

ADDENDUM NO. 3

June 30, 2022

Additions and Renovations to Edgewood Intermediate School
7620 E Edgewood Ave.
Indianapolis, IN, 46239

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 May 23, 2022, 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 3 - 1 through ADD 3 - 2, Specification Sections 00 43 50 – Subcontractors and Products List, 01 12 00 Multiple Contract Summary, 01 32 00 Guideline Schedule, and attached Gibraltar Design Addendum No. 3, dated June 30, 2022, consisting of 2 pages and Drawing Sheets: A-410, A-411, A-412, A-413, A-414, A-415, A-417, A-730, A-810, A-811, A-813, A-814, A-820, A-834, A-840, A-852, E-601, ES-102, T-001, T-641, and T-651. Specification Section 05 40 00 Cold Formed Metal Framing, 27 41 26, Audio/Video Systems, 27 51 23, Intercommunication and Clock Systems.

GENERAL NOTE

Below is the link for the Optional Virtual Bid Opening, which Bids are due July 12, at 2:00PM (local time)

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

+1 317-762-3960,24398450# United States, Indianapolis

Phone Conference ID: 243 984 50#

A. SPECIFICATION SECTION 00 43 50 SUBCONTRACTORS AND PRODUCTS LISTS

1. Reissued Specification Section is attached herein.

B. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Reissued Specification Section is attached herein.

C. SPECIFICATION SECTION 01 32 00 SCHEDULES AND REPORTS

1. Project Guideline Schedule is attached herein.

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

- A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.
- B. Owners right to maintain current operations
- C. Occupancy requirements
- D. Work by Owner
- E. Permits, fees, and notices
- F. Labor and materials
- G. Verifications of existing dimensions
- H. Project security
- I. Coordination of work
- J. Time of commencement and completion
- K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

- A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.
- B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the

Work, Contractors shall be responsible for their Work as specified herein and as indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to Contractors using "scaling instruments" to determine material quantities or for other reasons.

- C. Separate prime contracts will be awarded as per the "**Schedule of Contract Responsibilities**" (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.
- D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.
- E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

- A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
 - 1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built into the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
 - 2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
 - 3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.
- B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.

- C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.
- D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

- B. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
 - 1. Owner Occupancy: Allow for Owner occupancy and use by the public.
 - 2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
- C. Use of the Existing Building: Maintain the existing building in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.
- D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.

1.07 OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.
- B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 - 2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 - 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
 - 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

- A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
 - 1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.
 - 2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
 - 3. Existing school maintenance work.
 - 4. The purchase and supplying of certain materials as noted in the Project Manual.
 - 5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure.

1.09 PERMITS, FEES, AND NOTICES

- A. The Construction Manager will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of his Work, which are

applicable at the time the bids are also received. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.

1. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.
- B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.
- C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.
- D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.
- E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

- A. Unless otherwise specifically noted, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.
- B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- C. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

- D. Contractors will conduct criminal background checks (extent of and/or service to be used will be established by the Owner) on every employee assigned to work on the Project and clear them through the National Sex Offender Registry prior to their assignment to Project. Contractors will require the same of sub-contractors.
- E. ID Badges will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project.
- F. E-Verify Compliance: Pursuant to I.C. 22-5-1.7, Contractor shall enroll in and verify the work eligibility status of all newly hired employees of Contractor through the E-Verify Program (Program). Contractor is not required to verify the work eligibility status of all newly hired employees through the Program if the Program no longer exists. Also pursuant to I.C. 22-5-1.7, Contractor must execute an affidavit affirming that the Contractor does not knowingly employ an unauthorized alien and confirming Contractor's enrollment in the Program, unless the Program no longer exists, shall be filed with the Owner prior to the execution of this contract. This contract shall not be deemed fully executed until such affidavit is delivered to the Owner.

Contractor and its subcontractors shall not knowingly employ or contract with an unauthorized alien or retain an employee or contract with a person that contractor or its subcontractor subsequently learns is an unauthorized alien. If Contractor violates this provision the Owner shall require Contractor to remedy the violation not later than thirty (30) days after the Owner notifies Contractor. If Contractor fails to remedy the violation within the thirty (30) day period, the Owner shall terminate the contract for breach of contract. If Owner terminates the contract, Contractor shall be liable to the Owner for actual damages in addition to any other contractual remedies. There is a rebuttable presumption that Contractor did not knowingly employ an unauthorized alien if Contractor verified the work eligibility status of the employee through the Program.

Prior to performing any work, Contractor shall require each subcontractor to certify to Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled in the Program. Contractor shall maintain on file a certification from each subcontractor throughout the duration of this contract or project which is the subject of this contract. If Contractor determines that a subcontractor is in violation of this provision, Contractor may terminate its contract with the subcontractor for such violation. In Accordance with I.C. 5-16-13 Contractor must provide the E-Verify Case Number of every employee that works on the project. This requirement includes the contractor's subs and suppliers to the fourth (4th) tier.

- G. The Owner is requiring that all contractors' personnel and their onsite employees and subcontractors submit to expanded history and child protection index check. Contractors shall enroll in the Safe Vendor Program through Safe Hiring Solutions www.safehiringsolutions.com. Enrollment in Safe Vendor will ensure contractors employees are vetted in accordance with I.C. 20-26-5-10 for expanded criminal history and expanded child protection index check. Contractor is responsible for the cost of enrollment and employee background check. All contractors' personnel and employees, once cleared for work will be issued a project identification badge that must be worn at all times while on site. All contractors/subcontractors employees shall provide name, address, picture state driver's license or picture identification card and/or Safe Vendor Card to The Skillman Corporation Site Manager upon request.
- H. Pursuant to Indiana Code 5-16-13 Requirements for Contractors on Public Works Projects enacted by the Indiana Legislator requires, in addition to requirements already in effect, contractors to comply with the following:
1. Tier 1 –General/Prime Contractors to self-perform 15% of their total Contract.
 2. Qualification thru the Department of Administration or INDOT requirement in accordance with IC 4-13.6-4.
 - a. **Bids shall not be considered unless (1) the Prime Bidder and (2) all lower tiered subcontractors whose subcontract value is estimated to be \$300,000 or more are qualified at the time of the bid in accordance with IC 4 – 13.6 – 4.**
 3. Include Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6 with Bid.
 4. Minimum Insurance Requirements \$1M/occurrence \$2M/aggregate. However, check your bidding requirements as the Owners may have higher limit requirements.
 5. Mandatory enrollment in E-Verify by all contractors down to the 4th Tier Sub Contracts and must provide the case verification number of all employees working on the project.
 6. Prohibits contractors down to the 4th Tier Sub Contract from paying employees in cash.
 7. Requirement to retain payroll records for 3 years
 8. All contractors down to the 4th Tier Sub Contract must comply with Fair Labor Act, Indiana's Workers Compensation and Unemployment Compensation Insurance.
 9. Mandatory Training Requirements based upon number of employees.
 10. Failure to comply may result in debarment from public works projects for up to 4 years.

All contractors down to the 4th Tier Sub Contract must maintain general liability insurance in at least the following amounts: Each Occurrence Limit of \$1,000,000 and General Aggregate Limit of \$2,000,000. Other requirements and limits may apply see specification section 00 08 20 Schedule of Insurance Requirements.

1.11 CUTTING AND PATCHING

- A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

- A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

- A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall include not only their own work or property but that of other contractors and the Owner.
- B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

- A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.
- B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.
- C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.
- D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.

- E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.
- F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.
- G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.
- H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

- A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors; provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

- A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
 - 1. It is anticipated that construction will start within **84** calendar days after receipt of bids.
 - 2. Construction shall be complete within **509** consecutive calendar days, or earlier, after Notice to Proceed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

A. PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER

Section	01 32 00	Schedules and Reports
Section	01 45 10	Testing Laboratory Services
Section	01 59 10	Project Office
Section	01 71 50	Final Cleaning

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

Section	01 12 00	Multiple Contract Summary
Section	01 23 00	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 40 00	Quality Requirements
Section	01 45 10	Testing Laboratory Services (Paragraph 1.05)
Section	01 50 50	Temporary Facilities and Controls
Section	01 54 60	Environment Protection
Section	01 54 80	Utility Protection
Section	01 56 30	Water Control
Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 10	Cutting and Patching
Section	01 77 00	Contract Closeout

All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.

All contractors shall subscribe to PlanGrid for use on this project. Number of users is up to the contractor, however, at a minimum your site personnel will be required to use this product to facilitate communication. PlanGrid will be used for the current construction documentation to include, current set, addenda, ASI, As Built Conditions, QA/QC, and Punch List. Visit the www.PlanGrid.com to determine subscription pricing. It is recommended that you have an office administrator to assist your field personnel. PlanGrid is a tool for the construction phase and will not be used for bidding. Visit www.skillmanplanroom.com for bid documents

C. **PROVIDED BY DESIGNATED CONTRACTORS**

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering

3.03 BID CATEGORIES

A. **BID CATEGORY NO. 1 – GENERAL TRADES**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering
Section	02 41 30	Minor Demolition for Remodeling
Section	03 30 00	Concrete
Section	06 10 00	Rough Carpentry
Section	06 20 00	Finish Carpentry
Section	06 61 16	Solid Surfacing Fabrications
Section	07 21 13	Board Insulation
Section	07 90 00	Joint Sealants
Section	07 95 00	Expansion Joint Systems
Section	08 11 13	Standard Steel Doors and Frames
Section	08 14 16	Wood Doors
Section	08 31 13	Access Doors
Section	08 33 00	Rolling Doors
Section	08 71 00	Door Hardware

Section	08 91 00	Aluminum Wall Louvers and Penthouses
Section	09 64 29	Wood Flooring
Section	09 67 23	Resinous Flooring
Section	09 91 00	Painting
Section	10 11 00	Markerboards and Corkboards
Section	10 12 00	Display Cases
Section	10 14 00	Signage
Section	10 21 14	Solid Plastic Toilet Partitions
Section	10 26 00	Wall Protection
Section	10 28 13	Toilet Accessories
Section	10 44 00	Fire Extinguishers
Section	10 51 13	Metal Lockers
Section	10 51 14	Ventilated Lockers
Section	11 52 13	Power Operated Projection Screen
Section	11 52 14	Projection Screens
Section	11 66 23	Athletic Equipment
Section	11 66 43	Scoreboards
Section	12 32 16	Plastic Laminate Casework
Section	12 66 00	Folding Bleachers
Section	31 10 00	Site Clearing
Section	31 20 00	Earthwork
Section	31 25 13	Soil Erosion Control
Section	31 31 16	Termite Control
Section	32 11 16	Granular Base Course
Section	32 12 16	Asphaltic Concrete Paving
Section	32 13 13	Portland Cement Concrete Paving
Section	32 13 80	Exterior Concrete and Site Equipment
Section	32 17 23	Roadway and Paving Marking
Section	32 31 13	Chain Link Fences and Gates
Section	32 91 13	Soil Preparation
Section	32 92 19	Seeding
Section	32 93 00	Trees, Shrubs, and Ground Cover
Section	33 11 00	Water Distribution Systems
Section	33 11 50	Exterior Water Lines, Fire Lines, and Facilities
Section	33 13 00	Disinfection of Water Distribution System
Section	33 18 00	Water Quality Treatment
Section	33 30 00	Sanitary Sewage Systems
Section	33 40 00	Storm Sewage Systems
Section	33 46 00	Subdrainage Systems

Project Specific Clarifications:

1. Provide field engineering and layout for your own work.
2. Provide temporary sanitary facilities for entire project duration.
3. Provide traffic control measures when required for completion of your work.
4. Provide road cleaning/sweeping while performing work on site.
5. Provide new foundation backfill, drainage course under slab on grade, aggregate sub-base for curbs and walks, and aggregate sub-base for asphalt paving.

6. Provide dumpsters and rubbish containers for duration of project. Bid Category No. 3, 4 and 6 to provide rubbish containers for their own work.
7. Provide all selective site, architectural and structural demolition. Bid Category No. 4, 8, 9 and 10 to provide selective demolition for their divisions of work.
8. Provide and maintain concrete washout pit/dumpster for all concrete spoils.
9. Furnish aluminum door hardware to Bid Category No. 5 for installation.
10. Provide all wood blocking. Bid Category No. 4 to provide blocking and sheathing within roof system.
11. Provide all foundation insulation.
12. Provide all joint sealants. Bid Category No. 5 to provide sealants for their scope of work. Bid Category No. 6 to provide any required gypsum board acoustical sealant.
13. Provide all permanent traffic signage identified on civil drawings.
14. Ensure that all exterior school doors and/or temporary doors are secure at the end of each workday for the entire project duration.
15. Expansion joints within the roof system to be provided by Bid Category No. 4.
16. Include 200 laborer hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
17. Include 100 painter hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
18. Provide all site demolition as noted on Site Demolition Plan. Include removal of demolished items from jobsite.
19. Provide placement of all topsoil as required.
20. Reference specification section 01 55 00 for access road stone placement and removal requirement.
21. Include all work associated with replacement of vertical control joints sealant in existing brick as indicated on exterior elevation sheets.

C. **BID CATEGORY NO. 2 – STRUCTURAL STEEL**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 53 30	Barricades
Section	05 12 00	Structural Steel
Section	05 21 00	Steel Joist
Section	05 31 00	Steel Roof Deck
Section	05 50 00	Miscellaneous Metals
Section	05 50 10	Embedded Structural Anchor Bolts
Section	05 52 16	Aluminum Railings

Project Specific Clarifications:

1. Any cleaning or de-mucking of column footings prior to column installation shall be the responsibility of this bid category.

D. BID CATEGORY NO. 3 – MASONRY

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	04 20 00	Unit Masonry
Section	07 21 27	Enclosed Cavity Foamed Insulation

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Provide all rigid insulation and air/weather barrier at exterior masonry walls. Bid Category No. 6 to provide all rigid insulation and air/weather barrier at exterior EIFS walls.

E. BID CATEGORY NO. 4 – ROOFING

General requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	02 41 30	Minor Demolition for Remodeling
Section	06 10 53	Rough Carpentry
Section	07 31 00	Shingle Roofing
Section	07 53 24	Roof Insulation and Membrane Roofing – TPO
Section	07 62 00	Sheet Metal Flashing
Section	07 71 19	Aluminum Fascias, Copings, Gutters, & Downspouts
Section	07 95 00	Expansion Joints

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Provide selective demolition for this divisions work.
3. Provide all blocking and sheathing within roof system. (Including Insulated Parapet Sheathing)
4. Provide temporary weather protection to maintain water-tight condition for the existing building roof.
5. Provide expansion joints within the roof system.

F. BID CATEGORY NO. 5 – ALUMINUM ENTRANCES & STOREFRONT

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	07 21 19	Foamed-In-Place Insulation
Section	07 90 00	Joint Sealants
Section	07 84 00	Firestopping
Section	08 41 00	Aluminum Entrances and Storefronts
Section	08 51 13	Aluminum Windows
Section	08 71 00	Door Hardware
Section	08 81 00	Glazing

Project Specific Clarifications:

1. Bid Category No. 1 to furnish aluminum door hardware to this category for installation.
2. Provide foamed-in-place insulation around all exterior windows.
3. Include access control/electrified door hardware wiring internal to aluminum doors and frames, to accessible ceiling.
4. Provide joint sealants (interior & exterior) for this categories scope of work.
5. Provide through-penetration firestopping for this categories scope of work.
6. all work associated with replacement of perimeter joints sealant at existing windows as indicated on exterior elevation sheets.

G. BID CATEGORY NO. 6 – METAL FRAMING, DRYWALL & CEILINGS

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	05 40 00	Cold Formed Metal Framing
Section	07 21 16	Batt and Blanket Insulation
Section	07 21 19	Foamed-In-Place Insulation
Section	07 21 27	Enclosed Cavity Foamed Insulation
Section	07 24 00	Exterior Insulation and Finish System (EIFS)
Section	07 84 00	Firestopping
Section	09 22 13	Metal Framing and Furring
Section	09 29 00	Gypsum Board
Section	09 51 00	Acoustical Ceilings
Section	09 84 00	Acoustical Wall Panels

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Include 100 carpenter hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
3. Provide all rigid insulation and air/weather barrier at exterior EIFS walls. Bid Category No. 3 to provide all rigid insulation and air/weather barrier at exterior masonry walls.
4. Provide any required gypsum board acoustical sealant.
5. Provide foamed-in-place insulation at junctions of wall and roof materials and all miscellaneous voids in construction as described in specification section 07 21 19 Foamed-In-Place Insulation. Bid Category 5 to provide foamed-in-place insulation around all exterior windows.
6. Bid Category No. 5, 8, 9 and 10 to provide through-penetration firestopping for their own work.
7. Provide all work required for patching of existing materials indicated and related to this bid categories scope of work.

H. BID CATEGORY NO. 7 – FLOORCOVERING

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	09 31 00	Ceramic Tile
Section	09 65 13	Resilient Flooring
Section	09 68 00	Carpet

Project Specific Clarifications:

1. Include 80 hours of additional floor preparation above requirements noted in drawings and specifications to be used at the discretion of the Construction Manager.

I. BID CATEGORY NO. 8 – FIRE PROTECTION

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	21 05 00	General Fire Suppression Requirements
Section	21 05 29	Supports and Anchors
Section	21 12 23	Fire Protection Valves
Section	21 23 00	Wet-Pipe Sprinkler Systems
Section	21 23 01	Fire Protection Piping

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide selective demolition and re-work of fire protection system in existing areas to accommodate new layouts. Provide cutting and capping of existing system to separate it from portions of building to be demolished, while maintaining a functioning system in the building to remain.
3. Provide through-penetration firestopping for this categories scope of work.

J. BID CATEGORY NO. 9 – PLUMBING & HVAC

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	22 05 00	General Plumbing Requirements
Section	22 05 13	Motors
Section	22 05 16	Expansion Compensation
Section	22 05 19	Meters and Gauges
Section	22 05 23	Valves
Section	22 05 29	Supports and Anchors
Section	22 05 53	Plumbing Identification
Section	22 07 00	Piping Insulation
Section	22 10 00	Plumbing Piping
Section	22 11 00	Plumbing Specialties

Section	22 11 16	Pipe and Pipe Fittings
Section	22 11 19	Piping Specialties
Section	22 30 00	Plumbing Equipment
Section	22 40 00	Plumbing Fixtures
Section	23 05 00	General HVAC Requirements
Section	23 05 13	Motors
Section	23 05 14	Variable Frequency Drives
Section	23 05 19	Meters and Gauges
Section	23 05 23	Valves
Section	23 05 29	Supports and Anchors
Section	23 05 33	Electric Heat Tracing
Section	23 05 49	Vibration Isolation
Section	23 05 53	Mechanical Identification
Section	23 05 93	Testing, Adjusting & Balancing
Section	23 07 01	Ductwork Insulation
Section	23 07 02	Piping Insulation
Section	23 08 00	Functional Performance Testing of HVAC Systems
Section	23 09 13	Automatic Temperature Control Systems
Section	23 09 63	Instrument Devices
Section	23 09 93	Sequence of Operation
Section	23 11 19	Piping Specialties
Section	23 11 23	Natural Gas Systems
Section	23 20 00	HVAC Pumps
Section	23 21 13	Hydronic Piping
Section	23 21 23	Hydronic Specialties
Section	23 23 00	Refrigeration Piping and Specialties
Section	23 25 13	Chemical (Water) Treatment Systems
Section	23 31 00	Ductwork
Section	23 31 16	Fabric Duct Systems
Section	23 33 00	Ductwork Accessories
Section	23 33 53	Duct Liner
Section	23 34 23	Power Ventilators
Section	23 37 00	Relief Vents
Section	23 37 01	Air Outlets and Inlets
Section	23 41 15	Disposable Air Filters
Section	23 51 01	Breechings, Chimneys, and Stacks
Section	23 52 16	Condensing Gas Fired Boilers
Section	23 64 25	Air Cooled Water Chillers
Section	23 73 00	Packaged Air Handling Units with Coils
Section	23 81 15	Air Terminal Units
Section	23 81 26	Split Air Conditioning Units
Section	23 81 50	Terminal Heat Transfer Units
Section	23 82 16	Air Coils
Section	23 82 41	Electric Space Heating Units
Section	31 20 00	Earthwork

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide selective demolition for this divisions work. Include removal of demolished items from jobsite.
3. All spoils generated from underground excavation shall be taken to designated area on site. Provide backfill as required.
4. Provide through-penetration firestopping for this categories scope of work.

K. BID CATEGORY NO. 10 – ELECTRICAL & TECHNOLOGY

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 72 00	Field Engineering
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	26 05 00	Basic Electrical Requirements
Section	26 05 01	Electrical Demolition for Remodeling
Section	26 05 02	Equipment Wiring Systems
Section	26 05 19	Wires and Cables – 600 Volts and Less
Section	26 05 26	Grounding & Bonding
Section	26 05 29	Supporting Devices
Section	26 05 34	Boxes
Section	26 05 30	Conduits
Section	26 05 43	Handholes
Section	26 05 44	Ductbank
Section	26 05 53	Electrical Identification
Section	26 09 24	Room Occupancy Sensors
Section	26 09 27	Relays
Section	26 09 36	Dimmers
Section	26 22 13	Transformers
Section	26 24 16	Panelboards
Section	26 27 13	Electricity Metering and Incoming Electrical Service
Section	26 27 26	Wiring Devices
Section	26 28 13	Low Voltage Cartridge Fuses – 600 Volts and Less
Section	26 29 13	Disconnect and Safety Switches
Section	26 29 15	Motor Starters
Section	26 43 13	Surge Protective Devices (SPDS) – 1 KV or Less
Section	26 51 00	LED Lighting Fixtures and Accessories
Section	26 56 29	Site Lighting
Section	27 00 01	General Requirements for Communications
Section	27 00 02	Quality Assurance for Communications
Section	27 00 04	Existing Conditions and Demolition
Section	27 05 00	Communication Systems Electrical Requirements
Section	27 05 01	Operation & Maintenance of Communications Systems
Section	27 05 02	Basic Materials and Methods for Communications
Section	27 05 26	Grounding & Bonding for Communications Systems

Section	27 05 28	Pathways for Communications Systems
Section	27 05 43	Underground Ducts and Raceways for Communications Systems
Section	27 05 50	Firestopping for Communications Systems
Section	27 05 53	Identification for Communications Systems
Section	27 08 10	Verification Testing of Structured Cabling
Section	27 11 11	Communications Room Wall Linings
Section	27 11 16	Communication Cabinets, Racks, Frames, & Enclosures
Section	27 11 23	Communication Cable Management & Ladder Rack
Section	27 11 26	Communications Rack Mounted Power Protection & Power Strips
Section	27 13 13	Communications Copper Backbone Cabling
Section	27 13 23	Communications Fiber Optic Backbone Cabling
Section	27 16 00	Communications Connecting Cords, Devices, & Adapters
Section	27 41 16	Integrated Sound Reinforcement Systems
Section	27 41 26	Video Systems
Section	27 51 23	Intercommunication & Clock Systems
Section	28 00 01	General Requirements for Safety and Security
Section	28 00 02	Quality Assurance for Safety and Security
Section	28 05 00	Electronic Safety and Security Systems Electrical Requirements
Section	28 05 01	Basic Electronic Safety and Security Systems Requirements
Section	28 05 02	Basic Materials and Methods for Safety and Security
Section	28 13 01	Access Control and Intrusion Detection System
Section	28 13 02	IP Video Surveillance Systems
Section	28 31 01	Fire Alarm Systems
Section	31 20 00	Earthwork

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide field engineering and layout for your own work.
3. Provide selective demolition for this divisions work. Include removal of demolished items from jobsite.
4. All spoils generated from underground excavation shall be taken to designated area on site. Provide backfill as required.
5. Provide through-penetration firestopping for this categories scope of work.
6. Provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in Alternate NO. 7 as part of the base bid.
7. Provide pricing to furnish and install Fixture Types L-1, L-1E, L-2, L-2E, L-3, L-3E, L-4, L-4E, L-5, L-5E, X-1E, X-2E, and X-3 per the manufacturers specified on Drawing E-601 for Bid Alternate No. 7.

- L. **BID CATEGORY NO. 11 – LIGHTING**
General Requirements in Paragraph 3.02.B above.
Section 26 51 00 LED Lighting Fixtures and Accessories

Project Specific Clarifications:

1. There is NO BASE BID WORK for Bid Category 11; Bid Category No. 11 shall be bid via Bid Alternate No. 7 ONLY.
2. Bid Category No. 11 is the equivalent of Bid Alternate No. 7 using Energy Harness fixtures. Energy Harness shall furnish and install fixture types L-1, L-1E, L-2, L-2E, L-3, L-3E, L-4, L-4E, L-5, L-5E, X-1E, X-2E, and X-3. Work shall include supporting fixtures to the structure and final terminations. Match the fixture counts indicated in the bid documents and lumen output to provide the lighting levels in each type of room.
3. Bid Category No. 10 Contractor shall provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in the bid documents.

END OF SECTION 01 12 00

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

- A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.
- B. Owners right to maintain current operations
- C. Occupancy requirements
- D. Work by Owner
- E. Permits, fees, and notices
- F. Labor and materials
- G. Verifications of existing dimensions
- H. Project security
- I. Coordination of work
- J. Time of commencement and completion
- K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

- A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.
- B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the

Work, Contractors shall be responsible for their Work as specified herein and as indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to Contractors using "scaling instruments" to determine material quantities or for other reasons.

- C. Separate prime contracts will be awarded as per the "**Schedule of Contract Responsibilities**" (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.
- D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.
- E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

- A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
 - 1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built into the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
 - 2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
 - 3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.
- B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.

- C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.
- D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

- B. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
 - 1. Owner Occupancy: Allow for Owner occupancy and use by the public.
 - 2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
- C. Use of the Existing Building: Maintain the existing building in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.
- D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.

1.07 OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.
- B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 - 2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 - 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
 - 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

- A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
 - 1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.
 - 2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
 - 3. Existing school maintenance work.
 - 4. The purchase and supplying of certain materials as noted in the Project Manual.
 - 5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure.

1.09 PERMITS, FEES, AND NOTICES

- A. The Construction Manager will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of his Work, which are

applicable at the time the bids are also received. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.

1. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.
- B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.
- C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.
- D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.
- E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

- A. Unless otherwise specifically noted, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.
- B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- C. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

- D. Contractors will conduct criminal background checks (extent of and/or service to be used will be established by the Owner) on every employee assigned to work on the Project and clear them through the National Sex Offender Registry prior to their assignment to Project. Contractors will require the same of sub-contractors.
- E. ID Badges will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project.
- F. E-Verify Compliance: Pursuant to I.C. 22-5-1.7, Contractor shall enroll in and verify the work eligibility status of all newly hired employees of Contractor through the E-Verify Program (Program). Contractor is not required to verify the work eligibility status of all newly hired employees through the Program if the Program no longer exists. Also pursuant to I.C. 22-5-1.7, Contractor must execute an affidavit affirming that the Contractor does not knowingly employ an unauthorized alien and confirming Contractor's enrollment in the Program, unless the Program no longer exists, shall be filed with the Owner prior to the execution of this contract. This contract shall not be deemed fully executed until such affidavit is delivered to the Owner.

Contractor and its subcontractors shall not knowingly employ or contract with an unauthorized alien or retain an employee or contract with a person that contractor or its subcontractor subsequently learns is an unauthorized alien. If Contractor violates this provision the Owner shall require Contractor to remedy the violation not later than thirty (30) days after the Owner notifies Contractor. If Contractor fails to remedy the violation within the thirty (30) day period, the Owner shall terminate the contract for breach of contract. If Owner terminates the contract, Contractor shall be liable to the Owner for actual damages in addition to any other contractual remedies. There is a rebuttable presumption that Contractor did not knowingly employ an unauthorized alien if Contractor verified the work eligibility status of the employee through the Program.

Prior to performing any work, Contractor shall require each subcontractor to certify to Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled in the Program. Contractor shall maintain on file a certification from each subcontractor throughout the duration of this contract or project which is the subject of this contract. If Contractor determines that a subcontractor is in violation of this provision, Contractor may terminate its contract with the subcontractor for such violation. In Accordance with I.C. 5-16-13 Contractor must provide the E-Verify Case Number of every employee that works on the project. This requirement includes the contractor's subs and suppliers to the fourth (4th) tier.

- G. The Owner is requiring that all contractors' personnel and their onsite employees and subcontractors submit to expanded history and child protection index check. Contractors shall enroll in the Safe Vendor Program through Safe Hiring Solutions www.safehiringsolutions.com. Enrollment in Safe Vendor will ensure contractors employees are vetted in accordance with I.C. 20-26-5-10 for expanded criminal history and expanded child protection index check. Contractor is responsible for the cost of enrollment and employee background check. All contractors' personnel and employees, once cleared for work will be issued a project identification badge that must be worn at all times while on site. All contractors/subcontractors employees shall provide name, address, picture state driver's license or picture identification card and/or Safe Vendor Card to The Skillman Corporation Site Manager upon request.
- H. Pursuant to Indiana Code 5-16-13 Requirements for Contractors on Public Works Projects enacted by the Indiana Legislator requires, in addition to requirements already in effect, contractors to comply with the following:
1. Tier 1 –General/Prime Contractors to self-perform 15% of their total Contract.
 2. Qualification thru the Department of Administration or INDOT requirement in accordance with IC 4-13.6-4.
 - a. **Bids shall not be considered unless (1) the Prime Bidder and (2) all lower tiered subcontractors whose subcontract value is estimated to be \$300,000 or more are qualified at the time of the bid in accordance with IC 4 – 13.6 – 4.**
 3. Include Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6 with Bid.
 4. Minimum Insurance Requirements \$1M/occurrence \$2M/aggregate. However, check your bidding requirements as the Owners may have higher limit requirements.
 5. Mandatory enrollment in E-Verify by all contractors down to the 4th Tier Sub Contracts and must provide the case verification number of all employees working on the project.
 6. Prohibits contractors down to the 4th Tier Sub Contract from paying employees in cash.
 7. Requirement to retain payroll records for 3 years
 8. All contractors down to the 4th Tier Sub Contract must comply with Fair Labor Act, Indiana's Workers Compensation and Unemployment Compensation Insurance.
 9. Mandatory Training Requirements based upon number of employees.
 10. Failure to comply may result in debarment from public works projects for up to 4 years.

