4" TEAR AWAY L BEAD/TRIM AT LOCATIONS WHERE NEW GYPSUM WALLBOARD ABUTS AN EXISTING CONDITION, INCLUDING BUT NOT LIMITED TO: EXISTING CASEWORK, WINDOW SILLS, PAINTED WALL MURAL, MECHANICAL EQUIPMENT, DOOR FRAMES, WINDOW FRAMES, TRANSITION TO EXISTING WALL TILE, ETC.
10	ALTERNATE #3 BID: REMOVE ALL WALL-MOUNTED DEVICES AS NECESSARY FOR INSTALLATION OF NEW GYPSUM WALLBOARD, INCLUDING BUT NOT LIMITED TO: CLOCKS, ELECTRICAL OUTLETS, SWITCHES, SENSORS, MECHANICAL DIFFUSERS/GRILLES, ETC. EXTEND ROUGH-INS AS NECESSARY AND REINSTALL ALL WALL-MOUNTED DEVICES.
11	PROVIDE (2) SINK FAUCETS (CENTERED BETWEEN SINK BOWLS) AS REQUIRED. EXTEND 1/2" HOT AND COLD WATER FROM EXISTING ROUGH-INS TO EACH SINK FAUCET. MAKE FINAL CONNECTIONS AS REQUIRED. SINK FAUCETS SHALL BE CHICAGO MODEL 786-GN10AE35WGABCP OR APPROVED EQUAL. MANIFOLD (2) SINK OUTLETS TOGETHER AND ROUTE TO UNDERCOUNTER POINT-OF-USE SOLIDS INTERCEPTOR, ZURN MODEL Z-1180 OR APPROVED EQUAL. EXTEND OUTLET PIPING TO EXISTING WASTE ROUGH-IN AT EXISTING WALL. MAKE FINAL CONNECTION AS REQUIRED. PROVIDE BALL-TYPE SHUTOFF VALVES ON HOT AND COLD WATER SUPPLIES.

VERIFICATION NOTE

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A
B C

KEY PLAN N

CONSTRUCTION DOCUMENTS

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DRAWN BY: NVW
PROJECT NUMBER: 224151.00
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UNIT 'A' THIRD FLOOR PLAN

A1.3A

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1 UNIT 'A' THIRD FLOOR REFLECTED CEILING PLAN

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

NOTE:
SEE A1.00 OVERALL BUILDING AERIAL FOR BUILDING CODE INFORMATION AND LIFE SAFETY LEGEND.

NOTE:
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REFLECTED CEILING PLAN NOTES

A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE.
B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING PLAN LEGEND

- 10'-4" — INDICATES ELEVATION HEIGHT
- XX'-XX" — INDICATES CEILING HEIGHT
- X1 XX'-XX" — INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- IC — RECESSED CEILING SPEAKER
- M — MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CAM — CEILING MOUNTED CAMERA
- W — WIRELESS ACCESS POINT (WAP)
- CJ — CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- S — SOUND REINFORCEMENT SPEAKER
- H — FIRE ALARM HEAT DETECTOR
- F — FIRE ALARM HORN STROBE
- S — FIRE ALARM SPEAKER STROBE
- V — FIRE ALARM STROBE
- P — FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) / EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

VERIFICATION NOTE

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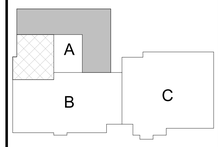

KEY PLAN

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
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REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

UNIT 'A' THIRD FLOOR REFLECTED CEILING PLAN

AC1.3A

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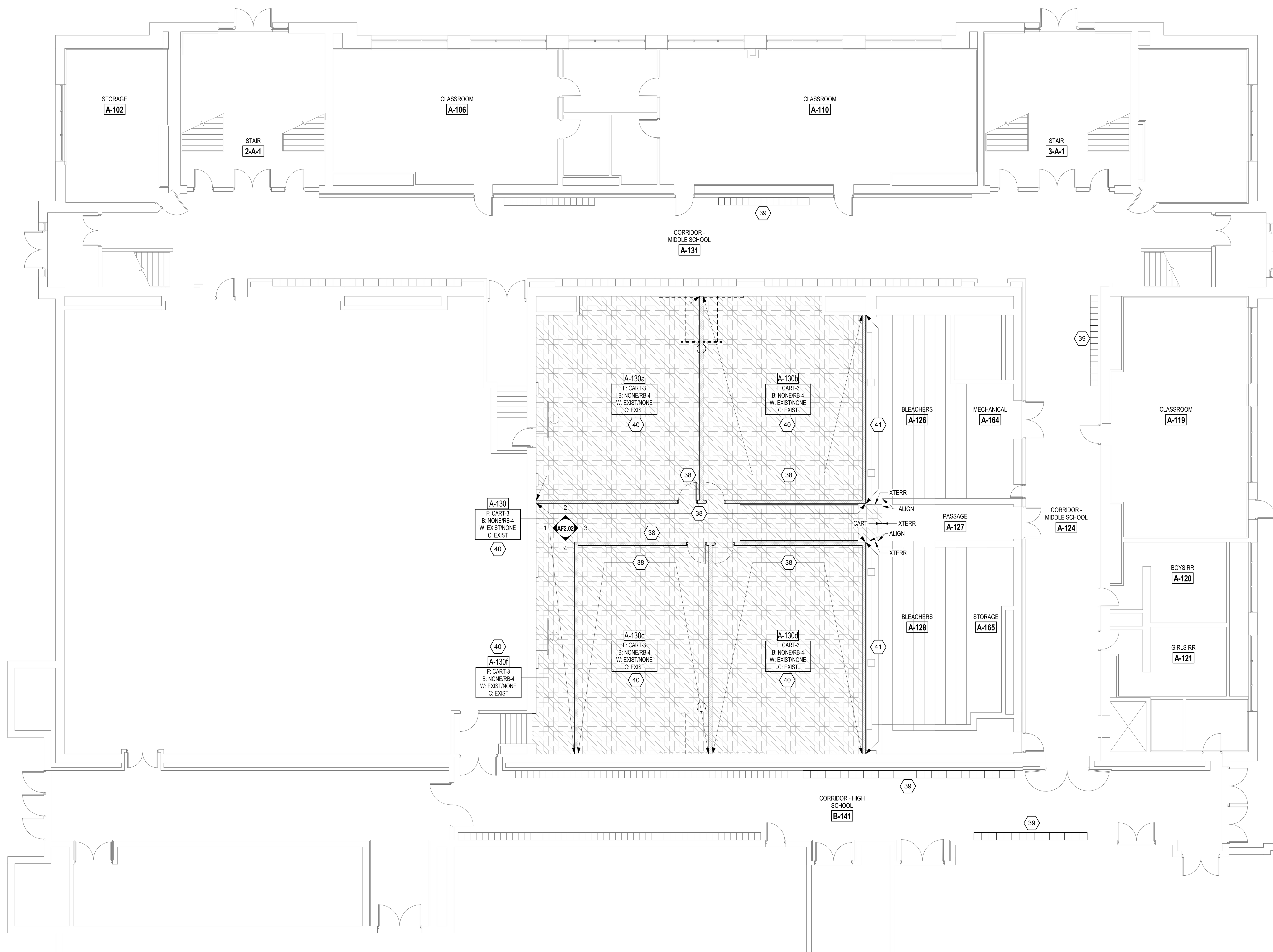
WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

1800 NEW YORK AVENUE
WHITING, IN 46394

SCHOOL CITY OF WHITING

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
2-A-1		STAIR	607 SF
3-A-1		STAIR	616 SF
6-A		STAIR	30 SF
7-A		STAIR	53 SF
A-102		STORAGE	409 SF
A-106	101	CLASSROOM	799 SF
A-110	102	CLASSROOM	1,162 SF
A-119		CLASSROOM	867 SF
A-120		BOYS RR	221 SF
A-121		GIRLS RR	203 SF
A-124		CORRIDOR - MIDDLE SCHOOL	943 SF
A-126		BLEACHERS	471 SF
A-127		PASSAGE	155 SF
A-128		BLEACHERS	479 SF
A-129		PASSAGE	117 SF
A-130		GYMNASIUM	346 SF
A-130a		TEMPORARY CLASSROOM	887 SF
A-130b		TEMPORARY CLASSROOM	866 SF
A-130c		TEMPORARY CLASSROOM	744 SF
A-130d		TEMPORARY CLASSROOM	854 SF
A-130f		TEMPORARY PASSAGE	221 SF
A-131		CORRIDOR - MIDDLE SCHOOL	2,547 SF
A-133		PASSAGE	92 SF
A-151		PASSAGE	51 SF
A-164		MECHANICAL	162 SF
A-165		STORAGE	178 SF
B-141		CORRIDOR - HIGH SCHOOL	1,524 SF



1 UNIT 'A' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
C. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO CASEWORK, THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
D. RESILIENT TRANSITION STRIP BETWEEN NEW FLOOR FINISH AND EXISTING FLOOR FINISH.
E. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO EXISTING FLOOR FINISH.
F. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS, TO RECEIVE NEW FINISHES.
G. "REPAIR" OF EXISTING VINYL WALLCOVERING (XVWC) MEANS THAT ANY LOCATIONS WHERE DRYWALL IS VISIBLE SHOULD BE REPAIRED; ANY HOLES SMALLER THAN 1" SHOULD BE FILLED WITH PAINTABLE SEALANT. ANY DAMAGE LARGER THAN 1" DIAMETER SHOULD BE PATCHED WITH NEW VWC TO BEST MATCH EXISTING VWC TEXTURE AS INDICATED IN KEYNOTES. WHERE XVWC IS LOOSE AND NOTED TO REMAIN, RE-GLUE TO SUBSTRATE PRIOR TO PAINTING.
H. "REPAIR" OF EXISTING CERAMIC MOSAIC TILE (XCMT) MEANS THAT ANY LOCATIONS WHERE TILE HAS A HOLE OR CHIP SHOULD BE FILLED WITH PAINTABLE SEALANT. ANY TILE WITH DAMAGE LARGER THAN 1/2" DIAMETER SHOULD REPLACED WITH A NEW TILE TO BEST MATCH EXISTING CMT SIZE, PRIOR TO PAINTING.
I. EXISTING DOOR FRAMES ARE STAINED WOOD AND ARE TO REMAIN; PROTECT DURING CONSTRUCTION.
J. (XMB-?) INDICATES EXISTING MARKERBOARDS IN LENGTH INDICATED. LENGTHS PROVIDED MAY NOT BE EXACT.
K. (XTB-?) INDICATES EXISTING TACKBOARDS IN LENGTH INDICATED. LENGTHS PROVIDED MAY NOT BE EXACT.
L. (XTERR) INDICATES EXISTING TERRAZZO TO REMAIN, PROTECT DURING CONSTRUCTION.
M. (XTERRB) INDICATES EXISTING TERRAZZO COVE BASE TO REMAIN, PROTECT DURING CONSTRUCTION.
N. (XRB) INDICATES EXISTING RESILIENT BASE TO REMAIN, PROTECT DURING CONSTRUCTION.
O. (XCARB) INDICATES EXISTING CARPET BASE TO REMAIN, PROTECT DURING CONSTRUCTION. IF THE ALTERNATE IS TAKEN, THIS WILL BE REPLACED WITH NEW.
P. (XLVT) INDICATES EXISTING LUXURY VINYL TILE TO REMAIN, PROTECT DURING CONSTRUCTION.
Q. (XVWC) INDICATES EXISTING VINYL WALLCOVERING TO REMAIN, PROTECT DURING CONSTRUCTION. IF THE ALTERNATE IS TAKEN, THIS WILL BE REPLACED WITH NEW.
R. (XCMT) INDICATES EXISTING CERAMIC MOSAIC TO REMAIN, PROTECT DURING CONSTRUCTION.

FINISH & EQUIPMENT KEY NOTES (X)

