ADDENDUM NO. 01

October 23, 2026

Blue River Valley Phase 2 – Jr. High/High School Renovations
4741 Viking Trail
New Castle, IN 47362

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 September 21, 2026, by Gibraltar Design. 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 Gibraltar Design Addendum No. 1, dated October 23, 2026, consisting of 2 pages, Specification Section 08 71 00 Door Hardware, Specification Section 09 67 24 Special Urethane Floor, Specification Section 10 11 00 Markerboards and Corkboards, and 5 drawing sheets.

A. SPECIFICATION SECTION MULTI CONTRACTS SUMMARY 01 12 00

A. Bid Category #1- General Trades

1. 08 70 00 – Door Hardware - Add Specification Section 08 71 00, Door Hardware, included in this Addendum, to the Project Manual.
2. 09 68 24 – Special Urethane Floor - Replace Specification Section Special Urethane Floor, with revised section, included in this Addendum.
3. 09 84 00 – Acoustical Wall Panels - Add Paragraph 1.4.E to read as follows: - Submit (3) samples of each color to be used as noted on the Drawings and Finish Legend."
4. 10 11 00 – Markerboards and Cork Boards - Replace Specification Section Markerboards and Corkboards, with revised section, included in this Addendum.

B. Bid Category #2 – HVAC and Controls

Add the following Clarifications to the specifications:

1. Which points are required for GEF-1 (start/stop and status?) and for AC-1 (enable only, or integration with the Mitsubishi controller)? See Addendum #1.
2. MD101 note 4 and M-101 note 2 calls for relocating existing wall thermostats. How many, and is that mechanical or controls scope? Refer to plans for quantity.
3. 23 05 00 §3.04C permits Class 2 wiring unconcealed in accessible locations without conduit. M-001 note N and 26 05 19 §3.3.L require raceway. Which governs? Section 3.04.C states that wiring shall be installed in conduit unless otherwise specified, and that conduit is not required in "concealed and accessible locations". The wiring referenced in note "N" specifically references wiring to a thermostat which would be concealed but not accessible within a wall, so conduit is required.
4. Where is the existing FMS panel relative to the roof? Contractor to field verify.

B. <u>SPECIFICATION SECTION 01 21 00 – CONSTRUCTION ALLOWANCES:</u>

Please review the attached, including the revised 01 21 00 specification sheet changing the allowance values for each trade.

SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including amended General Conditions and other Division-1 Specification Sections, apply to work of this Section.

1.02 REQUIREMENTS INCLUDED

A. The Specifications contain Allowances for particular items, methods of construction, quantities of materials, labor for certain items and these stated Allowances shall be included in the total lump sum bid price.
   1. Should the final amounts as determined from actual costs vary from these stated Allowances, the Contract price will be adjusted by Change Order as stated in the Conditions of the Contract.
   2. Under no circumstances shall work exceeding the stated Allowance amounts, proceed without a properly executed Change Order.

B. A "Schedule of Allowances" showing amounts included in each prime Contract Sum, is included at the end of this Section.

C. Product/Materials Allowance: At the earliest feasible date after award of Contract, advise the Architect and Construction Manager of scheduled date when final selection and purchase of each product or system described by each Allowance must be accomplished in order to avoid delays in performance of the Work.
   1. As requested by the Architect, obtain and submit proposals for the work of each Allowance for use in making final selection; include recommendations for selection which are relevant to the proper performance of the Work.
   2. Purchase products and systems as specifically selected (in writing) by the Architect.
   3. Submit proposals and recommendations, for purchase of products or systems of Allowances, in form specified for Change Orders.
   4. When requested, submit a substantiated survey of quantities of materials, as shown in the "Schedule of Values", revised where necessary, and corresponding with Change Order quantities.
   5. Amount of Allowance includes:
      a. Net cost of product
      b. Delivery to the site
      c. Applicable taxes
   6. In addition to amount of Allowance, include in Bid, for inclusion in Contract Sum, Contractor's costs for:
      a. Handling at site, including unloading, uncrating and storage
      b. Protection from elements, from damage
      c. Labor, installation and finishing

d. Other expenses (e.g., testing, adjusting and balancing) required to complete installation
e. Overhead and profit

D. Contingency Allowance: Contingency allowance shall be used only as directed for Owner's purposes. Proposal shall be submitted by Contractor for work requested in format similar to that required for Change Orders. Compensation to the Contractor for work requested utilizing this Allowance shall be for only Contractor's costs as defined by Paragraph 7.3.7 of the General Conditions, except no compensation shall be allowed for overhead and profit. At time of Project closeout, unused amounts remaining in contingency allowance shall be credited to Owner by Change Order.

E. Man-Hour Allowances: Man-Hour Allowances shall be used at the direction of the Construction Manager to take care of issues (ie…cleaning, paint touchup and replacement of ceiling tiles) for which responsibility cannot be definitively determined. Track man-hours used with work tickets signed daily by Skillman Site Manager as documentation. At the end of the job, unused hours will be converted to a dollar amount per Wage Scale (including fringe benefits) and returned to the Owner through a deduct Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 PRODUCT ALLOWANCE

A.

3.02 CONTINGENCY ALLOWANCES

Allow a lump sum additional work required but not indicated on Drawings or reasonably anticipated.

A.	Bid Category No.	General Trades	$75,000
B.	Bid Category No.	HVAC/Plumbing	$20,000
C.	Bid Category No.	Electrical	$20,000

3.03 MAN-HOUR ALLOWANCES

A.	Bid Category No.	General Trades	50 Man-Hours

END OF SECTION 01 21 00

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Blue River Valley Jr/Sr High School Interior Renovation** for Blue River Valley Schools, New Castle, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

CLARIFICATIONS

1. **Which points are required for GEF-1 (start/stop and status?) and for AC-1 (enable only, or integration with the Mitsubishi controller)?**

   A. See Addendum #1.

2. **MD101 note 4 and M-101 note 2 call for relocating existing wall thermostats. How many, and is that mechanical or controls scope?**

   A. Refer to plans for quantity.

3. **23 05 00 §3.04C permits Class 2 wiring unconcealed in accessible locations without conduit. M-001 note N and 26 05 19 §3.3.L require raceway. Which governs?**

   A. Section 3.04.C states that wiring shall be installed in conduit unless otherwise specified, and that conduit is not required in "concealed and accessible locations". The wiring referenced in note "N" specifically references wiring to a thermostat which would be concealed but not accessible within a wall, so conduit is required.

4. **Where is the existing FMS panel relative to the roof?**

   A. Contractor to field verify.

SPECIFICATIONS

1. **Specification Section 08 71 00 Door Hardware**

   A. Add Specification Section 08 71 00, Door Hardware, included in this Addendum, to the Project Manual.

2. **Specification Section 09 67 24 Special Urethane Floor**

   A. Replace Specification Section Special Urethane Floor, with revised section, included in this Addendum.

3. Specification Section 09 84 00 Acoustical Wall Panels

A. Add Paragraph 1.4.E to read as follows:

"E. Submit (3) samples of each color to be used as noted on the Drawings and Finish Legend."

4. Specification Section 10 11 00 Markerboards and Corkboards

A. Replace Specification Section Markerboards and Corkboards, with revised section, included in this Addendum.

DRAWINGS

5. Sheet AD102

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

6. Sheet A-102

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

7. Sheet A-802

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

8. Sheet A-820

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

9. Sheet M-501

A. Refer to revised, full-size drawing, included in this Addendum, for revisions.

Pages 1through 2, inclusive, Three (3) Specification Sections, and Five (5) Full Size Drawings, constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN



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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

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

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"
   b. "Flush Wood Doors"
   c. "Stile and Rail Wood Doors"
   d. "Interior Aluminum Doors and Frames"
   e. "Aluminum-Framed Entrances and Storefronts"
   f. "Stainless Steel Doors and Frames"
   g. "Special Function Doors"
   h. "Entrances"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

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

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

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

1.03 SUBMITTALS

A. General:

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

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
   a. Wiring Diagrams: For power, signal, and control wiring and including:
      1) Details of interface of electrified door hardware and building safety and security systems.
      2) Schematic diagram of systems that interface with electrified door hardware.
      3) Point-to-point wiring.
      4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
   a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:
   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
   b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets/groups in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
   c. Indicate complete designations of each item required for each opening, include:
      1) Door Index: door number, heading number, and Architect's hardware set number.
      2) Quantity, type, style, function, size, and finish of each hardware item.
      3) Name and manufacturer of each item.
      4) Fastenings and other pertinent information.
      5) Location of each hardware set cross-referenced to indications on Drawings.
      6) Explanation of all abbreviations, symbols, and codes contained in schedule.
      7) Mounting locations for hardware.
      8) Door and frame sizes and materials.
      9) Degree of door swing and handing.
      10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

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

C. Informational Submittals:

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

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
   a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
   b. Catalog pages for each product.
   c. Final approved hardware schedule edited to reflect conditions as installed.

d. Final keying schedule
e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

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

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

B. Certifications:

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

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

3. Electrified Door Hardware
   a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

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

C. Pre-Installation Meetings

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

2. Pre-installation Conference
   a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   b. Inspect and discuss preparatory work performed by other trades.
   c. Inspect and discuss electrical roughing-in for electrified door hardware.
   d. Review sequence of operation for each type of electrified door hardware.
   e. Review required testing, inspecting, and certifying procedures.
   f. Review questions or concerns related to proper installation and adjustment of door hardware.