All contractors down to the 4th Tier Sub Contract must maintain general liability insurance in at least the following amounts: Each Occurrence Limit of \$1,000,000 and General Aggregate Limit of \$2,000,000. Other requirements and limits may apply see specification section 00 08 20 Schedule of Insurance Requirements.

1.11 CUTTING AND PATCHING

- A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

- A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

- A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall include not only their own work or property but that of other contractors and the Owner.
- B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

- A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.
- B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.
- C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.
- D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.

- E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.
- F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.
- G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.
- H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

- A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors; provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

- A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
 - 1. It is anticipated that construction will start within **84** calendar days after receipt of bids.
 - 2. Construction shall be complete within **509** consecutive calendar days, or earlier, after Notice to Proceed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

A. PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER

Section	01 32 00	Schedules and Reports
Section	01 45 10	Testing Laboratory Services
Section	01 59 10	Project Office
Section	01 71 50	Final Cleaning

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

Section	01 12 00	Multiple Contract Summary
Section	01 23 00	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 40 00	Quality Requirements
Section	01 45 10	Testing Laboratory Services (Paragraph 1.05)
Section	01 50 50	Temporary Facilities and Controls
Section	01 54 60	Environment Protection
Section	01 54 80	Utility Protection
Section	01 56 30	Water Control
Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 10	Cutting and Patching
Section	01 77 00	Contract Closeout

All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.

All contractors shall subscribe to PlanGrid for use on this project. Number of users is up to the contractor, however, at a minimum your site personnel will be required to use this product to facilitate communication. PlanGrid will be used for the current construction documentation to include, current set, addenda, ASI, As Built Conditions, QA/QC, and Punch List. Visit the www.PlanGrid.com to determine subscription pricing. It is recommended that you have an office administrator to assist your field personnel. PlanGrid is a tool for the construction phase and will not be used for bidding. Visit www.skillmanplanroom.com for bid documents

C. **PROVIDED BY DESIGNATED CONTRACTORS**

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering

3.03 BID CATEGORIES

A. **BID CATEGORY NO. 1 – GENERAL TRADES**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering
Section	02 41 30	Minor Demolition for Remodeling
Section	03 30 00	Concrete
Section	06 10 00	Rough Carpentry
Section	06 20 00	Finish Carpentry
Section	06 61 16	Solid Surfacing Fabrications
Section	07 21 13	Board Insulation
Section	07 90 00	Joint Sealants
Section	07 95 00	Expansion Joint Systems
Section	08 11 13	Standard Steel Doors and Frames
Section	08 14 16	Wood Doors
Section	08 31 13	Access Doors
Section	08 33 00	Rolling Doors
Section	08 71 00	Door Hardware

Section	08 91 00	Aluminum Wall Louvers and Penthouses
Section	09 64 29	Wood Flooring
Section	09 67 23	Resinous Flooring
Section	09 91 00	Painting
Section	10 11 00	Markerboards and Corkboards
Section	10 12 00	Display Cases
Section	10 14 00	Signage
Section	10 21 14	Solid Plastic Toilet Partitions
Section	10 26 00	Wall Protection
Section	10 28 13	Toilet Accessories
Section	10 44 00	Fire Extinguishers
Section	10 51 13	Metal Lockers
Section	10 51 14	Ventilated Lockers
Section	11 52 13	Power Operated Projection Screen
Section	11 52 14	Projection Screens
Section	11 66 23	Athletic Equipment
Section	11 66 43	Scoreboards
Section	12 32 16	Plastic Laminate Casework
Section	12 66 00	Folding Bleachers
Section	31 10 00	Site Clearing
Section	31 20 00	Earthwork
Section	31 25 13	Soil Erosion Control
Section	31 31 16	Termite Control
Section	32 11 16	Granular Base Course
Section	32 12 16	Asphaltic Concrete Paving
Section	32 13 13	Portland Cement Concrete Paving
Section	32 13 80	Exterior Concrete and Site Equipment
Section	32 17 23	Roadway and Paving Marking
Section	32 31 13	Chain Link Fences and Gates
Section	32 91 13	Soil Preparation
Section	32 92 19	Seeding
Section	32 93 00	Trees, Shrubs, and Ground Cover
Section	33 11 00	Water Distribution Systems
Section	33 11 50	Exterior Water Lines, Fire Lines, and Facilities
Section	33 13 00	Disinfection of Water Distribution System
Section	33 18 00	Water Quality Treatment
Section	33 30 00	Sanitary Sewage Systems
Section	33 40 00	Storm Sewage Systems
Section	33 46 00	Subdrainage Systems

Project Specific Clarifications:

1. Provide field engineering and layout for your own work.
2. Provide temporary sanitary facilities for entire project duration.
3. Provide traffic control measures when required for completion of your work.
4. Provide road cleaning/sweeping while performing work on site.
5. Provide new foundation backfill, drainage course under slab on grade, aggregate sub-base for curbs and walks, and aggregate sub-base for asphalt paving.

6. Provide dumpsters and rubbish containers for duration of project. Bid Category No. 3, 4 and 6 to provide rubbish containers for their own work.
7. Provide all selective site, architectural and structural demolition. Bid Category No. 4, 8, 9 and 10 to provide selective demolition for their divisions of work.
8. Provide and maintain concrete washout pit/dumpster for all concrete spoils.
9. Furnish aluminum door hardware to Bid Category No. 5 for installation.
10. Provide all wood blocking. Bid Category No. 4 to provide blocking and sheathing within roof system.
11. Provide all foundation insulation.
12. Provide all joint sealants. Bid Category No. 5 to provide sealants for their scope of work. Bid Category No. 6 to provide any required gypsum board acoustical sealant.
13. Provide all permanent traffic signage identified on civil drawings.
14. Ensure that all exterior school doors and/or temporary doors are secure at the end of each workday for the entire project duration.
15. Expansion joints within the roof system to be provided by Bid Category No. 4.
16. Include 200 laborer hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
17. Include 100 painter hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
18. Provide all site demolition as noted on Site Demolition Plan. Include removal of demolished items from jobsite.
19. Provide placement of all topsoil as required.
20. Reference specification section 01 55 00 for access road stone placement and removal requirement.
21. Include all work associated with replacement of vertical control joints sealant in existing brick as indicated on exterior elevation sheets.

C. **BID CATEGORY NO. 2 – STRUCTURAL STEEL**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 53 30	Barricades
Section	05 12 00	Structural Steel
Section	05 21 00	Steel Joist
Section	05 31 00	Steel Roof Deck
Section	05 50 00	Miscellaneous Metals
Section	05 50 10	Embedded Structural Anchor Bolts
Section	05 52 16	Aluminum Railings

Project Specific Clarifications:

1. Any cleaning or de-mucking of column footings prior to column installation shall be the responsibility of this bid category.

D. BID CATEGORY NO. 3 – MASONRY

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	04 20 00	Unit Masonry
Section	07 21 27	Enclosed Cavity Foamed Insulation

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Provide all rigid insulation and air/weather barrier at exterior masonry walls. Bid Category No. 6 to provide all rigid insulation and air/weather barrier at exterior EIFS walls.

E. BID CATEGORY NO. 4 – ROOFING

General requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	02 41 30	Minor Demolition for Remodeling
Section	06 10 53	Rough Carpentry
Section	07 31 00	Shingle Roofing
Section	07 53 24	Roof Insulation and Membrane Roofing – TPO
Section	07 62 00	Sheet Metal Flashing
Section	07 71 19	Aluminum Fascias, Copings, Gutters, & Downspouts
Section	07 95 00	Expansion Joints

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Provide selective demolition for this divisions work.
3. Provide all blocking and sheathing within roof system. (Including Insulated Parapet Sheathing)
4. Provide temporary weather protection to maintain water-tight condition for the existing building roof.
5. Provide expansion joints within the roof system.

F. BID CATEGORY NO. 5 – ALUMINUM ENTRANCES & STOREFRONT

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	07 21 19	Foamed-In-Place Insulation
Section	07 90 00	Joint Sealants
Section	07 84 00	Firestopping
Section	08 41 00	Aluminum Entrances and Storefronts
Section	08 51 13	Aluminum Windows
Section	08 71 00	Door Hardware
Section	08 81 00	Glazing

Project Specific Clarifications:

1. Bid Category No. 1 to furnish aluminum door hardware to this category for installation.
2. Provide foamed-in-place insulation around all exterior windows.
3. Include access control/electrified door hardware wiring internal to aluminum doors and frames, to accessible ceiling.
4. Provide joint sealants (interior & exterior) for this categories scope of work.
5. Provide through-penetration firestopping for this categories scope of work.
6. all work associated with replacement of perimeter joints sealant at existing windows as indicated on exterior elevation sheets.

G. **BID CATEGORY NO. 6 – METAL FRAMING, DRYWALL & CEILINGS**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 60	Rubbish Container
Section	05 40 00	Cold Formed Metal Framing
Section	07 21 16	Batt and Blanket Insulation
Section	07 21 19	Foamed-In-Place Insulation
Section	07 21 27	Enclosed Cavity Foamed Insulation
Section	07 24 00	Exterior Insulation and Finish System (EIFS)
Section	07 84 00	Firestopping
Section	09 22 13	Metal Framing and Furring
Section	09 29 00	Gypsum Board
Section	09 51 00	Acoustical Ceilings
Section	09 84 00	Acoustical Wall Panels

Project Specific Clarifications:

1. Provide dumpsters and rubbish containers for your own work.
2. Include 100 carpenter hours for use at the discretion of the Construction Manager. Laborer hours used must be tracked with work tickets signed daily by Skillman Site Manager as documentation and included as backup documentation with monthly application for payments.
3. Provide all rigid insulation and air/weather barrier at exterior EIFS walls. Bid Category No. 3 to provide all rigid insulation and air/weather barrier at exterior masonry walls.
4. Provide any required gypsum board acoustical sealant.
5. Provide foamed-in-place insulation at junctions of wall and roof materials and all miscellaneous voids in construction as described in specification section 07 21 19 Foamed-In-Place Insulation. Bid Category 5 to provide foamed-in-place insulation around all exterior windows.
6. Bid Category No. 5, 8, 9 and 10 to provide through-penetration firestopping for their own work.
7. Provide all work required for patching of existing materials indicated and related to this bid categories scope of work.

H. BID CATEGORY NO. 7 – FLOORCOVERING

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	09 31 00	Ceramic Tile
Section	09 65 13	Resilient Flooring
Section	09 68 00	Carpet

Project Specific Clarifications:

1. Include 80 hours of additional floor preparation above requirements noted in drawings and specifications to be used at the discretion of the Construction Manager.

I. BID CATEGORY NO. 8 – FIRE PROTECTION

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	21 05 00	General Fire Suppression Requirements
Section	21 05 29	Supports and Anchors
Section	21 12 23	Fire Protection Valves
Section	21 23 00	Wet-Pipe Sprinkler Systems
Section	21 23 01	Fire Protection Piping

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide selective demolition and re-work of fire protection system in existing areas to accommodate new layouts. Provide cutting and capping of existing system to separate it from portions of building to be demolished, while maintaining a functioning system in the building to remain.
3. Provide through-penetration firestopping for this categories scope of work.

J. BID CATEGORY NO. 9 – PLUMBING & HVAC

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	22 05 00	General Plumbing Requirements
Section	22 05 13	Motors
Section	22 05 16	Expansion Compensation
Section	22 05 19	Meters and Gauges
Section	22 05 23	Valves
Section	22 05 29	Supports and Anchors
Section	22 05 53	Plumbing Identification
Section	22 07 00	Piping Insulation
Section	22 10 00	Plumbing Piping
Section	22 11 00	Plumbing Specialties

Section	22 11 16	Pipe and Pipe Fittings
Section	22 11 19	Piping Specialties
Section	22 30 00	Plumbing Equipment
Section	22 40 00	Plumbing Fixtures
Section	23 05 00	General HVAC Requirements
Section	23 05 13	Motors
Section	23 05 14	Variable Frequency Drives
Section	23 05 19	Meters and Gauges
Section	23 05 23	Valves
Section	23 05 29	Supports and Anchors
Section	23 05 33	Electric Heat Tracing
Section	23 05 49	Vibration Isolation
Section	23 05 53	Mechanical Identification
Section	23 05 93	Testing, Adjusting & Balancing
Section	23 07 01	Ductwork Insulation
Section	23 07 02	Piping Insulation
Section	23 08 00	Functional Performance Testing of HVAC Systems
Section	23 09 13	Automatic Temperature Control Systems
Section	23 09 63	Instrument Devices
Section	23 09 93	Sequence of Operation
Section	23 11 19	Piping Specialties
Section	23 11 23	Natural Gas Systems
Section	23 20 00	HVAC Pumps
Section	23 21 13	Hydronic Piping
Section	23 21 23	Hydronic Specialties
Section	23 23 00	Refrigeration Piping and Specialties
Section	23 25 13	Chemical (Water) Treatment Systems
Section	23 31 00	Ductwork
Section	23 31 16	Fabric Duct Systems
Section	23 33 00	Ductwork Accessories
Section	23 33 53	Duct Liner
Section	23 34 23	Power Ventilators
Section	23 37 00	Relief Vents
Section	23 37 01	Air Outlets and Inlets
Section	23 41 15	Disposable Air Filters
Section	23 51 01	Breechings, Chimneys, and Stacks
Section	23 52 16	Condensing Gas Fired Boilers
Section	23 64 25	Air Cooled Water Chillers
Section	23 73 00	Packaged Air Handling Units with Coils
Section	23 81 15	Air Terminal Units
Section	23 81 26	Split Air Conditioning Units
Section	23 81 50	Terminal Heat Transfer Units
Section	23 82 16	Air Coils
Section	23 82 41	Electric Space Heating Units
Section	31 20 00	Earthwork

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide selective demolition for this divisions work. Include removal of demolished items from jobsite.
3. All spoils generated from underground excavation shall be taken to designated area on site. Provide backfill as required.
4. Provide through-penetration firestopping for this categories scope of work.

K. BID CATEGORY NO. 10 – ELECTRICAL & TECHNOLOGY

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 72 00	Field Engineering
Section	02 41 30	Minor Demolition for Remodeling
Section	07 84 00	Firestopping
Section	26 05 00	Basic Electrical Requirements
Section	26 05 01	Electrical Demolition for Remodeling
Section	26 05 02	Equipment Wiring Systems
Section	26 05 19	Wires and Cables – 600 Volts and Less
Section	26 05 26	Grounding & Bonding
Section	26 05 29	Supporting Devices
Section	26 05 34	Boxes
Section	26 05 30	Conduits
Section	26 05 43	Handholes
Section	26 05 44	Ductbank
Section	26 05 53	Electrical Identification
Section	26 09 24	Room Occupancy Sensors
Section	26 09 27	Relays
Section	26 09 36	Dimmers
Section	26 22 13	Transformers
Section	26 24 16	Panelboards
Section	26 27 13	Electricity Metering and Incoming Electrical Service
Section	26 27 26	Wiring Devices
Section	26 28 13	Low Voltage Cartridge Fuses – 600 Volts and Less
Section	26 29 13	Disconnect and Safety Switches
Section	26 29 15	Motor Starters
Section	26 43 13	Surge Protective Devices (SPDS) – 1 KV or Less
Section	26 51 00	LED Lighting Fixtures and Accessories
Section	26 56 29	Site Lighting
Section	27 00 01	General Requirements for Communications
Section	27 00 02	Quality Assurance for Communications
Section	27 00 04	Existing Conditions and Demolition
Section	27 05 00	Communication Systems Electrical Requirements
Section	27 05 01	Operation & Maintenance of Communications Systems
Section	27 05 02	Basic Materials and Methods for Communications
Section	27 05 26	Grounding & Bonding for Communications Systems

Section	27 05 28	Pathways for Communications Systems
Section	27 05 43	Underground Ducts and Raceways for Communications Systems
Section	27 05 50	Firestopping for Communications Systems
Section	27 05 53	Identification for Communications Systems
Section	27 08 10	Verification Testing of Structured Cabling
Section	27 11 11	Communications Room Wall Linings
Section	27 11 16	Communication Cabinets, Racks, Frames, & Enclosures
Section	27 11 23	Communication Cable Management & Ladder Rack
Section	27 11 26	Communications Rack Mounted Power Protection & Power Strips
Section	27 13 13	Communications Copper Backbone Cabling
Section	27 13 23	Communications Fiber Optic Backbone Cabling
Section	27 16 00	Communications Connecting Cords, Devices, & Adapters
Section	27 41 16	Integrated Sound Reinforcement Systems
Section	27 41 26	Video Systems
Section	27 51 23	Intercommunication & Clock Systems
Section	28 00 01	General Requirements for Safety and Security
Section	28 00 02	Quality Assurance for Safety and Security
Section	28 05 00	Electronic Safety and Security Systems Electrical Requirements
Section	28 05 01	Basic Electronic Safety and Security Systems Requirements
Section	28 05 02	Basic Materials and Methods for Safety and Security
Section	28 13 01	Access Control and Intrusion Detection System
Section	28 13 02	IP Video Surveillance Systems
Section	28 31 01	Fire Alarm Systems
Section	31 20 00	Earthwork

Project Specific Clarifications:

1. Provide housekeeping pads for your own work/equipment.
2. Provide field engineering and layout for your own work.
3. Provide selective demolition for this divisions work. Include removal of demolished items from jobsite.
4. All spoils generated from underground excavation shall be taken to designated area on site. Provide backfill as required.
5. Provide through-penetration firestopping for this categories scope of work.
6. Provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in Alternate NO. 7 as part of the base bid.
7. Provide pricing to furnish and install Fixture Types L-1, L-1E, L-2, L-2E, L-3, L-3E, L-4, L-4E, L-5, L-5E, X-1E, X-2E, and X-3 per the manufacturers specified on Drawing E-601 for Bid Alternate No. 7.

- L. **BID CATEGORY NO. 11 – LIGHTING**
General Requirements in Paragraph 3.02.B above.
Section 26 51 00 LED Lighting Fixtures and Accessories

Project Specific Clarifications:

1. There is NO BASE BID WORK for Bid Category 11; Bid Category No. 11 shall be bid via Bid Alternate No. 7 ONLY.
2. Bid Category No. 11 is the equivalent of Bid Alternate No. 7 using Energy Harness fixtures. Energy Harness shall furnish and install fixture types L-1, L-1E, L-2, L-2E, L-3, L-3E, L-4, L-4E, L-5, L-5E, X-1E, X-2E, and X-3. Work shall include supporting fixtures to the structure and final terminations. Match the fixture counts indicated in the bid documents and lumen output to provide the lighting levels in each type of room.
3. Bid Category No. 10 Contractor shall provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in the bid documents.

END OF SECTION 01 12 00

Guideline Schedule - Franklin Township Edgewood Intermediate School Additions & Renovations

ACTIVITY	2022					2023												2024					
	July				A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
	3	10	17	24																			
Preconstruction Phase																							
Bid Opening		12																					
Pre-Award Conferences		13-15																					
School Board Review/Approval				25																			
Construction Phase																							
Issue Notices to Proceed				1																			
Contracting, Mobilization, Temp Facilities																							
Construction																						29	
Structural Steel Delivery												20											
Substantial Completion																					8		
Occupancy / FF& E																							

ADDENDUM THREE

Addendum Three (AD.03) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for **Edgewood Intermediate School Additions and Renovations** for Franklin Township Community School Corporation, Indianapolis, 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, Addendum One and Addendum Two, and include the appropriate content of same within their bid proposal.

Contractor Questions

1. **QUESTION:** T-110 General Music Rooms K-115 and K-117, T-111 Classrooms L-103, L-104, L-105, L-106, L-107, L-108, L-114, T-112 Classrooms M-103, M-104, M-105, M-106, M-107, M-108, M-115 All these rooms show a (Speaker with an L) symbol I'm assuming this is for a Local Sound Speaker. Is this for a LightSpeed system? If so What model # is it and is this owner provided, Contractor installed?

Answer: Yes symbol "S" with subscript "L" is a local speaker in each room as shown on the floor plans and listed instead in the question. This is contractor supplied and installed. See new updated specification section issued with this addendum for manufacture and part number.

2. **QUESTION:** T-651 Intercom and Clock System Riser: Shows an existing Telecor Intercom Headend. What is the model # of that Headend unit?

Answer: The existing system is a Telecor XL. See updated Intercom drawing issued with this addendum for connectivity requirements.

3. **QUESTION:** T-110 Gymnasium K-113 Control Panel – Rough-In I don't see any rough-in information for this control panel. Is this supplied by E.C. or the Sound Contractor? What Make and model# is required and at what height does it get roughed-in at? Does it require a protective guard?

Answer: See updated gym sound system drawing being issued with this addendum that includes the part number for the wall enclosure. This is to be provided by the sound contractor. Mounting height to match lighting control panel in gym but must not be more than 44" AFF.

ADDENDUM TWO CORRECTIONS

1. **Item 1** **Specification Section 04 20 00**
Unit Masonry
 - A. Change Paragraph 2.6 A.1 and 2.6 A.2 to read:
 - “1. Brick Color A: Belden Brick Company, Blend 60% Indian Red and 40% Royalty Red.
 2. Brick Color B: Belden Brick Company, Dutch Gray Velour.”
2. **Item 5** **Specification Section 23 33 00**
Ductwork Accessories
 - A. Replace “PRIHODA” with “POTTORFF” as an approved manufacturer.

SPECIFICATIONS

1. **Specification Section 05 40 00** **Cold Formed Metal Flashing**
 - A. Add Specification Section 05 40 00, Cold Formed Metal Flashing, included in this Addendum, to the Project Manual.
2. **Specification Section 08 71 00** **Door Hardware**
 - A. Remove "CREDENTIAL READER" from Hardware Sets No. 13, No. 17, No.28 and No. 29.
 - B. Add "CREDENTIAL READER" and "POWER SUPPLY" to hardware set No. 25.
3. **Specification Section 09 64 29** **Wood Flooring**
 - A. Revise Paragraphs 3.5 C., D. and E. to read:

“C. Gymnasium: Apply wood stain (custom color) to wood floor system where indicated on Gymnasium Court Marking Floor Plan.

 1. Paint color for all blue fill: Custom Color to be provided by Owner or developed in conjunction with contractor.
 - a. Standard black and white paint colors to be utilized on outlines of basketball court and volleyball court.
 2. Whitewash custom stain color at locations indicated on drawings.

D. Apply first coat of sealer, allow to dry and buff with steel wool to remove irregularities.

 1. Vacuum clean and wipe with damp cloth.
 2. Apply court lines using line paint (standard and custom colors) as manufactured the finishing material manufacturer.
 - a. Locations:
 - 1.) Gymnasium: Main playing basketball floor and volleyball courts, and any other game lines, colors as indicated on Floor Plan.
 3. Meet latest standards and requirements of IHSAA at time of application – confirm with Owner prior to final painting o court.
 4. Verify location of markings, words, hash-marks with the Owner prior to application.

- E. Apply second coat of sealer.
 - 1. Allow to dry.
 - 2. Lightly buff with steel wool and vacuum clean."
- B. Delete Paragraph 3.5 F. in its entirety.
- 4. Specification Section 11 66 23 Athletic Equipment**
 - A. Change Paragraph 2.4 E.1 to read "Net Antenna: Model NA-2(S); two sets required."
- 5. Specification Section 12 66 00 Folding Bleachers**
 - A. Delete Paragraph 2.2. B.6.e in its entirety.
- 6. Specification Section 23 31 16 Fabric Duct Systems**
 - A. Add Nanosox by Durkee America to list of approved manufacturers.
- 7. Specification Section 23 34 23 Power Ventilators**
 - A. Add ACME to list of approved manufacturers.
- 8. Specification Section 26 09 27 Relays**
 - A. Paragraph 2.2: Add Siemens CLM Series lighting contractor with two wire control and hinged cover as approved manufacturer.
- 9. Specification Section 26 56 29 Site Lighting**
 - A. Add Paragraph 1.3 C. to read:
 - "C. Submit a photometric point by point footcandle layout for the site lighting."
- 10. Specification Section 27 41 26 Audio/Video Systems**
 - A. Replace Specification Section 27 41 26, Audio/Video Systems, with Specification Section 27 41 26, included in this Addendum.
- 11. Specification Section 27 51 23 Intercommunication and Clock Systems**
 - A. Replace Specification Section 27 51 23, Intercommunication and Clock Systems, with Specification Section 27 51 23, included in this Addendum.

DRAWINGS

- 1. Sheets A-410, A-411, A-412, A-413, A-414, A-415, A-417**
 - A. Refer to Seven (7) revised full size drawings, included in this Addendum for revisions.
- 2. Sheet A-730**
 - A. Refer to revised full size drawing, included in this Addendum for modification of Media Shelving General Note "A".
- 3. Sheet A-810**
 - A. Refer to revised full size drawing, included in this Addendum for addition of Keynote 2 in J-131.
- 4. Sheet A-811**
 - A. Refer to revised full size drawing, included in this Addendum for modification of finishes in vestibules.

**5. Sheets A-813 and A-814**

A. Refer to two revised full size drawings, included in this Addendum for the following revisions:

1. Modification of finishes in vestibules.
2. Modification of walk-off carpet in corridors

6. Sheet A-820

A. Refer to revised full size drawing, included in this Addendum for the following revisions:

1. Modification of B2, vinyl base.
2. Addition of paints: P6 and P7.
3. Modification of toilet partition.
4. Plastic laminate PL1 is to be Nevamar – Lino Frieze FZ2001T.

7. Sheet A-834

A. Refer to revised full size drawing, included in this Addendum for modification of walk-off carpet in corridors.

8. Sheet A-840

A. Refer to revised full size drawing, included in this Addendum for modification of Keynotes #8 and #9.

9. Sheet A-852

A. Refer to revised full size drawing, included in this Addendum for modifications of Elevations 3, 5 and 6.

10. Sheet ED203

A. Add new demolition Plan Note 9 to read:

"9. Remove existing wall mounted exterior lighting fixtures on the east wall of the building outside Classroom B-104, Gifted and Talented Classroom C-119, Classroom C-102 and Classroom D-104. Remove all associated conduit and wire back to the source in such a manner as to keep all other lighting fixtures on these circuits in service."

B. Apply Demolition Plan Note 9 to the exterior wall outside Classroom B-104, Gifted and Talented Classroom C-119, Classroom C-102 and Classroom D-104.

11. Sheet ES102

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

12. Sheet E-601

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

13. Sheet T-001

A. Refer to revised full size drawing, included in this Addendum for Updated symbols for paging and local classroom sound speakers revisions.

14. Sheet T-641

A. Refer to revised full size drawing, included in this Addendum for the following revisions:

1. Updated sound system riser with additional and/or updated part numbers.
2. Updated Rack Detail.

15. Sheet T-651

- A. Refer to revised full size drawing, included in this Addendum for Updated system riser with additional and/or updated information.

Pages 1 through 5, inclusive, Specification Sections 05 40 00, 27 41 26 and 27 51 23, and Twenty-One (21) Full-Size Drawings constitute the total makeup of **Addendum Three**.

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SECTION 05 40 00

COLD FORMED METAL FRAMING

1 General

1.1 Section Includes

- A. Cold formed metal framing.
 - 1. Non-load bearing formed steel stud wall framing for exterior walls, fascias, soffits, etc.
- B. Framing Accessories.

1.2 Related Sections

- A. Section 05 12 00 - Structural Steel: Structural building framing.
- B. Section 07 21 16 - Batt and Blanket Insulation: Thermal insulation.
- C. Section 07 24 00 - Exterior Insulation and Finish System (EIFS).
- D. Section 07 81 00 - Sprayed Fireproofing: Coordinate installation of metal stud runners with spray fireproofing.
- E. Section 08 11 13 - Standard Steel Doors and Frames: Installation of door frames.
- F. Section 09 22 13 - Metal Framing and Furring: Interior wall framing.
- G. Section 09 24 00 - Cement Plaster.
- H. Section 09 29 00 - Gypsum Board.

1.3 References

- A. ASTM A90 - Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings.
- B. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. AWS D1.3 - Structural Welding Code - Sheet Steel.
- D. FS TT-P-645 - Primer, Paint, Zinc Chromate, Alkyd Type.

1.4 System Description

- A. Size components as indicated on Drawings or to withstand design loads in accordance with requirements of Indiana Building Code applicable codes.

1. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:
 - a. Exterior Wall Framing and Accessories: Horizontal deflection of $1/600$ of the wall height.
- B. Design system to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
- C. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

1.5 Quality Assurance

- A. Manufacturer: Company specializing in structural framing components with three (3) years minimum experience.
- B. Calculate structural properties of framing members in accordance with requirements of the current American Iron and Steel Institute (AISI) "Specifications for the Design of Cold-Formed Steel Structural Members".
- C. Design structural elements under direct supervision of Professional Engineer experienced in design of structural building framing members, registered in the State of Indiana.

1.6 Submittals

- A. Submit shop drawings and product data under provisions of Division 1.
 1. Indicate on shop drawings component details, framed openings, bearing, anchorage, loading, welds, type and location of fasteners, and accessories or items required of other related work.
- B. Provide stud layouts and all accessory details.
- C. Describe method for securing studs to tracks and for framing connections.
- D. Provide design calculations for specially fabricated framing and roof trusses, sealed by a Professional Engineer registered in the State of Indiana.
- E. Provide product data on standard framing members.
 1. Describe materials and finish, product criteria, and limitations.
- F. Submit manufacturer's installation instructions under provisions of Division 1.

2 Products

2.1 Acceptable Cold Formed Metal Framing Manufacturers

- A. Allied Studco, Inc., Phoenix, Arizona.
- B. Clark Steel Framing Systems, Middletown, Ohio.

- C. Consolidated Systems, Inc., Columbia, South Carolina.
- D. Dietrich Metal Framing, Inc., Pittsburgh, Pennsylvania.
- E. Marino Industries Corp., Westbury, New York.
- F. The Steel Network, Inc., Raleigh, North Carolina.

2.2 Framing Materials

- A. General:
 - 1. Sheet steel conforming to ASTM A653.
 - a. Grade A: Possessing minimum yield strength of 33 ksi.
 - 2. Galvanized Coating: ASTM A653, G-60.
- B. Studs and accessory framing: Minimum Grade A; sheet steel, formed to channel shape, punched web.
 - 1. Size, gage, and length as indicated on Drawings as recommended by the manufacturer for the intended use.
 - 2. Minimum Gage: 16.
- C. Deflection Track: U-shaped steel track, unpunched, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal and lateral loads.
 - 1. Minimum Gage: 16.
 - 2. Flange Width: Minimum of 2 inches to accommodate an upward or downward vertical deflection of 1/2 inch.
- D. Vertical Deflection Clips: Manufacturer's standard bypass or head clips, capable of accommodating upward and downward vertical displacement of primary structure.

2.3 Accessories

- A. Bracing, Furring, Bridging: Grade A; formed sheet steel, thickness required for conditions encountered, same finish as framing materials.
- B. Plates, Gussets, Clips: Grade A; formed sheet steel, thickness required for conditions encountered, same finish as framing materials.
- C. Metal Strapping: Sheet metal; minimum 18 gage; width required for device to be anchored; minimum length, 16 inches.
 - 1. Provide steel angles or channels if support requires more than metal strapping.

2.4 Fasteners

- A. Self Drilling, Self Tapping Screws, Bolts, Nuts, and Washers: ASTM A90, hot dip galvanized.

2.5 Primer

- A. Primer: FS TT-P-645, touch up for galvanized surfaces.

2.6 Fabrication

- A. Fabricate assemblies of framed sections to sizes and profiles required; with framing members fitted, reinforced, and braced to suit design requirements.
- B. Fit and assemble in largest practical sections for delivery to site, ready for installation.

3 Execution

3.1 Inspection

- A. Verify that surfaces and conditions are ready to receive work.
- B. Beginning of installation means acceptance of substrate and existing surfaces.

3.2 Installation - General

- A. Install in accordance with the manufacturer's printed instructions and as approved by the Architect/Construction Manager.
- B. When fastening metal framing to miscellaneous or structural steel, use minimum size #12 self-drilling, self-tapping screws.

3.3 Erection of Metal Studs

- A. Align floor and ceiling tracks.
 - 1. Locate to wall and partition layout.
 - 2. Secure in place with fasteners at maximum 24 inches on center.
 - 3. Coordinate installation of sealant with floor and ceiling tracks.
- B. Place studs at 16 inches on center, unless noted otherwise on Drawings; not more than 2 inches from abutting walls and at each side of openings.
 - 1. Connect studs to tracks using crimping clip and tie fastener welding method.
- C. Construct corners using minimum three studs.
 - 1. Double stud at wall openings, doors, and window jambs.

- D. Erect all studs one piece, full length.
 - 1. Splicing of studs is not permitted.
- E. Extend stud framing through ceiling to underside of floor or roof structure above.
- F. Coordinate placement of insulation in spaces made inaccessible after erection.
- G. Install intermediate studs above and below openings to match wall stud spacing.
- H. Provide deflection allowance in stud track, directly below horizontal building framing for non-load bearing framing.
- I. Attach cross studs or furring channels to studs for attachment of fixtures anchored to walls.
- J. Install metal strapping, angles, or channels to provide backing for aluminum roof ladder supports and other wall mounted items on EIFS or metal panel siding.
 - 1. Anchor metal strapping, angles, or channels across minimum of two framing members.
- K. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation.
- L. Touch up damaged galvanized surfaces with primer.

3.4 Tolerances

- A. Maximum Variation from True Lines and Levels: 1/8 inch in 10 feet.
- B. Maximum Variation from True Position: 1/8 inch.

END OF SECTION

SECTION 27 41 26

AUDIO / VIDEO SYSTEMS – ADDENDUM 3

1 General

1.1 Scope of Work

- A. Provide installation services for the following systems and equipment:
 - 1. Provide ceiling mounts for Owner supplied and installed Projectors.
 - 2. Provide Classroom Sound System.
 - 3. Provide Gymnasium Projector and Lift
- B. The telecommunication drawings provided as a part of this bid are to scale and are for location references of all equipment in the classroom. Contractors are responsible for all final measurements of distances and heights while onsite.

1.2 Reference Standards

- A. The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.
- B. All reference amendments adopted prior to the effective date of this Contract shall be applicable to this Project.
- C. All materials, installation, and workmanship shall comply with the applicable requirements and standards addressed within the Contract Documents.

1.3 Quality Assurance

- A. The Contractor shall have a service facility and organization with staffing capable of providing comprehensive maintenance and service to the specified systems within 48 hours after being called, 24 hours per day and 7 days a week.
- B. The Contractor shall provide in-house engineering and project management capabilities consistent with the requirements of the work. The Contractor shall have a project manager and field supervisor in place which oversees the entire project until completion of the project.
- C. The assigned project manager will be responsible for coordination, scheduling, manpower, commissioning, etc. of the project. The Contractor's field supervisor shall be present during the full duration of the project to oversee field installations and to coordinate with other trades to ensure progress on the project.
- D. The Contractor must be familiar with local codes and contract conditions pertaining to this project.
- E. All materials installed on this or any other project must be new and the latest specification and version from the manufacturer.
- F. All products installed shall be what are depicted in these specifications with no exceptions.

1.4 Submittals

- A. Successful Contractor shall provide submittals as required in Section 01 3300 Submittals.
- B. Provide shop drawings required by each section to the Architect for approval.
- C. Provide projection screen mounting details including hardware type, material, and load capacity. For all equipment mounted overhead, mounting details and design calculations shall be signed and sealed by a professional structural engineer licensed to practice in the State of Indiana.

1.5 Delivery, Storage, and Handling

- A. Equipment and components shall arrive onsite properly protected and undamaged with containers, packaging, and labels intact.
- B. Store, handle, and protect materials and equipment in accordance with manufacturer's recommendations.
- C. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging products or surrounding areas.
- D. Protect all equipment and components that are to be installed within this project from theft, vandalism, and exposure to rain, freezing temperatures, and direct sunlight.
- E. Protect installed equipment and components from damage and prevent use by unauthorized persons.

2 Products

2.1 General

- A. All materials shall meet or exceed all applicable referenced standards, federal, state, and local requirements, and conform to codes and ordinances of authorities having jurisdiction.
- B. A minimum of two hours training on all components is required as part of the work.

2.2 Ceiling Projector Mounts

- A. Gymnasium Projector Mount shall be provided by the contractor
 - a. Contractor shall provide (supply and install) Draper MPL-110V Projector Lift or equivalent by Chief.
 - b. Contractor shall provide (supply and install) Epson V11HA52820 Projector.
 - a) Contractor shall provide (supply and install) Epson Long Throw Zoom Lens ELPLL08.
- B. Classroom Projector Mounts shall be provided by the contractor.
 - 1. Equipment Description:
 - a. Contractor shall provide (supply and install) Peerless Model CMJ455 with Hanger Model Number ACC455.

- b. The projector is planned to be an Epson 982W which will be provided by the owner.
2. Provide video projector mounts in classrooms as shown in the Technology Drawings.
3. Reference the Architectural and Electrical Reflected ceiling plans for exact locations and final coordination.

2.3 HDMI TX and HDMI RX

- A. All cabling, transmitters and/or receivers to connect devices to the Projectors shall be provided by the Owner.

2.4 Classroom Audio System

- A. Classroom audio system shall be provided by the contractor.
- B. Equipment Description:
 1. Classroom audio system shall meet the following specifications:
 - a. Shall include one (1) Flexmike.
 - b. Shall include one (1) Charger.
 - c. Shall have one (1) Multimedia Integration Media Connector for Wireless Integration
 - d. Shall have one (1) digital audio output.
 - e. Locate sensors in ceiling for maximum coverage.
 - f. The classroom audio system shall be a Lightspeed Topcat.

3 Execution

3.1 General Requirements

- A. Installation shall meet or exceed all applicable federal, state, and local requirements, referenced standards and conform to codes and ordinances of authorities having jurisdiction.
- B. All installation shall be in accordance with manufacturer's specifications and published recommendations.
- C. All components shall be installed in locations referenced in the Telecommunication Drawings.
- D. All discrepancies on the drawings shall be clarified with the Architect before any action is taken.

3.2 Classroom Projector

- A. Projector Unit
 1. Install the projector unit using the methods and hardware provided by the manufacturer.
 2. All decorative covers must be installed and secured.

3. All locking hardware provided by the manufacturer must be installed and secured.
4. Projector Unit shall be fully configured to the owners requirements including entering the static IP address information of the unit. The owner will provide all IP address information to the contractor before configuration of the units.

3.3 Project Sign Off and Completion

- A. The Architect shall review all audio / visual technology components to assure they are properly installed, functional, and integrated into the owners existing technology infrastructure.
- B. All devices shall be reviewed prior to final system acceptance.
- C. The Contractor shall provide two weeks advance notification to the Architect for scheduling of the final system acceptance.
- D. The Contractor shall provide two copies of recorded drawings and two copies of completed testing/as built documents.
- E. The Contractor shall provide in AutoCAD an electronic version of the record documents.
- F. Punch list is developed and distributed by the Architect.
- G. The Contractor shall produce documentation to demonstrate the punch list has been completed and the installation is at final completion.
- H. Once the system has been accepted by the Architect, that date will be noted as the start of the warranty period.
- I. The Architect reserves the right to suspend and/or terminate testing at any time when the system fails to perform as specified.

3.4 Warranty

- A. The Contractor shall warrantee the completed work for a period of one year, from the date of commissioning and final acceptance, to be free of defect in design, workmanship, or material.
- B. Warranty Service:
 1. In the event that defects in the materials and/or workmanship are identified during the warranty period, the contractor shall provide all labor and materials to correct the deficiency.
 2. All service work shall be performed by factory certified technicians.
 3. All warranty service shall include the replacement of all parts and or components as required to restore normal system operation. If parts or components need to be repaired, then a loaner will be supplied and installed until the part or component can be repaired and reinstalled.
 4. Immediately following a warranty service request, the Contractor shall provide written documentation to the Architect which details the service work completed, cause of trouble, and any outstanding work required to restore a complete and normal system.

C. Repair or Replacement Service:

1. All Repairs shall be completed within 48 hours from site arrival. If the failure exceeds 48 hours, the Architect reserves the right to require the Contractor to provide onsite manufacturer support at no additional cost to the owner.

3.5 Record Copy and As-Built Drawings

- A. Provide record copy drawings (in CAD format) periodically throughout the project as requested by the Architect and at end of the project. Record copy drawings shall include all notations reflecting the as-built conditions of any additions to or variation from the original contract drawings provided.
- B. Provide hard copy and electronic copy of the final location and quantity of all audio visual equipment, test reports, equipment serial numbers, IP addresses, and labeling.
- C. All record documents and as-built drawing information shall fully comply with Section 01 7700 Closeout Procedures.

END OF SECTION

SECTION 27 51 23

INTERCOMMUNICATION & CLOCK SYSTEMS – ADDENDUM 3

1 General

1.1 Related Documents

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

1.2 Related Sections

- A. Section 4 - "General Requirements for Low Voltage"

1.3 Summary of Work

- A. The Work described in this Section includes the furnishing of all materials, equipment, labor, service, and the performance of all operations necessary for the installation of new intercom amplifiers, speakers, analog clocks as well as synchronized LED digital clocks as shown on the drawings in new additions.
- B. New equipment will interconnect to the existing Telecor XL System as shown on the drawings.

1.4 General

- A. The Contractor shall have been in business for at least ten years and be an authorized representative of the manufacturer of the submitted equipment for a minimum of five years. The Contractor shall not subcontract any of the systems in this Specification.
- B. Contractor's principal place of business and fully equipped service center shall be located within 150 miles of said job site. Upon request, the Contractor shall show satisfactory evidence of maintaining a fully equipped organization with qualified technicians capable of supplying adequate inspections and service, including replacement parts, to the equipment.
- C. All equipment shall conform to appropriate UL listings.
- D. The Contractor shall demonstrate proof of after-hours service arrangements and provide the telephone number being used for such service. Contractor shall provide warranty service during normal business hours, but shall also demonstrate full capability of providing 24-hour local service for emergency calls after hours. After-hours emergency service shall be charged at the Contractor's standard published service rates.

- E. It shall be the Contractor's responsibility to provide equipment in compliance with the Specification. The pre-bid submission shall consist of a diagram and console or rack elevation drawings, a section item-by-item comparison describing how the proposed system achieves the same specified functional requirements, and detailed specification sheets for each item in the system for evaluation of the named alternate system by the Consultant /Designer. Failure of the submittal to meet or exceed the specified requirements shall be sufficient cause for the refusal to consider further submittals of this manufacturer.
- F. Reproduction of speech shall be clear, of high fidelity, and with all frequencies within the range of the systems reproduced with no detectable noise, hum, or distortion.
- G. Special systems tests:
 - 1. Provide all instruments for testing and demonstrate in the presence of the Owner's Representative that all circuits and wiring tests are free of shorts and grounds and that the installation performs as required and is as specified herein.
 - 2. All testing shall be accomplished with equipment of the most recent state-of-the-art design. The following equipment shall be considered as the minimum needed to perform the above testing:
 - a. General Radio 1933 Sound Level Meter
 - b. General Radio 1567 Sound Level Calibrator
 - c. General Radio 1650-B Impedance Bridge
 - d. Sennhiser ZP3 Digital Impedance Bridge
 - e. Hewlett/Packard 334A Distortion Analyzer
 - f. Hewlett/Packard 204C Audio Oscillator
 - g. Hewlett/Packard 1220A Dual Trace Oscilloscope

1.5 Substitutions

- A. As required in Section 3 - "General Requirements."

1.6 Quality Assurance

- A. As required in Section 3 - "General Requirements."

1.7 Submittals

- A. As required in Section 3 - "General Requirements."
- B. Submit shop drawings, including product data sheets and wiring diagrams, per requirements in the General Conditions. Shop drawings shall include the following:
 - 1. A complete list of materials with model and part numbers and reference to the specification paragraph number.

2. A complete set of detailed manufacturer's specifications describing and illustrating all standard and special components and materials.
3. A Complete set of drawings of special items.
4. A single line block diagram showing exactly the manner in which the Contractor proposes to engineer the system.
5. Illustrations and scale drawing of the office rack and special cabinets.
6. Drawings shall include designations, dimension, operating controls, instruments, etc.
7. The Contractor shall also submit a copy of his valid State Contractor's License and show proof that he is a factory-authorized distributor of the submitted equipment and in general meets all requirements.

1.8 Record Documentation

- A. As required in Section 27 00 01 - "General Requirements."
- B. Provide wire map indicating the current room / hallway number that each existing cable terminates in.
- C. Provide floor plan drawing indicating which zone each existing speaker is connect to.

1.9 Operations and Maintenance Manual

- A. As required in Section 27 00 01 - "General Requirements."

1.10 Warranty

- A. As required in Section 27 00 01 - "General Requirements."

1.11 Training

- A. As required in Section 27 00 01 - "General Requirements."
 1. Provide up to 4 hours training.
 2. Trainer Qualifications:
 - a. Trainer must:
 - 1) Have a thorough understanding of the Intercom and clock systems provided.
 - 2) Have an understanding of the system as installed in this Project.
 - 3) Show maintenance and technology personnel how to program and trouble all serviceable components.
 - 4) Provide training and demonstration for all system features and functions.
 - 5) Provide training and demonstration for programming software.

- 6) Provide documentation and records showing programmed zones and schedules.

1.12 Intercom Systems Description

- A. Provide new intercom amplifiers and speakers will receive audio input from the existing intercom system to provide all page and bell tones in the new additions
 1. Remote cabinets (if needed) shall communicate though the existing school IP network. The school will provide a dedicated VLAN for use by the Intercom system components for a communication path.
 2. Existing conditions
 - a. The Existing Telecor XL Intercom headend and all existing speaker circuits will remain in place.
 3. Racks and equipment locations – Equipment indicated on the drawings to be located in telecom equipment rooms (ERs and TRs). If additional racks / cabinet are required they are to match existing. Provide all necessary rack mounting hardware to support equipment.

1.13 Clock System

1. Synchronized clock system that uses the GPS satellite system as the source of the master time signal.
2. System consists of, but shall not necessarily be limited to:
 - a. GPS time receiver.
 - b. Master Time Transmission:
 - 1) Master time transmitter.
 - 2) Master time satellite transmitter/repeaters.
 - c. Clock receivers.
 - d. Protective clock covers.
3. The system shall:
 - a. Continuously synchronize system clocks at regular intervals of at least 6 times daily.
 - b. Be capable of displaying time in multiple time zones, when desired.
 - c. Synchronize clocks in the system together.
 - d. Not require hard-wiring of clock displays to the master time source.
 - e. Automatically adjust for DST.

- f. Synchronize clocks to within 10 milliseconds of each other at each synchronization pulse.
 - g. Incorporate a fail-safe design so that the failure of any system component shall not cause failure of any other system component.
 - h. Synchronize clocks within 120 seconds following the application of power to the GPS receiver, transmitters and repeaters.
 - i. Feature the quantity of master time satellite transmitters/repeaters necessary to achieve reliable and stable operation of the entire system.
4. Individual clocks shall feature:
 - a. Internal oscillator that maintains clock display accuracy to within one second per day to ensure accuracy of displayed time between synchronization pulses.
 - b. Accuracy of time at any point during the day to within 0.2 seconds.
 - c. Battery powered operation using common off-the-shelf batteries that achieve a usable battery life of 3 years or more.
 5. Individual clocks shall continue to keep time even in the event of a failure of the master clock transmitter.
 6. The master time transmitter shall feature an internal oscillator that maintains a time reference for ongoing clock synchronization even in the absence of a GPS signal.
 7. Upon restoration of power or the repair of a failed component, the system shall resume normal operation without the need to reset any component of the system.
 8. The system shall feature clocks at locations designated on the Drawings and/or included in schedules that appear within the Contract Documents.
 9. The system clocks shall be capable of being relocated at any time.
- B. Regulatory Requirements
1. Transmitters, receivers, and repeaters, shall comply with Part 90 of FCC rules, as follows:
 - a. The device may not cause harmful interference, and;
 - b. The device must accept interference received, including interference that may cause undesired operation.
 - c. Transmitter frequency shall be governed by FCC Part 90.35.
 - d. Transmitter output power shall be governed by FCC Part 90.257 (b).

2. System shall be installed in compliance with local and state authorities having jurisdiction.
- C. Analog Clocks
 1. Provide 12" and 16" wireless battery powered clocks
 2. See floor plans for clock locations
- D. Digital Clocks
 1. Provide digital LED clocks with minimum 4" high segments and 4 characters. Include all necessary mounting hardware for either ceiling or wall mount. At most locations clocks will be mounted back to back and be placed in hallway ceilings.
 2. See floor plans for clock locations and mounting requirements.

2 Products

2.1 General

- A. As required in Section 3 - "General Requirements"
- B. This section is designed to provide the Contractor with a minimum standard of quality and functionality for the products used for telecommunications infrastructure.
- C. This standard will be considered in force for the original response as well as for any additions or changes to this Project. Due to this, there may be items listed in the Products section that are not required under the scope of this contract.
- D. Products required by the Drawings but not listed in Part 2, will be evaluated as a performance specification based on the information provided on the Drawings.

2.2 Intercom Products

- A. The following manufactures will be considered for this project:
 1. Intercom System
 - a. Telecor SIP
- B. Feature and Functions
 1. The platform shall utilize state of the art IP Technology for Call-in Notification, School Safety Paging and Evacuation Tones, Atomic Time Synchronization, Class Change Tones utilizing multiple, programmable schedules for each zone. Two-way hands-free Internal Intercommunications, Paging and Program Distribution. The system shall be easy to learn and operate. All standard programming shall be web-based and user friendly to allow the system administrator the ability to easily program system features.

2. Provide a complete and satisfactorily operating district/school communications and district/school safety system as described herein, using materials and equipment of types, sizes, ratings and performances as indicated. Use materials and equipment that comply with referenced standards and manufacturers' standard design and construction, in accordance with published product information. Coordinate the features of all materials and equipment so they form an integrated system, with components and interconnections matched for optimum performance of specified functions.
3. The platform shall be a single electronic system consisting of a minimum of 10 intercom channels for each campus, (classroom) IP speaker modules and call-in switches, IP Zone Modules connecting corridor speakers, inside and outside horns, IP Administrative Consoles, SIP enabled PBX integration and district wide integration for paging, emergency notifications, calendar scheduling and configuration.
4. Each Classroom may be provided with an IP Speaker module interface and up to 5 different call-in switches, each with their own annunciation path and priority.
5. Call-ins may automatically annunciate (display of priority and location) to administrative consoles, SIP enabled phones and outside phones.
6. Each Classroom may be provided with a 25v Speaker connected to an IP enabled twenty-four-port Gateway interface and up to 5 different call-in switches, each with their own annunciation path and priority.
7. Call-ins may automatically annunciate (display of priority and location) to administrative consoles, SIP enabled phones and outside phones.
8. Call-ins shall be programmed to automatically change priority and annunciation route based on age of call-in and original priority.
9. Call-ins may have priority and annunciation routing changed by user action from a console or SIP enabled phone.
10. Call-in annunciation routing shall include playing pre-recorded audio over speakers, sending a pre-configured e-mail and/or activating relays.
11. The platform shall lend itself to expansion by simple addition of hardware modules.
12. The platform shall directly connect to the WAN/LAN without the need for a separate server at each school location. Configuration, including bell schedules, calendars and emergency sequences can remotely be created, changed, stored and downloaded to the system by an authorized user from a browser-based interface.
13. The platform shall provide the ability to initiate school safety paging announcements, evacuation tones and take cover tones from any telephone or connected web-browser within the facility or outside the facility to any other location within the facility or district.

14. The platform shall provide the ability to selectively communicate or monitor individual classrooms in emergency situations from any telephone within the facility or outside the facility to any other location within the facility. All communication within the classroom shall be hands free and will not require any interaction by the classroom user.
15. The platform shall provide classroom users the ability to confirm that they have safely secured their classrooms during lockdown with a single button press.
16. IP-addressable and POE powered speaker modules for individual rooms shall be system programmable and may be assigned any two, three, four, five or six digit number as well as name and description. Any extension may be reassigned at any time.
17. IP-enabled two-way voice communication shall be available from any provided telephone or administrative console through any IP Speaker module or Gateway in a campus. This shall allow hands free communication to any classroom or any individual IP loudspeaker unit. A programmable pre-announce tone shall sound immediately before the intercom path is opened and a supervisory tone shall continue to sound at regular intervals when speaker monitoring is active, complying fully with all privacy legislation. Pre-announce tone and supervisory tones shall be disabled during designated emergencies, such as lockdowns, automatically.
18. The platform shall allow users to configure multiple schedules per school, with a minimum of 500 unique events per schedule and automatic Daylight Savings Time correction. A minimum of 5 schedules may be active on any given day for each campus. Users shall be able to select from 25 standard included tones as well as unlimited user created and uploaded audio files for class change signaling and messaging. In addition, scheduled events shall include relay actions, e-mail notifications and paging exclusions as system configuration changes. The platform shall allow control of the bell schedules via the district WAN/LAN without the need for a separate server at each school location. Bell schedules can be remotely created, changed, stored and assigned to calendar days for the local school by an authorized user from a browser-based interface.

2.3 Intercom Equipment and Material

- A. Audio Paging/Program Amplifier(s)
 1. Power amplifier(s) shall be provided to provide a minimum of 2 watts of power to all paging speakers and 15 watts of power to all paging horns.
 2. The maximum load on the paging/program amplifiers shall be 80% of the rated maximum output of the amplifiers.
 3. Provide amplifier as shown on drawings and to to meet the above requirements of sufficient specification and audio power to support the number of speakers and zones as reflected on the system drawings.
- B. Tile Ceiling Mounted Paging Speaker

1. Shall be a pre-assembled 2 foot by 2 foot lay-in assembly complete with 8" full range speaker, 70Volt line matching, rotary-select tap transformer, perforated steel baffle with white baked epoxy finish and an integrated back box that covers the full area of the baffle.
 2. The speaker assembly shall have a pair of speaker wires through a hole suitable for a ¾" conduit fitting as the connection point for twisted/shielded cabling to the Audio Paging/Program Amplifiers specified herein. Provide as indicated on the drawings.
- C. Tile Ceiling Mounted Paging Speaker with Volume Control
1. Shall be a pre-assembled 2 foot by 2 foot lay-in assembly complete with 8" full range speaker, 25/70Volt line matching transformer, perforated steel baffle with white baked epoxy finish and an integrated back box that covers the full area of the baffle.
 2. The speaker assembly shall have a pair of speaker wires through a hole suitable for a ¾" conduit fitting as the connection point for twisted/shielded cabling to the Audio Paging/Program Amplifiers specified herein.
 3. The front panel accessible volume control permits the end user to adjust the loudness of the speaker to a comfortable level. Provide as indicated on the drawings.
- D. High Power Recessed/Surface Wall Mounted Exterior Paging Speaker Assembly
1. The speaker shall be a 15watt horn speaker with integrated 25volt Transformer and press grill cover. Speaker must be mounted in a Weather Resistant Surface/Flush Mount Box. The back box shall be 10.5" square X 4" deep. The recessed back box shall be Lowell LUH-BOX. The Speaker baffle shall be constructed of Aluminum. The Speaker model shall be a Lowell LUH-15TI
- E. Surface Exterior & Canopy Mounted Paging Speaker Assembly
1. The speaker shall be an 8" single cone driver with a moisture-resistant cone and a 10 oz. magnet. The cone is cotton cloth with a phenolic resin treatment and a double dipped acrylic lacquer coating to provide superior protection in areas of high humidity. The speaker shall be Lowell Model 8C10MRB-T72. Provide as indicated on drawings. The recessed back box shall be of heavy gauge cold-rolled steel, spot welded for stability with a rust-retardant gray primer finish. Acoustically treat the interior to eliminate mechanical resonance. The surface back box shall be 11.5" square X 4" deep. The surface back box shall be Lowell model CB84-SGVP. The grille shall be 14-gauge steel, with secondary steel barrier constructed of 22-gauge steel screen which protects the speaker. Provide tamper resistant hardware. The Grille shall be Lowell model SG-8VP. Provide as indicated on the drawings. (Quam equal)
- F. Remote Audio Input Jack Plate

1. Provide a single gang plate in the office area to facilitate the connection of a headphone level audio source for broadcast of program material through the system (ProCo Model Type A). The jack plate shall have a single 3.5mm female stereo input. The jack plate shall be engraved "INTERCOM PROG. INPUT".

2.4 Wireless Clock System

- A. Clock System Manufacturers
 - a. Telecor or equal
- B. Provide complete and satisfactorily operating NTP Synchronized Wireless Clock System with analog and digital clocks as described herein, using materials and equipment of types, sizes, ratings, and performances as indicated.
- C. (NTP) Network Time Protocol is a network standard protocol that assures accurate synchronization to the millisecond of computer clock times in a network of computers. Based on UTC, NTP synchronizes client workstation clocks to the U.S. Naval Observatory Master Clocks in Washington, DC and Colorado Springs, CO. running as a continuous background client program on a computer, NTP sends periodic time requests to servers, obtaining server time stamps and using them to adjust computer clocks.
- D. The system shall be easy to learn and operate. All standard system programming shall be user friendly to allow the system administrator the ability to easily program system features.
- E. Use materials and equipment that comply with referenced standards and manufacturers' standard design and construction, in accordance with published product information.
- F. Coordinate the features of all materials and equipment so they form an integrated system, with components and interconnections matched for optimum performance of specified functions.
- G. The NTP Synchronized Wireless System consists of a master transmitter (if required for system being proposed) located on the inside of the building, and a NTP receiver connected to a time server. An unlimited number of wireless or wired digital clocks are synchronized to the NTP time. System shall synchronize all clocks to each other. System shall utilize NTP technology to provide atomic time to components.
- H. LED digital clocks shall be PoE powered.
 - a. Note if the system you propose does not support PoE provide the necessary wiring and power circuits for LED the clocks. Power supplies may be mounted in the nearest telecom closet.
- I. Clocks shall automatically adjust for Daylight Savings per settings on the transmitter
- J. The system shall have an internal clock that is continually updated by the NTP receiver. If a NTP failure were to occur, the clocks would continue to be synchronized to the internal clock and would not deviate from each other. Once NTP time is restored, all clocks would once again be synchronized to the NTP time.