1 EXISTING CERAMIC MOSAIC WALL TILE FROM TERRAZZO BASE (U.N.O.) TO CEILING; BOTH FINISHES TO REMAIN, PROTECT DURING CONSTRUCTION
2 REPAIR XCMT AND XTERR AS REQUIRED WHERE EXISTING LOCKERS WERE REMOVED
3 [BASE BID] PREPARE EXISTING CERAMIC MOSAIC WALL TILE WAINSCOT FOR PAINT (P-11); EXISTING PREVIOUSLY PAINTED VINYL WALLCOVERING ABOVE TO REMAIN
4 [BASE BID] PREPARE PREVIOUSLY PAINTED EXISTING CERAMIC MOSAIC WALL TILE WAINSCOT FOR NEW PAINT (P-11); EXISTING PREVIOUSLY PAINTED VINYL WALLCOVERING ABOVE TO REMAIN
5 INSTALL NEW WALL PROTECTION, IRWC-1, INCLUDE OUTSIDE CORNER TRIMS; EXISTING WOOD CAPS TO REMAIN; REFER TO ELEVATION 1/AF2.01
6 EXISTING BANK OF RECESSED METAL LOCKERS TO REMAIN, PROTECT DURING CONSTRUCTION
7 EXISTING APPLIED MURAL TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL NEW RESILIENT BASE, RB-2, AT EXISTING RESILIENT BASE LOCATIONS; EXISTING TERRAZZO BASE TO REMAIN
9 [ALTERNATE #1] INSTALL NEW 1/4" GYPSUM WALLBOARD ON ALL WALL SURFACES, REFER TO A1.3A; PRIME AND PAINT SURFACES, P-12 U.N.O.
10 PAINT PLASTER CEILING, P-14
11 [ALTERNATE #3] INSTALL NEW 1/4" GYPSUM WALLBOARD WITH TEAR-AWAY "L" BEAD AT BOTTOM ABOVE EXISTING TILE WAINSCOT, REFER TO A1.3A AND DETAIL 2/AF1.3A; PRIME AND PAINT SURFACES, P-12
12 NEW PL-1 CASEWORK WITH NEW STAINLESS STEEL COUNTERTOP AND SINKS, REFER TO CASEWORK SCHEDULE & DETAIL 2/AF6.01
13 INSTALL NEW CARPET, CART-3, IN HATCHED AREA; INSTALL RESILIENT TRANSITION STRIP AT TERMINATION OF CARPET TILE
14 [ALTERNATE #1] REINSTALL ALL DISPLAY BOARDS, INCLUDING BUT NOT LIMITED TO, MARKERBOARDS AND TACKBOARDS; SEE A1.3A FOR ADDITIONAL INFORMATION
15 EXISTING ACOUSTICAL WALL CARPET TO REMAIN, NOT PART OF ALTERNATE
16 EXISTING RADIATOR BELOW WINDOW TO REMAIN, DO NOT PAINT
17 [BASE BID] INSTALL NEW VWC-4 WHERE DAMAGED VWC WAS REMOVED; [ALTERNATE #1] PRIME AND PAINT NEW GYPSUM WALLBOARD SURFACE AS SCHEDULED
18 NEW CWT-1 WALL TILE AND SCHLUTER TRIMS, REFER TO ELEVATION
19 EXISTING GWB, PAINT P-12
20 EXISTING FULL HEIGHT CERAMIC MOSAIC WALL TILE TO REMAIN UNPAINTED; INSTALL NEW RESILIENT BASE, RB-2, BELOW
21 EXISTING PAINTED MURAL TO REMAIN, PROTECT DURING CONSTRUCTION
22 PAINT NEW GWB SURFACE, P-12; REFER TO A1.3A
23 INSTALL NEW RESILIENT BASE, RB-4, IF WALL ALTERNATE #1 IS ACCEPTED
24 [BASE BID] REPAIR ANY HOLES OR DAMAGED AREAS OF EXISTING VINYL WALLCOVERING PRIOR TO PAINTING, P-12; EXISTING VWC IN THIS ROOM HAS A VERY HEAVY TEXTURE
25 [BASE BID] REPAIR ANY HOLES OR DAMAGED AREAS OF EXISTING VINYL WALLCOVERING PRIOR TO PAINTING, P-12; EXISTING VWC IN THIS ROOM HAS A MEDIUM TEXTURE
26 PAINT EXISTING ELEVATOR DOOR AND FRAME, P-15
27 PAINT ALL SIDES OF EXISTING METAL DOORS AND FRAMES, P-15
28 NEW PL-1 CASEWORK WITH PL-2 COUNTERTOPS/ BACKSPLASH, REFER TO ELEVATION
29 [BASE BID] INSTALL NEW VWC-5 WHERE EXISTING VWC IS MISSING; [ALTERNATE #1] PRIME AND PAINT NEW GYPSUM WALLBOARD SURFACE AS SCHEDULED
30 [BASE BID] PAINT EXISTING WOOD TRIM, P-12; TRIM TO BE REMOVED IF WALL ALTERNATE IS ACCEPTED
31 [BASE BID] REPAIR WALL AS REQUIRED WITH 18"H CARPET BASE REMOVAL BETWEEN EXTENTS NOTED, PRIOR TO PAINTING
32 INSTALL NEW RESILIENT BASE, RB-2, BELOW EXISTING DISPLAY CASE
33 [BASE BID] SAND, REPAIR, AND RESTAIN WOOD CASEWORK DOORS, REFER TO TYPICAL ELEVATION 8/AF2.01; [ALTERNATE #2] INSTALL NEW 97" X 25" PLASTIC LAMINATE COUNTERTOP, PL-2; RADIUSED OUTSIDE CORNER
34 SAND, PRIME, AND PAINT EXISTING WOOD CABINET FRAME AND DOORS; REFER TO 9/AF2.01
35 [BASE BID] INSTALL NEW VWC-3 OVER WALL PATCH AT MECHANICAL GRILLE DEMO LOCATION; [ALTERNATE #1] PRIME AND PAINT NEW GYPSUM WALLBOARD SURFACE AS SCHEDULED
36 [BASE BID] INSTALL NEW VWC-4 OVER WALL PATCH AT MECHANICAL GRILLE DEMO LOCATION; [ALTERNATE #1] PRIME AND PAINT NEW GYPSUM WALLBOARD SURFACE AS SCHEDULED
37 [BASE BID] INSTALL NEW VWC-5 OVER WALL PATCH AT MECHANICAL GRILLE DEMO LOCATION; [ALTERNATE #1] PRIME AND PAINT NEW GYPSUM WALLBOARD SURFACE AS SCHEDULED
38 NEW PREFINISHED TEMPORARY WALL WITH VINYL WALLCOVERING FINISH; INSTALL RB-4 ON INDICATED WALLS ONLY
39 REFER TO A1.1A FOR INFORMATION ON RELOCATED LOCKERS
40 CART-3 TO BE INSTALLED AS A FLOATING FLOOR WITH MANUFACTURER'S "TACTILE" PRODUCT; REFER TO SPECIFICATIONS
41 NEW PREFINISHED TEMPORARY WALL WITH VINYL WALLCOVERING FINISH; DO NOT INSTALL BASE ON THIS SIDE OF THE WALL

FLOOR PATTERN LEGEND

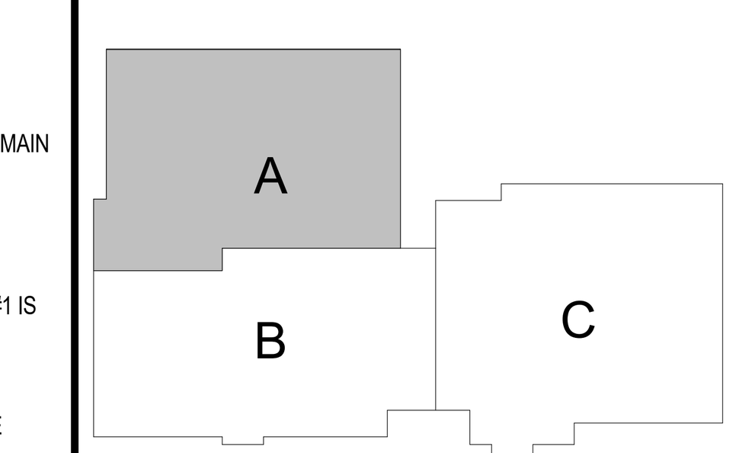
CART-3

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST, STE#300, INDIANAPOLIS, IN 46204



KEY PLAN

CONSTRUCTION DOCUMENTS

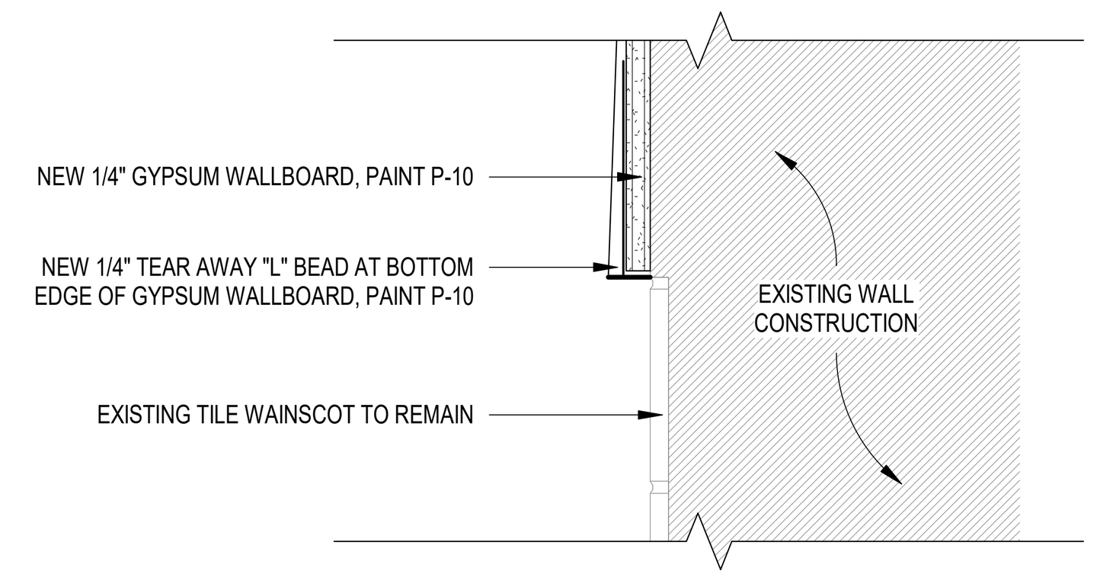
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: AML
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

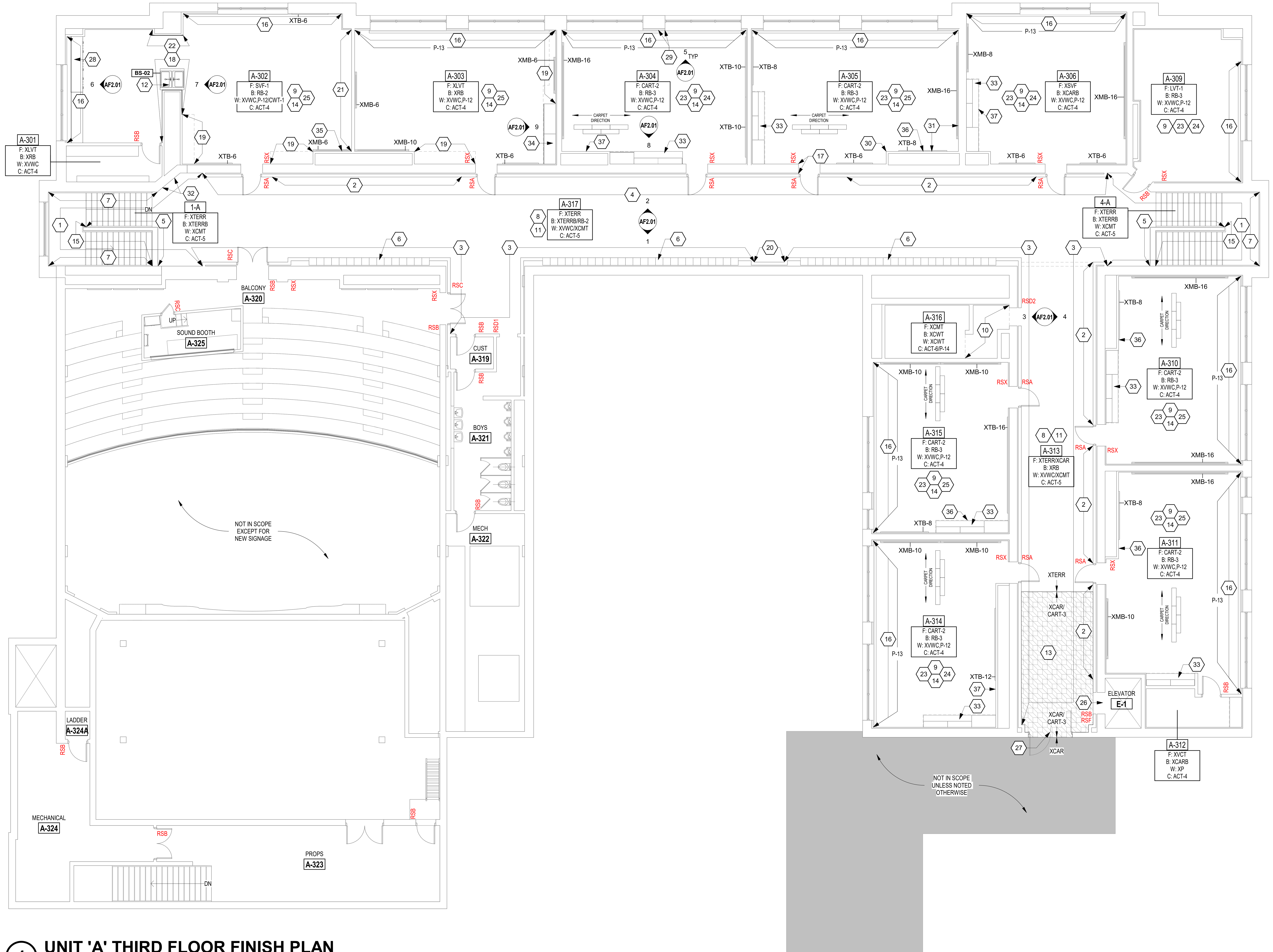
UNIT 'A' FIRST FLOOR FINISH & EQUIPMENT PLAN

AF1.1A



2 ALTERNATE - CORRIDOR WALL DETAIL

SCALE: 6" = 1'-0"



1 UNIT 'A' THIRD FLOOR FINISH PLAN

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
1-A		STAIR	233 SF
4-A		STAIR	216 SF
5-A.3		STAIR	157 SF
A-223		AUDITORIUM	3,013 SF
A-226		STAGE	2,206 SF
A-301		STORAGE	95 SF
A-302	301	ART	1,013 SF
A-303	301	CLASSROOM	727 SF
A-304	302	CLASSROOM	669 SF
A-305	303	CLASSROOM	740 SF
A-306	304	CLASSROOM	657 SF
A-309		FACULTY	431 SF
A-310	306	CLASSROOM	707 SF
A-311	308	CLASSROOM	763 SF
A-312		STORAGE	91 SF
A-313		CORRIDOR	933 SF
A-314	309	CLASSROOM	668 SF
A-315	307	CLASSROOM	636 SF
A-316		GIRLS	173 SF
A-317		CORRIDOR	2,405 SF
A-319		CUST	38 SF
A-320		BALCONY	1,490 SF
A-321		BOYS	245 SF
A-322		MECH	473 SF
A-323		PROPS	556 SF
A-324		MECHANICAL	395 SF
A-324A		LADDER	19 SF
A-324B		LIGHTS	71 SF
A-325		SOUND BOOTH	109 SF
E-1		ELEVATOR	50 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
C. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO CASEWORK, THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
D. RESILIENT TRANSITION STRIP BETWEEN NEW FLOOR FINISH AND EXISTING FLOOR FINISH.
E. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO EXISTING FLOOR FINISH.
F. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS, TO RECEIVE NEW FINISHES.
G. "REPAIR" OF EXISTING VINYL WALLCOVERING (XVWC) MEANS THAT ANY LOCATIONS WHERE DRYWALL IS VISIBLE SHOULD BE REPAIRED; ANY HOLES SMALLER THAN 1" SHOULD BE FILLED WITH PAINTABLE SEALANT. ANY DAMAGE LARGER THAN 1" DIAMETER SHOULD BE PATCHED WITH NEW VWC TO BEST MATCH EXISTING VWC TEXTURE AS INDICATED IN KEYNOTES. WHERE XVWC IS LOOSE AND NOTED TO REMAIN, RE-GLUE TO SUBSTRATE PRIOR TO PAINTING.
H. "REPAIR" OF EXISTING CERAMIC MOSAIC TILE (XCMT) MEANS THAT ANY LOCATIONS WHERE TILE HAS A HOLE OR CHIP SHOULD BE FILLED WITH PAINTABLE SEALANT. ANY TILE WITH DAMAGE LARGER THAN 1/2" DIAMETER SHOULD REPLACED WITH A NEW TILE TO BEST MATCH EXISTING CMT SIZE, PRIOR TO PAINTING.
I. EXISTING DOOR FRAMES ARE STAINED WOOD AND ARE TO REMAIN; PROTECT DURING CONSTRUCTION.
J. (XMB-?) INDICATES EXISTING MARKERBOARDS IN LENGTH INDICATED. LENGTHS PROVIDED MAY NOT BE EXACT.
K. (XTB-?) INDICATES EXISTING TACKBOARDS IN LENGTH INDICATED. LENGTHS PROVIDED MAY NOT BE EXACT.
L. (XTERR) INDICATES EXISTING TERRAZZO TO REMAIN, PROTECT DURING CONSTRUCTION.
M. (XTERRB) INDICATES EXISTING TERRAZZO COVE BASE TO REMAIN, PROTECT DURING CONSTRUCTION.
N. (XRB) INDICATES EXISTING RESILIENT BASE TO REMAIN, PROTECT DURING CONSTRUCTION.
O. (XCARB) INDICATES EXISTING CARPET BASE TO REMAIN, PROTECT DURING CONSTRUCTION. IF THE ALTERNATE IS TAKEN, THIS WILL BE REPLACED WITH NEW.
P. (XLVT) INDICATES EXISTING LUXURY VINYL TILE TO REMAIN, PROTECT DURING CONSTRUCTION.
Q. (XVWC) INDICATES EXISTING VINYL WALLCOVERING TO REMAIN, PROTECT DURING CONSTRUCTION. IF THE ALTERNATE IS TAKEN, THIS WILL BE REPLACED WITH NEW.
R. (XCMT) INDICATES EXISTING CERAMIC MOSAIC TO REMAIN, PROTECT DURING CONSTRUCTION.