3. Electrified Hardware Coordination Conference:
   a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

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

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

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

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

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

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

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    a. Mechanical Warranty
        1) Locks
            a) Schlage L Series: 10 years
        2) Exit Devices
            a) Von Duprin: 10 years
        3) Closers
            a) LCN 4000 Series: 30 years
    b. Electrical Warranty
        1) Exit Devices
            a) Von Duprin: 3 years

1.08 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

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

   1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

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

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

   1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

   1. Where scheduled in the hardware sets/groups, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
   2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
   3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series

2. Acceptable Manufacturers and Products:
   a. McKinney TB series
   b. Best FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

9. Provide hinges with electrified options as scheduled in the hardware sets/groups. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Select
   b. ABH

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.

2. Provide aluminum geared continuous hinges, where specified in the hardware sets/groups, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets/groups. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Von Duprin EPT-10

2. Acceptable Manufacturers and Products:
   a. ABH PT1000

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets/groups. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Rockwood
   b. Trimco

B. Requirements:

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

2.07 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage L9000 series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide electrified options as scheduled in the hardware sets/groups. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
   a. Low holding current (Lever control or latch retraction) – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
   b. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
   c. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
   d. Low maximum current draw – maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
   e. Connections – provide quick-connect Molex system standard.

7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
   a. Lever Design: 07A

2.08 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Von Duprin 98/35A series

2. Acceptable Manufacturers and Products:

a. No Substitute

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices at pool gates with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
9. Provide exit devices with manufacturers' approved strikes.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets/groups.
13. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
17. Special Options:
    a. SI
        1) Provide dogging indicators for visible indication of dogging status.
    b. XP
        1) Rim Exit Devices: provide devices with non-tapered smart latchbolt with 90° latchbolt to strike engagement under stress and Static Load Resistance of 2000 pounds.
    c. QM
        1) Rim Exit Devices: provide devices with damper-controlled re-latching to reduce operational noise. Where lever trim is specified, provide damper controlled lever return.
    d. HH
        1) Provide wind and impact rated hurricane exit devices and mullions certified to comply with Florida Building Code (FBC) TAS 201, 202, 203.
    e. HW
        1) Provide wind rated hurricane exit devices and mullions certified to comply with ANSI-ASTM E330.
    f. CX
        1) Provide delayed egress devices, where scheduled, that are UL 294 listed, meet National Fire Protection Association (NFPA) and International Building Code (IBC) governing delayed egress, and/or other local and national fire codes acceptable to authority having jurisdiction as required.

a) Provide non-handed and field sizable device with 3/4 (19mm) throw deadlocking latch bolt. Device incorporates an internal RX switch that detects attempt to exit from applying less than 15lbs to the push pad, which causes this switch to start an irreversible alarm cycle. Key switch in device is capable of arming, disarming, or resetting the device; and indicator lamp determines status of the device.
b) Provide devices capable of standard 15 second release delay and indefinite release delay as required by code, when tied into fire alarm system will release immediately when an alarm condition exists.
c) Provide devices with all control inputs – door position input, external inhibit input, fire alarm input; auxiliary locking; nuisance alarm and internal horn; and, remote signaling output self-contained in the device assembly.

g. CVC
1) Provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods are not permitted.
a) Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
b) Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
c) Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.
d) Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90-degree engagement with strike to prevent door and frame separation under high static load.
e) Bottom Latchbolt: Minimum of 0.44-inch (11 mm) engagement with strike.
f) Product Cycle Life: 1,000,000 cycles.
g) Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.
h) Latch release does not require separate trigger mechanism.
i) Cable and latching system characteristics:
i. Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
ii. Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
iii. Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging
iv. Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
v. Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.

2.09 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product:
a. Field verify and match Owner's existing system.

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.10 KEYING

A. Scheduled System:

1. Existing non-factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing keying system managed by Owner's locksmith, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

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

2. Permanent Keying:
   a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
      1) Master Keying system as directed by the Owner.
   b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
   c. Provide keys with the following features:
      1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
      2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
   d. Identification:
      1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
      2) Identification stamping provisions must be approved by the Architect and Owner.
      3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
      4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
      5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
   e. Quantity: Furnish in the following quantities.
      1) Permanent Control Keys: 3.
      2) Master Keys: 6.

3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
4) Key Blanks: Quantity as determined in the keying meeting.

2.11 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

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

2.12 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Requirements:

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

2.13 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Requirements:

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

2.14 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. No Substitute

B. Requirements:

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

2.15 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Provide door stops at each door leaf:

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

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

A. Scheduled Manufacturer:

1. Zero International

B. Acceptable Manufacturers:

1. National Guard
2. Reese

C. Seals and Gasketing: Provide continuous gasketing on exterior openings, to the head and jambs, forming a continuous seal between the door and the frame. Provide smoke, light, or sound gasketing on interior doors where indicated.

1. Provide self-tapping fasteners for aluminum extruded gasketing being applied to hollow metal frames.
   a. Provide non-corrosive fasteners for all exterior applications.
   b. Provide security fasteners where indicated.

2. Provide neoprene, EPDM, silicone, or nylon brush inserts as specified in hardware sets/groups. Provide non brush inserts of solid or sponge cell, as specified in hardware sets/groups. Vinyl inserts are not allowed except where specified in hardware sets/groups.

D. Smoke Labeled Gasketing: At all smoke labeled openings, provide smoke listed perimeter gasketing assemblies complying with NFPA 105 listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for smoke control ratings indicated based on testing according to UL 1784.

E. Fire Listed Gasketing: Assemblies complying with NFPA 80 that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction for fire ratings indicated based on testing according to UL-10C.

1. Where frame-applied intumescent seals are required by the manufacturer, provide gaskets that comply with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.

F. Sound-Rated Gasketing: Provide acoustic gasketing to meet Sound Transmission Class (STC) rating required.

G. Meeting-Stile Gasketing: Provide meeting-stile gasketing that fastens to the meeting stiles forming a continuous seal when doors are closed.

H. Door Sweeps or Shoes: Apply to the bottom of the door to close the gap between the door bottom and finished floor or saddle threshold.

1. Provide solid neoprene, EPDM, silicone, or nylon brush type of seal as specified in hardware sets/groups. Vinyl inserts are not allowed except where specified in hardware sets/groups.

I. Automatic Door Bottoms:

1. Provide closed cell sponge, bulb neoprene. or EPDM type of seal as specified in hardware sets/groups.
2. Door bottom to be mortised, semi mortised, or surface mount as with a minimum thickness as specified in hardware sets/groups.

J. Rain Drips:

1. Provide overhead rain drips for out-swinging hollow metal doors that are not covered against 45 degree blowing rain. Aluminum extrusion to be a minimum of .088 inches thick and extend 2.50 inches from the face of the frame, in anodized finish to match door.
2. Door sweeps or shoes with integral rain drip must meet ADA requirements

K. Thresholds: Provide threshold units not less than 4 inches wide, formed to accommodate change in floor elevation where indicated, and fabricated to accommodate door hardware and fit door frames.

1. Threshold extrusion to be a minimum thickness as specified in hardware sets/groups.

2.17 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Schlage

2. Acceptable Manufacturers:
   a. GE-Interlogix

B. Requirements:

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

2.18 FINISHES

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

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

9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

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

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

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

3.02 INSTALLATION

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

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Furnish and install permanent cores as directed by the Owner.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

P. Thresholds:

1. Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
2. Aluminum thresholds to be cut-in, and scribed around mullions, frame members, and stops. Do not butt to thresholds. Provide a continuous surface across full width of opening from jamb to jamb.
3. Where aluminum panic-type (rabbeted) thresholds with neoprene inserts are specified, undercut doors as required to properly mate with seal in threshold.

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

R. Perimeter Gasketing:

1. Apply to head and jamb, forming seal between door and frame.
2. Install gasketing in a manner eliminating need to cut any seal to install surface mounted hardware. Install compatible mounting bracket for surface mounted hardware unless minimum 1/4 inch thick solid aluminum seals are provided for mounting of surface applied hardware.

S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

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

1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets/Groups:

162017 OPT0514784 Version 1

Hardware Group No. 01

B122A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070L 07A	626	SCH
1	EA	Mortise Cylinder	MATCH EXISTING KEY SYSTEM	626	
1	EA	OH STOP & HOLDER	90F J	630	GLY

Hardware Group No. 02

B122B B122C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-F-07	626	VON
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYSTEM	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. 03

B131A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	MANUAL FLUSH BOLT	FB458 12"	626	IVE
1	EA	CLASSROOM LOCK	L9070L 07A	626	SCH
1	EA	Mortise Cylinder	MATCH EXISTING KEY SYSTEM	626	
2	EA	OH STOP & HOLDER	90F J	630	GLY

Hardware Group No. 04

B131B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070L 07A	626	SCH
1	EA	Mortise Cylinder	MATCH EXISTING KEY SYSTEM	626	
1	EA	WALL STOP	WS406/407CVX	630	IVE

Hardware Group No. 05

B131C

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	FIRE EXIT HARDWARE	98-L-F-07	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
1	EA	Mortise Cylinder	MATCH EXISTING KEY SYSTEM	626	
2	EA	RIM CYLINDER	MATCH EXISTING KEY SYSTEM	626	
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	SET	GASKETING	328AA-S JAMB SEAL SET	AA	ZER
1	EA	GASKETING	429AA HEAD SEAL MOUNT PRIOR TO ANY HEAD MOUNTED HARDWARE	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	DOOR BOTTOM	369AA-Z49-PULL-OUT	AA	ZER
2	EA	MEETING STILE	8195AA	AA	ZER

Hardware Group No. 06

B131D

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY	628	IVE
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CD-98-EO	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-98-NL-OP-110MD 24 VDC	626	VON
1	EA	MULLION STORAGE KIT	MT54	689	VON
2	EA	Mortise Cylinder	MATCH EXISTING KEY SYSTEM	626	
1	EA	RIM CYLINDER	MATCH EXISTING KEY SYSTEM	626	
2	EA	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	MEETING STILE	8195AA	AA	ZER
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-V3-223	A	ZER
1	EA	CREDENTIAL READER	BY ACCESS CONTROL PROVIDER		
2	EA	DOOR CONTACT	679-05HM	BLK	SCE
1	EA	POWER SUPPLY	BY ACCESS CONTROL PROVIDER		

CREDENTIAL READER DEVICE IS TO RETRACT LATCH AND SHUNT ANY ALARM ASSOCIATED WITH THE DOOR CONTACT ALLOWING MANUAL INGRESS. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

INACTIVE LEAF CAN BE DOGGED VID KEY FOR INGRESS.