- K. The system must have a fail-safe design so that if a power interruption were to occur, the clocks will continue to operate. If a synch signal is not received by the analog clocks for 48 hours, the second hand will double pulse to indicate this condition. Upon restoration of power, the transmitter will once again communicate with the clocks and normal operation will resume.
- L. System shall be 100% programmable from the front operational panel with lights that indicate power status and NTP reception. Panel programming will also include Time Zone, Frequency, 12 or 24-hour operation and DST on/off.
- M. The system shall lend itself to expansion by simple addition of wireless secondary clocks and their required power source.
- N. Equipment and Material
 - 1. Analog Clocks:
 - a. Receives synchronization signal wirelessly from Master Time Transmitter or associated repeater.
 - b. 12 1/2 inches and 16 inches clock face options.
 - c. Choice of single or double clock faces.
 - d. Available from the manufacturer in a variety of standard colors.
 - e. Available with a variety of standard clock face designs.
 - f. Available in wall and ceiling mount versions.
 - g. Polycarbonate frame.
 - h. Polycarbonate lens.
 - i. Clock Face: White.
 - j. Hands: Black hour and minute hands; Red sweep second hand.
 - k. Automatic adjustment of DST.
 - l. Integral bypass switch to disable DST if desired.
 - m. Tamper-resistant hanger system to discourage theft.
 - n. ≥ 3 year battery life using common off-the shelf, readily available batteries.
 - o. Telecor
 - 2. "4" Digital Clock
 - a. 4" 7-Segment LED
 - b. PoE IEEE 802.3af Compliant
 - c. 1-year Manufacturer's Warranty

- d. 4 - Digit (Hours/Minutes)
 - e. Heavy Duty Construction
 - f. 12/24 Hour Display Format
 - g. Clear Anti-Glare LED Display
 - h. Adjustable Brightness
 - i. PM Indicator Light
 - j. Red or Green LED Digits
 - k. 4 Degree Slope Bracket
 - l. Telecor
- 3. Dual-face Digital Clock Ceiling Kit
 - a. Black Finish
 - b. 11" drop from Ceiling, 6.3" Total Depth
 - c. Telecor Model 4XBRK
 - 4. Polycarbonate Clock Guards
 - a. Telecor model 4455*
 - 5. Provide any software necessary for configuration.

3 Execution

3.1 Installation

- A. General Requirements:
 - 1. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at outlets and terminals.
 - 2. Splices, Taps, and Terminations: Arrange on numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Cables may not be spliced.
 - 3. Secure and support cables at intervals not exceeding **48 inches** and not more than **12 inches** from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
 - 4. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools.
 - 5. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.

6. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used.
- B. Open-Cable Installation:
1. Install cabling with horizontal and vertical cable guides in telecommunication spaces with terminating hardware and interconnection equipment.
 2. Suspend speaker cable not in a wireway or pathway a minimum of **8 inches** above ceiling by cable supports not more than 48 inches apart.
 3. Cable shall not be run through structural members or be in contact with pipes, ducts, or other potentially damaging items.
 4. Separation of Wires: Separate speaker-microphone, line-level, speaker-level, and power wiring runs. Install in separate raceways or, where exposed or in same enclosure, separate conductors at least **12 inches** apart for speaker microphones and adjacent parallel power and telephone wiring. Separate other intercommunication equipment conductors as recommended by equipment manufacturer.
 5. Match input and output impedances and signal levels at signal interfaces. Provide matching networks where required.
 6. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so they identify media in coordination with system wiring diagrams.
 7. Weatherproof Equipment: For units that are mounted outdoors, in damp locations, or where exposed to weather, install consistent with requirements of weatherproof rating.

3.2 Raceways and Cables

- A. All low voltage wires and cables concealed in walls shall be run in EMT conduit from the flush outlet box to above accessible ceiling.
- B. Provide conduit sleeves where cables penetrate firewalls above ceilings.
- C. All low voltage cable shall be plenum rated.
- D. Only data and voice cables are to be installed in the corridor cable tray system. All other low voltage cabling shall be *grouped and bundled* in a neat fashion and secured to J-hooks with tie-wraps (Thomas & Betts "Ty-Rap" or equals by Ideal or Panduit) every five (5) feet.
- E. Provide adequate separation between conductors of different signal levels to prevent cross talk. Where cables must cross, cross at 90-degree angles.
- F. Bridal ring type hangers are not acceptable. Only hangers that provide adequate bend radius protection will be accepted.
- G. No raceway or open cabling shall be located in proximity of hot water lines or excessive heat.

3.3 Grounding and Bonding

- A. Ground all metallic equipment in accordance with ANSI-J-STD-607-C.
- B. Bond metallic equipment to the grounding bus bar, using not smaller than No. 6 AWG equipment grounding conductor.
- C. Refer to Section 270500 for additional grounding requirements.

3.4 System Programming

- A. Programming: Fully brief Owner on available programming options. Record Owner's decisions and set up initial system program. Prepare a written record of decisions, implementation methodology, and final results.

3.5 Field Quality Control

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
 - 2. Tests and Inspections:
 - 3. Schedule tests with at least seven days' advance notice of test performance.
 - 4. After installing intercommunications and program systems and after electrical circuitry has been energized, test for compliance with requirements.
 - 5. Operational Test: Test originating station-to-station, all-call, and page messages at each intercommunication station. Verify proper routing and volume levels and that system is free of noise and distortion. Test each available message path from each station on system.
 - 6. Frequency Response Test: Determine frequency response of two transmission paths, including all-call and paging, by transmitting and recording audio tones. Minimum acceptable performance is within 3 dB from 150 to 2500 Hz.
 - 7. Signal-to-Noise Ratio Test: Measure signal-to-noise ratio of complete system at normal gain settings as follows:
 - a. Disconnect speaker microphone and replace it in the circuit with a signal generator using a 1000-Hz signal. Measure signal-to-noise ratio at speakers.
 - b. Repeat test for four speaker microphones and for each separately controlled zone of paging loudspeakers.
 - c. Minimum acceptable ratio is 35 dB.

8. Distortion Test: Measure distortion at normal gain settings and rated power. Feed signals at frequencies of 150, 200, 400, 1000, and 2500 Hz into each paging and all-call amplifier. For each frequency, measure distortion in the paging and all-call amplifier outputs. Maximum acceptable distortion at any frequency is 5 percent total harmonics.
9. Acoustic Coverage Test: Feed pink noise into system using octaves centered at 500 and 4000 Hz. Use sound-level meter with octave-band filters to measure level at three locations in each paging zone. Maximum permissible variation in level is plus or minus 3 dB; in levels between adjacent zones, plus or minus 5 dB.
10. Retain first subparagraph below if paging is specified.
11. Power Output Test: Measure electrical power output of each paging amplifier at normal gain settings of 150, 1000, and 2500 Hz. Maximum variation in power output at these frequencies is plus or minus 3 dB.
12. Signal Ground Test: Measure and report ground resistance at system signal ground. Comply with testing requirements in Division 26 Section "Grounding and Bonding for Electrical Systems."
 - a. Inspection: Verify that units and controls are properly labeled, and interconnecting wires and terminals are identified. Prepare a list of final tap settings of paging speaker-line matching transformers.
 - b. Intercommunications and program systems will be considered defective if they do not pass tests and inspections.
 - c. Prepare test and inspection reports.

3.6 Startup Service

- A. In paragraph below, select third option for microprocessor-switched systems.
- B. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements.
- C. Complete installation and startup checks according to manufacturer's written instructions.

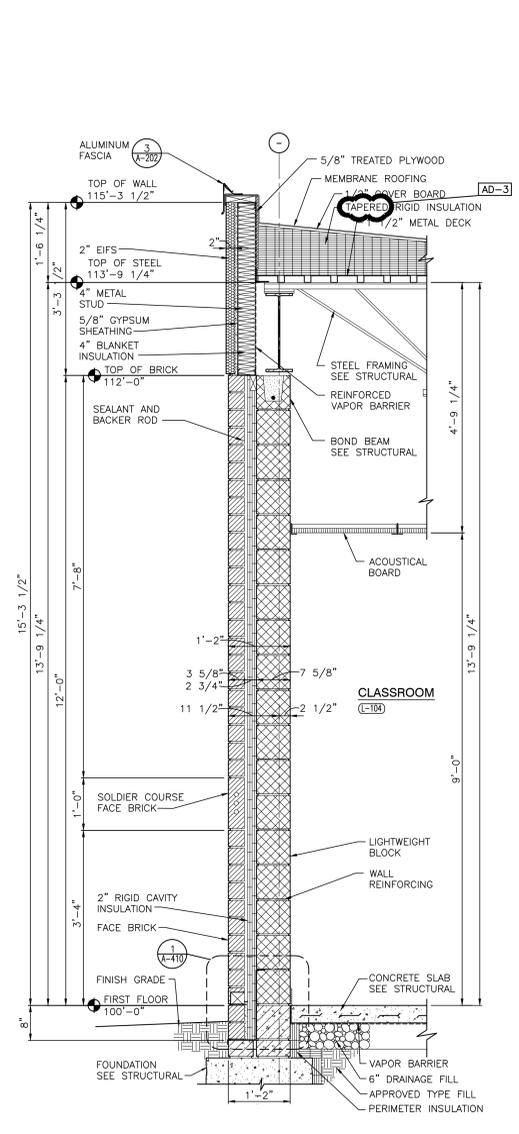
3.7 Adjusting

- A. Delete this article if Owner contracts separately for this service. Consider including a provision for submitting a continuing maintenance agreement proposal.
- B. On-Site Assistance: Engage a factory-authorized service representative to provide on-site assistance in adjusting sound levels, resetting transformer taps, and adjusting controls to meet occupancy conditions.
- C. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose.

3.8 Training

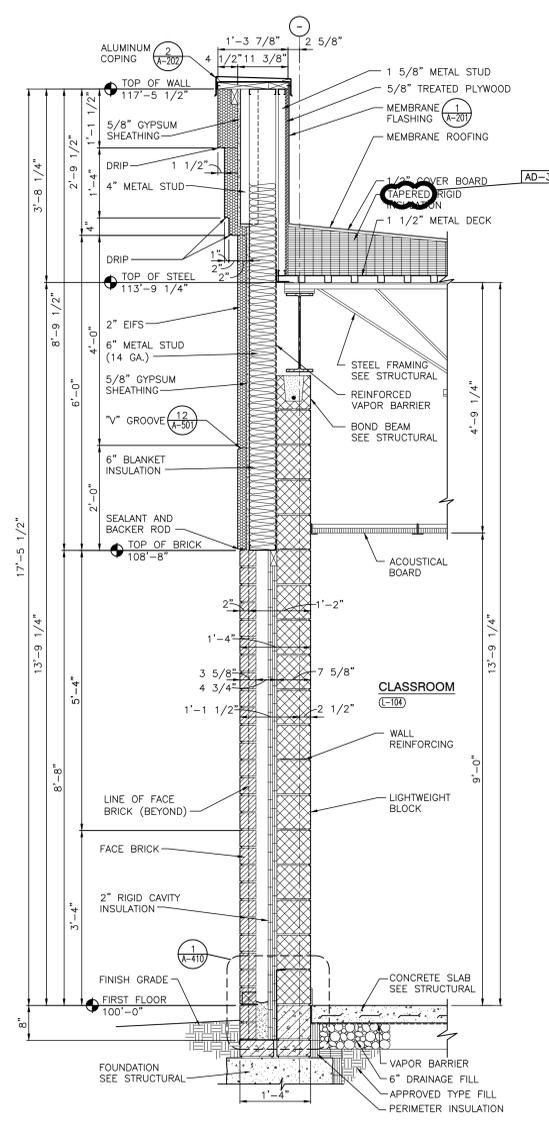
- A. Provide six hours of training for the owner on the system described herein.
- B. The contractor shall show the owner all main connection points for the system and explain the function of the system and each major component type. The contractor shall instruct the owner in any maintenance requirements, and procedures to be followed when new equipment is added to the system in the future.
- C. Provide information on all systems including any applicable test results in the owners and operators' manuals.
- D. This training shall be videotaped and two copies in digital format shall be turned over to the owner with the close out documents.
- E. Contractor shall obtain a sign-off from the owner that they have received adequate training for the equipment. The contractor shall submit this form with their as-built information to be delivered to the owner.

END OF SECTION



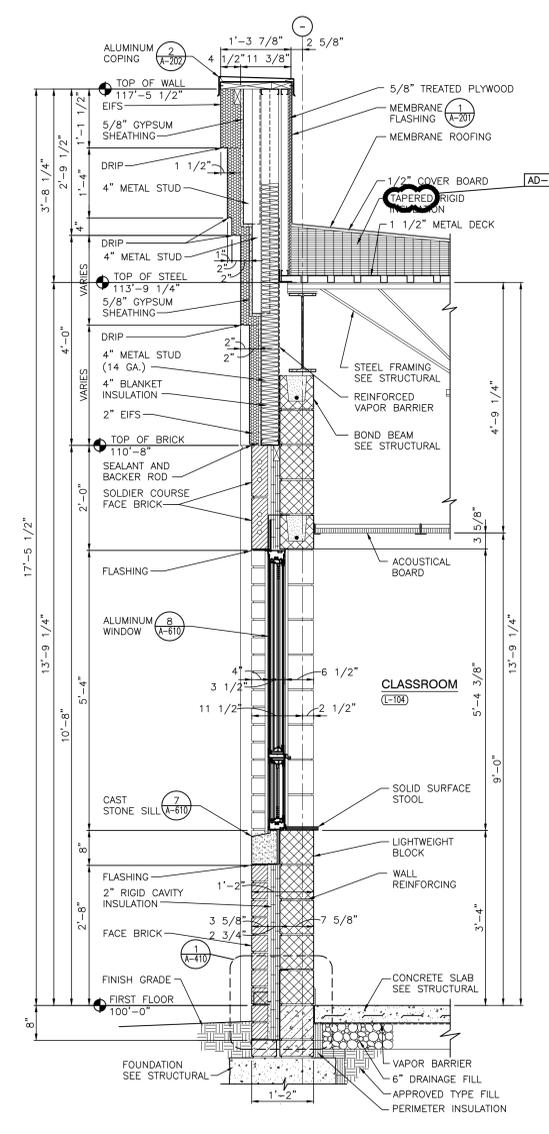
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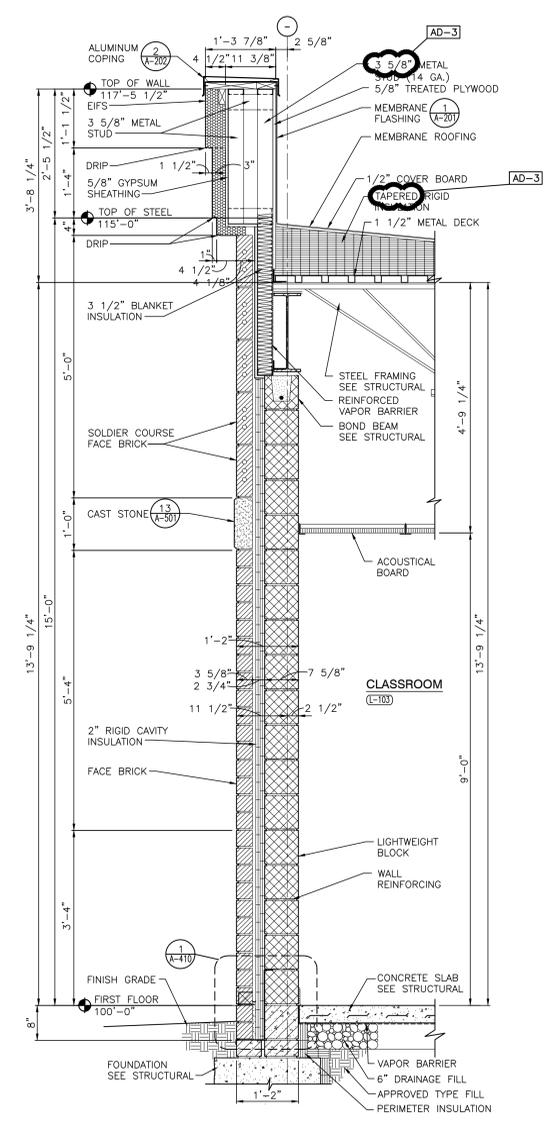
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WALL SECTION
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05/23/22
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DRAWN BY
JRH KS
CHECKED BY
DUW