FINISH & EQUIPMENT KEY NOTES (X)

1 EXISTING CERAMIC MOSAIC WALL TILE FROM TERRAZZO BASE (U.N.O.) TO CEILING; BOTH FINISHES TO REMAIN, PROTECT DURING CONSTRUCTION
2 REPAIR XCMT AND XTERR AS REQUIRED WHERE EXISTING LOCKERS WERE REMOVED
3 [BASE BID] PREPARE EXISTING CERAMIC MOSAIC WALL TILE WAINSCOT FOR PAINT (P-11); EXISTING PREVIOUSLY PAINTED VINYL WALLCOVERING ABOVE TO REMAIN
4 [BASE BID] PREPARE PREVIOUSLY PAINTED EXISTING CERAMIC MOSAIC WALL TILE WAINSCOT FOR NEW PAINT (P-11); EXISTING PREVIOUSLY PAINTED VINYL WALLCOVERING ABOVE TO REMAIN
5 INSTALL NEW WALL PROTECTION, IRWC-1, INCLUDE OUTSIDE CORNER TRIMS; EXISTING WOOD CAPS TO REMAIN; REFER TO ELEVATION 1/AF2.01
6 EXISTING BANK OF RECESSED METAL LOCKERS TO REMAIN, PROTECT DURING CONSTRUCTION
7 EXISTING APPLIED MURAL TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL NEW RESILIENT BASE, RB-2, AT EXISTING RESILIENT BASE LOCATIONS; EXISTING TERRAZZO BASE TO REMAIN
9 [ALTERNATE #1] INSTALL NEW 1/4" GYPSUM WALLBOARD ON ALL WALL SURFACES, REFER TO A1.3A; PRIME AND PAINT SURFACES, P-12 U.N.O.
10 PAINT PLASTER CEILING, P-14
11 [ALTERNATE #3] INSTALL NEW 1/4" GYPSUM WALLBOARD WITH TEAR-AWAY "L" BEAD AT BOTTOM ABOVE EXISTING TILE WAINSCOT, REFER TO A1.3A AND DETAIL 2/AF1.3A; PRIME AND PAINT SURFACES, P-12
12 NEW PL-1 CASEWORK WITH NEW STAINLESS STEEL COUNTERTOP AND SINKS, REFER TO CASEWORK SCHEDULE & DETAIL 2/AF6.01
13 INSTALL NEW CARPET, CART-3, IN HATCHED AREA; INSTALL RESILIENT TRANSITION STRIP AT TERMINATION OF CARPET TILE
14 [ALTERNATE #1] REINSTALL ALL DISPLAY BOARDS, INCLUDING BUT NOT LIMITED TO, MARKERBOARDS AND TACKBOARDS; SEE A1.3A FOR ADDITIONAL INFORMATION
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39 REFER TO A1.1A FOR INFORMATION ON RELOCATED LOCKERS
40 CART-3 TO BE INSTALLED AS A FLOATING FLOOR WITH MANUFACTURER'S "TACTILE" PRODUCT; REFER TO SPECIFICATIONS
41 NEW PREFINISHED TEMPORARY WALL WITH VINYL WALLCOVERING FINISH; DO NOT INSTALL BASE ON THIS SIDE OF THE WALL

1

FLOOR PATTERN LEGEND

CART-3 1

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

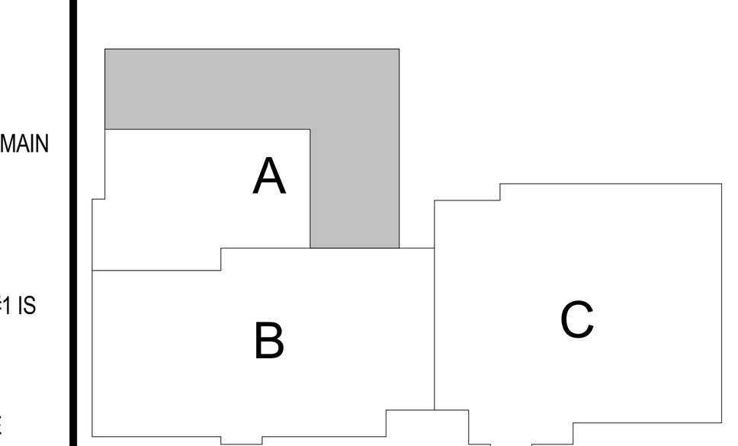
1800 NEW YORK AVENUE
WHITING, IN 46394

SCHOOL CITY OF WHITING

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST, STE#300, INDIANAPOLIS, IN 46204



KEY PLAN

N

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: AML
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

UNIT 'A' THIRD FLOOR FINISH & EQUIPMENT PLAN

AF1.3A

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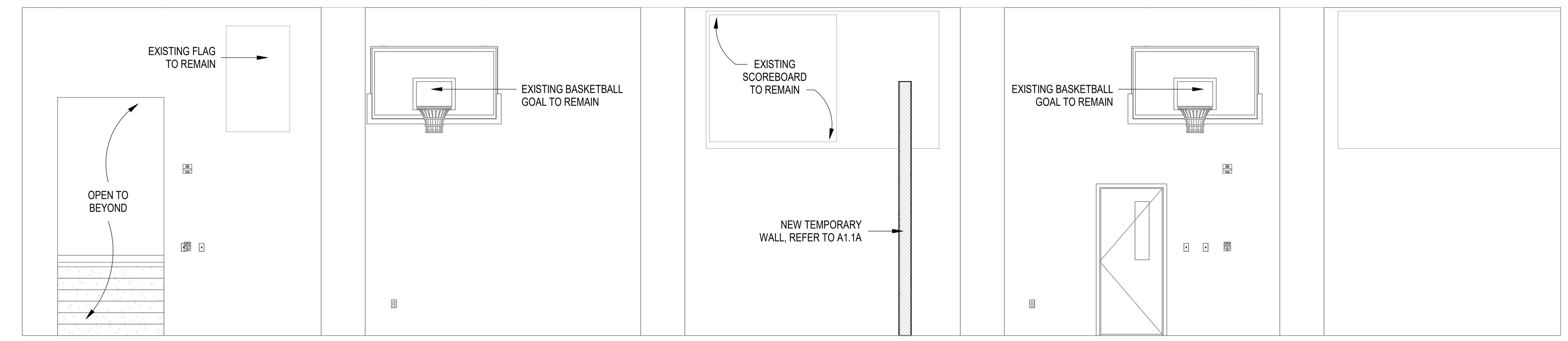
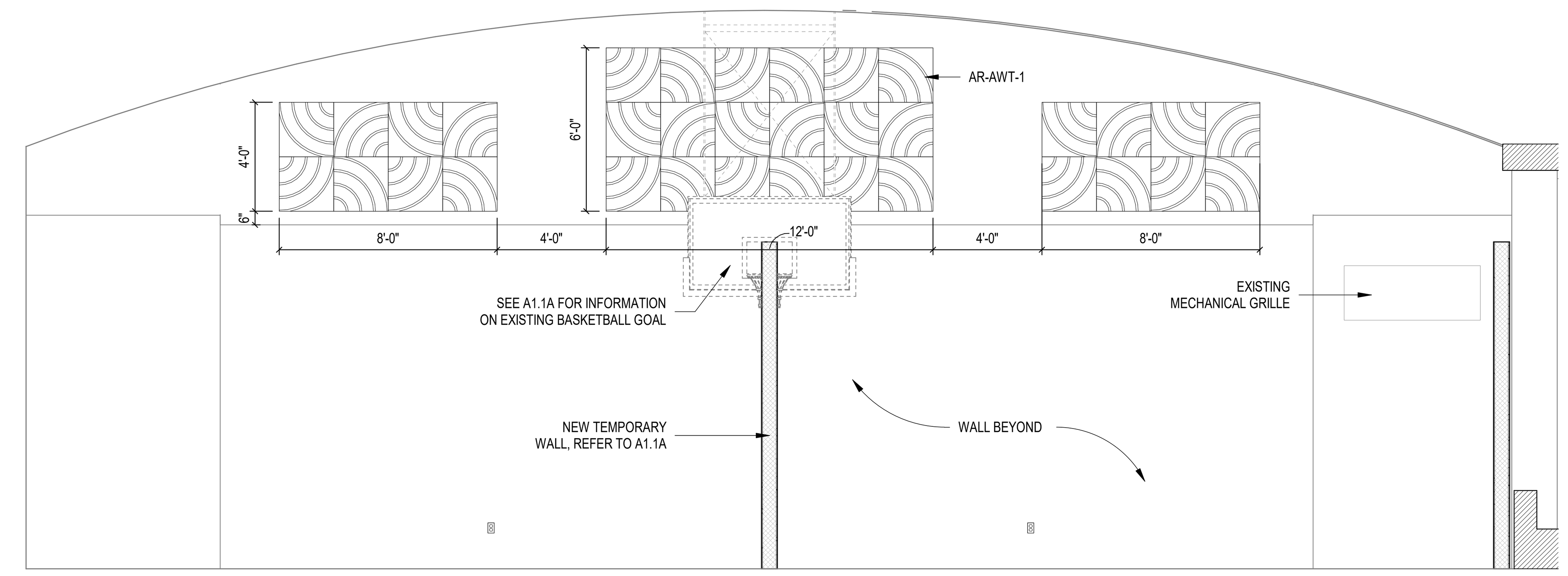