ITEMS TO BE PROVIDED BY THE ACCESS CONTROL VENDOR:
CREDENTIAL READER DEVICE.
POWER SUPPLY.
REQUIRED WIRING FROM THE POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITS SELF.
REQUIRED WIRING TO THE DOOR CONTACTS.

END OF SECTION

SECTION 09 67 24
SPECIAL URETHANE FLOOR

1 General

1.1 Section Includes

A. Polyurethane industrial flooring for interior concrete surfaces.

1.2 Related Sections

A. Section 03 30 00 - Concrete.

1.3 References

A. ASTM C307 - Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacings.

B. ASTM C413 - Absorption of Chemical-Resistant Mortars, Grouts, and Monolithic Surfacings.

C. ASTM C579 - Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.

D. ASTM D696 - Coefficient of Linear Thermal Expansion of Plastics.

E. ASTM D2240 - Rubber Property - Durometer Hardness.

F. ASTM D4258 - Surface Cleaning Concrete for Coating.

G. ASTM D4259 - Abrading Concrete.

H. ASTM F1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Calcium Chloride.

1.4 Submittals

A. Comply with Division 1.

B. Product Data: Submit manufacturer's product data, including physical properties and colors available.

C. Submit samples of color per the finish legend, 4 inches by 4 inches in size, illustrating color, sheen, and texture.

D. Maintenance Instructions: Submit manufacturer's maintenance instructions, including maintenance procedures and materials, procedures for stain removal and surface repair, and recommended schedule for cleaning.

1.5 Quality Assurance

A. Qualifications:

1. Applicator: Use applicator experienced in application of specified materials for a minimum of 5 years on projects of similar size and complexity. Provide list of completed projects including project name and location, and approximate quantity of materials applied.

2. Applicator's Personnel: Employ persons trained for application of specified materials.

B. Preapplication Meeting: Convene a preapplication meeting 2 weeks before start of application of floor coating. Require attendance of parties directly affecting work of this section, including Contractor, Construction Manager, applicator, and manufacturer's representative. Review surface preparation, priming, application, curing, protection, and coordination with other work.

1.6 Delivery, Storage, And Handling

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, batch or lot number, and date of manufacture.

B. Storage:

1. Store materials in accordance with manufacturer's instructions.

2. Keep containers sealed until ready for use.

3. Do not subject material to excessive heat or freezing; do not apply material that has been subjected to excessive heat or freezing. Material subjected to excessive heat or freezing shall be separated from inventory and destroyed by mixing all three components. The solid reacted product shall be disposed of in environmentally sound and regulatory compliant manner.

C. Handling:

1. Protect materials during handling and application to prevent damage or contamination.

2. Condition materials for use to 65 degrees F - 75 degrees F (18 degrees C - 24 degrees C) for 24 hours prior to application.

1.7 Environmental Conditions

A. Do not apply materials if floor or air temperature is below 55 degrees F or above 85 degrees F.

B. Do not apply materials if relative humidity is above 85 percent.

C. Moisture vapor emission content of the concrete slab must not exceed manufacturer's recommended criteria when using the calcium chloride test as per ASTM F1869.

1.8 Warranty

A. Provide a warranty covering materials and workmanship for a period of five years after date of installation.

2 Products

2.1 Special Urethane Finish Manufacturer

A. Basis of Design: Protective Industrial Polymers, North Ridgeville, Ohio; or an approved equal submitted to Architect prior to bidding.

1. Primer: PIP 1000 HB
2. Build Coat: PIP 1000 HB
3. Topcoat: PIP 2000 Series Urethane

2.2 Materials

A. Description: Three-component, 3/8" nap roller applied, polyurethane concrete floor finish with aliphatic urethane topcoat.

1. Coefficient of Thermal Expansion, ASTM C-531: 1.44 x 10^5 in/in./F°.
2. Adhesion: 7500 psi
3. Heat Resistance:
    a. Continual Exposure: 210 degrees F.
    b. Intermittent Exposure: 250 degrees F.
    c. Radiant Heat Exposure: 450 degrees F.

B. Primer- PIP 1000HB:

1. Apply the properly mixed primer to the substrate using a flat or notched squeegee and level uniformly with a non-shed 3/8" roller to completely wet out the concrete leaving no bare spots or excessive puddling.
2. Leaving the mixed material sit in the pail longer than 15 minutes will result in an increase of viscosity and reduce leveling properties.
3. Thickness: 8 - 10 mils

C. Intermediate Basecoat- PIP 1000HB:

1. Apply the properly mixed basecoat to the substrate using a notched squeegee and level uniformly with a non-shed 3/8" roller.

2. Thickness: 10 - 15 mils

D. Topcoat- PIP 2100 Satin:

1. Apply the properly mixed topcoat to the intermediate basecoat using a non-shed 3/8" roller.

2. Material may be squeegeed and back rolled if applied without a wear additive.

3. If wear additive is incorporated it must be pan rolled to obtain proper aesthetics.

4. Thickness: 4 mils

E. Tolerances:

1. Protect CT-500 nominal thickness: 20 - 30 mils

F. Vapor Barrier: Provide per manufacturer's recommendations.

G. Color: As selected by the Architect from the manufacturer's full available range, refer to finish legend.

3 Execution

3.1 Examination

A. Examine surfaces to receive Urethane concrete floor finish. Notify Construction Manager if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

B. Application of Urethane can be installed over concrete less than 30 days old. Consult Technical Service prior to application when concrete has not cured for 30 days.

3.2 Surface Preparation

A. Prepare concrete surfaces in accordance with manufacturer's instructions and ASTM D4258.

B. Remove dirt, oil, grease, wax, laitance, curing compounds, water soluble concrete hardeners, and other surface contaminants.

C. Remove unsound concrete by scarifying, sand blasting, shot blasting, or high pressure water blasting.

D. Surface Preparation:

1. Apply chemicals to concrete surface in accordance with manufacturer's instructions.

2. Remove dirt, oil, and grease.

3. Rinse thoroughly and remove standing water.

4. Conform to ASTM D4262

3.3 Control Joints, Cracks

A. Provide repair and treatment of control joints and surface cracks utilizing manufacturers standard materials and installation details.

3.4 Application

A. Apply moisture vapor barrier over entire concrete slab.

B. Mix and apply Urethane finish in accordance with manufacturer's instructions.

C. For coverage rates, consult data sheet for the specific grade of Urethane.

D. Finish surface to be smooth, free of trowel marks, and without porous areas.

E. Trowel into groove cut into concrete floor, when finish does not abut a vertical surface.

F. Do not add thinners to materials.

3.5 Protection

A. Protect Urethane low floor finish during curing from traffic and chemical spillage. Based on air temperature of 75 degrees F.

1. Foot Traffic: Minimum of 24 hours.

2. Heavy Wheeled Traffic: 2 to 4 days.

3. Chemical Spillage: 1 week.

4. Full coating properties may take up to 7 days to develop.

END OF SECTION

SECTION 10 11 00
MARKERBOARDS AND CORKBOARDS

1 General

1.1 Section Includes

A. Porcelain surfaced markerboards.

B. Corkboards.

C. Trim, tray, and accessories.

1.2 References

A. ANSI A208.1 - Mat Formed Wood Particle Board.

B. APA - American Plywood Association.

C. FS CCC-W-408A - Wall Covering Vinyl-Coated.

D. FS LLL-B-810 - Building Board, (Hardboard) Hard Pressed, Vegetable Fiber.

1.3 Regulatory Requirements

A. Conform to applicable code for flame/fuel/smoke rating for vinyl fabric covered corkboards in accordance with ASTM E84.

1.4 Submittals

A. Submit shop drawings and product data under provisions of Division 1.

1. Indicate on shop drawings, wall elevations, dimensions, trim, accessories, and anchor details.

1.5 Maintenance Data

A. Submit maintenance data under provisions of Division 1.

1.6 Delivery

A. Deliver factory assembled markerboard, corkboard, and trim to project site four (4) months prior to projected completion date.

1. Violation of the above requirement will result in cancellation of the markerboard order and the supplying of another markerboard at no extra cost to the Owner.

1.7 Warranty

A. Warranty: Include coverage of markerboard surface from discoloration due to cleaning, crazing, cracking, and staining for fifty (50) years after date of original installation.