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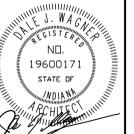
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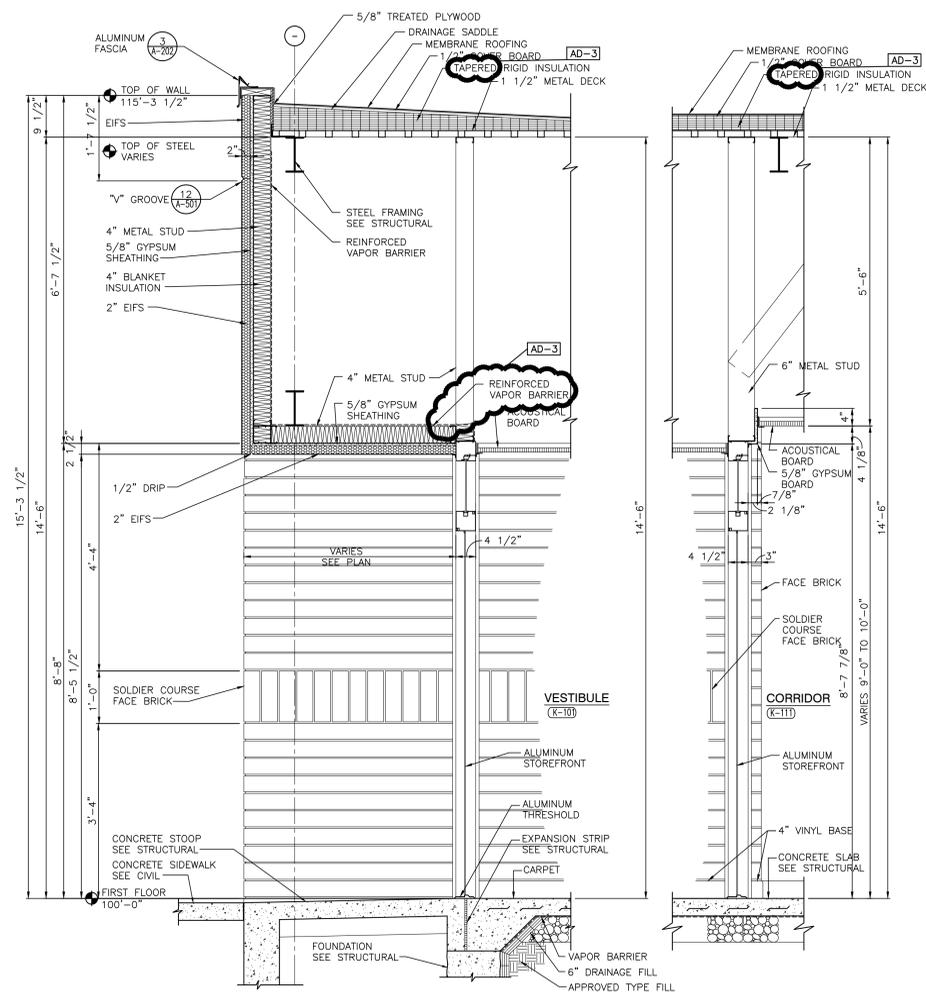
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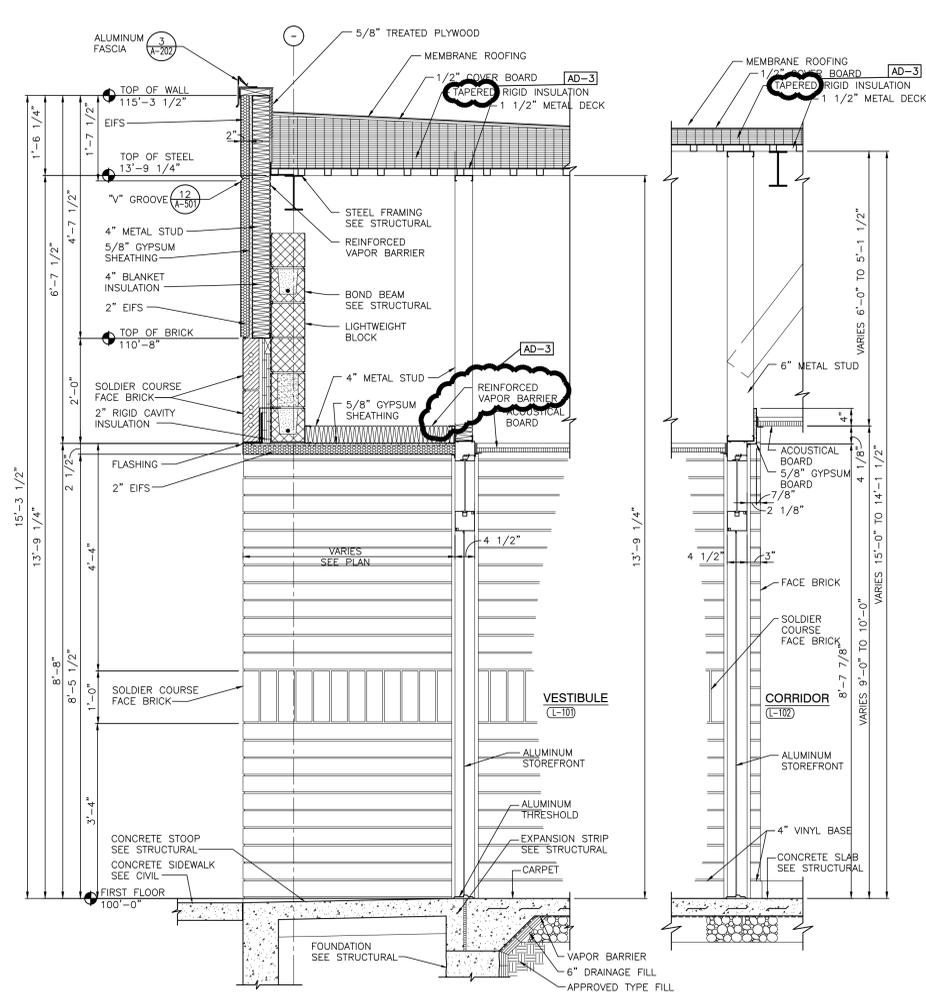
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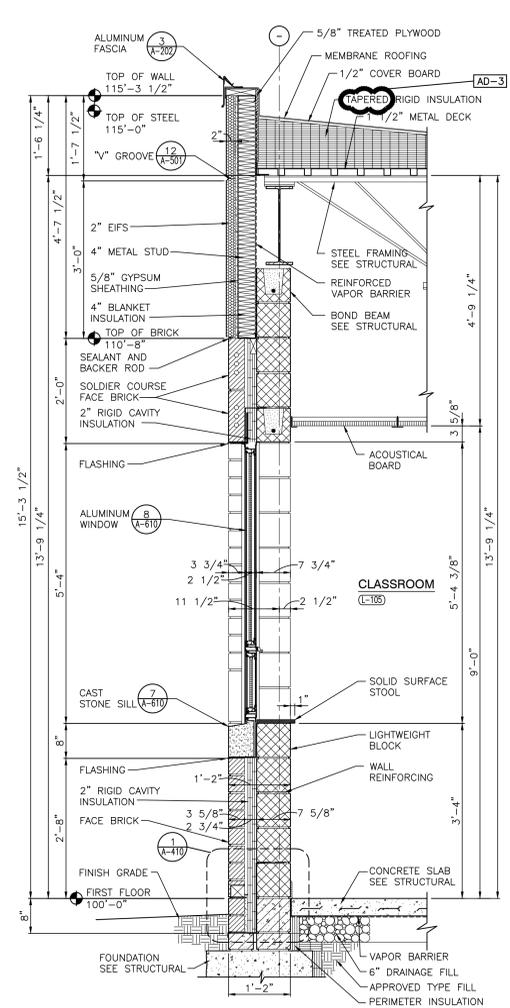
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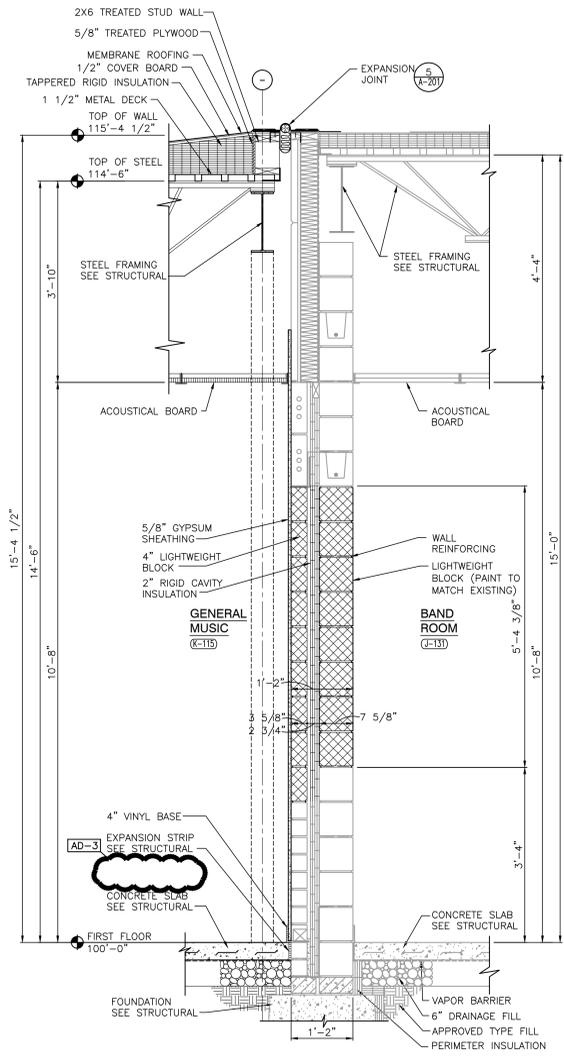
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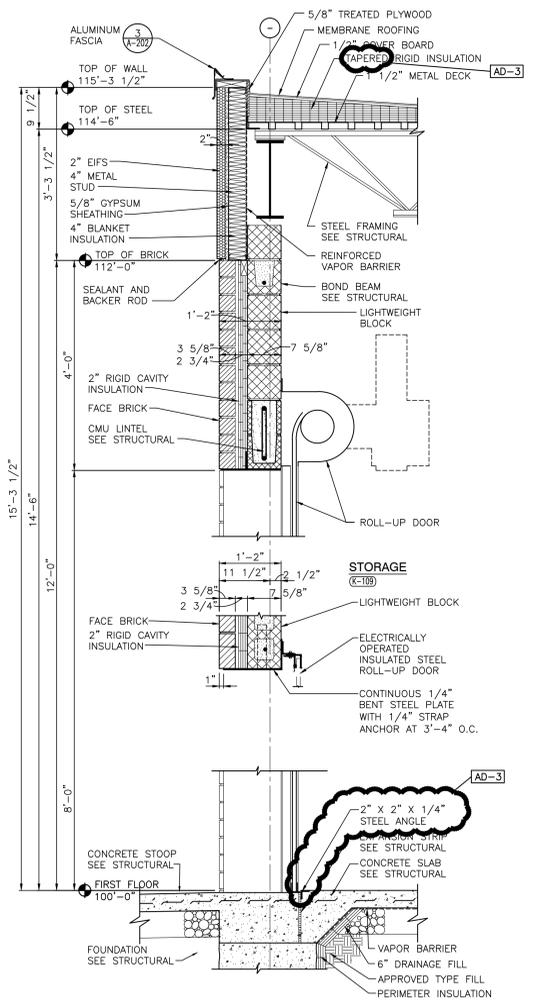
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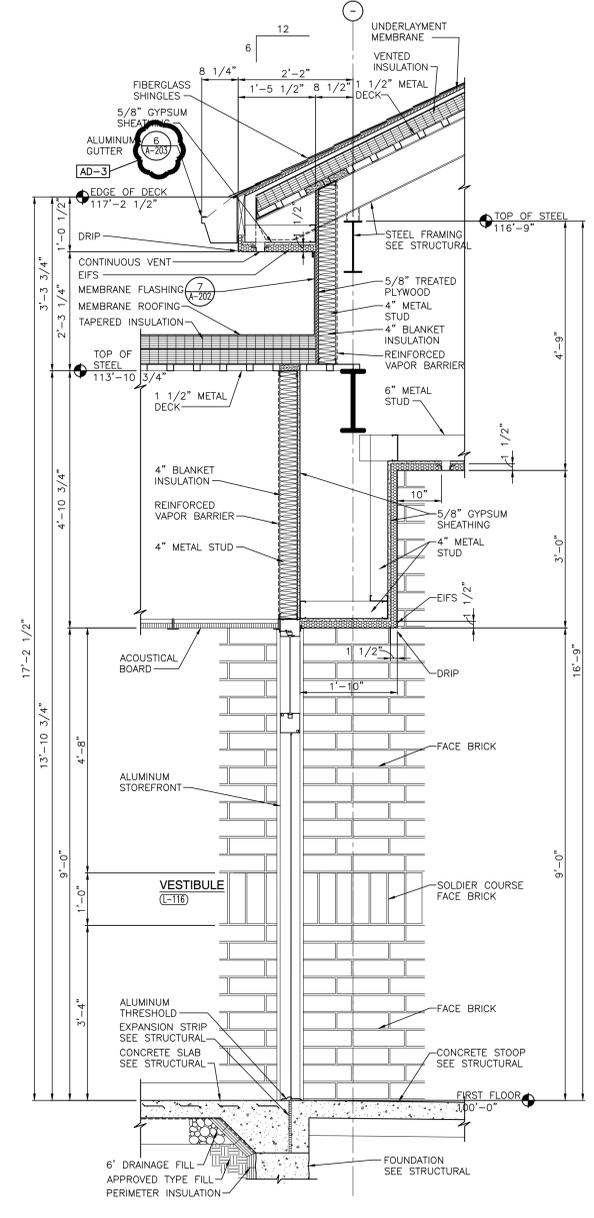
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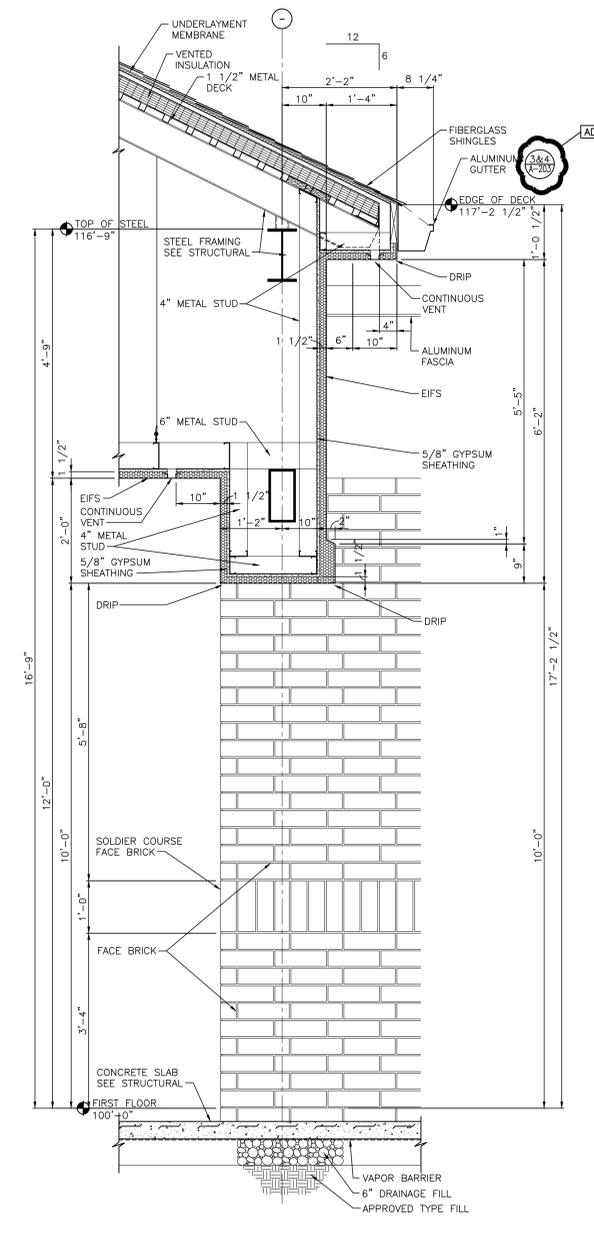
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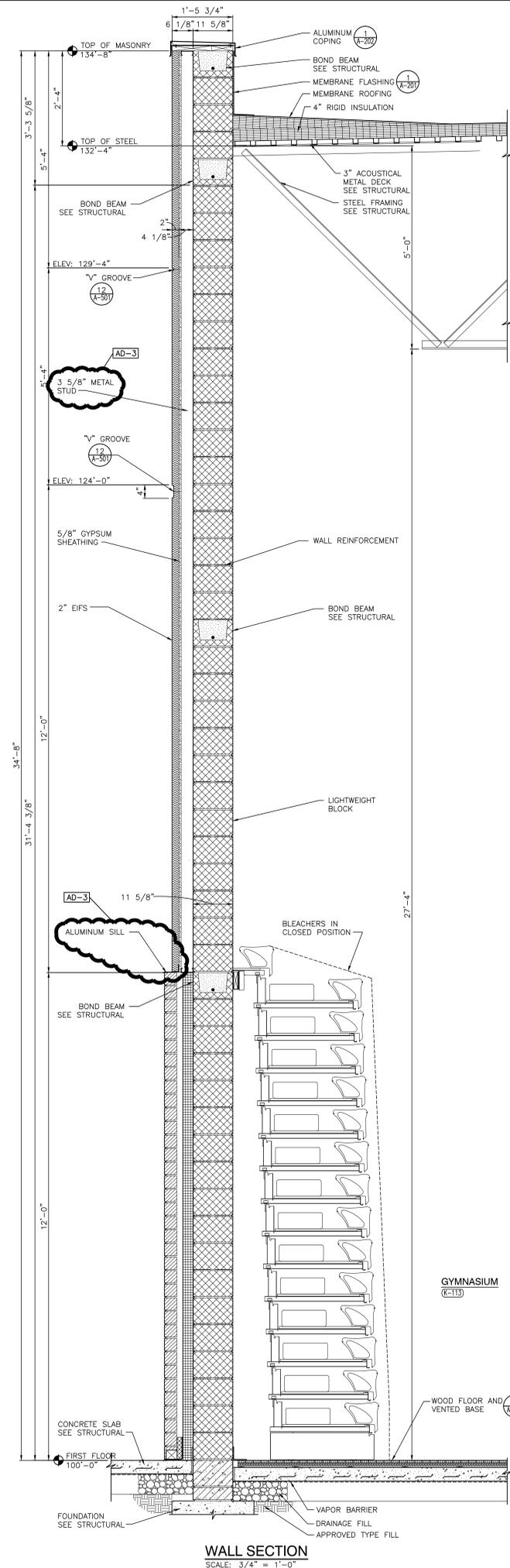
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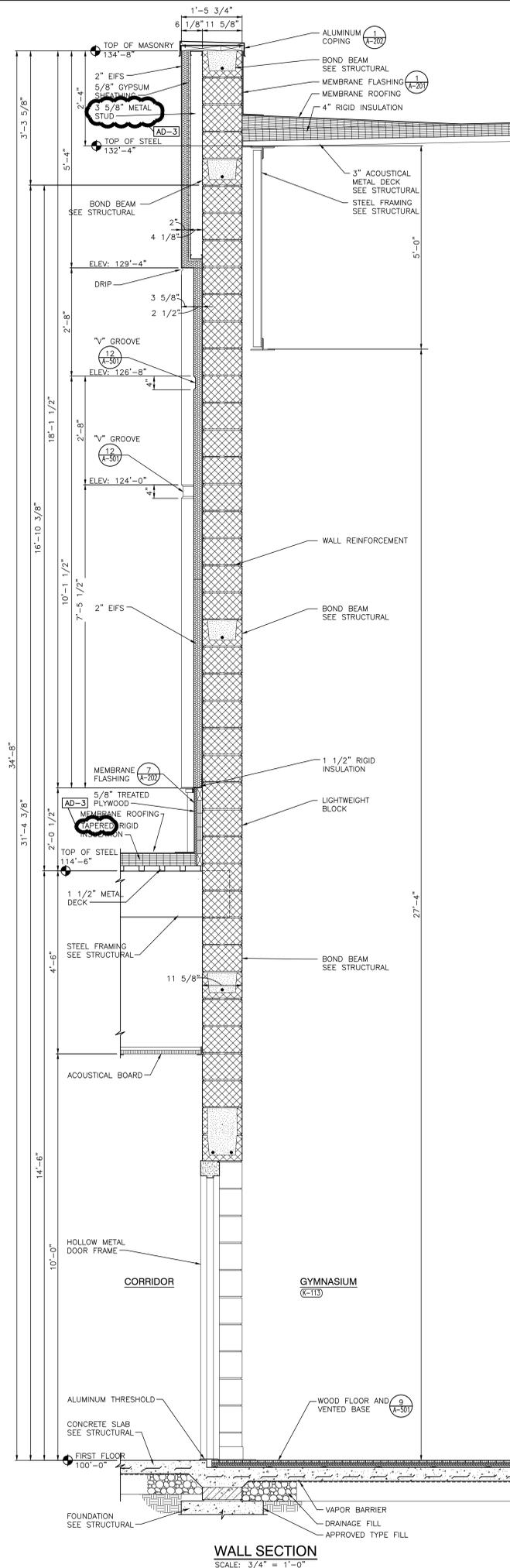
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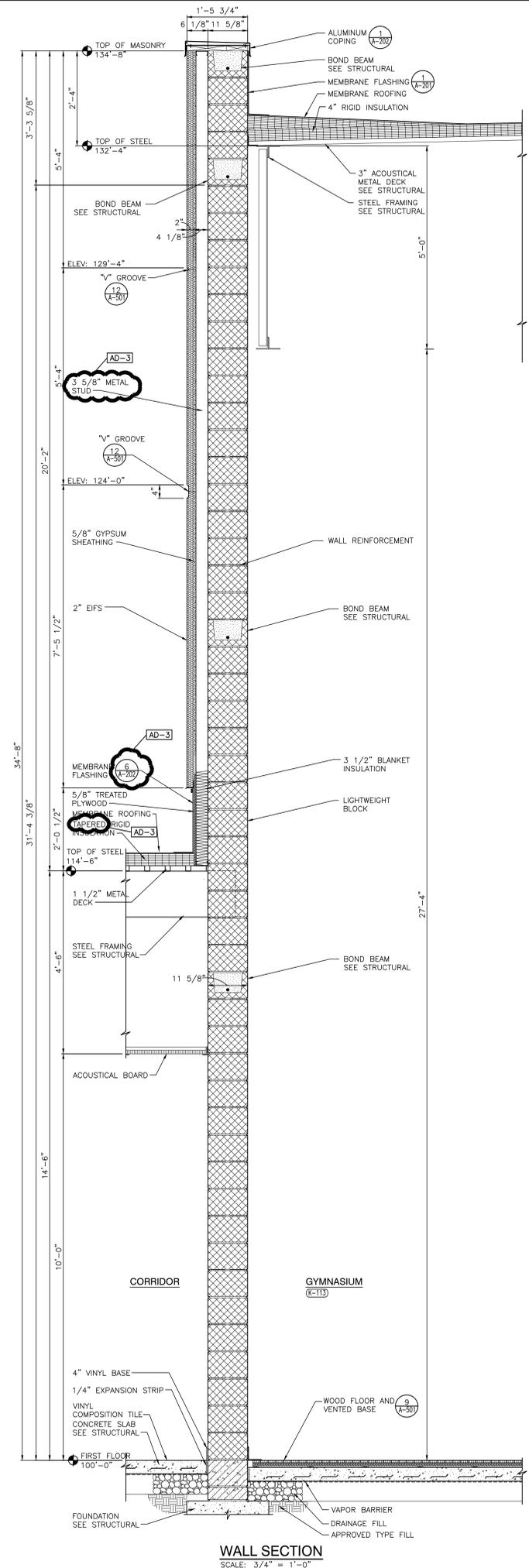
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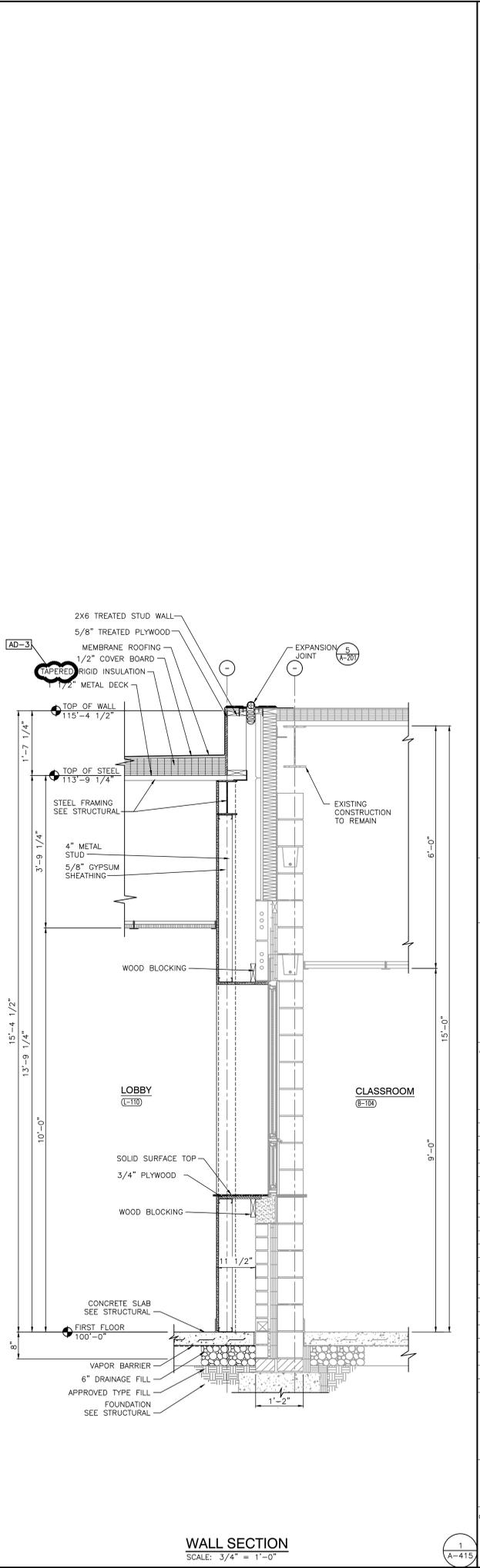
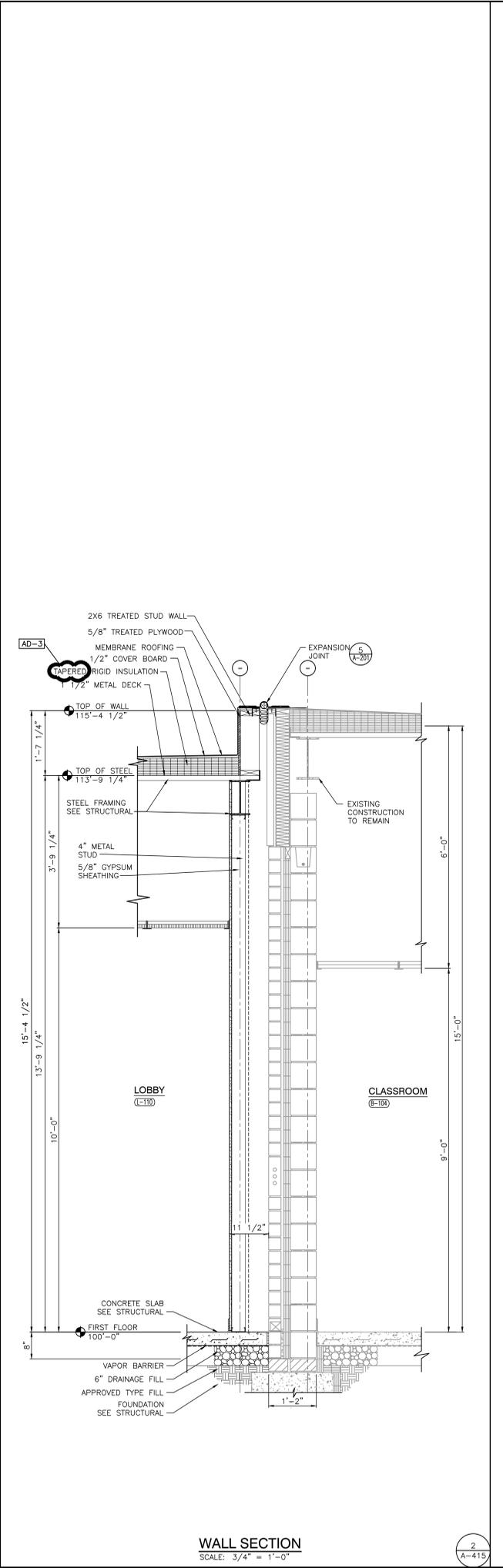
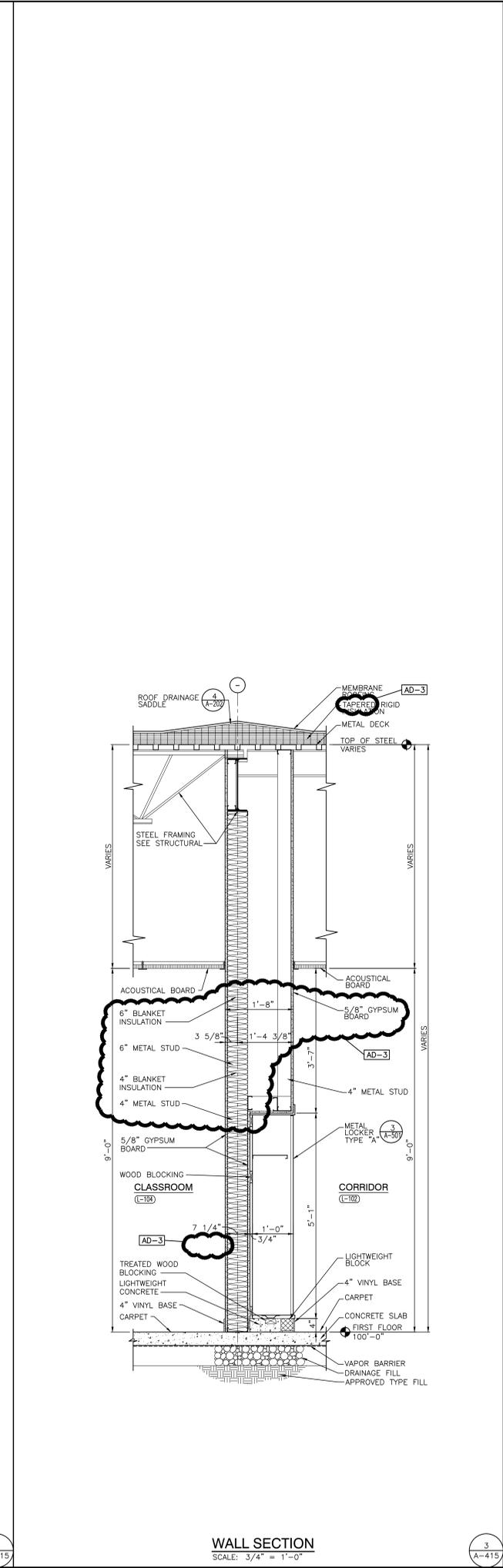
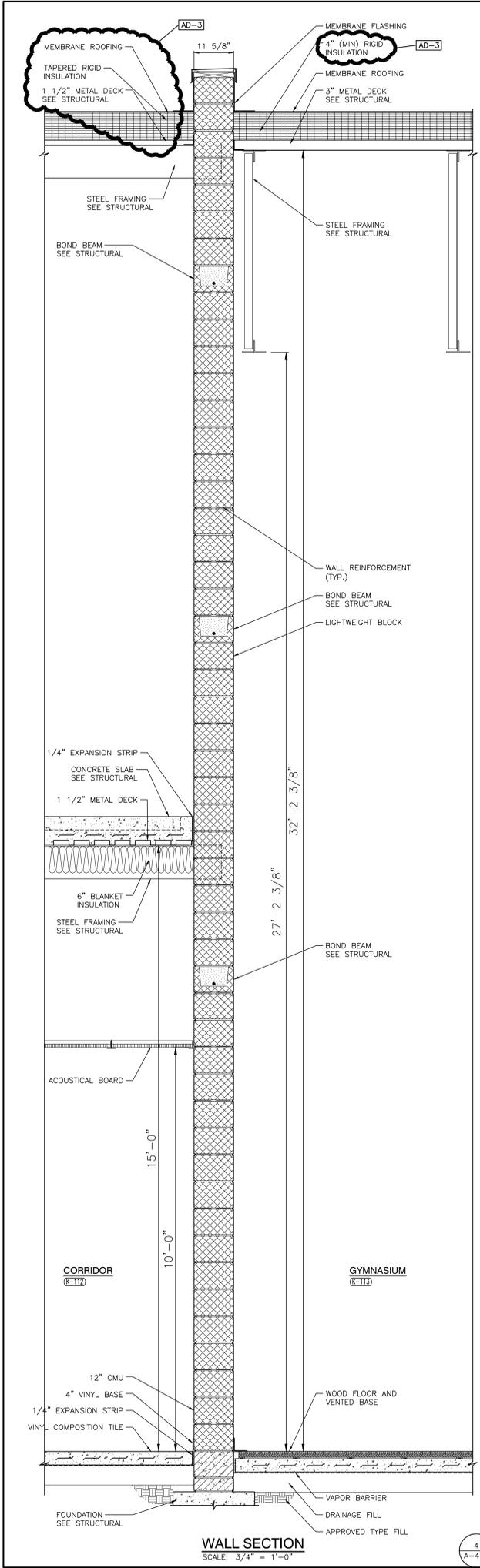


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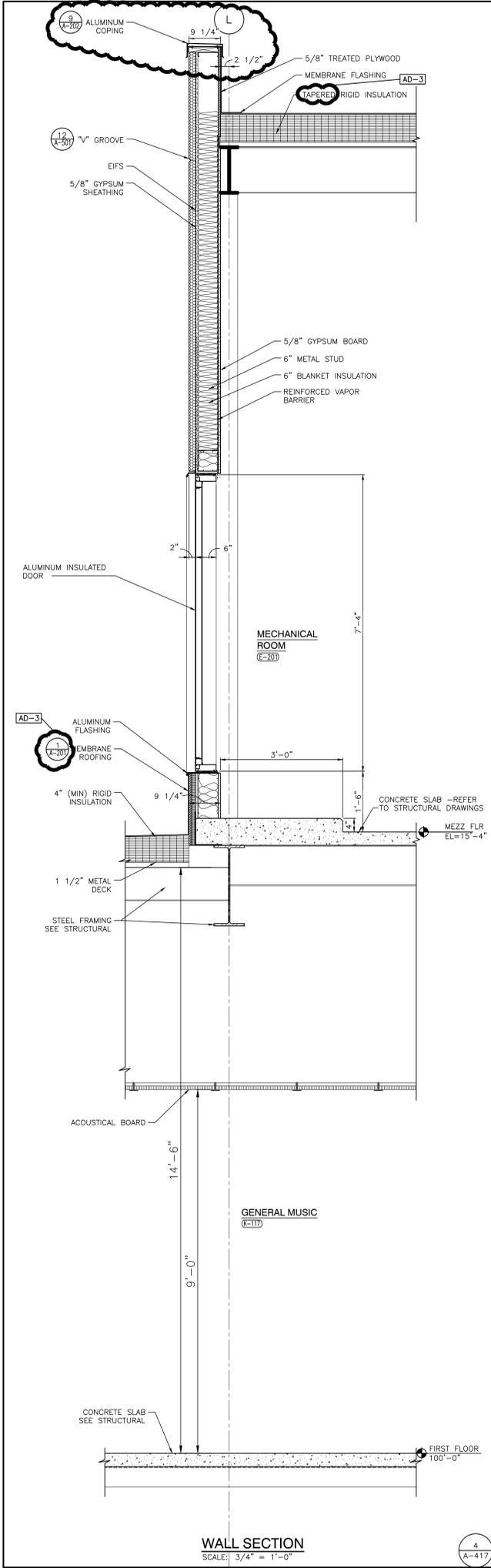
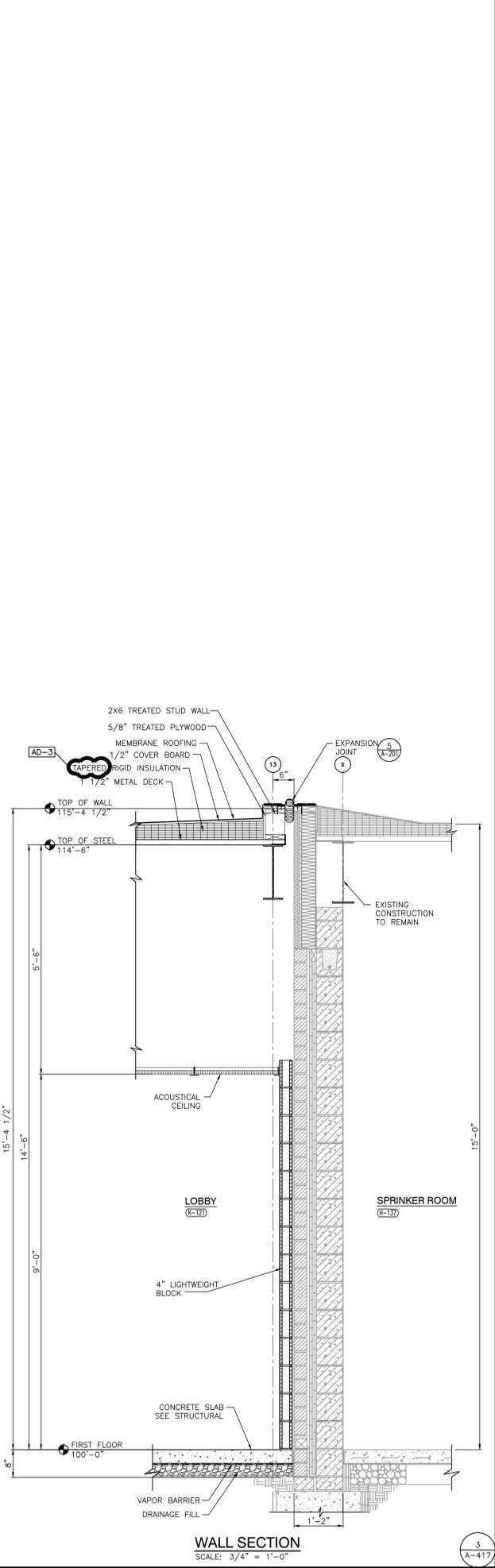
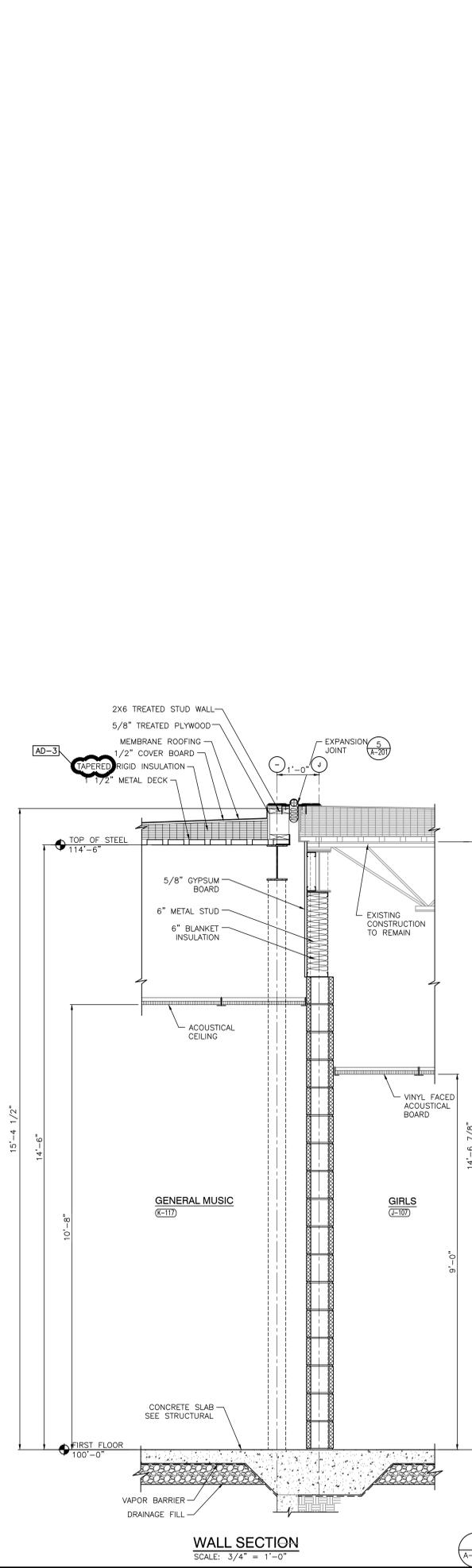
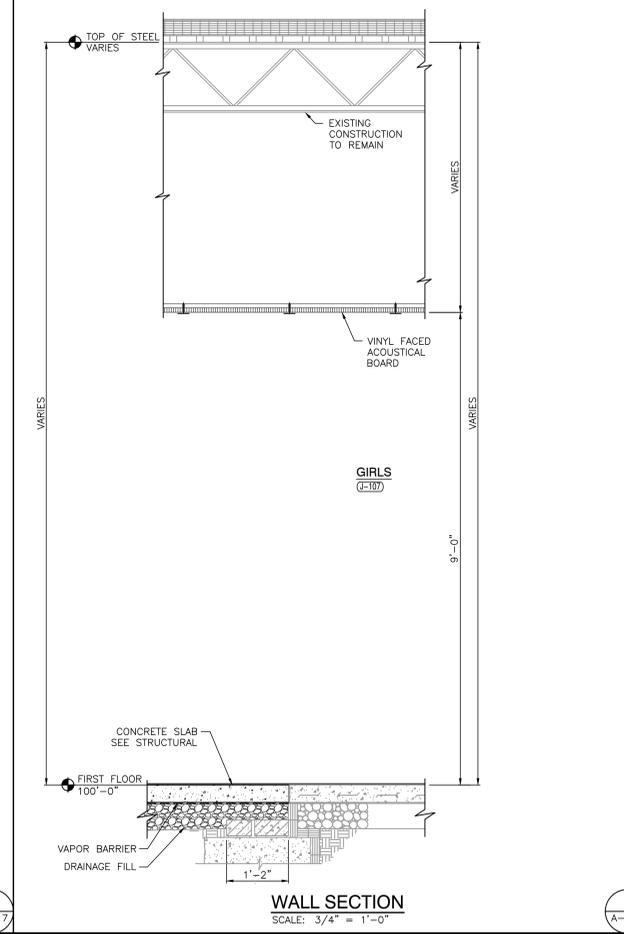
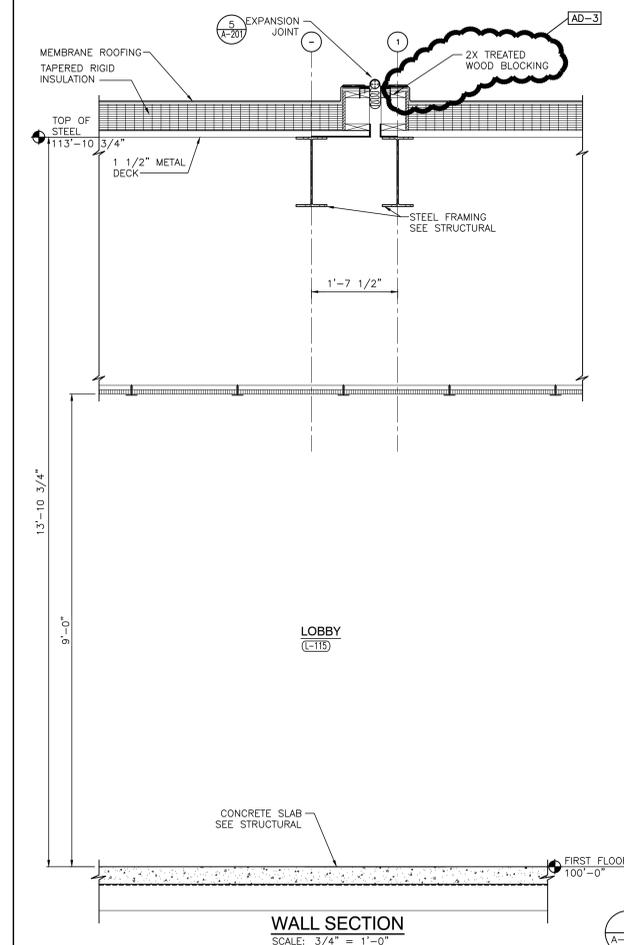