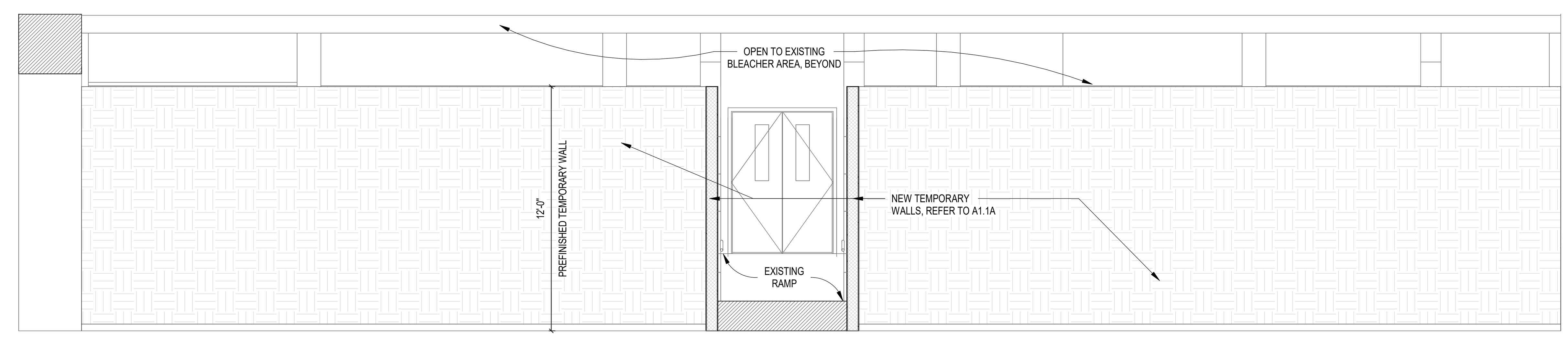
1 **GYMNASIUM - NORTH**

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



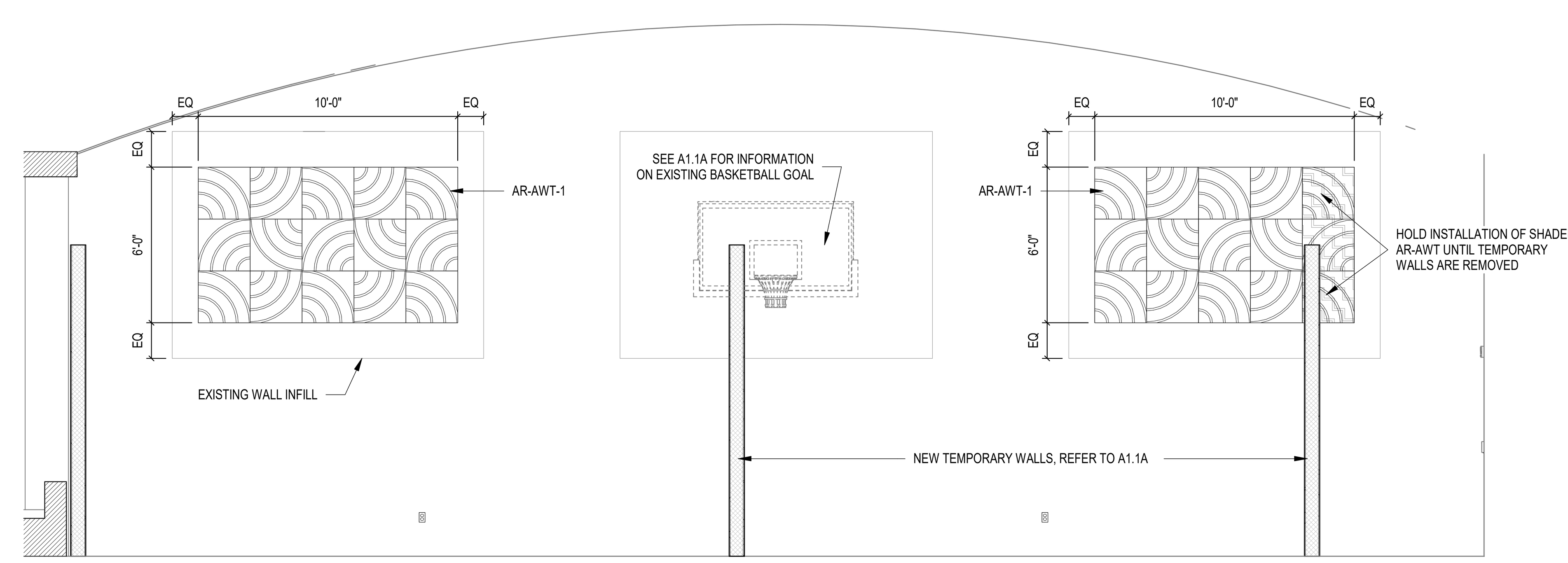
2 **GYMNASIUM - EAST**

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



3 **GYMNASIUM - SOUTH**

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



4 **GYMNASIUM - WEST**

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

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

1800 NEW YORK AVENUE
WHITING, IN 46394

SCHOOL CITY OF WHITING

ARCHITECT

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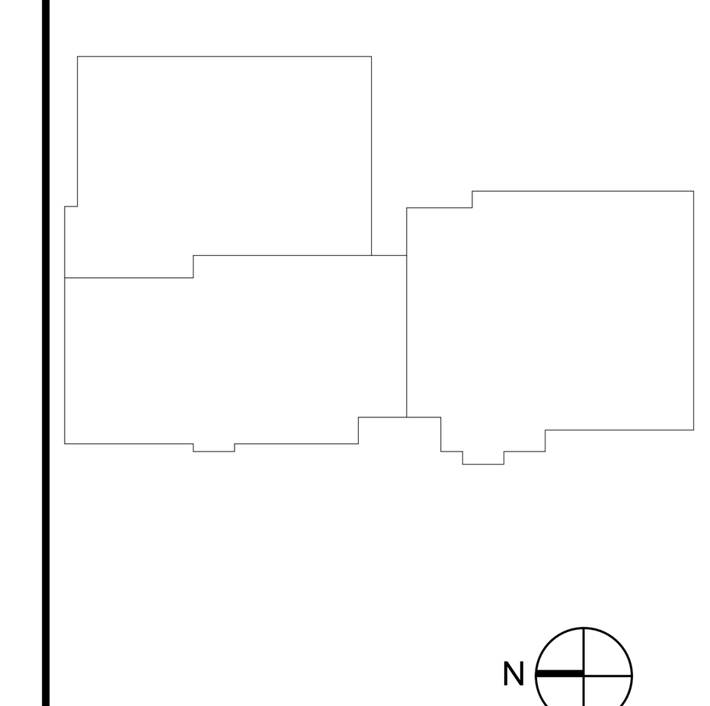

CONSTRUCTION DOCUMENTS

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PROJECT MANAGER: NVW
DRAWN BY: AML
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

INTERIOR ELEVATIONS

AF2.02

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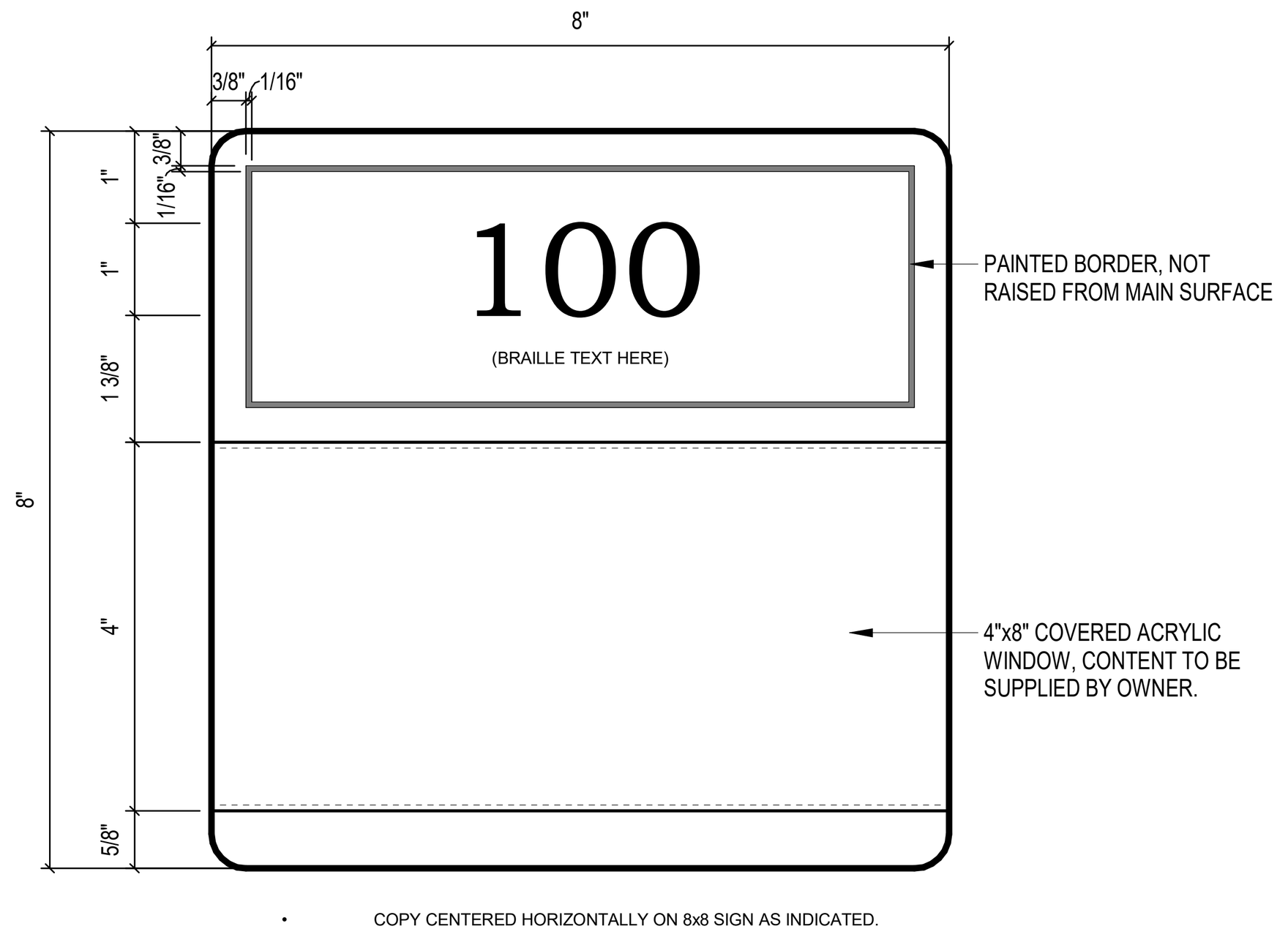

ROOM SIGN TYPE **A**
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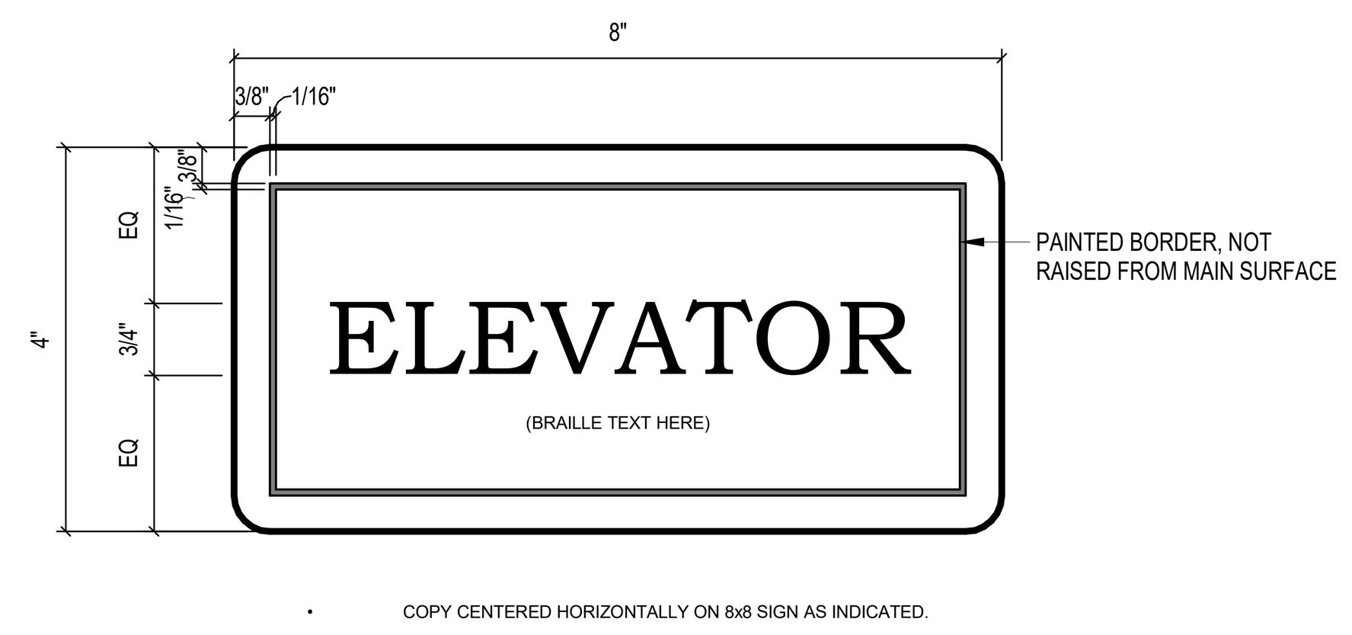