2 Products

2.1 Markerboards And Corkboards - Acceptable Manufacturers

A. Claridge Products and Equipment, Inc., Harrison, Arkansas.

1. LCS Series 1 Markerboard.

B. Platinum Visual Solutions, Clymer, Pennsylvania.

C. Adam Nelson, San Bernardino, California.

D. ProSteel by K-Pro Specialty Products, Bath, Ohio.

2.2 Materials

A. Sheet Steel: Special quality, enameling steel, low metaloid and copper content, 24 gage; or Vitracite, 24 gage.

B. Aluminum Extrusions: Trim and angle clips.

C. Composition Cork: Formulation of cork granules, oils, and pigments, impregnated with plastic; burlap backed; Class B; color as selected.

D. Plywood: APA Structural I, Grade C-D, fir species.

E. Hardboard: FS LLL-B-810; tempered, smooth face, both sides.

F. Particle Board: ANSI A208.1; wood chips or shavings set with waterproof resin binder, sanded faces.

G. Aluminum Backing: Aluminum sheet, minimum 0.015 inch thick.

H. Adhesives: Type recommended by manufacturer.

2.3 Finishes

A. Porcelain Enamel: Glass fibered enamel, baked to vitreous surfaces; reflectance factor of more than 15 percent and less than 20 percent as recommended by the American Illuminating Engineering Society and the American Institute of Architects in the report, American Standard Practice for Schools; color as selected from manufacturer's available range.

1. Base Coat: Minimum 0.0025 inch nickel cobalt ground coat, front and back.

2. Finish Coat: Minimum 0.003 inch porcelain enamel writing coat, front, and all edges at joints.

B. Composition Cork Surface: Vinyl impregnated cork of color as selected from manufacturer's full available range.

C. Aluminum Frame and Accessories: Anodized to clear finish.

2.4 Accessories

A. Map Supports: Formed aluminum hooks and roller brackets, sliding type to fit map rail. Provide four hooks and two roller brackets on each markerboard.

B. Flag Holders: Cast aluminum board to receive flag staff, bracketed to fit top rail of markerboard.

1. Provide one flag holder for each classroom.

C. Starter Kits: Accessory starter kit for each markerboard consisting of the following:

1. Cleaning, maintenance, and how-to-use handbook.

2. Minimum twelve dry marker pens in four colors and eraser.

D. Display Rail: Aluminum extrusion, approximately 2 inches wide, with cork strip inserts.

2.5 Fabrication - Markerboards

A. Outer Face Sheet: Steel, 24 gage.

B. Core: Plywood; 1/4 inch thick.

1. Contractor's Option: Particle board, 3/8 inch thick.

C. Backing Surface: Aluminum sheet, 0.015 inch thick.

D. Splice Joint: Splice Joints are not acceptable.

E. Provide balanced high-pressure, factory-laminated markerboard assemblies of 3-ply construction consisting of face sheet, core, and backing. Factory apply frames and trim to markerboards.

2.6 Fabrication - Corkboards

A. Outer Facing: Composition cork, 1/4 inch thick, reinforced with burlap backing.

B. Backing: Hardboard, 1/4 inch thick.

C. Provide balanced high-pressure, factory-laminated corkboard assemblies of 2-ply construction consisting of facing and backing. Factory apply frames and trim to corkboards.

2.7 Frame And Trim

A. Frame: Extruded aluminum, perimeter trim to be 1 1/2" wide, map rail with cork insert over markerboard surfaces.

B. Marker Tray: Box type, extruded aluminum, of snap-on profile; one piece, full length of markerboard; closed aluminum end closures; concealed fasteners.

1. Blade type tray is not acceptable.

2. Lap edges of marker or cork minimum 1/4 inch.

C. Concealed Fasteners: Provide continuous aluminum grounds with integral continuous aluminum clips, one piece configuration.

3 Execution

3.1 Inspection

A. Verify that surfaces and internal wall blocking are ready to receive work.

B. Beginning of installation means acceptance of substrate construction.

C. Provide porcelain thickness meter to Construction Manager for measuring thickness of porcelain.

3.2 Installation

A. Install in accordance with manufacturer's instructions.

B. Install continuous grounds with integral continuous clips with toggle bolts or approved fasteners.

C. Verify all dimensions and locations of items prior to installation.

D. Verify mounting height.

E. Secure units level and plumb.

F. Provide all framed corkboards throughout the project.

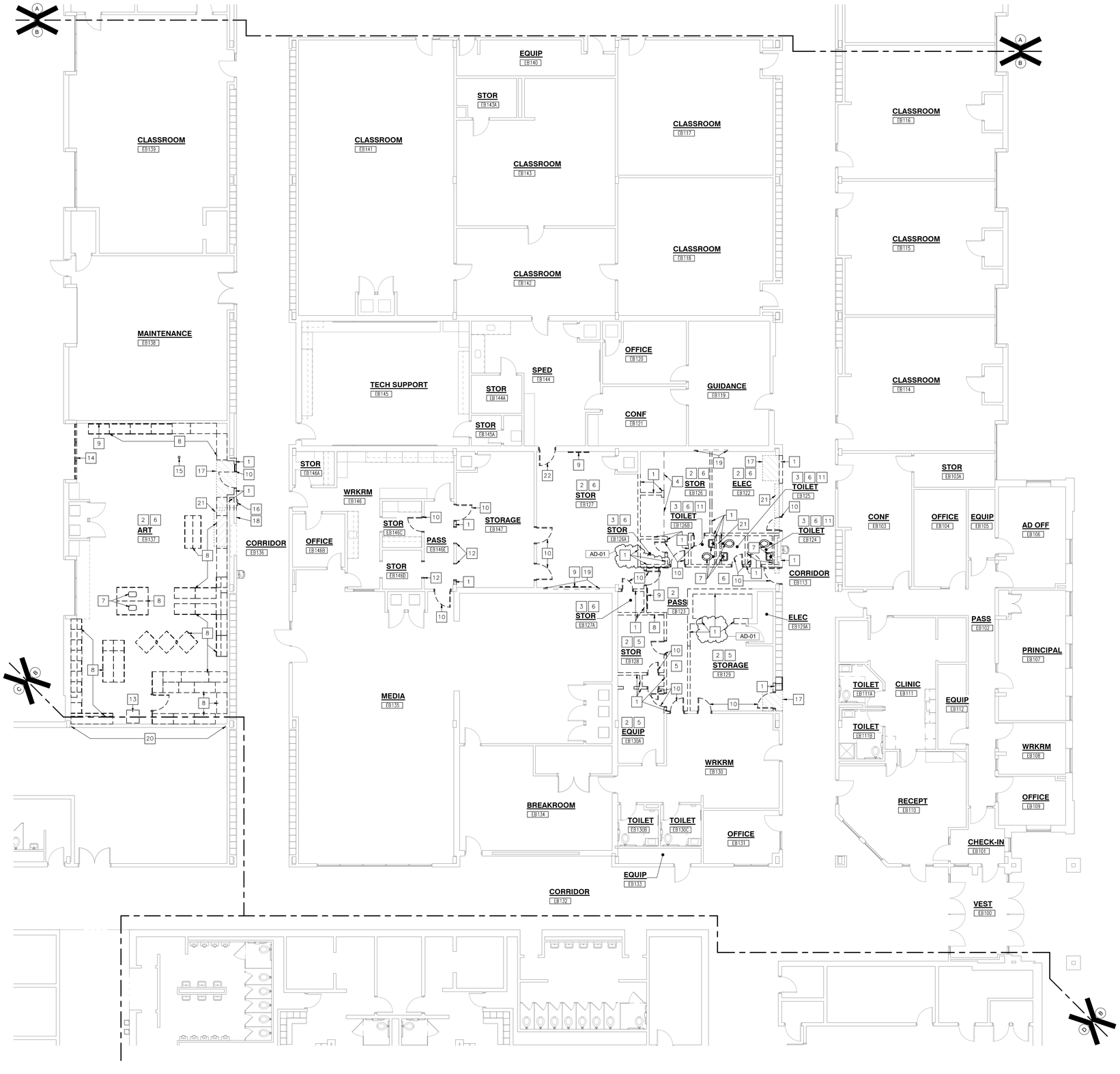
3.3 Cleaning

A. Clean surfaces in accordance with manufacturer's instructions.

B. Cover markerboard and corkboard surfaces with protective cover, taped to frame.

C. Remove protective cover at Date of Substantial Completion.

END OF SECTION



1 AD102 **UNIT "B" FIRST FLOOR DEMO PLAN**

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

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G SERIES SHEETS.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFF SITE REMOVAL OF ALL DEMOLITION MATERIALS AND/OR ITEMS UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER.

H. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS. (WHERE APPLICABLE)

I. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

J. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

K. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

L. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

M. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN FOR INSTALLATION OF NEW FINISHES.

N. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

O. OVER CUT NEW OPENINGS IN EXISTING WALL REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

P. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

Q. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

R. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

S. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

T. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

U. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

V. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

W. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

DEMOLITION PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. REMOVE MASONRY WALL AS REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR FLOOR AND WALL AS REQUIRED TO RECEIVE NEW FINISHES.
2. REMOVE ACOUSTICAL BOARD CEILING SYSTEM IN ITS ENTIRETY.
3. REMOVE GYPSUM BOARD/PLASTER CEILING IN ITS ENTIRETY.
4. REMOVE GYPSUM BOARD BULKHEAD IN ITS ENTIRETY, INCLUDING TRACK SYSTEM.
5. REMOVE CARPET FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
6. REMOVE VCT FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
7. REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE, UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS. PATCH AND REPAIR FLOOR AND/OR WALL AS REQUIRED TO RECEIVE NEW FINISHES.
8. REMOVE CASEWORK/SHELVING IN ITS ENTIRETY. PATCH AND REPAIR WALL AND FLOOR AS REQUIRED TO ACCEPT NEW FINISHES.
9. REMOVE TACK BOARD, MARKER BOARD, OR CHALK BOARD IN THEIR ENTIRETY. PATCH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
10. REMOVE DOOR AND HOLLOW METAL FRAME IN ITS ENTIRETY.
11. REMOVE TOILET ACCESSORIES AND TURN OVER TO THE OWNER.
12. REMOVE HOLLOW METAL FRAME IN ITS ENTIRETY. PATCH AND REPAIR WALL AS REQUIRED FOR NEW CONSTRUCTION.
13. CAREFULLY REMOVE KILN AND SAVE FOR REINSTALLATION.
14. REMOVE ALUMINUM WINDOW SYSTEM IN ITS ENTIRETY.
15. REMOVE ELECTRICAL POWER POLE. REFER TO ELECTRICAL DRAWINGS.
16. CAREFULLY REMOVE FIRE EXTINGUISHER AND CABINET AND SAVE FOR REINSTALLATION.
17. HATCH AREA INDICATES WHERE TO SAW CUT AND BUSH HAMMER EXISTING SLAB DOWN BY 1/2" FOR NEW TERRAZZO.
18. PREP OPENING TO REINSTALL EXISTING RECESSED FIRE EXTINGUISHER CABINET.
19. REMOVE EXISTING WINDOW INFILL. FILL OPENING WITH 4" CMU STACK BOND, TO BE FLUSH WITH ADJACENT WALL. PREPARE FOR NEW FINISH.
20. SHORE ENTIRE RUN OF INTERIOR MASONRY WALL. REMOVE AND REPLACE ENTIRE BOTTOM COURSING OF CMU, SIZE AND COURSING TO MATCH EXISTING.
21. REMOVE EXISTING FLOOR SLAB TO ALLOW FOR REWORK OF EXISTING PIPING AND INSTALLATION OF NEW PLUMBING.
22. REMOVE DOOR AND WOOD FRAME IN ITS ENTIRETY.

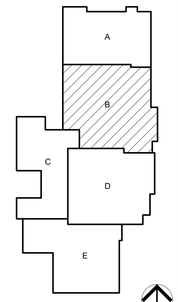
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PROJECT:

BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

BLUE RIVER VALLEY SCHOOLS

4741 VIKING TRAIL
NEW CASTLE, IN 47362



KEY PLAN NORTH

100% CD SET 9/21/26

GIBRALTAR DESIGN
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Indianapolis, IN 46268
Homepage: www.GibraltarDesign.com
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PROJECT 26-129
DATE 09/21/26
COORDINATED BY DJW
DRAWN BY JLM
CHECKED BY BCB

DALE J. WAGNER REGISTERED NO. 19600171 STATE OF INDIANA ARCHITECT

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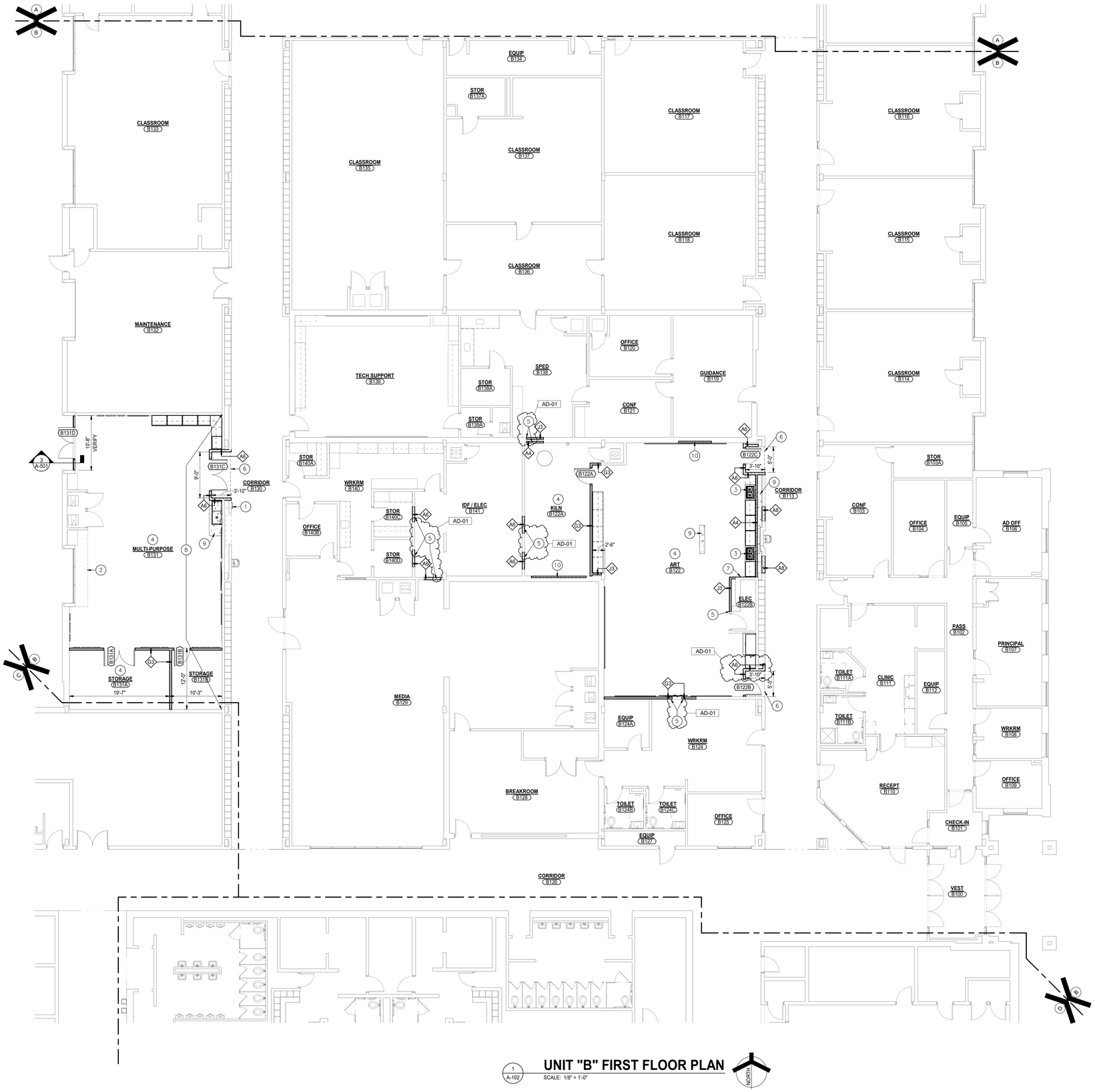
DRAWING
UNIT "B" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT
BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

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UNIT "B" FIRST FLOOR PLAN

1 / A-102 — SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G-SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. 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

D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, CASEWORK, ETC. AND PROVIDE FIRE TREATED WOOD BLOCKING (OR METAL STRAPPING WHERE INDICATED) WITHIN METAL STUD WALLS FOR ALL WALL MOUNTED ITEMS.

H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

J. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

K. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.

N. REFER TO FINISH PLANS FOR INTERIOR ELEVATIONS, LOCATION, AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

O. REFER TO EQUIPMENT PLANS FOR CASEWORK, DISPLAY BOARDS, LOCKERS, AND OTHER ADDITIONAL TYPICAL EQUIPMENT NOTES AND INFORMATION.

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1 REINSTALL SALVAGED FIRE EXTINGUISHER CABINET.
2 EXISTING BULKHEAD TO REMAIN.
3 NEW PLUMBING FIXTURE. REFER TO EQUIPMENT AND PLUMBING DRAWINGS.
4 CASEWORK, MILLWORK, MARKER/TACK BOARDS, AND EQUIPMENT. REFER TO A-700 SERIES DRAWINGS.
5 ALIGN NEW WALL CONSTRUCTION WITH FACE OF EXISTING WALL.
6 DASHED LINE INDICATES TYPICAL BULKHEAD, REFER TO REFLECTED CEILING PLAN.
7 LAMINATE 5/8" GYPSUM BOARD TO EXISTING MASONRY WALL.
8 EXTEND EXISTING WALL TO DECK WITH NEW 3 5/8" METAL STUDS AND 5/8" GYPSUM BOARD BOTH SIDES, INCLUDE BATT INSULATION.
9 PROVIDE CONCRETE PATCH FOR NEW PLUMBING. REFER TO DETAIL 5/A-501.
10 4" CMU STACK BOND WALL INFILL TO BE FLUSH WITH ADJACENT WALL.