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MEDIA CENTER WOOD SHELVING SCHEDULE

MARK	CATALOG NUMBER	WIDTH	DESCRIPTION
L1	WS6312	37"	12"D X 63"H, SINGLE FACE STARTER UNIT
L2	WS6312A	36"	12"D X 63"H, SINGLE FACE ADDER UNIT
L3	WS4212	37"	12"D X 42"H, DOUBLE FACE STARTER UNIT
L4	WS4212A	36"	12"D X 42"H, DOUBLE FACE ADDER UNIT

MEDIA SHELVING GENERAL NOTES

- REFER TO ENLARGED PLAN FOR SHELVING LOCATIONS AND ADDITIONAL INFORMATION. REFER TO FINISH LEGEND ON A-820 FOR FINISH INFORMATION.
- FOR SCHEDULING PURPOSES ONLY, ALL MODEL NUMBERS HAVE BEEN TAKEN FROM WORDEN COMPANY. SEE SPECIFICATIONS FOR CONSTRUCTION METHODS.
- FIELD VERIFY ALL DIMENSIONS.
- VERIFY ALL DIMENSIONS WITH THE MANUFACTURER.
- ALL SHELVING IN ALL TYPES OF UNITS IN THE MEDIA CENTER SHALL BE WOOD.
- FILLER PANELS, TRIM, AND MOLDING PROVIDED SHALL BE CONTINUOUS AS NECESSARY TO MAKE SHELVING CONTINUOUS TO ADJACENT PARTITION. SHELVING MANUFACTURER/INSTALLER SHALL PROVIDE ALL FILLERS AND SCRIBES AS REQUIRED FOR A COMPLETE AND FINISHED SHELVING INSTALLATION.
- ALL ADJOINING CABINETS SHALL BE ALIGNED.
- ALL EXPOSED ENDS ARE TO BE FINISHED.
- WHERE SHIMMING IS REQUIRED, ONLY APPROVED METAL SHIMS SHALL BE USED.
- ALL SHELVING SHALL BE PROVIDED WITH WOOD BACKS AND ENDS TO MATCH THE SHELVING.
- ALL EDGES OF SHELVING SHALL BE SELECTED FROM MANUFACTURER'S STANDARD OPTIONS.
- ALIGN FRONTS OF ALL SHELVES.
- PROVIDE 4" HIGH TOE SPACE ON ALL SHELVING UNITS.
- PROVIDE PARTITIONS FOR ALL DOUBLE FACED SHELVING UNITS.

KEY NOTES (APPLIES TO MEDIA CENTER SHELVING)

- CONTINUOUS PLASTIC LAMINATE TOP, PL7 WITH 3MM PVC EDGE.

PLASTIC LAMINATE CASEWORK SCHEDULE

MARK	CATALOG NUMBER	WIDTH	DESCRIPTION
B1	10441	42"	24"D X 32"H TWO DOOR, TWO DRAWER WITH ADJUSTABLE SHELF
B2	10129	36"	24"D X 29"H TWO DOOR WITH ADJUSTABLE SHELF
B3	10129	33"	24"D X 29"H TWO DOOR WITH ADJUSTABLE SHELF
W1	16129	42"	14"D X 30"H TWO DOOR WITH ADJUSTABLE SHELVES, LOCKABLE
T1	26618	36"	24"D X 84"H WARDROBE (RIGHT SIDE MIRROR)
T2	26617	36"	24"D X 84"H TWO DOOR WITH ADJUSTABLE SHELVES
T3	26617	36"	24"D X 84"H WARDROBE (LEFT SIDE MIRROR)

GENERAL NOTES (APPLIES TO PLASTIC LAMINATE CASEWORK)

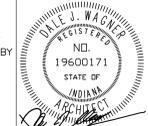
- REFER TO EQUIPMENT PLANS FOR CASEWORK LOCATIONS AND FINISH LEGEND IN "A-800" SERIES DRAWINGS FOR FINISH INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FOR SCHEDULING PURPOSES ONLY, MODEL NUMBERS ARE TAKEN FROM STEVENS INDUSTRIES, INC. (UNLESS NOTED OTHERWISE) AND ARE FOR CABINET REQUIREMENTS ONLY. SEE SPECIFICATIONS FOR CABINET CONSTRUCTION METHODS.
- VERIFY ALL PLAN AND CASEWORK DIMENSIONS WITH CASEWORK MANUFACTURER.
- ALL COUNTERTOPS TO BE PLASTIC LAMINATE WITH 4" HIGH PLASTIC LAMINATE BACKSPASH AND/OR ENDSPLASH AT ALL LOCATIONS WHERE COUNTERTOP MEETS ADJACENT SURFACE (UNLESS NOTED OTHERWISE).
- PROVIDE 3MM PVC EDGE ON ALL PLASTIC LAMINATED COUNTERTOPS AND BACKSPASHES.
- PROVIDE A 4" HIGH TOE SPACE ON ALL BASE AND FULL HEIGHT CABINETS.
- ALL EXPOSED CASEWORK SURFACES TO BE PLASTIC LAMINATE FINISHED, INCLUDING OPEN INTERIORS OF CABINETS (UNLESS NOTED OTHERWISE).
- ALL EXPOSED CASEWORK ENDS SHALL BE FINISHED TO MATCH CASEWORK FRONTS.
- PROVIDE CONTINUOUS PLASTIC LAMINATE SLOPED TOPS ON ALL WALL AND FULL HEIGHT CABINETS (UNLESS OTHERWISE NOTED).
- FILLER PANELS, TRIM, AND MOLDING PROVIDED SHALL BE CONTINUOUS AS NECESSARY TO MAKE CASEWORK CONTINUOUS TO ADJACENT PARTITION, CEILING, AND/OR BULKHEAD. CASEWORK MANUFACTURER / INSTALLER SHALL PROVIDE ALL FILLERS AND SCRIBES AS REQUIRED FOR A COMPLETE AND FINISHED CASEWORK INSTALLATION.
- ALL ADJOINING CABINETS SHALL BE ALIGNED.
- WHERE CASEWORK REQUIRES SHIMMING, PROVIDE ONLY APPROVED METAL SHIMS.
- CABINETS LOCATED IN FRONT OF A PIPE CHASE SHALL HAVE REMOVABLE BACKS.
- PROVIDE JOINT SEALANT AT ALL JUNCTIONS OF CASEWORK / COUNTERTOPS WITH ADJACENT WALL OR CASEWORK.
- PROVIDE 4" HIGH VINYL COVE BASE AT ALL TOE SPACE AREAS AND AT EXPOSED SURFACES AND SIDES OF CABINETS ADJACENT TO TOE SPACES. BY FLOORING INSTALLER.
- REFER TO ELECTRICAL DRAWINGS AND SCHEDULES FOR DEVICE TYPES, HEIGHTS AND LOCATIONS.
- REFER TO PLUMBING DRAWINGS AND SCHEDULES FOR FIXTURE TYPES AND LOCATIONS. REFER TO PLUMBING DRAWINGS FOR PLUMBING CONNECTIONS.
- ALL CUTTING, DRILLING AND PATCHING OF CASEWORK AND COUNTERTOPS AS REQUIRED FOR INSTALLATION OF PIPING OR CONDUIT SHALL BE BY CASEWORK MANUFACTURER / INSTALLER.
- REFER TO "G" SERIES SHEETS FOR MOUNTING HEIGHTS OF EQUIPMENT AND ACCESSORIES.
- ONLY WARDROBE CABINETS TO BE LOCKING.

KEY NOTES (APPLIES TO PLASTIC LAMINATE CASEWORK)

- | | |
|--|--|
| 1 LINE OF FINISHED FLOOR | 13 COFFEE MAKER, BY OWNER |
| 2 WALL LINE | 14 FINISHED BACK/END PANEL |
| 3 CEILING LINE | 15 HOT DOG WARMER, BY OWNER |
| 4 NOT USED ---- | 16 POPCORN MACHINE, BY OWNER |
| 5 PASS THRU WINDOW, REFER TO FLOOR PLAN | 17 FILLER PANEL FINISHED TO MATCH FACE OF CABINETS |
| 6 4" TOE SPACE WITH VINYL BASE BY FLOORING INSTALLER | 18 PRINTER, BY OWNER |
| 7 KNEE SPACE | 19 METAL SUPPORT BRACKETS, BY CASEWORK INSTALLER |
| 8 SLOPED TOP (CONTINUOUS) | 20 SUPPORT LEG, FINISH TO MATCH CASEWORK |
| 9 25"D COUNTERTOP WITH 4" BACKSPASH UNLESS NOTED OTHERWISE | 21 16"D PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPASH UNLESS NOTED OTHERWISE |
| 10 30"D COUNTERTOP WITH 4" BACKSPASH AND SIDESPLASH UNLESS NOTED OTHERWISE | 22 14"D SOLID SURFACE COUNTERTOP |
| 11 REFRIGERATOR, BY OWNER | |
| 12 MICROWAVE, BY OWNER | |

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Indianapolis, IN 46260
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Email info@GibraltarDesign.com
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PROJECT
21-155
DATE
05/23/22
COORDINATED BY
DJW
DRAWN BY
EKM
CHECKED BY
NAS



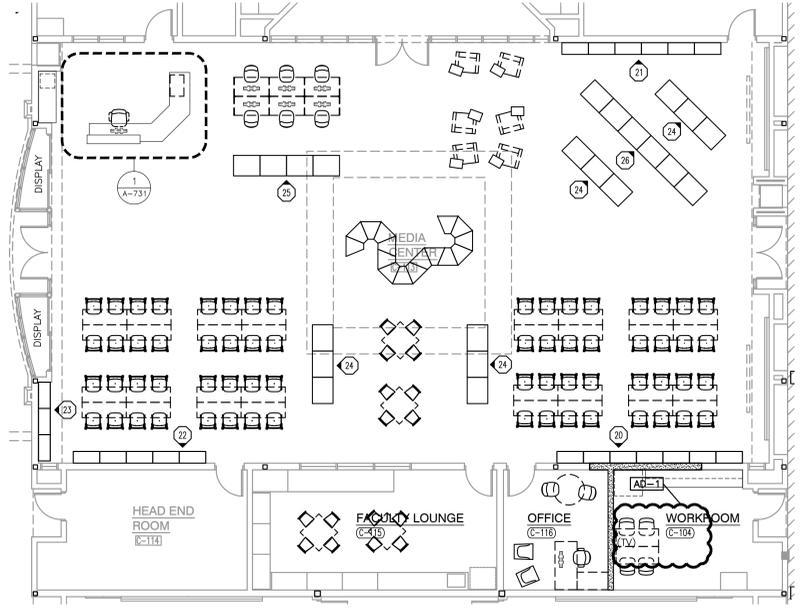
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REVISIONS

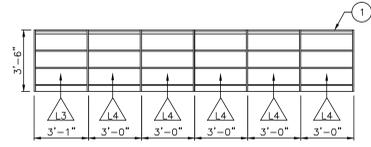
MARK	DATE	ISSUED FOR
AD-3	06/30/22	ADDENDUM NO.3

DRAWING
PLASTIC LAMINATE
CASEWORK SCHEDULE AND
ELEVATIONS

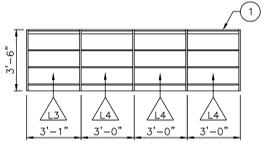
PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL



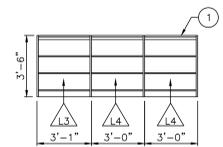
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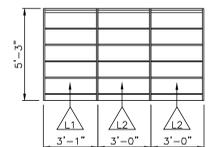
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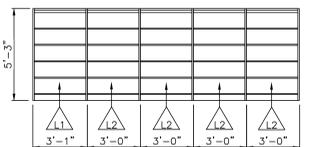
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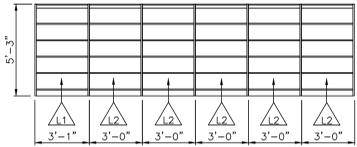
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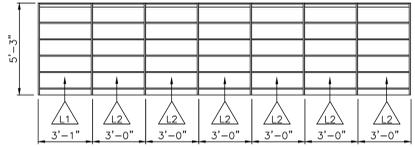
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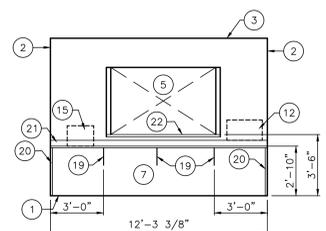
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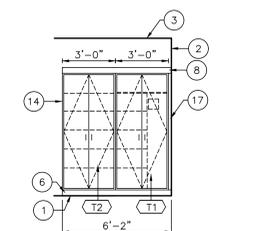
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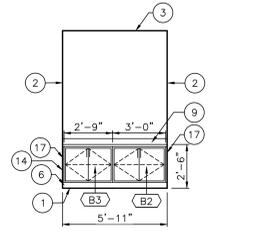
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ROOM: C-113



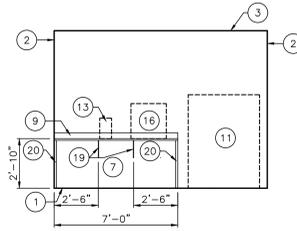
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ROOM: K-118



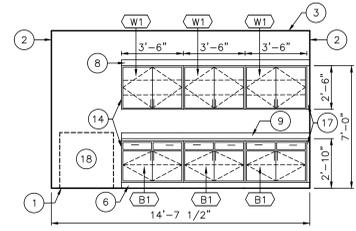
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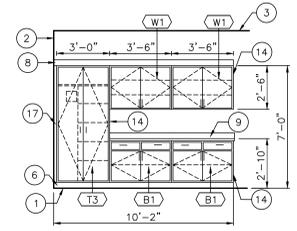
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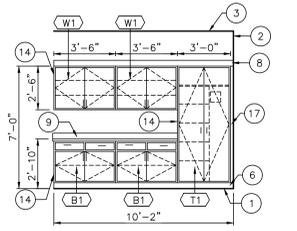
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SCALE: 1/4"=1'-0"
ROOM: K-118



ELEVATION CABINETS: PL3
SCALE: 1/4"=1'-0"
ROOM: C-104



ELEVATION CABINETS: PL1
SCALE: 1/4"=1'-0"
ROOM: L-105, L-106, L-107, L-114, M-103, M-104, M-108



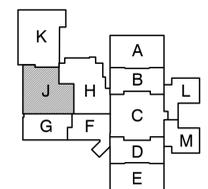
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ROOM: L-103, L-104, L-108, M-105, M-106, M-107, M-115

Thursday, 6/30/2022 8:56 AM - LAST SAVED BY: EMOQUEEN
Y:\21-155 FRANKLIN TOWNSHIP (SC-EDGEWOOD) IS
ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
ARCH\A-730.DWG



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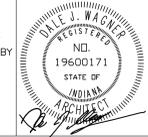
PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA



FIRST FLOOR KEY PLAN

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Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
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PROJECT: 21-155
DATE: 05/23/22
COORDINATED BY: DJW
DRAWN BY: EKM
CHECKED BY: NAS



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MARK	DATE	ISSUED FOR
AD-3	06/30/22	ADDENDUM NO.3

DRAWING
UNIT "J" FIRST FLOOR FINISH PLAN

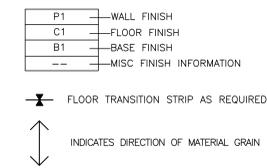
PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

GIBRALTAR DESIGN SHEET
J A-810

GENERAL FINISH PLAN NOTES:

- REFERENCE WRITTEN SPECIFICATIONS, FINISH LEGEND, FLOOR PATTERN PLANS, EQUIPMENT PLANS, INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION.
- 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.
- PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.
- 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 MANUFACTURE'S RECOMMENDED METHOD.
- FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.
- ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.
- ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC. THAT ARE NOTED TO BE PAINTED, SHALL BE PAINTED WITH ALKID TYPE PAINT. COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.
- 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.
- 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.

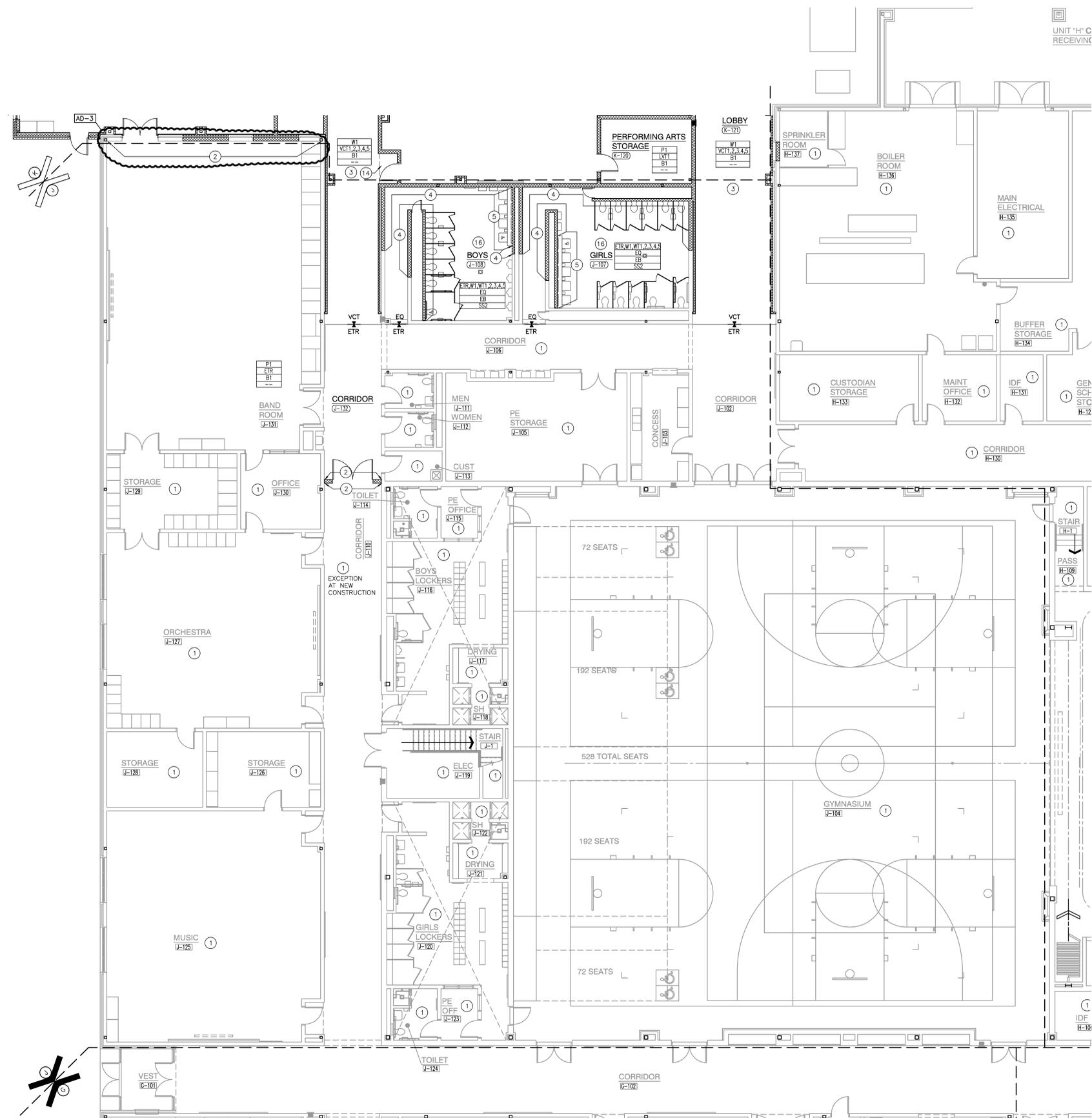
FINISH SYMBOL LEGEND:



FINISH PLAN NOTES:

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

- NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE NEW FINISHES.
- MATCH EXISTING WALL FINISHES: NEW WALL PAINT AND NEW BASE.
- FLOOR PATTERN - REFER TO FLOOR PATTERN PLANS.
- WALL TILE TO BE APPLIED TO 5'-2" A.F.F. WALLCOATING, W1 ABOVE TILE. REFER TO FINISH LEGEND AND TYPICAL TILE ELEVATION 13/A-852.
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 11/A-852.
- PAINT ALL EXPOSED ROOF DECK, JOIST, MECHANICAL AND ELECTRICAL PIPING CONDUIT AND DUCTWORK PAINT P10.
- WALLCOATING, W5
- WALLCOATING, W4
- WALL TILE, W1
- PAINTED STRIPE - REFER TO 8/A-852
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 10/A-852.
- WALLCOATING, W1
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 12/A-852.
- BULKHEAD TO BE PAINTED P2.
- WALLCOATING, W2
- SCHLUTER TRIM AT ALL TILE OUTSIDE CORNERS.
- WHERE NOT IDENTIFIED, PAINT W1.
- BASE BID: ETR
ALTERNATE BID: NEW CARPET AND WALL BASE, B1
- WALL BASE, B1 OUTSIDE OF CONCRETE CURB.



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

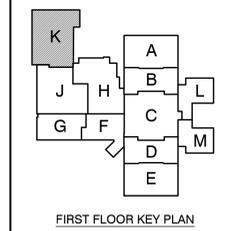


Monday, 6/27/2022 - 3:51 PM - LAST SAVED BY: EMMOQUEEN
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 ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
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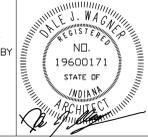
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PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA



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PROJECT: 21-155
DATE: 05/23/22
COORDINATED BY: DJW
DRAWN BY: EKM
CHECKED BY: NAS



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REVISIONS	MARK	DATE	ISSUED FOR
AD-3	06/30/22	ADDENDUM NO.3	

DRAWING
UNIT "K" FIRST FLOOR FINISH PLAN

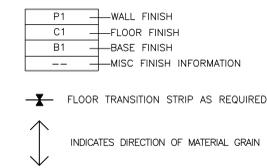
PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

GIBRALTAR DESIGN SHEET
K A-811

GENERAL FINISH PLAN NOTES:

- REFERENCE WRITTEN SPECIFICATIONS, FINISH LEGEND, FLOOR PATTERN PLANS, EQUIPMENT PLANS, INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION.
- 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.
- PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.
- 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 MANUFACTURE'S RECOMMENDED METHOD.
- FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.
- ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.
- 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.
- 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.
- 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.

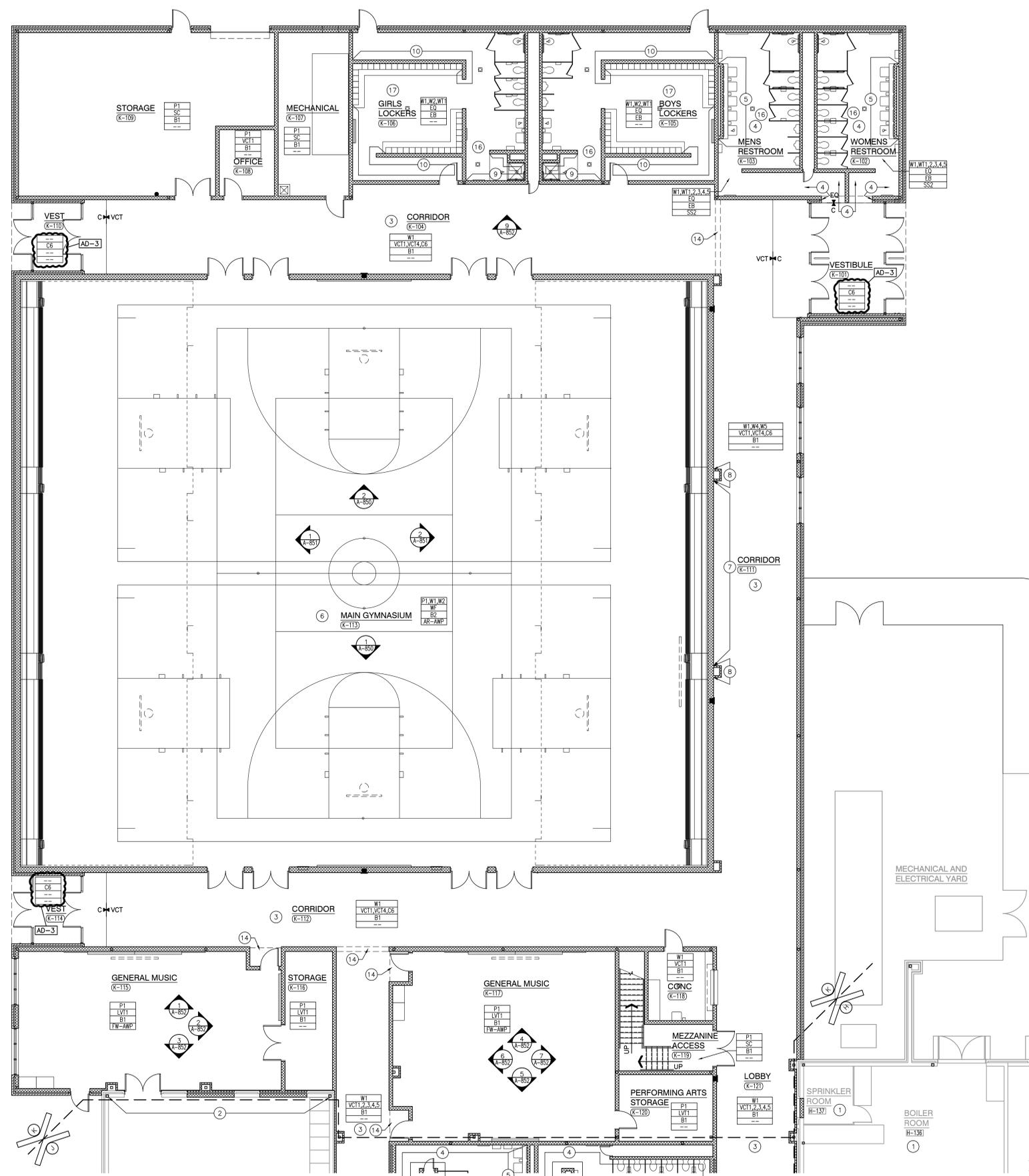
FINISH SYMBOL LEGEND:



FINISH PLAN NOTES:

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

- NO NEW FINISHES THIS ROOM, EXCLUDING DOOR FRAMES CONNECTED TO OTHER ROOMS THAT RECEIVE NEW FINISHES.
- MATCH EXISTING WALL FINISHES: NEW WALL PAINT AND NEW BASE.
- FLOOR PATTERN - REFER TO FLOOR PATTERN PLANS.
- WALL TILE TO BE APPLIED TO 5'-2" A.F.F. WALLCOATING, W1 ABOVE TILE. REFER TO FINISH LEGEND AND TYPICAL TILE ELEVATION 13/A-852.
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 11/A-852.
- PAINT ALL EXPOSED ROOF DECK, JOIST, MECHANICAL AND ELECTRICAL PIPING CONDUIT AND DUCTWORK PAINT P10.
- WALLCOATING, W5
- WALLCOATING, W4
- WALL TILE, W1
- PAINTED STRIPE - REFER TO 8/A-852
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 10/A-852.
- WALLCOATING, W1
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 12/A-852.
- BULKHEAD TO BE PAINTED P2.
- WALLCOATING, W2
- SCHLUTER TRIM AT ALL TILE OUTSIDE CORNERS.
- WHERE NOT IDENTIFIED, PAINT W1.
- BASE BID: ETR
- ALTERNATE BID: NEW CARPET AND WALL BASE, B1
- WALL BASE, B1 OUTSIDE OF CONCRETE CURB.