ROOM SIGN TYPE **B**
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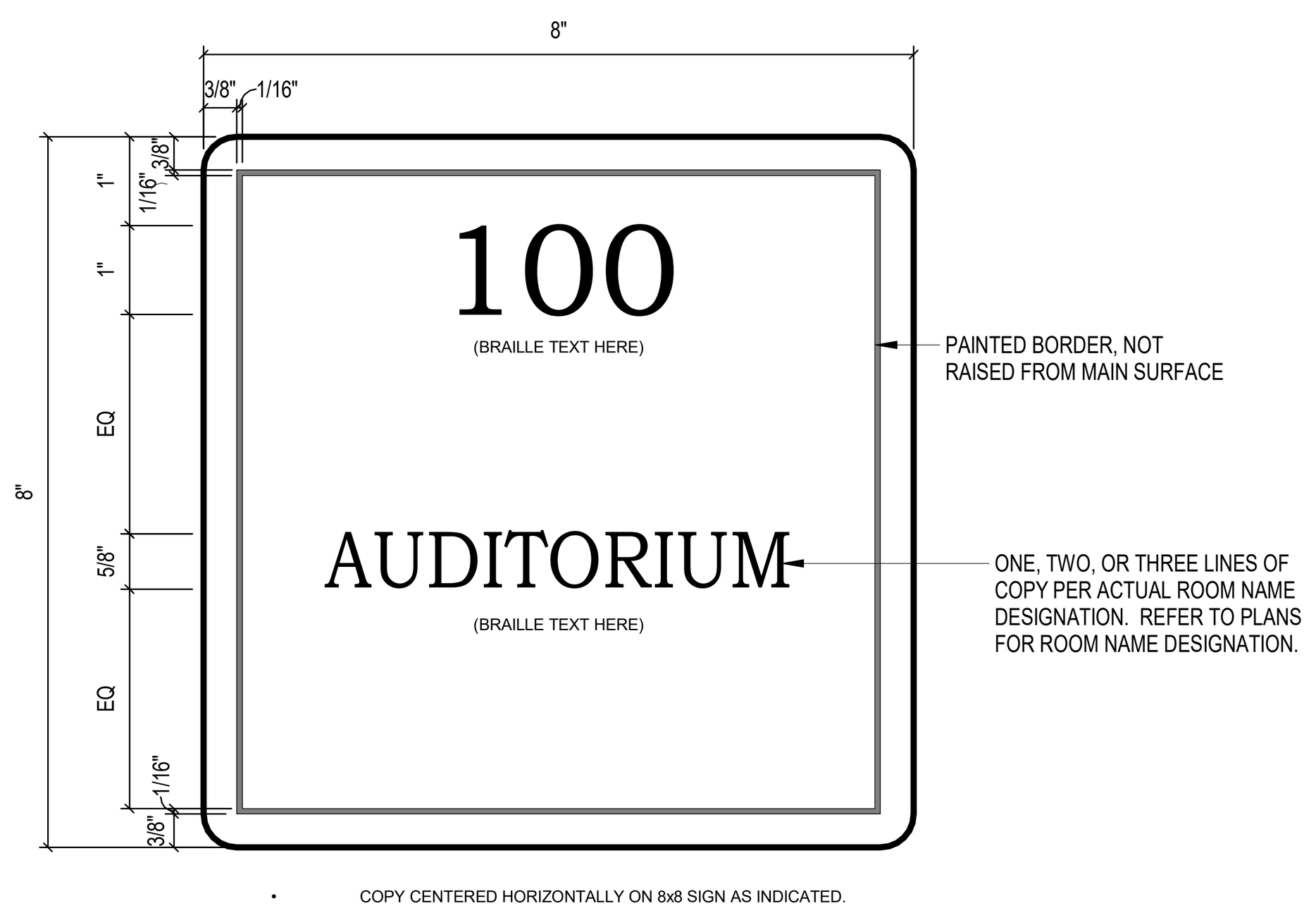
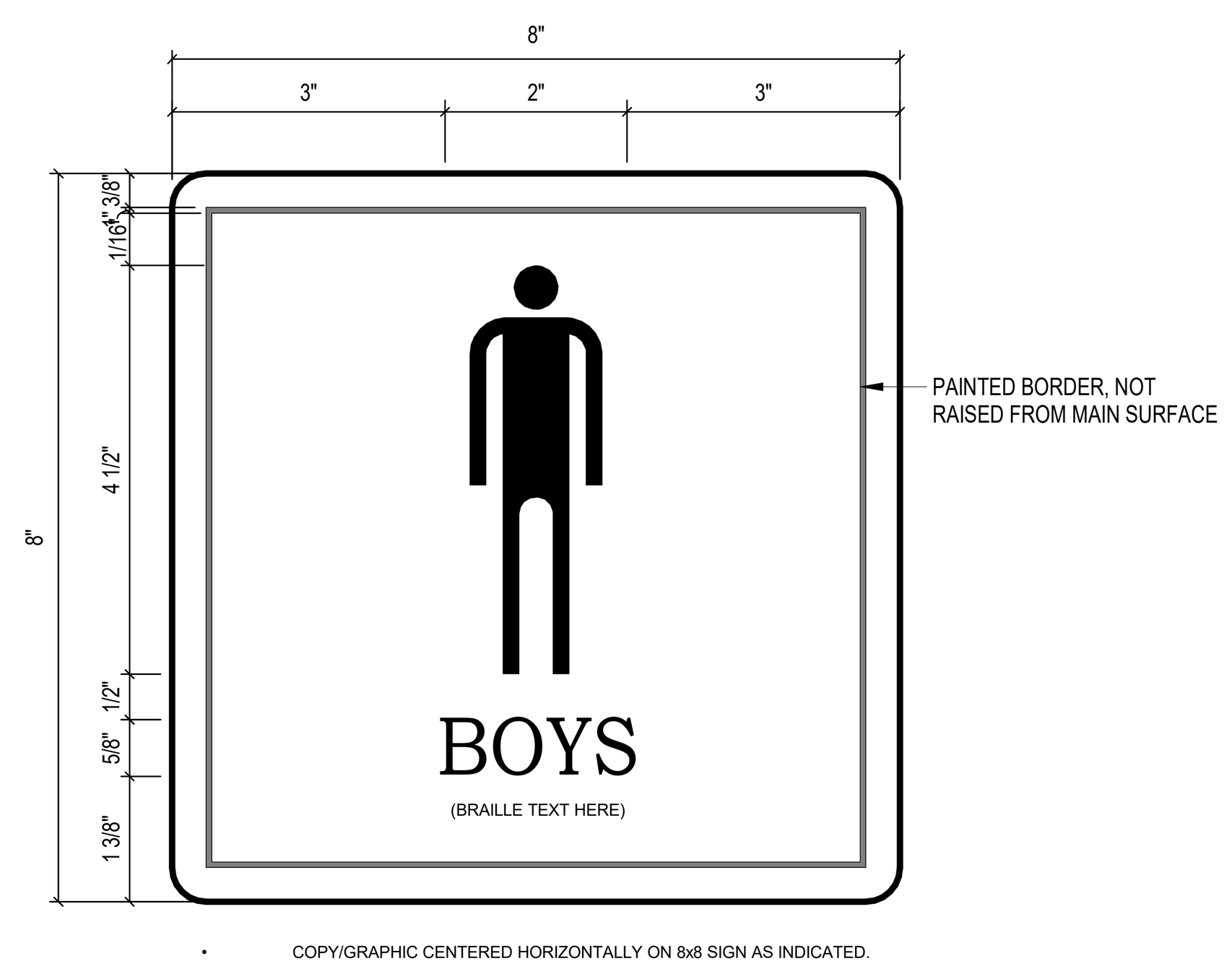
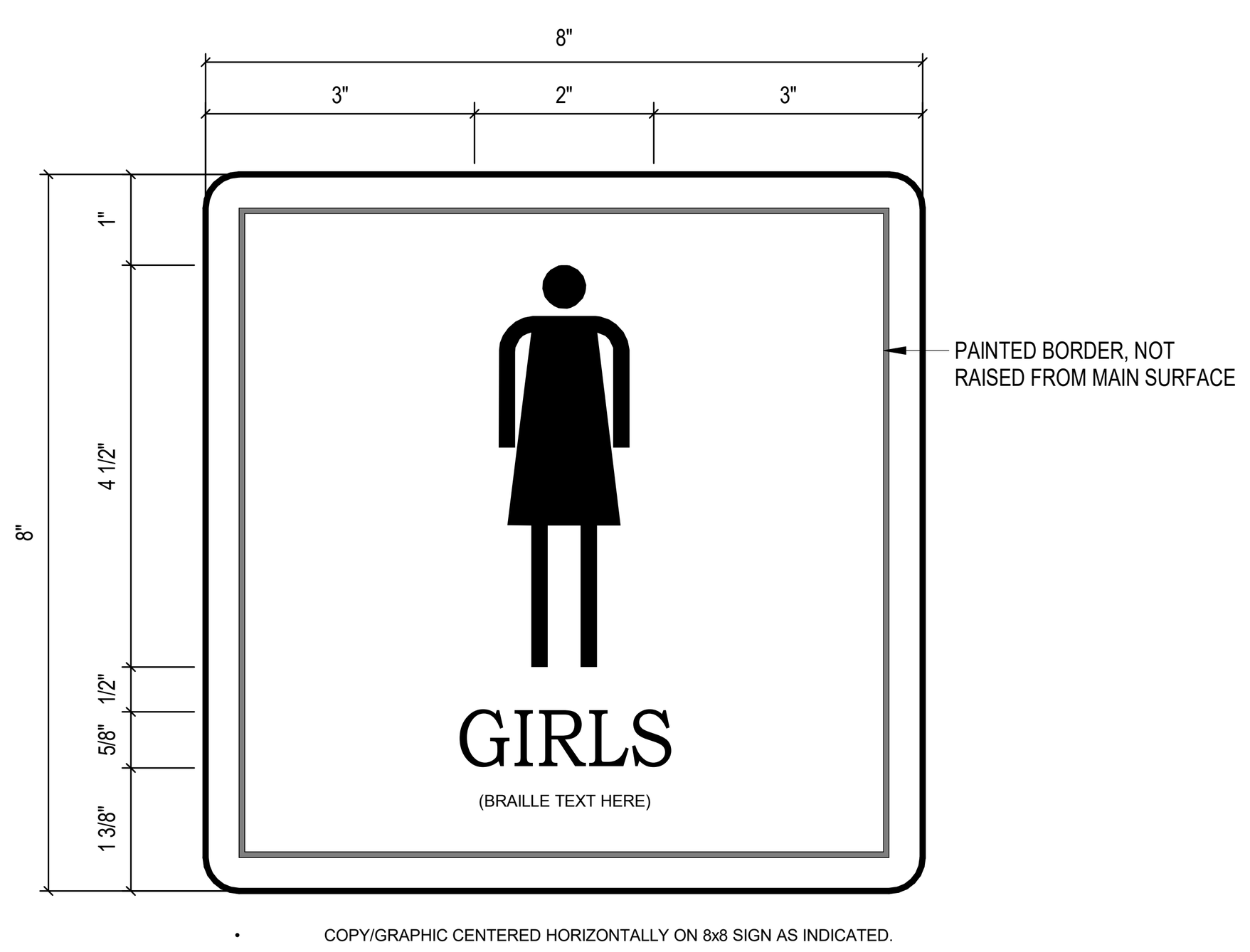


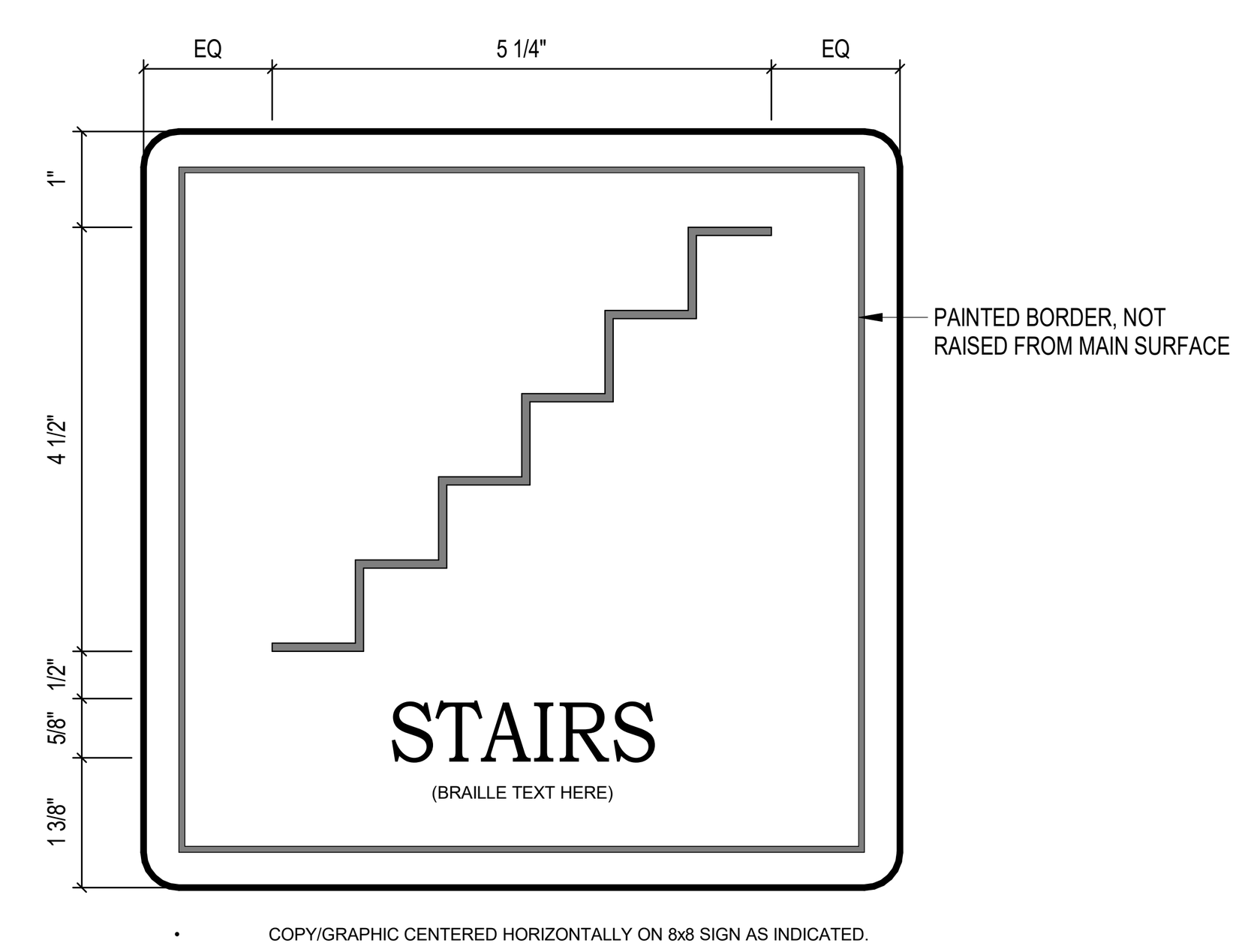
ROOM SIGN TYPE **C**
SCALE: 6"=1'-0"



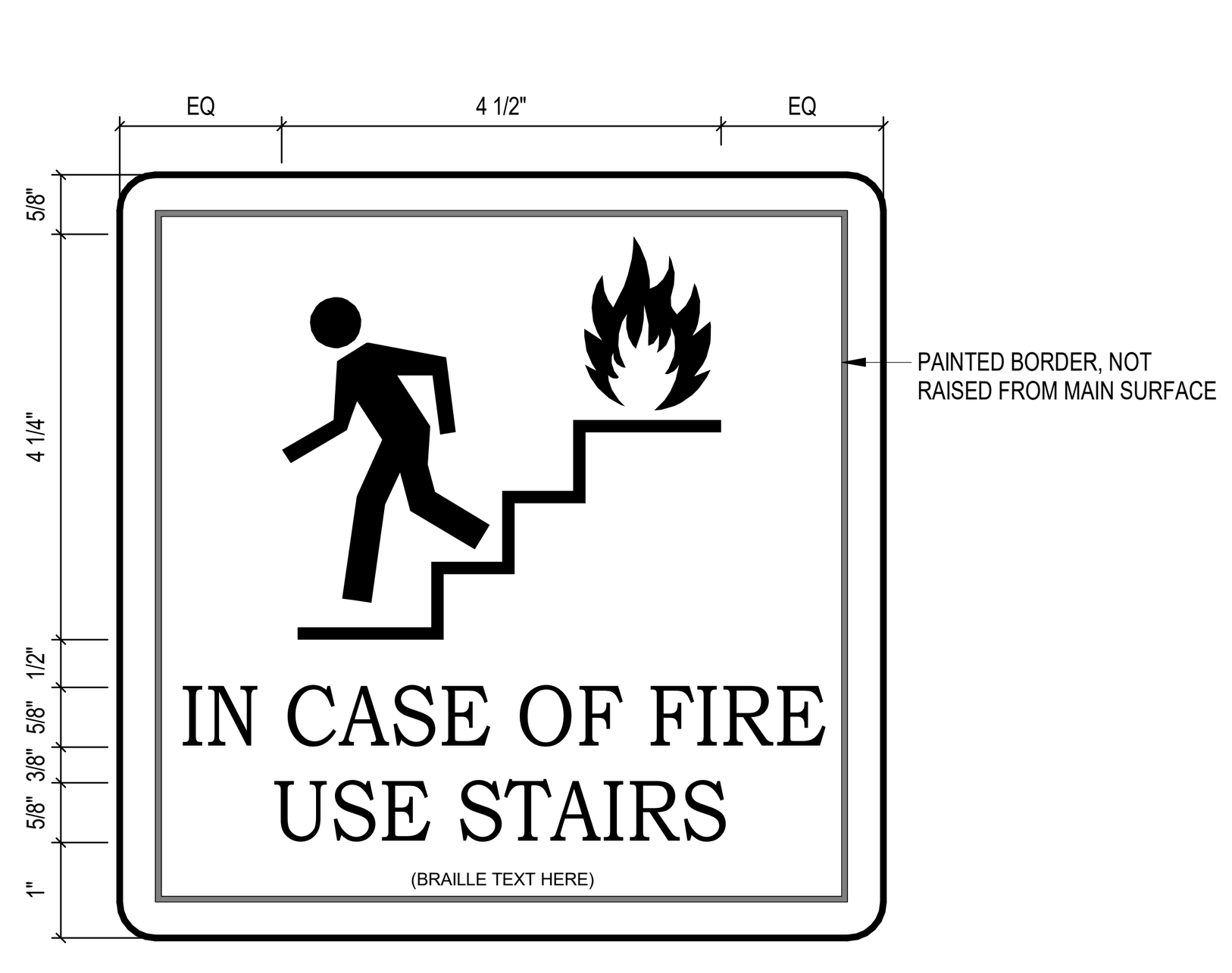
ROOM SIGN TYPE **D1**
SCALE: 6"=1'-0"