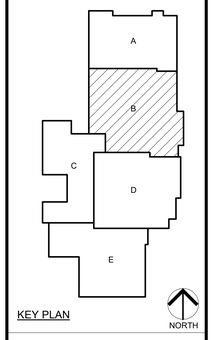
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PROJECT:

BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

BLUE RIVER VALLEY SCHOOLS

4741 VIKING TRAIL
NEW CASTLE, IN 47362



KEY PLAN

100% CD SET 9/21/26

GIBRALTAR DESIGN
4030 Vincennes Rd., Ste. 100
Indianapolis, IN 46268
Homepage: www.GibraltarDesign.com
Phone 317.580.5777

PROJECT
26-129
DATE
09/21/26
COORDINATED BY
DJW
DRAWN BY
JLM
CHECKED BY
BCB

DALE J. WAGNER REGISTERED NO. 19600171 STATE OF INDIANA ARCHITECT

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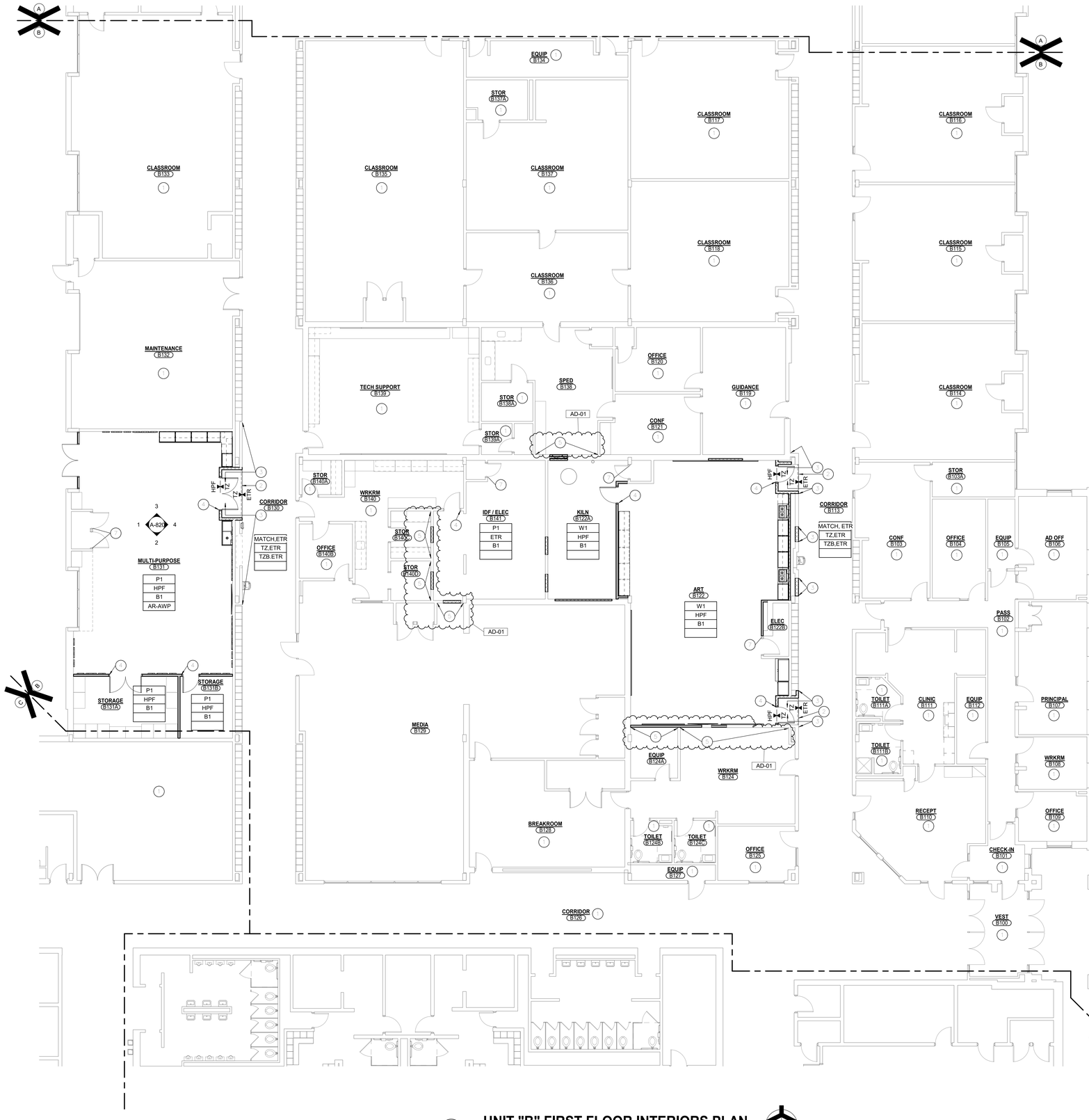
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UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

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UNIT "B" FIRST FLOOR INTERIORS PLAN

1 / A-802

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

GENERAL FINISH NOTES:

A. REFERENCE FINISH LEGEND FOR FINISH INFORMATION.

B. REFERENCE FLOOR PATTERN PLANS, EQUIPMENT PLANS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.

C. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND /OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

D. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

E. ALL FLOORING IS TO BE LEVELED WITHIN 1/4" IN 10'-0" WITH LATEX MATERIAL. MOISTURE CONTENT IN AREA IS TO BE TESTED PRIOR TO INSTALLATION OF FLOORING MATERIAL. CONTRACTOR TO INSTALL FLOORING PER MANUFACTURER'S RECOMMENDED METHOD.

F. FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.

G. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.

H. ALL FLOOR FINISH TRANSITIONS AT DOORS SHALL BE CENTERED UNDER DOOR UNLESS NOTED OTHERWISE.

I. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC, THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKYD TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

J. CONTRACTOR TO PROVIDE AND INSTALL FLOORING TRANSITIONS AS INDICATED ON THE FLOOR PATTERN PLANS. WHERE NONE ARE NOTED, CONTRACTOR SHALL VERIFY REQUIRED TYPE/COLOR WITH ARCHITECT.

K. FOR FLOOR FINISH TRANSITION DETAILS REFER TO A500 SERIES SHEETS. FOR GYMNASIUM WOOD FLOOR BASE AND TRANSITION DETAILS REFER TO A500 SERIES SHEETS.

L. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

M. EXPOSED SURFACES OF DUCTWORK TO BE PAINTED TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE.

N. PAINT ALL SIDES OF BULKHEADS IN ROOMS RECEIVING FINIHES P2 UNLESS NOTED OTHERWISE.

O. REFER TO PROJECT MANUAL FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.

FINISH PLAN LEGEND:

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	MISC FINISH INFORMATION

FLOOR TRANSITION AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

FINISH PLAN NOTES

AD-01
1 NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE NEW FINISHES.
2 NEW FLOOR TERRAZZO, TZ, AND NEW WALL BASE B1
3 PAINT WALL, FLOOR TO CEILING TO MATCH EXISTING WALL PAINT FINISH AND COLORS. MATCH EXISTING PAINTED WALL STRIPES. PROVIDE WALL BASE B1.
AD-01
4 PAINT BOTH SIDES OF DOOR FRAME, P3.
5 PAINT TO MATCH EXISTING WALL PAINT IN ROOM AND PROVIDE NEW WALL BASE TO MATCH EXISTING ROOM. PROVIDE NEW WALL BASE ON ENTIRE LENGTH OF SAME WALL.
7 PAINT THIS SIDE OF DOOR FRAME ONLY. P3.

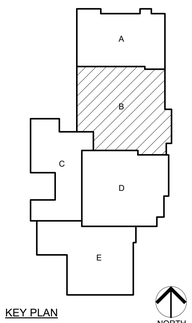
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PROJECT:

BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

BLUE RIVER VALLEY SCHOOLS

4741 VIKING TRAIL
NEW CASTLE, IN 47362



KEY PLAN

100% CD SET 9/21/26

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PROJECT
26-129
DATE
09/21/26
COORDINATED BY
DJW, BB
DRAWN BY
CLN
CHECKED BY
NAS,BB

DALE J. WAGNER REGISTERED ND. 19600171 STATE OF INDIANA ARCHITECT

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REVISIONS

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AD-01	10/22/26	ADD 01

DRAWING
UNIT "B" FIRST FLOOR FINISH PLAN

PROJECT
BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

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FINISH LEGEND

SURFACE	MARK	DESCRIPTION	MANUFACTURER	PATTERN/FINISH	NUMBER/COLOR	SIZE	COMMENTS
WALL BASE & STAIRS							
	B1	VINYL WALL BASE	TARKETT		40 BLACK	4" COVE	
FLOOR MATERIALS							
	HPF	HIGH PERFORMANCE FLOORING	SHERWIN WILLIAMS		CANADA GRAY		SEE SPECIFICATIONS
	TZ	EPOXY TERRAZZO					SEE NOTE 1
WALL MATERIALS							
	P1	PAINT	SHERWIN WILLIAMS		SW7015 REPOSE GRAY		FIELD
	P2	PAINT	SHERWIN WILLIAMS		SW7007 CEILING BRIGHT WHITE		BULKHEADS
	P3	PAINT	SHERWIN WILLIAMS		SW6258 TRICORN BLACK		DOOR FRAMES
	W1	WALL COATING	SHERWIN WILLIAMS		SW7015 REPOSE GRAY		ART ROOM
CASEWORK & MILLWORK							
	PL1	PLASTIC LAMINATE	PIONITE		WC115 AIMTOO SAVATRE		CASEWORK
	PL2	PLASTIC LAMINATE	WILSONART		4947-38 RAW COTTON		COUNTERTOP
	SS1	SOLID SURFACE	CORIAN		LAGUNA TERRAZZO		COUNTERTOP
MISCELLANEOUS							
	AR-AWP1	ACOUSTIC WALL PANEL TECTUM	ARMSTRONG		SW 7570 EGRET WHITE		MULTI PURPOSE
	AR-AWP2	ACOUSTIC WALL PANEL TECTUM	ARMSTRONG		CUSTOM RED		MULTI PURPOSE SEE NOTE 2
	AR-AWP3	ACOUSTIC WALL PANEL TECTUM	ARMSTRONG		CUSTOM BLUE		MULTI PURPOSE SEE NOTE 3
	TB	TACK BOARD	CLARIDGE		TBD		
	WD	WOOD DOORS	VT INDUSTRIES		SERENGETI SE18		MATCH EXISTING DOOR B132