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



Monday, 6/27/2022 - 3:51 PM - LAST SAVED BY: EMOUCOEN
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 ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
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DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA

GENERAL FINISH PLAN NOTES:

- REFERENCE WRITTEN SPECIFICATIONS, FINISH LEGEND, FLOOR PATTERN PLANS, EQUIPMENT PLANS, INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION.
- 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.
- PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURE'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.
- 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.
- FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIAL INCLUDING NOTATION OF MATERIAL DIRECTION.
- ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.
- 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.
- 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.
- 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.

FINISH SYMBOL LEGEND:

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

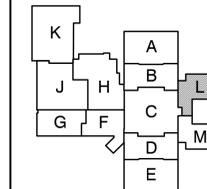
FLOOR TRANSITION STRIP AS REQUIRED

INDICATES DIRECTION OF MATERIAL GRAIN

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- WALL TILE TO BE APPLIED TO 5'-2" A.F.F. WALLCOATING, W1 ABOVE TILE. REFER TO FINISH LEGEND AND TYPICAL TILE ELEVATION 13/A-852.
- WALL TILE TO BE APPLIED FULL HEIGHT OF WALL - REFER TO FINISH LEGEND AND ELEVATION 11/A-852.
- PAINT ALL EXPOSED ROOF DECK, JOIST, MECHANICAL AND ELECTRICAL PIPING CONDUIT AND DUCTWORK PAINT P10.
- WALLCOATING, W5
- WALLCOATING, W4
- WALL TILE, W1
- PAINTED STRIPE - REFER TO 8/A-852
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- BULKHEAD TO BE PAINTED P2.
- WALLCOATING, W2
- SCHLUTER TRIM AT ALL TILE OUTSIDE CORNERS.
- WHERE NOT IDENTIFIED, PAINT W1.
- BASE BID: ETR
- ALTERNATE BID: NEW CARPET AND WALL BASE, B1
- WALL BASE, B1 OUTSIDE OF CONCRETE CURB.

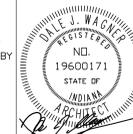


FIRST FLOOR KEY PLAN

GIBRALTAR DESIGN

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Indianapolis, IN 46260
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Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT
21-155
DATE
05/23/22
COORDINATED BY
DJW
DRAWN BY
EKM
CHECKED BY
NAS



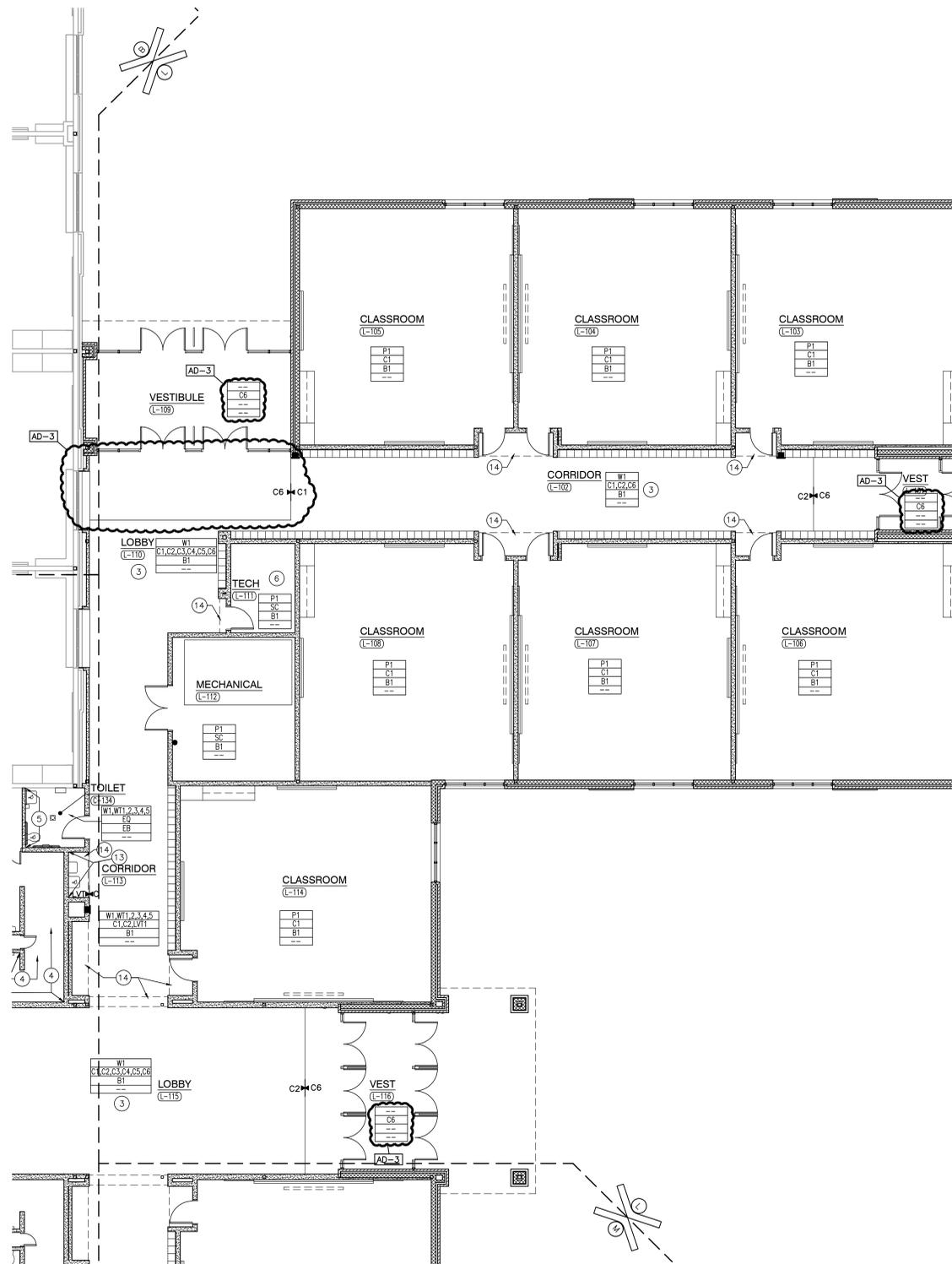
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REVISIONS	MARK	DATE	ISSUED FOR
	AD-3	06/30/22	ADDENDUM NO.3

DRAWING
UNIT "L" FIRST FLOOR FINISH PLAN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

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UNIT "L" FIRST FLOOR FINISH PLAN

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

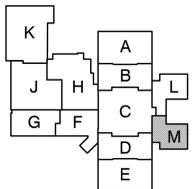


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 ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
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FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA



FIRST FLOOR KEY PLAN

GIBRALTAR DESIGN

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Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT: 21-155
DATE: 05/23/22
COORDINATED BY: DJW
DRAWN BY: EKM
CHECKED BY: NAS



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REVISIONS	MARK	DATE	ISSUED FOR
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DRAWING
UNIT "M" FIRST FLOOR FINISH PLAN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

© GIBRALTAR DESIGN SHEET
M A-814

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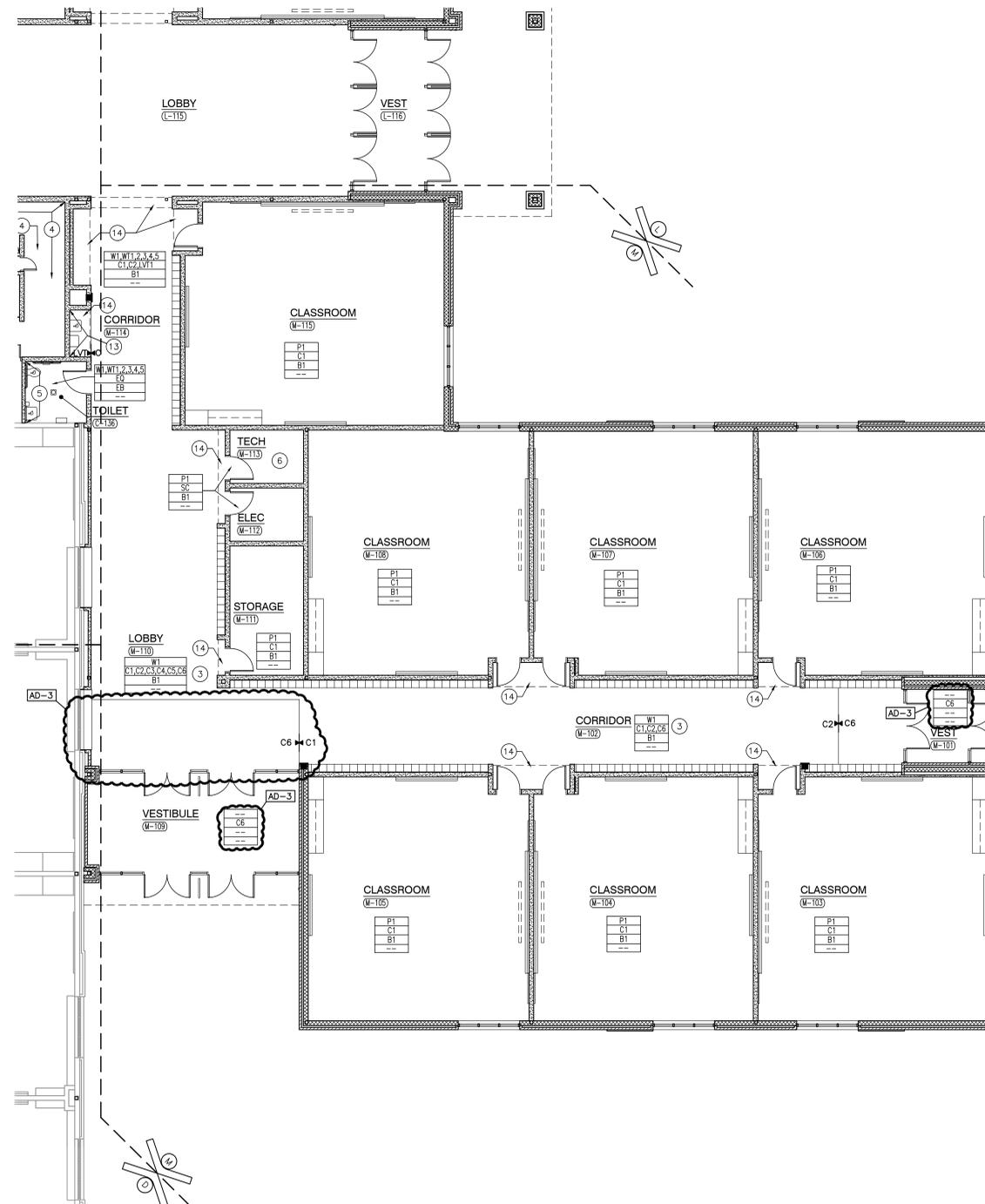
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- BULKHEAD TO BE PAINTED P2.
- WALLCOATING, W2
- SCHLUTER TRIM AT ALL TILE OUTSIDE CORNERS.
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- BASE BID: ETR
- ALTERNATE BID: NEW CARPET AND WALL BASE, B1
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UNIT "M" FIRST FLOOR FINISH PLAN

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



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FINISH LEGEND

SURFACE	MARK	DESCRIPTION	MANUFACTURER	PATTERN/FINISH	NUMBER/COLOR	SIZE	COMMENTS
CEILING MATERIALS							
ACT1		ACOUSTICAL CEILING TILE	--	--	--	24" X 24"	--
ACT2		ACOUSTICAL CEILING TILE	--	--	--	24" X 24"	--
ACT3		ACOUSTICAL CEILING TILE	--	--	--	24" X 24"	--
P10		PAINT	SHERWIN WILLIAMS	--	CEILING BRIGHT WHITE SW7007	--	--
WALL BASE							
B1		VINYL BASE	TARKETT	--	BLACK	AD-3 4" COVE	--
B2		VINYL BASE	TARKETT	--	BLACK	4" VENTED	--
TB		TILE BASE	CROSSVILLE	CROSS COLORS MINGLES	GRAPHITE UNPOLISHED AB50	6" COVE	COVE BASE TO BE INTEGRAL WITH FLOOR TILE
EB		EPOXY BASE	SHERWIN WILLIAMS	DECO QUARTZ	MIDNIGHT BC23	6" H	--
FLOOR MATERIALS							
C1		CARPET TILE	INTERFACE	CUBIC	BALANCE	50X50CM	INSTALL METHOD: MATCH EXISTING
C2		CARPET TILE	INTERFACE	MONOCHROME	FLAG BLUE	50X50CM	INSTALL METHOD: MATCH EXISTING
C3		CARPET TILE	INTERFACE	MONOCHROME	LILAC HAZE	50X50CM	INSTALL METHOD: MATCH EXISTING
C4		CARPET TILE	INTERFACE	MONOCHROME	MEDICI BLUE	50X50CM	INSTALL METHOD: MATCH EXISTING
C5		CARPET TILE	INTERFACE	MONOCHROME	JUNIPER	50X50CM	INSTALL METHOD: MATCH EXISTING
C6		CARPET TILE	INTERFACE	STEP REPEAT	ONYX	50X50CM	WALKOFF
LVT1		LUXURY VINYL TILE	INTERFACE	STUDIO SET A007	PEWTER A00702	--	--
LVT2		LUXURY VINYL TILE	INTERFACE	STUDIO SET A007	OCEAN A00709	--	--
VCT1		VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON	ANTIQUE WHITE 51811	12"x12"	--
VCT2		VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON	SERENE BLUE 51882	12"x12"	--
VCT3		VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON	WINEBERRY 57545	12"x12"	--
VCT4		VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON	GENETIAN BLUE 51946	12"x12"	--
VCT5		VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON	SILVER GREEN 51802	12"x12"	--
FT1		PORCELAIN TILE	CROSSVILLE	CROSS COLORS MINGLES	GRAPHITE UNPOLISHED AB50	8"x8"	--
EQ		EPOXY RESINOUS FLOOR	SHERWIN WILLIAMS	DECO QUARTZ	MIDNIGHT BC23	--	--
SC		SEALED CONCRETE	--	--	--	--	--
WF		WOOD FLOOR	--	--	--	--	--
WALL MATERIALS							
P1		PAINT	BENJAMIN MOORE	--	ASHWOOD OC-47	--	--
P2		PAINT	SHERWIN WILLIAMS	--	DENIM SW6523	--	--
P3		PAINT	BENJAMIN MOORE	--	SHADOW 2117-30	--	--
P4		PAINT	BENJAMIN MOORE	--	DEEP ROYAL 2061-10	--	--
AD-3 P5		PAINT	SHERWIN WILLIAMS	--	MORNING FOG SW6255	--	--
P6		PAINT	SHERWIN WILLIAMS	--	GIBRALTAR SW6257	--	--
P7		PAINT	BENJAMIN MOORE	--	BLACK 2123-10	--	DOOR FRAMES
W1		WALL COATING	BENJAMIN MOORE	--	ASHWOOD OC-47	--	--
W2		WALL COATING	SHERWIN WILLIAMS	--	DENIM SW6523	--	--
W3		NOT USED	--	--	--	--	--
W4		WALL COATING	BENJAMIN MOORE	--	DEEP ROYAL 2061-10	--	--
W5		WALL COATING	SHERWIN WILLIAMS	--	MORNING FOG SW6255	--	--
WT1		CERAMIC WALL TILE	DALTILE	COLORWHEEL	BISCUIT K175, GLOSSY	4"x4"	--
WT2		CERAMIC WALL TILE	DALTILE	COLORWHEEL	SEA BREEZE 1174, GLOSSY	4"x4"	--
WT3		CERAMIC WALL TILE	DALTILE	COLORWHEEL	PLUM CRAZY 1178, GLOSSY	4"x4"	--
WT4		CERAMIC WALL TILE	DALTILE	COLORWHEEL	NAVY K189, GLOSSY	4"x4"	--
WT5		CERAMIC WALL TILE	DALTILE	COLORWHEEL	OCEAN BLUE 1049, GLOSSY	4"x4"	--
FW-AWP1		ACOUSTICAL PANEL	GUILFORD OF MAINE	FR701/2001	BAYBERRY 486	--	--
FW-AWP2		ACOUSTICAL PANEL	GUILFORD OF MAINE	FR701/2001	AMETHYST 424	--	--
FW-AWP3		ACOUSTICAL PANEL	GUILFORD OF MAINE	FR701/2001	BLUE PLUM 553	--	--
FW-AWP4		ACOUSTICAL PANEL	GUILFORD OF MAINE	FR701/2001	AQUAMARINE 381	--	--
AR-AWP1		ACOUSTICAL PANEL	TECTUM	--	P1	--	--
AR-AWP2		ACOUSTICAL PANEL	TECTUM	--	P2	--	--
AR-AWP3		ACOUSTICAL PANEL	TECTUM	--	P3	--	--
AR-AWP4		ACOUSTICAL PANEL	TECTUM	--	P4	--	--
AR-AWP5		ACOUSTICAL PANEL	TECTUM	--	P1	--	--
CASEWORK AND MILLWORK							
PL1 AD-3		PLASTIC LAMINATE	NEVAMAR	--	LINO FRIEZE F22001T	--	--
PL2		PLASTIC LAMINATE	WILSONART	--	NAVY LEGACY 4651-BU	--	--
PL3		PLASTIC LAMINATE	WILSONART	--	WILD CHERRY 7054-60	--	--
PL4		PLASTIC LAMINATE	FORMICA	--	FOLKSTONE CELESTA 692-58	--	--
PL5		PLASTIC LAMINATE	PIONITE	--	SABLE AG021SD	--	--
PL6		PLASTIC LAMINATE	WILSONART	--	WOOLAMAI BRUSH 4746-60	--	--
PL7		PLASTIC LAMINATE	WILSONART	--	ATLANTIS D25-60	--	--
SS1		SOLID SURFACE	WILSONART	--	BLUESTONE 9074EA	--	--
SS2		SOLID SURFACE	WILSONART	--	HIDDEN SPACE 9227SS	--	--
SS3		SOLID SURFACE	CORIAN	--	LAGUNA	--	WINDOW STOOL
MISCELLANEOUS							
CG		CORNER GUARD	--	--	--	--	--
L1		LOCKERS	LYON	--	STEEL BLUE	--	--
TP		TOILET PARTITION	ASI ACCURATE PARTITIONS	PEBBLE GRAINED	AZURE 9231	--	--
TRIM1		METAL TRIM	SCHLUTER	RONDEC	ALUMINUM	--	--
SC		SAFETY CUSHION	--	--	BLUE	--	--
		BLEACHER SEAT	HUSSEY	--	BLUE 301	--	--
		WOOD DOOR	--	--	MATCH EXISTING	--	--
		WOOD TRIM	--	--	MATCH EXISTING	--	--

ETR = EXISTING TO REMAIN

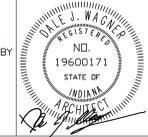


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PROJECT 21-155
DATE 05/23/22
COORDINATED BY DJW
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	AD-3	06/30/22	ADDENDUM NO.3

DRAWING
FINISH LEGEND

PROJECT
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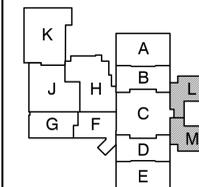
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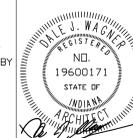
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FIRST FLOOR KEY PLAN

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DRAWING
UNITS "L" AND "M" FIRST FLOOR PATTERN PLAN

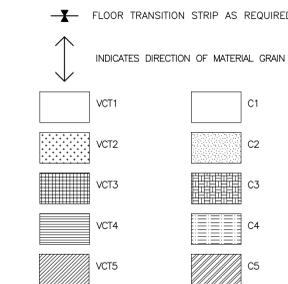
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GENERAL PATTERN PLAN NOTES:

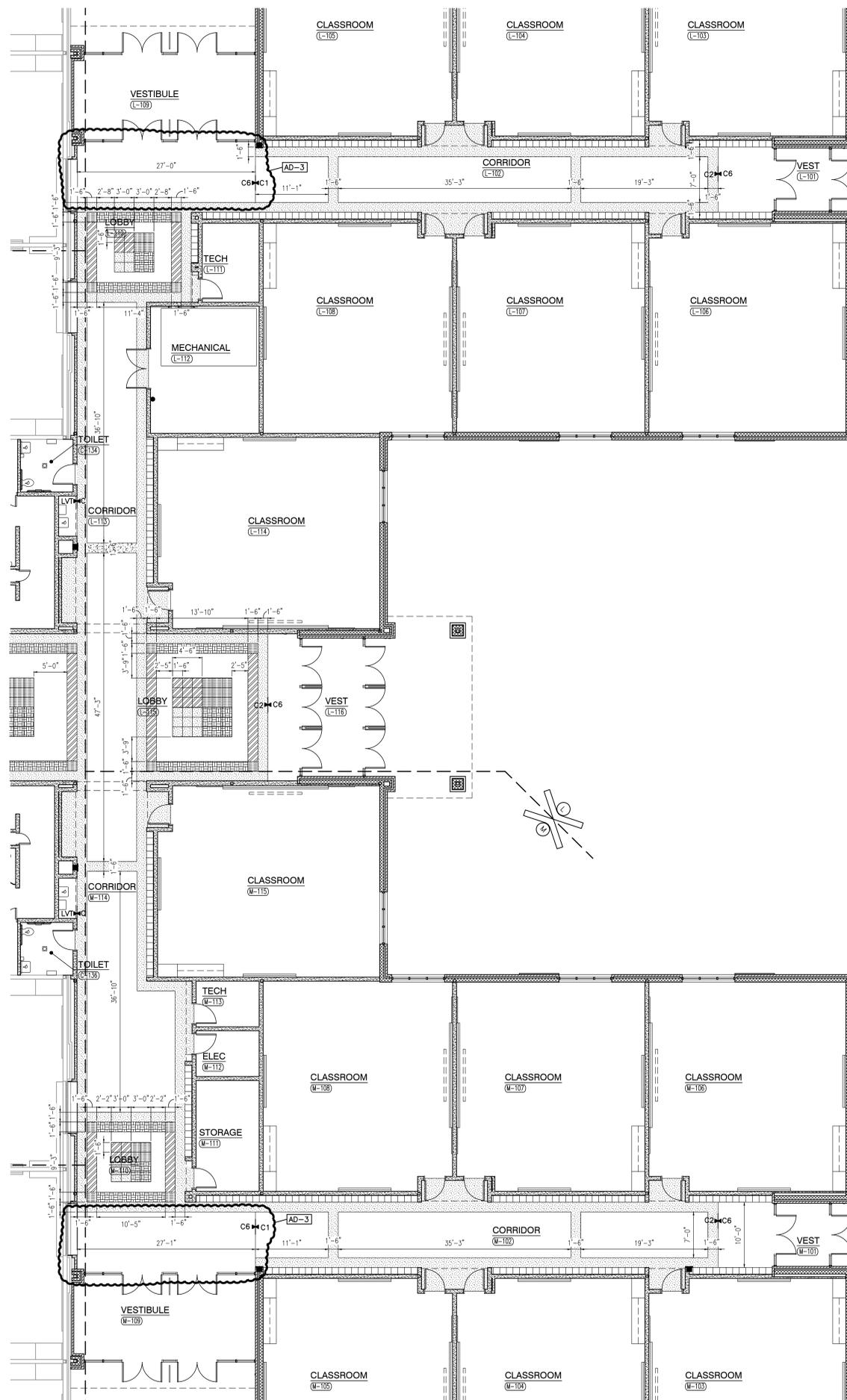
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- E. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.
- F. CORRIDOR BORDER TILE ARE TYPICAL OF AT LEAST ONE FULL TILE WIDTH. WITH FIELD TILE. VCT1, CENTERED WITHIN CORRIDOR WIDTH. A FEW EXCEPTIONS AT CORRIDOR WIDTH CHANGE - REFER TO FLOOR PATTERN PLAN FOR MORE DETAIL.

FLOOR PATTERN LEGEND:



FLOOR PATTERN PLAN NOTES:

- (ALL PLAN NOTES MAY NOT BE INDICATED ON THIS PLAN)
- ① BASE BID: ETR
ALTERNATE BID: NEW CARPET AND WALL BASE, B1

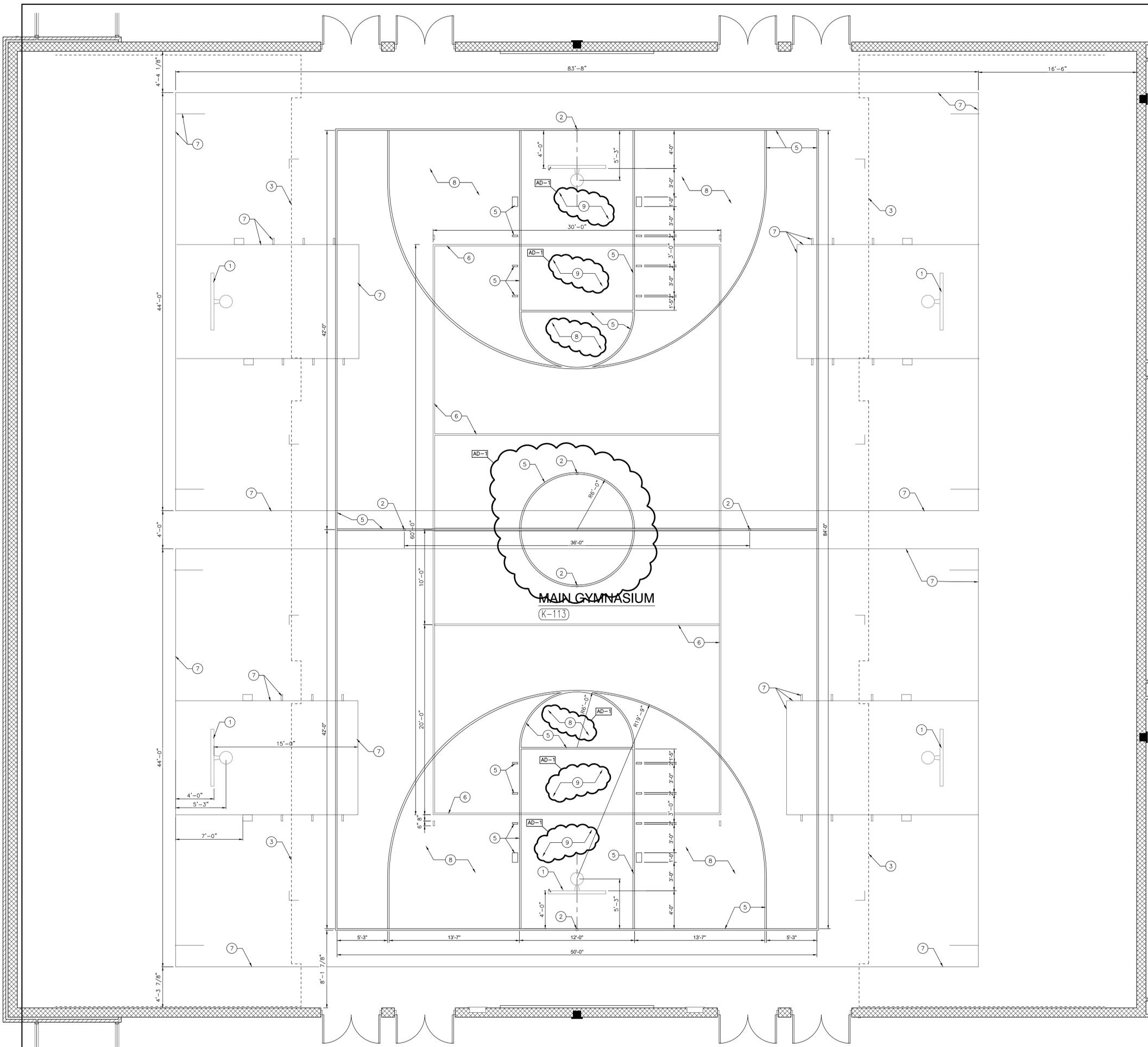


UNITS "L" AND "M" FIRST FLOOR PATTERN PLAN

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



Monday, 6/27/2022 - 3:52 PM - LAST SAVED BY: EKM
 Y:\21-155 FRANKLIN TOWNSHIP CSC-EDGEWOOD IS
 ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
 ARCH\A-834.DWG



GENERAL COURT MARKING PLAN 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. 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.
- E. VERIFY DIMENSIONS AND LINE THICKNESS SHOWN WITH CURRENT INDIANA HIGH SCHOOL ATHLETIC ASSOCIATION (IHSA) STANDARDS.
- F. PRIMARY FINISH IS CLEAR STAIN COAT.
- G. PROVIDE ACCENT STAIN COLOR WHERE NOTED.
- H. VERIFY FINAL LAYOUT AND FINISH COLOR WITH OWNER PRIOR TO INSTALLATION.