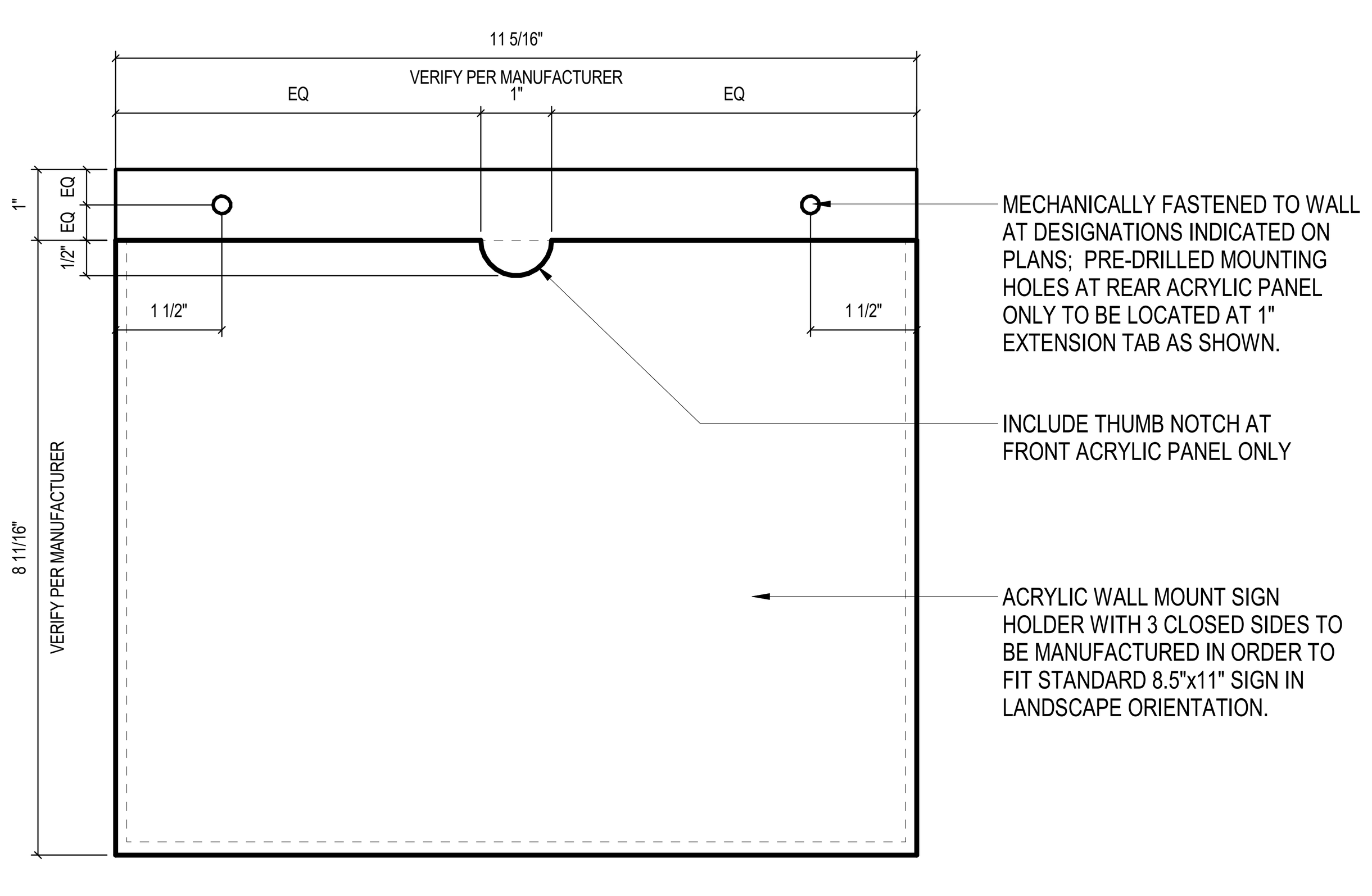
ROOM SIGN TYPE **D2**
SCALE: 6"=1'-0"



ROOM SIGN TYPE **E**
SCALE: 6"=1'-0"



ROOM SIGN TYPE **F**
SCALE: 6"=1'-0"



ROOM SIGN TYPE **X**
SCALE: 6"=1'-0"

SIGNAGE GENERAL NOTES:

SIGN BACKGROUND COLOR:
TO BE SELECTED

BORDER LINE COLOR:
TO BE SELECTED

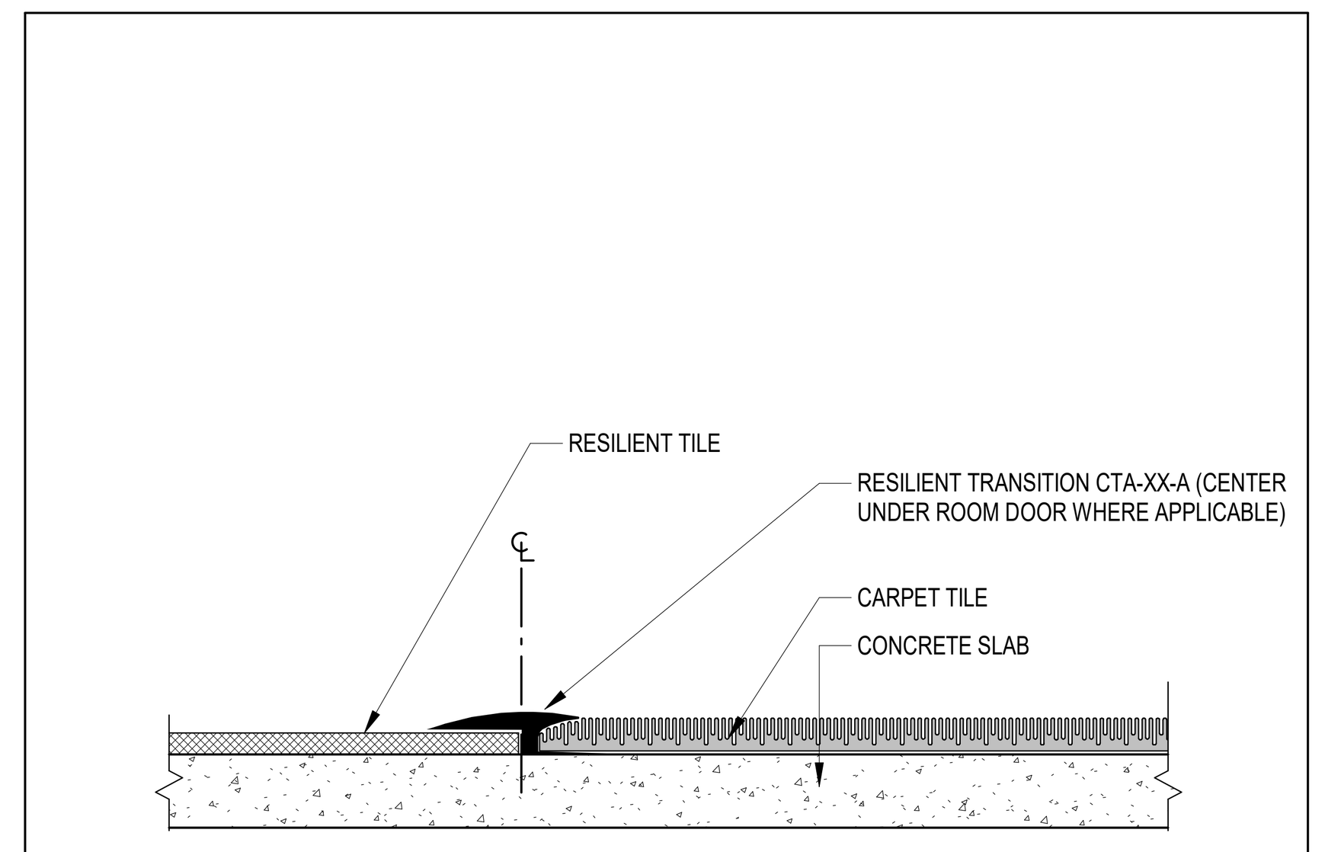
COPY/GRAPHIC COLOR:
TO BE SELECTED

FONT STYLE:
BOOKMAN OLD STYLE

- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS NOTED OTHERWISE.

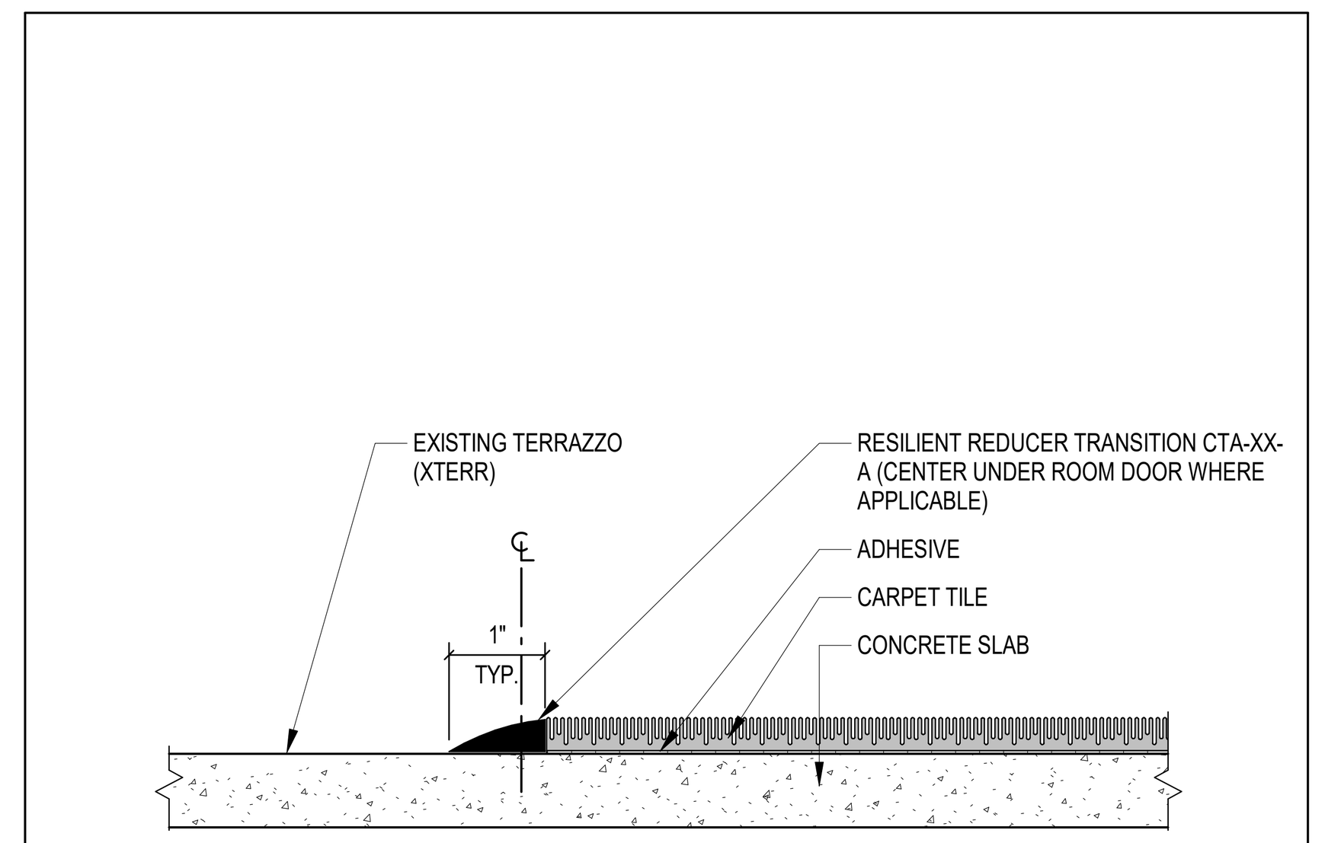
CASEWORK SCHEDULE

TYPE	NO.	SIZE W	SIZE D	SIZE H	DESCRIPTION
B	10	3'-0"	2'-0"	3'-0"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	116	4'-0"	2'-0"	3'-0"	BASE UNIT WITH ONE VERTICAL DIVIDER, FOUR ADJUSTABLE SHELVES AND TWO HINGED DOORS.
BS	01	3'-6"	2'-0"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS. INCLUDE STAINLESS STEEL COUNTERTOP WITH INTEGRAL SINKS, REFER TO DETAIL 2/AF6.01 AND PLUMBING DRAWINGS
BS	02	3'-6"	2'-0"	2'-0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL. INCLUDE STAINLESS STEEL COUNTERTOP WITH INTEGRAL SINKS, REFER TO DETAIL 2/AF6.01 AND PLUMBING DRAWINGS



FLOOR TRANSITION DETAIL — CART to RESILIENT TILE

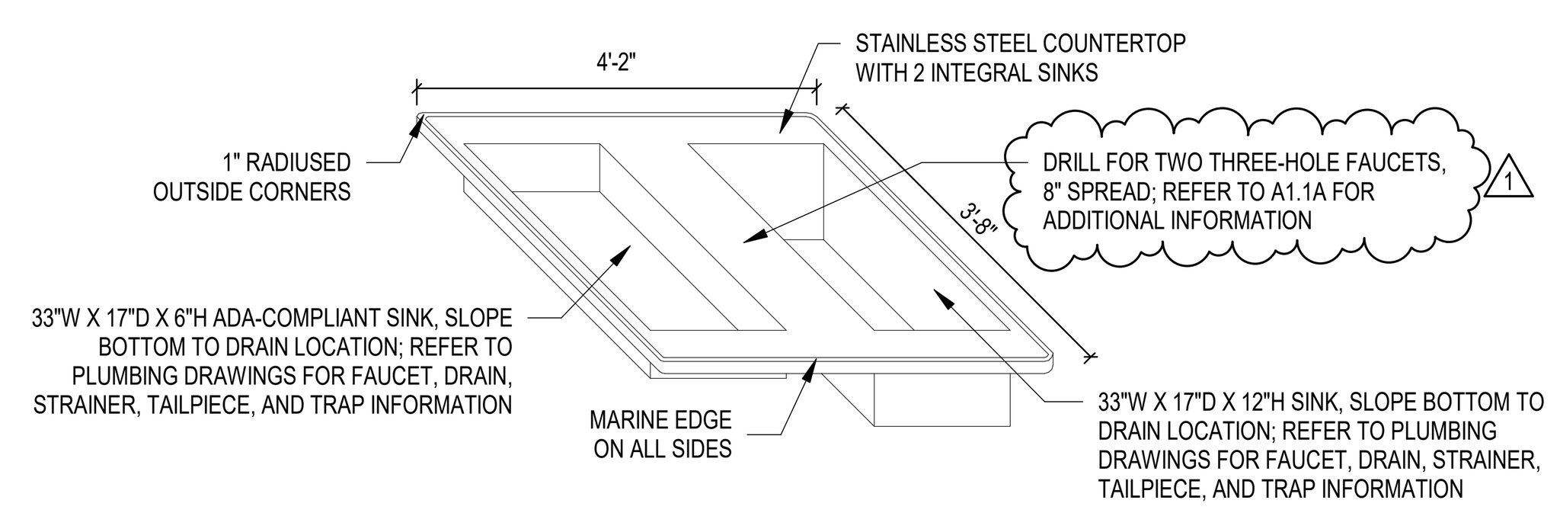
- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



FLOOR TRANSITION DETAIL — CART to XTERR

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- DETAIL SIMILAR FOR TERR TO CSC FLOORING TRANSITION.