AD-01

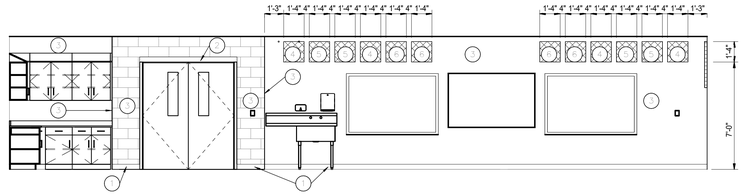
AD-01

ETR = EXISTING TO REMAIN

NOTE 1: CUSTOM TERRAZZO BLEND: 100% WHITE CEMENT 2 OUNCES OF BUFF COLOR
45% FORREST GREEN #1
5% FOEST GREEN #0
45% NEW ROYAL GREEN #1
5% NEW ROYAL GREEN #0

NOTE 2: CUSTOM PAINT RED FORMULA: OZ 32 64 128
R2 MAROON -- 30 -- --
R3 MAGENTA 6 37 -- --

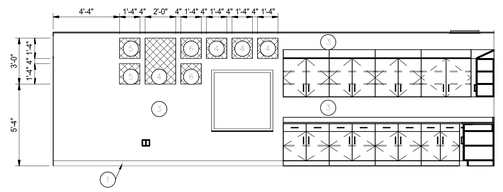
NOTE 3: CUSTOM PAINT BLUE FORMULA: OZ 32 64 128
B1 BLACK 2 7 1 1
W1 WHITE - 23 - 1
L1 BLUE 2 38 - -
R3 MAGENTA 2 58 -- 1



4 / A-820

INTERIOR ELEVATION - MULTI PURPOSE ROOM B131 - EAST WALL

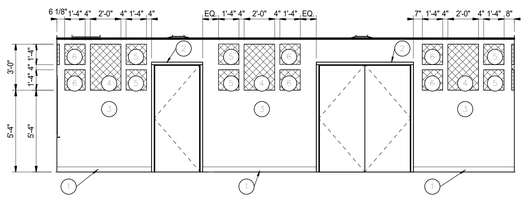
SCALE: 1/4" = 1'-0"



3 / A-820

INTERIOR ELEVATION - MULTI PURPOSE ROOM B131 - NORTH WALL

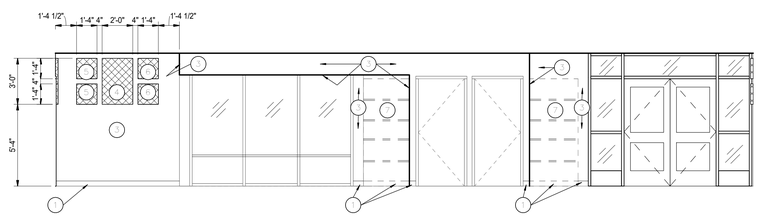
SCALE: 1/4" = 1'-0"



2 / A-820

INTERIOR ELEVATION - MULTI PURPOSE ROOM B131 - SOUTH WALL

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



1 / A-820

INTERIOR ELEVATION - MULTI PURPOSE ROOM B131 - WEST WALL

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

GENERAL INTERIOR ELEVATION NOTES:

A. REFERENCE FINISH LEGEND AND SPECIFICATIONS FOR FINISH INFORMATION.

B. REFERENCE FINISH PLANS, EQUIPMENT PLANS, REFLECTED CEILING PLANS AND WRITTEN SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.

C. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND /OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

D. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

E. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC, THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKYD TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

F. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

INTERIOR ELEVATION FINISH NOTES

1 WALL BASE, B1.
2 PAINT DOOR FRAME, BOTH SIDES, P3.
3 PAINT, P1
4 AR-AWP1, ACOUSTICAL WALL PANEL
5 AR-AWP2, ACOUSTICAL WALL PANEL
6 AR-AWP3, ACOUSTICAL WALL PANEL
7 EXISTING BUILT IN CASEWORK TO REMAIN. DO NOT PAINT.

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PROJECT:

BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

BLUE RIVER VALLEY SCHOOLS

4741 VIKING TRAIL
NEW CASTLE, IN 47362

100% CD SET 9/21/26

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PROJECT 26-129
DATE 09/21/26
COORDINATED BY DJW
DRAWN BY CLN
CHECKED BY NAS,BCB

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DRAWING
FINISH LEGEND AND INTERIOR ELEVATIONS

PROJECT
BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

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MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA: CFM	MIN. OAI CFM: HIGH	LOW	TSP	ESP	BHP	HP	RPM	EXHAUST FANS: CFM	ESP	BHP	HP	RPM	DX COOLING EQUIPMENT/COIL DATA: MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	ELECTRICAL DATA: LOAD: HP	MCA	FLA	MOCP	VOLT	PHASE	HZ	STARTER: TYPE	PROV. BY: M.C.	E.C.	UNITS CONTROLLED BY	EQUIPMENT WEIGHT	REMARKS
GEF-1	GREENHECK	G-095-G	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN										500	0.35	.07	1/12	1300											2.5		120	1	60			X	EX. FMS	52	NOTE 1
AC-1	MITSUBISHI	PLA-AE36NL	4 WAY 3'x3' CEILING MOUNTED CASSETTE		1200													36									2				208	1	60		X		EX. FMS	57	NOTE 2
CU-1	MITSUBISHI	PUY-A436NL	ROOF MOUNTED AIR-COOLED CONDENSING UNIT															36						95	1		34		60	208	1	60		X		INTERLOCK TO AC-1	224	NOTE 3

NOTE 1:
PROVIDE WITH:
- DISCONNECT SWITCH
- ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
- MOTORIZED DAMPER
- BIRD SCREEN
- ROOF CURB

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 2:
PROVIDE WITH:
- (HARD-WIRED) THERMOSTAT
- MINIMUM 30' CONDENSATE LIFT
- VIBRATION ISOLATION HANGERS

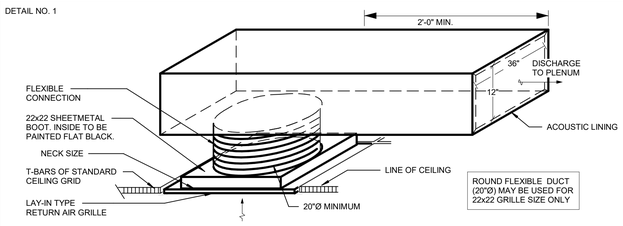
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 3:
PROVIDE WITH:
- LOW AMBIENT CONTROLS FOR 100% COOLING CAPACITY DOWN TO 30°F
- WIND BAFFLES
- HAIL GUARDS
- 18" HIGH EQUIPMENT SUPPORT RAILS WITH SPRING ISOLATORS

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

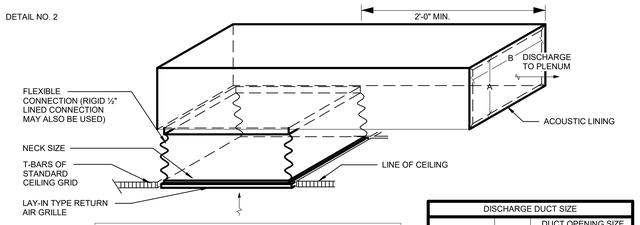
TRANSFER AIR ELBOW DETAIL

DETAIL NO. 1 (NTS)



ROUND FLEXIBLE DUCT (20"Ø) MAY BE USED FOR 22x22 GRILLE SIZE ONLY

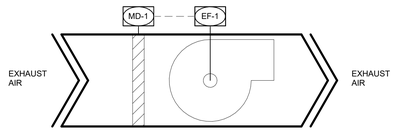
DETAIL NO. 2



1. REFER TO DRAWINGS FOR SIZE OF TRANSFER AIR GRILLES.
2. REFER TO "DISCHARGE DUCT SIZE" CHART FOR CORRESPONDING DUCT SIZES FOR EACH TRANSFER AIR GRILLE.
3. DETAIL NO. 1 IS FOR TRANSFER AIR GRILLE SIZES 22X22 ONLY.
4. DETAIL NO. 2 IS FOR ALL TRANSFER AIR GRILLES EXCEPT FOR 22X22.
5. PROVIDE ½"x½" WIRE MESH SCREEN AT T/A DUCT OPENING INTO PLENUM.