1 FLOORING TRANSITIONS
SCALE: 6" = 1'-0"



2 ART SINK DETAIL
SCALE: 1/2" = 1'-0"

EQUIPMENT FINISHES

PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 (CASEWORK)	WILSONART / FORMICA / NEVAMAR	STANDARD, TO BE SELECTED
PL-2 (COUNTERTOPS)	WILSONART / FORMICA / NEVAMAR	STANDARD, TO BE SELECTED

EQUIPMENT GENERAL NOTES

A. COLOR SELECTION OF ALL FINISHES FOR ARCHITECTURAL WOODWORK/CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS AND DETAIL DRAWINGS.
B. EDUCATION CASEWORK FINISHES ARE AS FOLLOWS:
   1. HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED.
   2. HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED.
   3. INTERIOR MELAMINE TO BE WHITE
   4. 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-2.
   5. 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-1.
   6. HANDLES TO BE SIMILAR TO RICHELIEU TRADITIONAL METAL PULL 877A.
   7. REFER TO SPECIFICATIONS FOR ADDITIONAL CASEWORK INFORMATION.

LIST OF FINISHES

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-2 (CLASSROOMS)	SHAW / COLLABORATION / TEAMWORK	HIGH IMPACT 5T497-97111 / 9" X 36" ECOLOGIX CUSHIONED BACK
CART-3 (CORRIDOR)	INTERFACE / AERIAL / AE310	TO BE SELECTED / 25CM X 1M

- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

LUXURY VINYL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LVT-1	GERFLOR / CREATION 55 ACOUSTIC	TO BE SELECTED

SHEET VINYL FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SVF-1	GERFLOR / TARALAY IMPRESSION ACOUSTIC	TO BE SELECTED

BASE MATERIALS

RESILIENT BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB-2 (CORRIDOR ALTERNATE)	JOHNSONITE / TARKETT	TBD / 6" COVE
RB-3 (CLASSROOM BASE BID)	JOHNSONITE / TARKETT	TBD / 8" COVE
RB-4 (CLASSROOM ALTERNATE)	JOHNSONITE / TARKETT	TBD / 4" COVE

WALL FINISHES

ABUSE-RESISTANT ACOUSTICAL WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AR-AWT-1	ARMSTRONG / TECTUM - DESIGNART LINES RINGS PATTERN - 24"x24"	TO BE SELECTED (WHITING GREEN)

1

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CWT-1	AMERICAN OLEAN / COLOR STORY PINSTRIPES / FLUTED	ICE WHITE 0025 / 2" X 8"

IMPACT-RESISTANT WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
IRWC-1	CS ACROVYN WALL COVERING	SOLID COLOR, TO BE SELECTED / .040" THICK INCLUDE STANDARD SHEET TEXTURE, TO BE SELECTED

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-10 (CORRIDORS-UPPER)	SHERWIN WILLIAMS	TO BE SELECTED
P-11 (CORRIDORS-WAINSCOT)	SHERWIN WILLIAMS	TO BE SELECTED
P-12 (CLASSROOMS)	SHERWIN WILLIAMS	TO BE SELECTED
P-13 (CLASSROOMS-ACCENT)	SHERWIN WILLIAMS	TO BE SELECTED
P-14 (CEILINGS)	SHERWIN WILLIAMS	TO BE SELECTED
P-15 (HM DOORS/FRAMES)	SHERWIN WILLIAMS	TO BE SELECTED

VINYL WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
VWC-3 (MEDIUM TEXTURE - A)	KOROSEAL / BENGAL	THREADS BE21-13
VWC-4 (MEDIUM TEXTURE - B)	KOROSEAL / ILLUSIVE	MOUNTAIN HARE LSV1-02
VWC-5 (HEAVY TEXTURE)	KOROSEAL / BARKING MAD	PLATINUM FRENZY 5322-20

CEILING FINISHES

REFER TO AC SERIES DWG. SHEETS

ACOUSTICAL CEILING TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ACT-4 (CLASSROOMS/MISC)	ARMSTRONG / SCHOOL ZONE FINE FISSURED HIGH NRC #1713	WHITE / 2'X2' / SQUARE EDGE
ACT-5 (CORRIDORS)	ARMSTRONG / FINE FISSURED HIGH NRC #1754	WHITE / 2'X2' / SQUARE EDGE
ACT-6 (RESTROOMS)	ARMSTRONG / TUNDRA #301	WHITE / 2'X2' / SQUARE EDGE

GYPSUM WALLBOARD BULKHEADS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION

GWBB - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR BULKHEAD TYPE AND HEIGHT.

MATERIAL & FINISH GENERAL NOTES

GENERAL
A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (AF SERIES) FOR MATERIALS, PATTERNS AND COLORS.
B. REFER TO AQ761 LIST OF FINISHES FOR ADDITIONAL FINISHES NOT NOTED ON THIS SHEET.

FLOORING
A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.

CARPET TILE
A. CARPET TILE, CART-2, TO BE LAID IN ASHLAR INSTALLATION PATTERN, DIRECTION NOTED ON FINISH PLANS.
B. CARPET TILE, CART-3, TO BE LAID IN NON-DIRECTIONAL INSTALLATION PATTERN.

PAINT & STAIN
A. **DO NOT PAINT** ANY PREVIOUSLY STAINED WOOD TRIM UNLESS NOTED OTHERWISE.

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
C. [BASE BID] PAINT OVER ALL EXISTING AND NEW VINYL WALLCOVERING WITH INTERIOR PAINT TYPE #9.310 (EPOXY) UNLESS OTHERWISE INDICATED.
D. [ALTERNATE #1] PAINT NEW CLASSROOM & FACULTY ROOM GYPSUM BOARD WALL SURFACES WITH INTERIOR PAINT TYPE #9.22 (EGGSHELL) UNLESS OTHERWISE INDICATED.
E. [ALTERNATE #3] PAINT NEW CORRIDOR GYPSUM BOARD WALL SURFACES WITH INTERIOR PAINT TYPE #9.212 (EPOXY) UNLESS OTHERWISE INDICATED.
F. ALL UNPAINTED AND PREVIOUSLY PAINTED WALL TILE TO BE PAINTED WITH INTERIOR PAINT TYPE #4.227 (EPOXY).
G. ALL PLASTER CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.31 (FLAT).
H. ALL FERROUS METAL (EXCLUDING STRUCTURE) PREVIOUSLY PAINTED WITH OIL-BASED PAINT SHALL BE PAINTED INTERIOR PAINT TYPE #5.13.
I. ALL OTHER FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
J. WOOD CASEWORK INDICATED TO BE PAINTED, TO BE PAINTED WITH INTERIOR PAINT TYPE #6.31.

PAINT COLOR NOTES [ALTERNATE]

A. PAINT ALL CLASSROOM GWB SOFFITS P-12 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
C. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

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ARCHITECT

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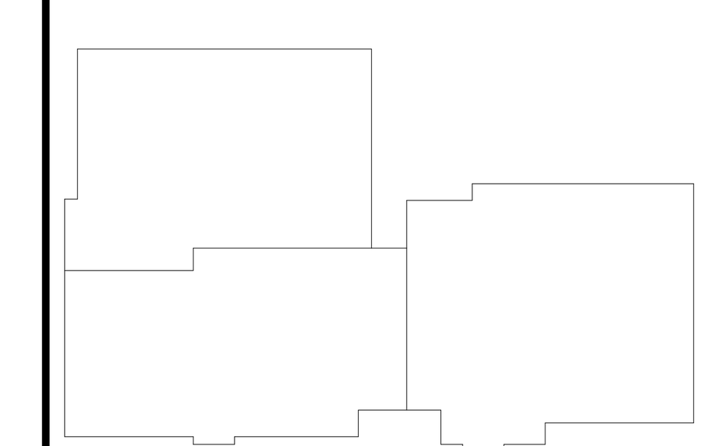

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CONSTRUCTION DOCUMENTS

PAUL A. MILLER
REGISTERED
No. AR10800161
STATE OF
INDIANA
ARCHITECT

PROJECT MANAGER: NVW
DRAWN BY: AML
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10-25-2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

LIST OF FINISHES, FLOORING TRANSITIONS & SIGNAGE TYPES

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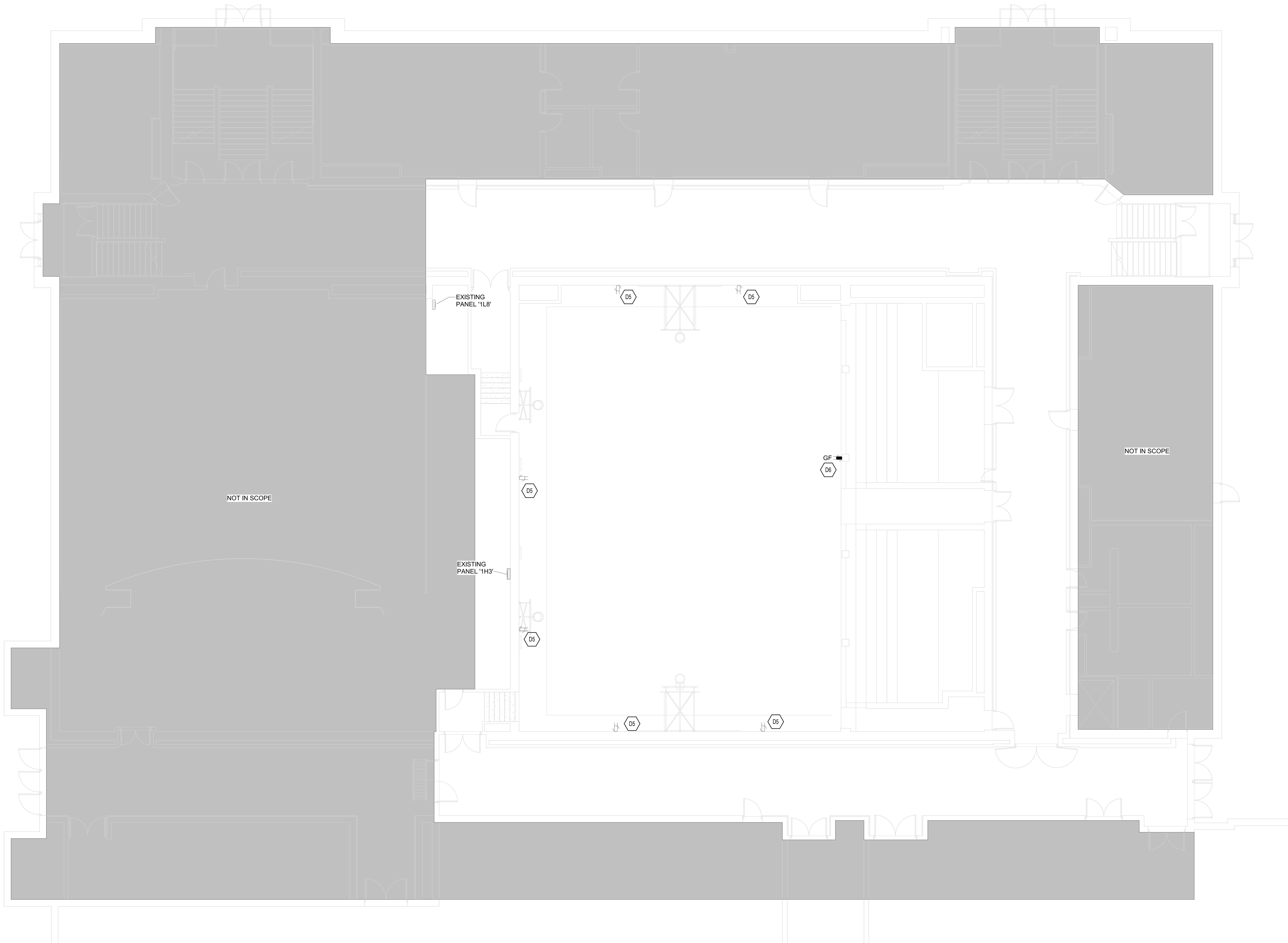
SHEET KEYNOTES	
D5	DISCONNECT AND REMOVE EXISTING RECEPTACLE AT THIS LOCATION. TIE BACK EXISTING CIRCUIT FOR REUSE.
D6	DISCONNECT AND REMOVE EXISTING RECEPTACLE AND SURFACE RACEWAY AT THIS LOCATION. TIE BACK EXISTING CIRCUIT AT CEILING FOR REUSE.



UNIT 'A' FIRST FLOOR DEMOLITION PLANS

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

NEW SHEET ISSUED IN ADDENDUM

1

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

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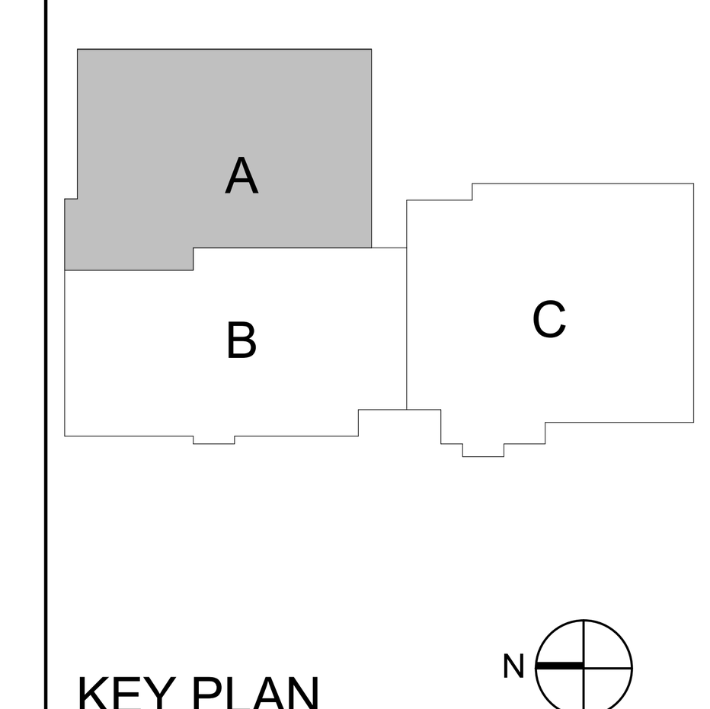

KEY PLAN

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE 11600305 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: NVW
DRAWN BY: ISD
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10.25.2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	11.05.2024

UNIT 'A' FIRST FLOOR DEMOLITION PLAN

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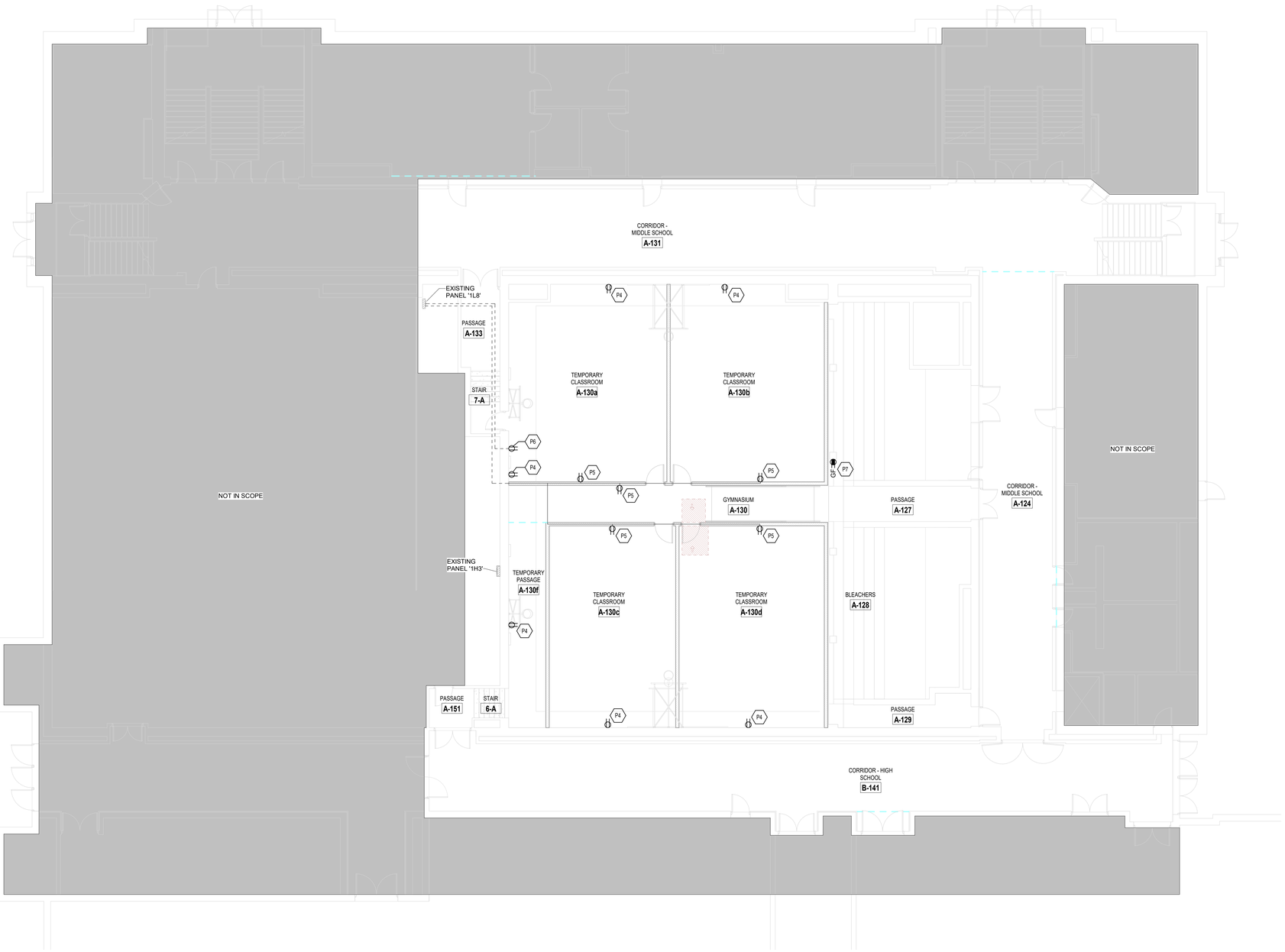

UNIT 'A' FIRST FLOOR POWER PLAN

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

NEW SHEET ISSUED IN ADDENDUM

1

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
3. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
4. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
5. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
6. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT.
7. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
8. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

POWER PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
P4	PROVIDE NEW RECEPTACLE AND BOX. CONNECT TO EXISTING CIRCUIT. MATCH STYLE, FINISH, AND MOUNTING HEIGHT OF PREVIOUS RECEPTACLE AT THIS LOCATION.
P5	PROVIDE NEW RECEPTACLE IN SURFACE MOUNTED BOX AT THIS LOCATION. CONNECT TO 1L8-18 WITH 2 #12, #12 G IN 1/2" CONDUIT. CONDUIT TO BE CONCEALED WHEREVER POSSIBLE OUTSIDE OF GYM AREA. CONDUIT SHALL BE RUN ALONG TOP OF TEMPORARY WALLS AND DOWN ALONG SURFACE OF WALL WITHIN GYM AREA.
P6	PROVIDE NEW TECH CART RECEPTACLE IN SURFACE MOUNTED BOX AT THIS LOCATION. CONNECT TO 1L8-20 WITH 2 #12, #12 G IN 1/2" CONDUIT. CONDUIT TO BE CONCEALED WHEREVER POSSIBLE OUTSIDE OF GYM AREA. CONDUIT SHALL BE RUN DOWN SURFACE OF EXISTING GYM WALL WITHIN GYM AREA.
P7	PROVIDE NEW RECEPTACLE AND SURFACE RACEWAY AT THIS LOCATION AND CONNECT TO EXISTING CIRCUIT. MATCH STYLE, FINISH, AND MOUNTING HEIGHT OF PREVIOUS RECEPTACLE AND SURFACE RACEWAY AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

WHITING MIDDLE SCHOOL - ROOF REPLACEMENT

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WHITING, IN 46394

SCHOOL CITY OF WHITING

ARCHITECT

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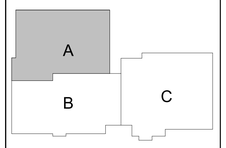

KEY PLAN

N

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE10800026 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: NVW
DRAWN BY: ISD
PROJECT NUMBER: 224151.00
PROJECT ISSUE DATE: 10.25.2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	11.05.2024

UNIT 'A' FIRST FLOOR POWER PLAN

EP1.1A

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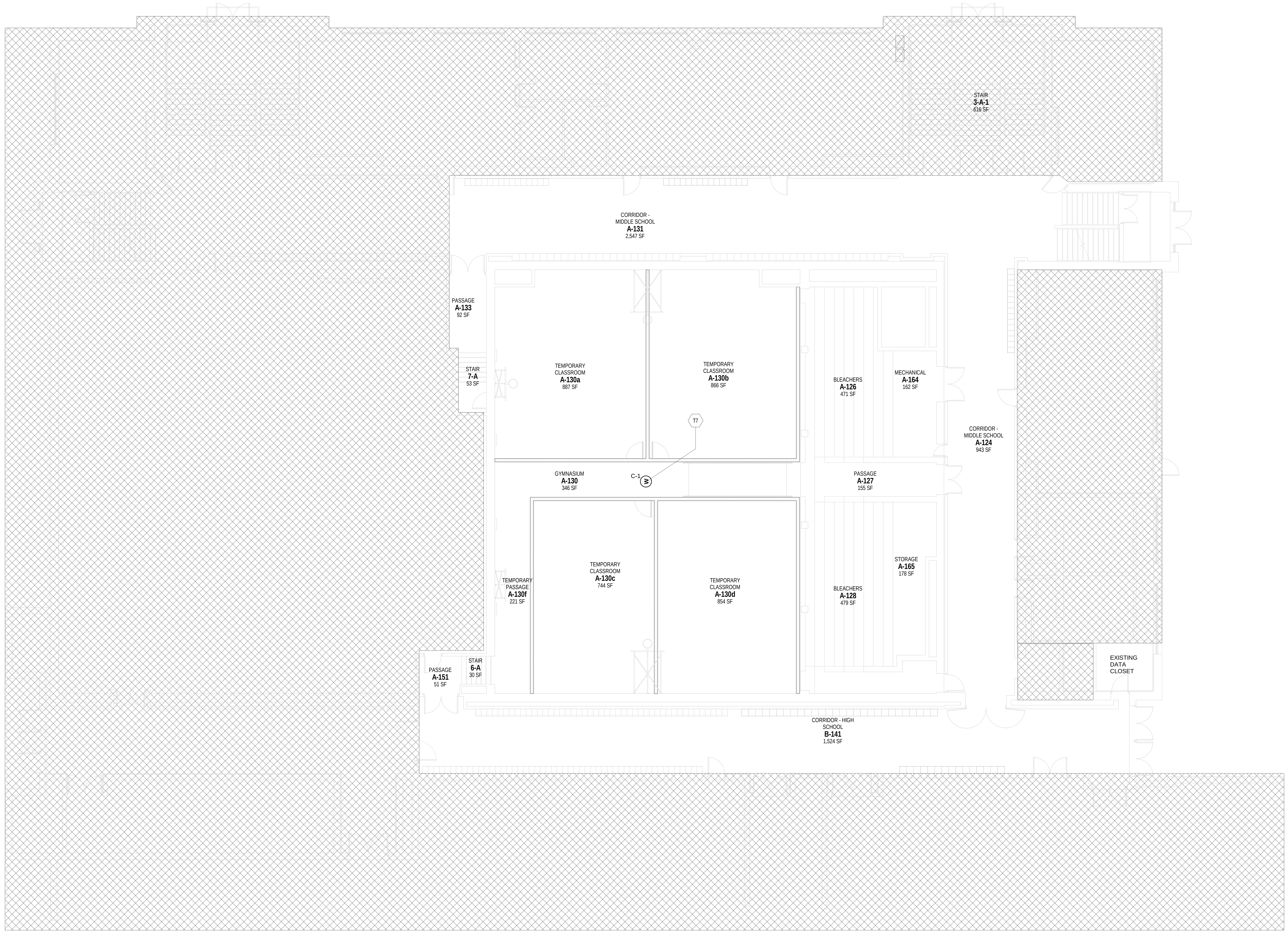
ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
2-A-1		STAIR	607 SF
3-A-1		STAIR	616 SF
6-A		STAIR	30 SF
7-A		STAIR	53 SF
A-102		STORAGE	409 SF
A-106	101	CLASSROOM	799 SF
A-110	102	CLASSROOM	1162 SF
A-119		CLASSROOM	867 SF
A-120		BOYS RR	221 SF
A-121		GIRLS RR	203 SF
A-124		CORRIDOR - MIDDLE SCHOOL	943 SF
A-126		BLEACHERS	471 SF
A-127		PASSAGE	155 SF
A-128		BLEACHERS	479 SF
A-129		PASSAGE	117 SF
A-130		GYMNASIUM	346 SF
A-130a		TEMPORARY CLASSROOM	887 SF
A-130b		TEMPORARY CLASSROOM	866 SF
A-130c		TEMPORARY CLASSROOM	744 SF
A-130d		TEMPORARY CLASSROOM	854 SF
A-130e		TEMPORARY PASSAGE	Redundant Room
A-130f		TEMPORARY PASSAGE	221 SF
A-131		CORRIDOR - MIDDLE SCHOOL	2547 SF
A-133		PASSAGE	92 SF
A-151		PASSAGE	51 SF
A-164		MECHANICAL	162 SF
A-165		STORAGE	178 SF
B-141		CORRIDOR - HIGH SCHOOL	1524 SF



1 UNIT 'A' FIRST FLOOR TECHNOLOGY PLAN

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

TECHNOLOGY PLAN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. ALL CABLE PATHWAYS SHALL BE PROPERLY SUPPORTED ABOVE CEILING WITH APPROVED JHOOKS OR BRIDLE RINGS WITH SADDLES. CABLE WIRE TIED TO CEILING GRID WIRES OF STRUCTURE FOR PATHWAYS WILL NOT BE ACCEPTED.

C. REINSTALLED DATA LOCATIONS (FACEPLATES, JACKS, BLANKS, RJ45 TERMINATIONS) SHALL BE NEW AND ALL TERMINATIONS SHALL BE CERTIFIED WITH DIGITAL DATA RESULTS FOR SUBMISSION.

D. ALL CAMERAS, SPEAKERS AND CALL IN BUTTON DEVICES SHALL BE REUSED AND PROVIDED FROM EITHER THE OWNER OR THE DEMO CONTRACTOR. AFTER REINSTALLATION THESE DEVICES WILL NEED TO BE TESTED AND CONFIRMED BY/WITH THE OWNER.

TECHNOLOGY PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T7	PROVIDE A NEW WIRELESS ACCESS POINT CAT6 CABLE AND INSTALLATION OF SCHOOL PROVIDED DEVICE FOR ADDITIONAL NETWORK COVERAGE FOR TEMPORARY CLASSROOM PHONES AND SMARTBOARDS FROM TECH CLOSET IN STORAGE ROOM BY DOOR 14.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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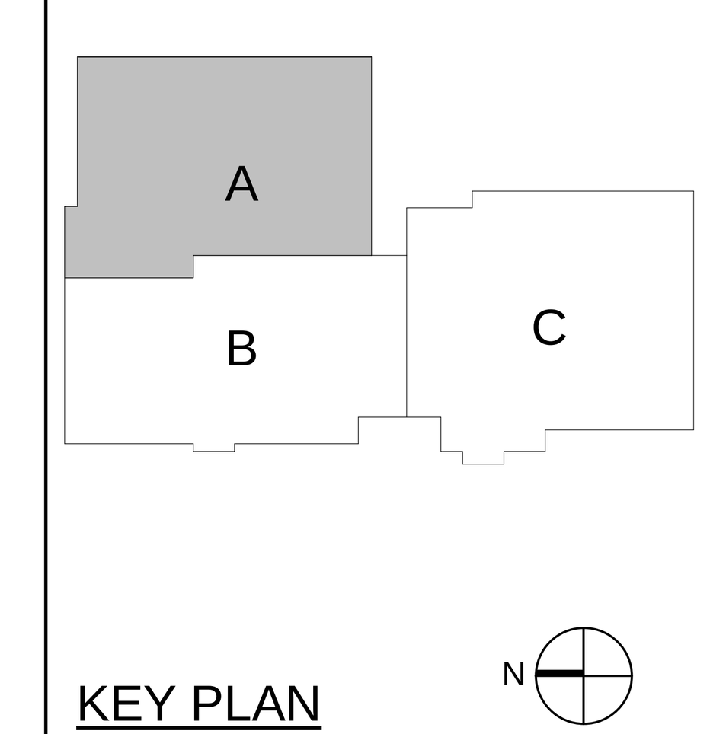

KEY PLAN

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER
REGISTERED
No.
PE 11600305
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: NVW

DRAWN BY: CDT

PROJECT NUMBER: 224151.00

PROJECT ISSUE DATE: 10.25.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11.05.2024

UNIT 'A' FIRST FLOOR TECHNOLOGY PLAN

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