DISCHARGE DUCT SIZE			
GRILLE SIZE	NECK SIZE	DUCT OPENING SIZE: HEIGHT (A)	WIDTH (B)
22x6	22/6	6"	22"
22x12	22/12	12"	22"
22x22	22/22	12"	36"
24x6	24/6	6"	24"
24x12	24/12	12"	24"
24x24	24/24	12"	36"
12x12	12/18	12"	18"

EXHAUST FAN CONTROLS



CONTROL SEQUENCE:

A. REFER TO THE EQUIPMENT SCHEDULE ON THE CONTRACT DOCUMENTS TO DETERMINE WHICH OF THE FOLLOWING CONTROLS SHOULD BE PROVIDED FOR THE EXHAUST FANS:

1. FACILITY MANAGEMENT SYSTEM CONTROL: THE FMS SHALL CONTROL THE EXHAUST FANS "ON/OFF". INTERLOCK THE EXHAUST FANS WITH THE RESPECTIVE AIR-HANDLING SYSTEM'S OCCUPIED/UNOCCUPIED SCHEDULE.
2. REVERSE ACTING THERMOSTAT CONTROL: A REVERSE ACTING SPACE THERMOSTATS TO BE PROVIDED TO START THE EXHAUST FAN AND OPEN THE ASSOCIATED AUTOMATIC DAMPERS ON A RISE IN TEMPERATURE ABOVE THERMOSTAT SETPOINT. CONTRACTOR HAS OPTION TO PROVIDE LINE VOLTAGE THERMOSTATS IN LIEU OF LOW VOLTAGE.
3. WALL SWITCH CONTROL: EXHAUST FANS TO BE CONTROLLED LOCALLY BY WALL SWITCH OR HOOD MOUNTED CONTROLS – SEE ELECTRICAL DRAWINGS. MONITOR STATUS FOR BUILDING PRESSURIZATION CONTROL. SEE AIR HANDLING UNIT CONTROL SEQUENCE.
4. HOOD SWITCH CONTROL: EXHAUST FANS TO BE CONTROLLED BY HOOD MOUNTED CONTROLS AS FURNISHED AND INSTALLED BY THE HOOD SUPPLIER. MONITOR STATUS FOR BUILDING PRESSURIZATION CONTROL. SEE AIR HANDLING UNIT CONTROL SEQUENCE.

CONTROL POINTS - EXHAUST FANS

DEVICE TAG	DESCRIPTION	OUTPUTS: DO	DO TYPE	AO	AO TYPE	INPUTS: DI	DI TYPE	AI	ALARMS: DIGITAL: GENERAL	CRITICAL	ANALOG: HIGH LIMIT	LOW LIMIT	GRAPHIC	TREND	REMARKS
EF-1	EXHAUST FAN EC MOTOR	X	START/STOP			X	STATUS		X				X	X	
MD-1	MOTORIZED BACKDRAFT DAMPER	X	OPEN/CLOSE												INTERLOCKED WITH FAN

AD-1

CONTROLS ABBREVIATIONS LIST

AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DX	DIRECT EXPANSION REFRIGERATION SYSTEM
ECM	ELECTRICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
MD	MOTORIZED DAMPER
SD	SMOKE DETECTOR
SF	SUPPLY FAN
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE

SYMBOL LIST

XX-X	CONTROL DEVICE
	FAN
	FILTER
	COIL
	CONTROL DAMPER

CONTROLS GENERAL NOTES

A. PROVIDE ALL LABOR, MATERIAL AND SOFTWARE THAT IS REQUIRED TO MEET THE FUNCTIONAL INTENT OF THE SEQUENCE OF OPERATIONS. PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES COMPLETE AS REQUIRED. POINT LISTS PROVIDED ARE A GUIDE TO THE REQUIRED CONTROL SYSTEM POINTS BUT THE FINAL POINTS SHALL BE DETERMINED BY SEQUENCE OF OPERATIONS.

B. ALL SET POINTS SHALL BE OPERATOR ADJUSTABLE THROUGH THE FMS.

C. REFER TO DRAWING FLOOR PLANS AND EQUIPMENT SCHEDULES FOR MECHANICAL EQUIPMENT QUANTITIES AND LOCATIONS. REFER TO EQUIPMENT SCHEDULES FOR HEATING/COOLING SYSTEM STAGES AND QUANTITY OF FANS IN AIR SYSTEMS.

D. REFER TO FLOOR PLANS FOR ROOM SENSOR LOCATIONS AND QUANTITIES.

E. ROOM NAMES AND NUMBERS ARE FOR REFERENCE ONLY. FIELD VERIFY AND USE ACTUAL ROOM NAMES/NUMBERS AS REQUIRED FOR BMS GRAPHICS.

F. PROVIDE ALL NEW CONTROL DEVICES AS SHOWN IN DIAGRAMS UNLESS NOTED OTHERWISE.

G. ALL POINTS REQUIRED BY THE SEQUENCE OF OPERATION AS WELL AS ALL OF THE POINTS' ASSOCIATED VALUES, SHALL BE CONNECTED TO THE FMS AND AVAILABLE TO THE FMS OPERATORS ON ALL OPERATOR WORKSTATIONS AND ALL OPERATOR INTERFACE DEVICES AS PART OF A GRAPHICAL DISPLAY THAT DEPICTS THE MECHANICAL SYSTEM CONTROLLED.

H. ALL POINTS FOR A SPECIFIC MECHANICAL SYSTEM SHALL BE CONNECTED TO AND CONTROLLED BY THE SAME DDC CONTROLLER UNLESS OTHERWISE SPECIFIED.

I. ALL INITIAL FIELD SETTINGS APPLIED SHALL BE SAVED AS THE DEFAULT VALUES. THESE VALUES SHALL BE DOWNLOADED TO THE CONTROLLER SUCH THAT THEY ARE THE DEFAULT VALUE IF THE CONTROLLER LOSES POWER.

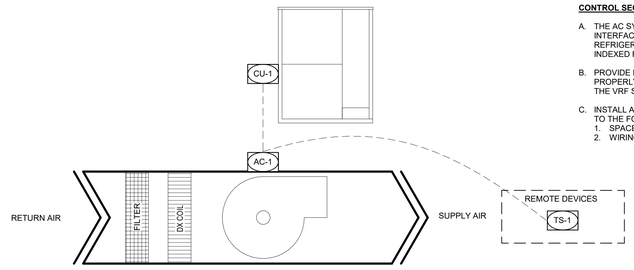
J. WHEN THE MOTOR CONTROLLER IS EQUIPPED WITH AN HOA, THE MOTORS SHALL ONLY BE CONTROLLED BY THE FMS WHEN THE HOA SWITCH IS IN THE AUTO POSITION.

K. WHERE A FAN AND DAMPER ARE TO BE INTERLOCKED, PROVIDE A HARDWIRE INTERLOCK TO FIRST ENABLE THE DAMPER WHEN THE FAN IS REQUIRED. FAN MOTOR SHALL BE ENABLED ONLY WHEN THE DAMPER END SWITCH INDICATES THE DAMPER IS IN THE FULLY OPEN POSITION.

L. ZONE SETPOINT REQUIREMENTS: EACH ZONE SHALL HAVE SEPARATE OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINTS. REFER TO ASHRAE GUIDELINE 36 SECTION 5.3.2

M. ZONE TEMPERATURE CONTROLS FOR HEATED AND COOLED SPACES SHALL HAVE A MINIMUM 5°F DEAD BAND AND SETPOINT OVERLAP RESTRICTION.

AC SYSTEM CONTROLS



CONTROL SEQUENCE:

A. THE AC SYSTEM SHALL BE PROVIDED WITH A FACTORY FURNISHED CONTROL SYSTEM WITH LON OR BACNET INTERFACE. CONTROL SYSTEM SHALL INCLUDE SPACE TEMPERATURE, CONDENSING UNIT, INDOOR UNIT AND REFRIGERANT MANIFOLD CONTROLS FOR A COMPLETE AND OPERATING SYSTEM. THE SYSTEM SHALL BE INDEXED FROM THE OCCUPIED TO THE UNOCCUPIED MODES OF OPERATION FROM THE FMS.

B. PROVIDE INTERFACE TO UNITS LON OR BACNET INTERFACE AND INSTALL NECESSARY FIELD DEVICES TO PROPERLY CONTROL AND MONITOR SYSTEM. COORDINATE INSTALLATION AND OTHER REQUIREMENTS WITH THE VRF SYSTEM MANUFACTURER. PARALLEL AVAILABLE ALARMS FROM CONTROL SYSTEM TO FMS.

C. INSTALL AND WIRE COMPONENTS SHIPPED LOOSE WITH THE AC SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
1. SPACE THERMOSTATS.
2. WIRING BETWEEN INTERIOR AC UNITS, AIR COOLED CONDENSING UNIT AND THERMOSTAT.

CONTROL POINTS - VRF SYSTEM

DEVICE TAG	DESCRIPTION	OUTPUTS: DO	DO TYPE	AO	AO TYPE	INPUTS: DI	DI TYPE	AI	ALARMS: DIGITAL: GENERAL	CRITICAL	ANALOG: HIGH LIMIT	LOW LIMIT	GRAPHIC	TREND	REMARKS
AC-1	TYPICAL INDOOR AC UNIT	X	START/STOP			X	STATUS	X	X				X	X	
CU-1	TYPICAL OUTDOOR CONDENSING UNIT	X	START/STOP			X	STATUS		X				X	X	
TS-1	SPACE THERMOSTAT			X	SETPOINT ADJ.			X					X	X	

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MILLIES ENGINEERING GROUP
(317) 914-8400
www.milliesengineeringgroup.com

PROJECT:

BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

BLUE RIVER VALLEY SCHOOLS

4741 VIKING TRAIL
NEW CASTLE, IN 47362

100% SET

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Indianapolis, IN 46268
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Phone 317.580.5777

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DATE
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COORDINATED BY
RC
DRAWN BY
GT
CHECKED BY
DJ

REGISTERED NO. 10302590 STATE OF INDIANA DAVID G. JANNEY PROFESSIONAL ENGINEER

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REVISIONS

MARK	DATE	ISSUED FOR
AD-01	10/22/26	ADDENDUM NO. 1

DRAWING
MECHANICAL DETAILS

PROJECT
BLUE RIVER VALLEY JR-SR HS - INTERIOR RENOVATIONS

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