COURT MARKING PLAN NOTES:

- 1 BASKETBALL BACKSTOP REFER TO EQUIPMENT PLANS.
- 2 FLOORPLATE/SLEEVE FOR VOLLEYBALL OR TENNIS NET UPRIGHTS.
- 3 BLEACHERS, REFER TO EQUIPMENT PLANS.

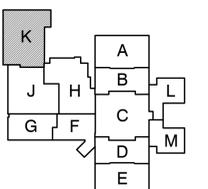
COURT MARKING FINISH NOTES:

- 5 2" MAIN BASKETBALL COURT LINES, BLACK.
- 6 2" VOLLEYBALL COURT LINES, WHITE.
- 7 2" CROSS BASKETBALL COURT LINES, BLUE.
- 8 WOOD STAIN (CUSTOM COLOR).
- 9 PAINT (CUSTOM COLOR, COLOR PROVIDED BY OWNER).



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PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA



FIRST FLOOR KEY PLAN

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PROJECT: 21-155
DATE: 05/23/22
COORDINATED BY: DJW
DRAWN BY: EKM
CHECKED BY: NAS, DJW

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MARK	DATE	ISSUED FOR
AD-1	06/16/22	ADDENDUM NO.1
AD-3	06/30/22	ADDENDUM NO.3

DRAWING
GYMNASIUM COURT MARKING PLAN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

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A-840

GYMNASIUM COURT MARKING PLAN
SCALE: 1/4" = 1'-0"

1
A-840

Wednesday, 6/29/2022 - 3:28 PM - LAST SAVED BY:EMCQUEEN
Y:\21-155 FRANKLIN TOWNSHIP CSC-EDGEWOOD IS
ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\05
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PROJECT
ADDITIONS AND
RENOVATIONS TO
**EDGEWOOD
INTERMEDIATE
SCHOOL**
FRANKLIN TOWNSHIP COMMUNITY
SCHOOL CORPORATION
INDIANAPOLIS, INDIANA

GENERAL INTERIOR ELEVATION 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 CONSIDERED 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 ALKYLID 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 NOTES:

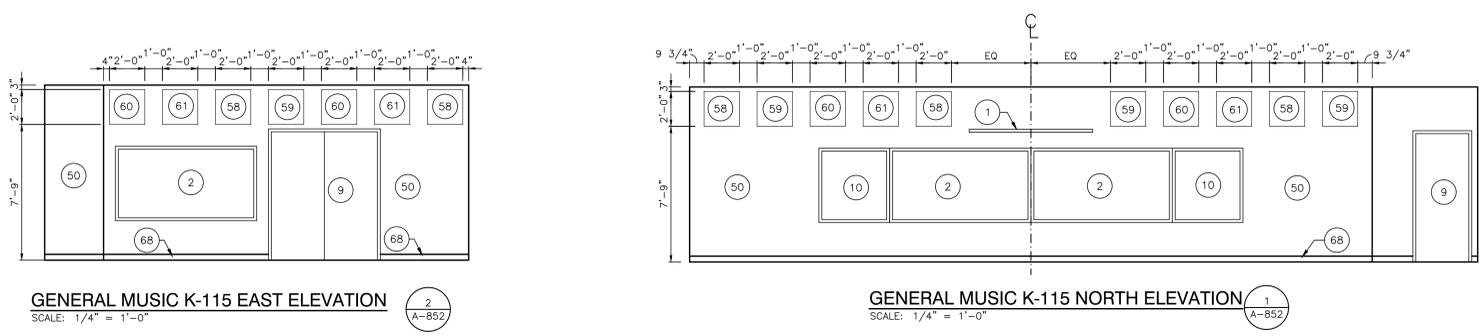
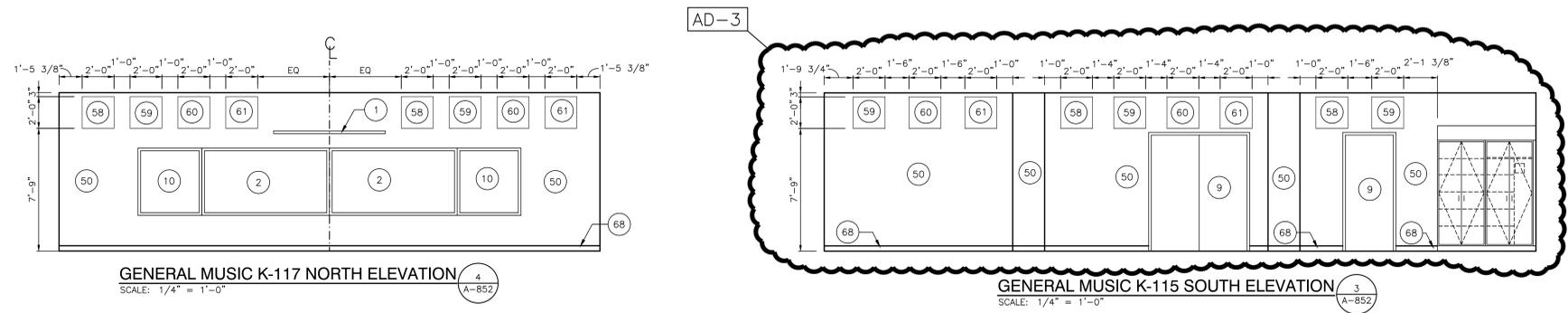
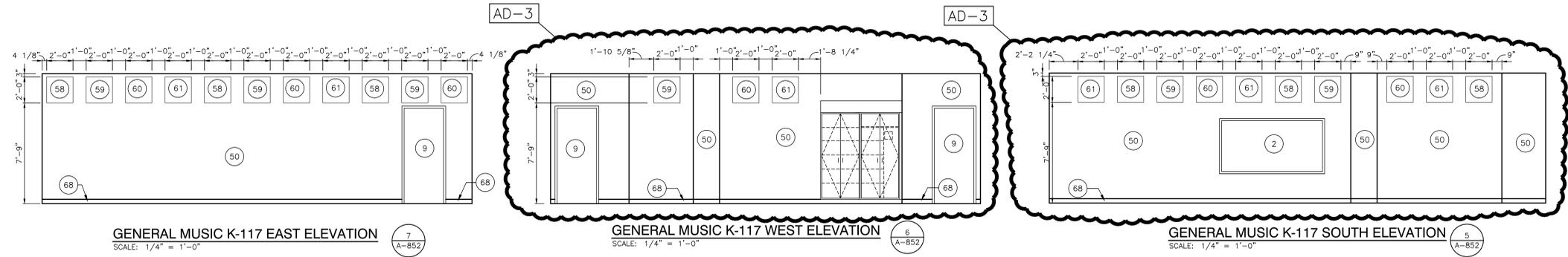
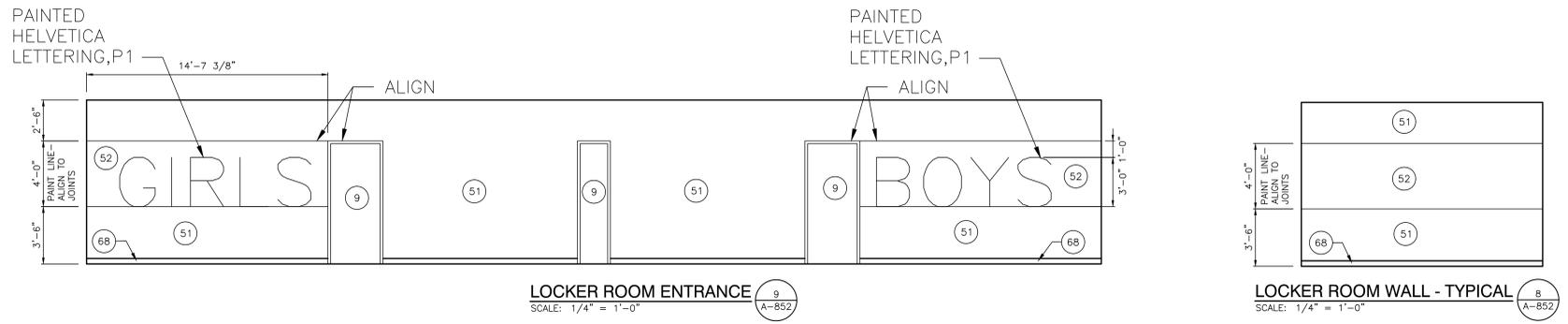
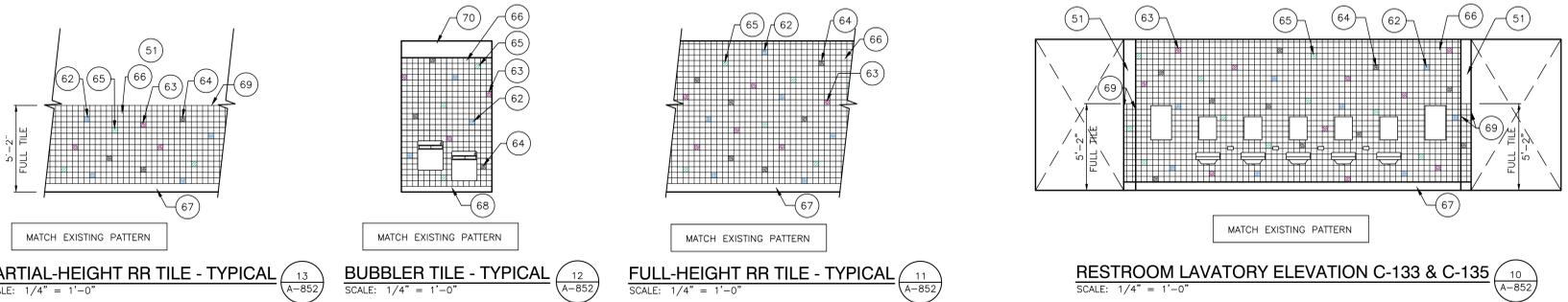
(ALL ELEVATION NOTES MAY NOT BE INDICATED ON THIS PLAN)

- 1) PROJECTION SCREEN, REFER TO EQUIPMENT PLANS.
- 2) MARKERBOARD, REFER TO EQUIPMENT PLANS.
- 3) BLEACHERS, REFER TO EQUIPMENT PLANS.
- 4) BASKETBALL BACKSTOP, REFER TO EQUIPMENT PLANS.
- 5) SAFETY CUSHION WAINSCOT, REFER TO EQUIPMENT PLAN.
- 6) SCOREBOARD, REFER TO EQUIPMENT PLANS.
- 7) EXPOSED STRUCTURE AND ROOF DECK, PAINT P10.
- 8) TRANSLUCENT WALL PANEL.
- 9) DOOR.
- 10) TACKBOARD, REFER TO EQUIPMENT PLANS.

INTERIOR ELEVATION FINISH NOTES:

(ALL ELEVATION NOTES MAY NOT BE INDICATED ON THIS PLAN)

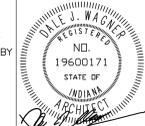
- 50) PAINT, P1
- 51) WALLCOATING, W1
- 52) WALLCOATING, W2
- 53) WALLCOATING, W4
- 54) ACOUSTICAL WALL PANEL, AR-AWP1
- 55) ACOUSTICAL WALL PANEL, AR-AWP2
- 56) ACOUSTICAL WALL PANEL, AR-AWP3
- 57) ACOUSTICAL WALL PANEL, AR-AWP4
- 58) ACOUSTICAL WALL PANEL, FW-AWP1
- 59) ACOUSTICAL WALL PANEL, FW-AWP2
- 60) ACOUSTICAL WALL PANEL, FW-AWP3
- 61) ACOUSTICAL WALL PANEL, FW-AWP4
- 62) WALL TILE, WT2
- 63) WALL TILE, WT3
- 64) WALL TILE, WT4
- 65) WALL TILE, WT5
- 66) WALL TILE, WT1
- 67) EPOXY BASE, EB
- 68) VINYL BASE, B1
- 69) SCHLUTER TRIM, OUTSIDE CORNER OR END OF TILE RUN.
- 70) PAINT, P2
- 71) PAINT, P5
- 72) VINYL BASE, B2
- 73) ACOUSTICAL WALL PANEL, AR-AWP5



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PROJECT
21-155
DATE
05/23/22
COORDINATED BY
DJW
DRAWN BY
EKM
CHECKED BY
NAS



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REVISIONS	MARK	DATE	ISSUED FOR
AD-3	06/30/22	ADDENDUM NO.3	

DRAWING
INTERIOR ELEVATIONS

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

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A-852

Monday, 6/27/2022 - 3:52 PM - LAST SAVED BY: EMMACQUEEN
 Y:\21-155 FRANKLIN TOWNSHIP CSC-EDGEWOOD IS
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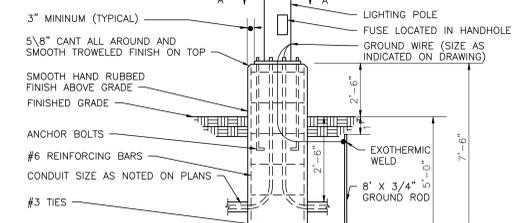
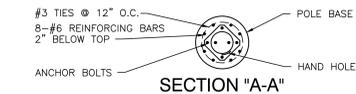
PROJECT
ADDITIONS AND
RENOVATIONS TO
**EDGEWOOD
INTERMEDIATE
SCHOOL**
FRANKLIN TOWNSHIP COMMUNITY
SCHOOL CORPORATION
INDIANAPOLIS, INDIANA

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC. AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
3. COORDINATE WITH DUKE ENERGY AND ALL FEES AND OTHER COSTS NOT BORNE BY THE POWER COMPANY TO PROVIDE ADDITIONAL WORK THAT IS NOT SHOWN ON THE DRAWINGS OR ADDRESSED IN THE SPECIFICATIONS TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICES NOTED WILL BE COVERED AN ALLOWANCE.
4. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
5. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
6. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
7. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
8. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

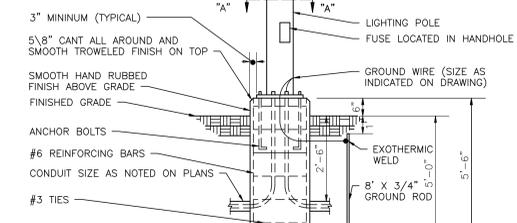
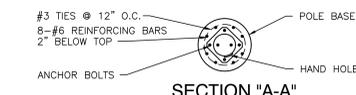
**ELECTRICAL SITE PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)**

- 1 EXISTING UTILITY POLE AND OVERHEAD PRIMARY ELECTRICAL SERVICE.
- 2 EXISTING UNDERGROUND PRIMARY ELECTRICAL SERVICE.
- 3 ELECTRICAL PRIMARY ELECTRICAL SERVICE TAP BOX FOR FUTURE EXTENSION OF PRIMARY FEEDERS.
- 4 EXISTING UTILITY COMPANY PAD MOUNTED TRANSFORMER.
- 5 EXISTING UNDERGROUND SECONDARY ELECTRICAL SERVICE.
- 6 PROVIDE A NEW 4" CONDUIT FROM THE PRIMARY ELECTRICAL SERVICE TAP BOX TO THE EXISTING UTILITY COMPANY PAD MOUNTED TRANSFORMER. NEW INCOMING ELECTRICAL SERVICE CONDUCTORS BY AES. COORDINATE WITH AES AND PROVIDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICE.
- 7 EXISTING SITE LIGHTING FIXTURE TO REMAIN.
- 8 RELOCATED SITE LIGHTING FIXTURE AND POLE. INTERCEPT EXISTING SITE LIGHTING CIRCUIT AND EXTEND TO NEW SITE LIGHTING FIXTURES. REFURBISH EXISTING POLE. REMOVE ALL RUST AND REPAINT AND RESTORE TO NEW CONDITION.
- 9 PROVIDE NEW VEHICULAR RATED FLUSH IN-GRADE JUNCTION BOX/PULL BOX. INTERCEPT EXISTING SITE LIGHTING CIRCUIT AND EXTEND TO NEW SITE LIGHTING FIXTURES.
- 10 PROVIDE WITH TYPE "A" POLE BASE - SEE DETAIL ON THIS SHEET.
- 11 PROVIDE WITH TYPE "B" POLE BASE - SEE DETAIL ON THIS SHEET.



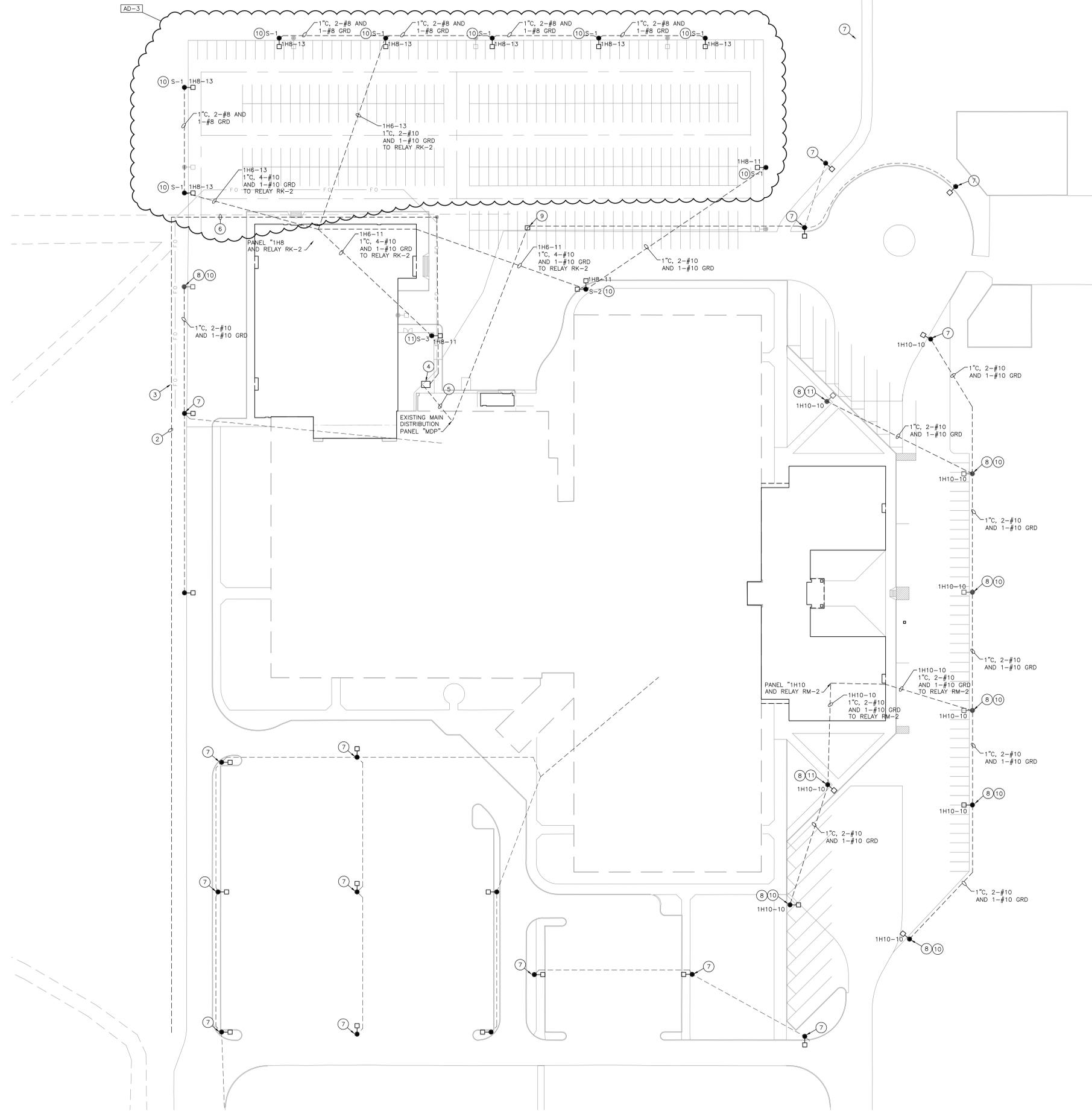
LIGHTING POLE BASE DETAIL "A"

NOT TO SCALE
NOTE: POLE BASE SIZE AND REINFORCEMENT SHOWN ARE MINIMUM REQUIREMENTS. VERIFY PROPER SIZE FOR SOIL TYPE ENCOUNTERED AT SITE WITH POLE MANUFACTURER BEFORE CONSTRUCTION.



LIGHTING POLE BASE DETAIL "B"

NOT TO SCALE
NOTE: POLE BASE SIZE AND REINFORCEMENT SHOWN ARE MINIMUM REQUIREMENTS. VERIFY PROPER SIZE FOR SOIL TYPE ENCOUNTERED AT SITE WITH POLE MANUFACTURER BEFORE CONSTRUCTION.



ELECTRICAL SITE PLAN

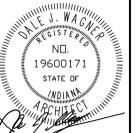
SCALE: 1" = 40'-0"



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PROJECT: 21-155
DATE: 05/23/22
COORDINATED BY: PCB
DRAWN BY: PCB/JVC
CHECKED BY: DJW



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MARK	DATE	ISSUED FOR
AD-2	06/23/22	ADDENDUM NO. 2
AD-3	06/30/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SITE PLAN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

©GIBRALTAR DESIGN SHEET
ES102

EDGEWOOD INTERMEDIATE SCHOOL LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURERS	VOLTAGE	LIGHT SOURCE	MINIMUM LUMENS	DEGREE K.	MAXIMUM WATTAGE	DIMMING	MOUNTING	DESCRIPTION
X-1	SURE-LITES OX71R-SD DUAL LITE SESR-BN-F-I LITHONIA LES1R-ELN-SD ENERGY HARNESS	120/277	LED		1	NONE	NONE	SURFACE	SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH SINGLE STENCIL FACE, RED LETTERS (ARROWS AS INDICATED ON DRAWINGS), NI-CAD BATTERY AND SELF DIAGNOSTICS FEATURE.
X-2	SURE-LITES OX72R-SD DUAL LITE SEDR-BN-E1 LITHONIA LES2R-ELN-SD ENERGY HARNESS	120/277	LED		1	NONE	NONE	SURFACE	SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH DOUBLE STENCIL FACE, RED LETTERS (ARROWS AS INDICATED ON DRAWINGS), NI-CAD BATTERY AND SELF DIAGNOSTICS FEATURE.
X-3	SURE-LITES SE150-SD-SQ DUAL LITE EVMH2I LITHONIA ELN2L-MVOLT-SDRT ENERGY HARNESS	120/277	LED		1	NONE	NONE	WALL	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE WITH TWO (2) LED LIGHTING HEADS, NI-CAD BATTERY AND SELF DIAGNOSTICS FEATURE.
S-1	MC GRAW-EDISON PREVAIL PRV-XL-C175-750-UNV-T4-SA-CBA HUBBELL VP-3-480L-340-4K7-4W	120/277	LED	48569/48191	4000	346/339	NONE	POLE MOUNTED	POLE ARM MOUNTED LED SITE LIGHTING FIXTURE WITH TYPE IV LIGHT DISTRIBUTION MOUNTED ON A 35'-0" ROUND TAPERED STEEL POLE. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
S-2	MC GRAW-EDISON PREVAIL 2-PRV-XL-C100-750-UNV-T4-SA-CBA LITHONIA RSX2-LED-P6-40K-R4-MVOLT-RPA-CBA HUBBELL VP-3-480L-340-4K7-4W	120/277	LED	31035/48191	4000	217/339	NONE	POLE MOUNTED	TWO (2) POLE ARM MOUNTED LED SITE LIGHTING FIXTURE WITH TYPE IV LIGHT DISTRIBUTION MOUNTED ON A 35'-0" ROUND TAPERED STEEL POLE. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
S-3	MC GRAW-EDISON PREVAIL 2-PRV-XL-C100-750-UNV-T4-SA-CBA LITHONIA RSX2-LED-P6-40K-R4-MVOLT-RPA-CBA HUBBELL VP-3-480L-340-4K7-4W	120/277	LED	31035/48191	4000	217/339	NONE	POLE MOUNTED	POLE ARM MOUNTED LED SITE LIGHTING FIXTURE WITH TYPE IV LIGHT DISTRIBUTION MOUNTED ON A 30'-0" ROUND TAPERED STEEL POLE. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
S-4	MC GRAW-EDISON PREVAIL 2-PRV-XL-C100-750-UNV-T3-SA-CBA LITHONIA RSX2-LED-P6-40K-R4-MVOLT-RPA-CBA HUBBELL VP-3-480L-340-4K7-4W	120/277	LED	31035/48191	4000	217/339	NONE	POLE MOUNTED	POLE ARM MOUNTED LED SITE LIGHTING FIXTURE WITH TYPE III LIGHT DISTRIBUTION MOUNTED ON A 30'-0" ROUND TAPERED STEEL POLE. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.

NOTE:
BASE BID: LIGHTING FIXTURE TYPES X-1, X-2 AND X-3 MANUFACTURED BY ENERGY HARNESS SHALL BE BID AND PROVIDED UNDER BASE BID.

ALTERNATE BID: LIGHTING FIXTURE TYPES X-1, X-2 AND X-3 MANUFACTURED BY ONE OF THE OTHER MANUFACTURERS SHALL BE BID AND PROVIDED UNDER THE ALTERNATE BID.

AD-3

RELAY SCHEDULE

MARK & TYPE	ITEM	CONTROLLED CIRCUIT(S)	COIL CKT.	COIL VOLT	ROOM NO.	CONTACTS	SELECTOR SWITCH	CONTROL	SEE NOTES
RK-1 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	BUILDING SECURITY LIGHTS	1H8-9	1H8-9	277	K-107	N.O.	HOA	BMS	1,2,4,5,6
RK-2 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	NORTH PARKING LOT LIGHTS	1H8-11,13	1H8-15	277	K-107	N.O.	HOA	BMS	1,2,4,5,6
RL-1 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	BUILDING SECURITY LIGHTS	1H10-5	1H10-9	277	L-112	N.O.	HOA	BMS	1,2,4,5,6
RL-2 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	BUILDING SECURITY LIGHTS	1H10-7	1H10-9	277	L-112	N.O.	HOA	BMS	1,2,4,5,6
RM-1 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	BUILDING SECURITY LIGHTS	1H10-8	1H10-12	277	M-111	N.O.	HOA	BMS	1,2,4,5,6
RM-2 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	EAST PARKING LOT LIGHTS	1H10-10	1H10-12	277	M-111	N.O.	HOA	BMS	1,2,4,5,6
RM-3 SQUARE D #8903 SERIES W/ NEMA 3R ENCLCS.	BUILDING SECURITY LIGHTS	1H10-7	1H10-12	277	M-111	N.O.	HOA	BMS	1,2,4,5,6

NOTES:
1. FURNISH NEMA 1 ENCLOSURE WITH HINGED COVER UNLESS OTHERWISE NOTED.
2. ELECTRICALLY HELD.
3. MECHANICALLY HELD.
4. PROVIDE SELECTOR SWITCH IN RELAY ENCLOSURES WITH LOOP AND BRIDLE STRAPS FROM MAIN DEPARTMENT TO HINGED COVER FOR SELECTOR SWITCHES.
5. FURNISH FUSE PROTECTION FOR COIL CIRCUIT.
6. ALL RELAYS AND SELECTOR SWITCHES SHALL BE PREWIRED BY MANUFACTURER.

MOTOR STARTER SCHEDULE

MARK	ITEM	NEMA SIZE	HP	ROOM NO.	CONTROL		SEE NOTES
					ENCL.	REMOTE	
MS-1	CIRCULATING PUMP CHP-1	2	15		SA	---	1,2,3,5,7,8
MS-2	CIRCULATING PUMP CHP-2	2	15		SA	---	1,2,3,5,7,8
MS-3	CIRCULATING PUMP CP-H1	2	15		SA	---	1,2,3,5,7,8
MS-4	CIRCULATING PUMP CP-H2	2	15		SA	---	1,2,3,5,7,8

NOTES:
1. MOTOR STARTERS SHALL BE 3-POLE COMBINATION TYPE WITH NEMA 1 ENCLOSURE.
2. MOTOR STARTERS SHALL HAVE 480/120 VOLT CONTROL CIRCUIT TRANSFORMER WITH COIL CIRCUIT FUSES.
3. MOTOR STARTERS SHALL HAVE 120 VOLT COIL AND 600 VOLT CONTACTS.
4. 120 VOLT MOMENTARY CONTACT PUSH BUTTON: P=ON-OFF; T=TEST BUTTON; T2=HI-LO-OFF TEST PUSH BUTTON; P02=HI-LO-OFF.
5. 120 VOLT MAINTAINED CONTACT SELECTOR SWITCH: S=ON-OFF; S2=HI-LOW; S3=HI-LO-OFF; S4=HAND-OFF-AUTOMATIC.
6. PILOT LIGHTS SHALL BE FURNISHED WITH ALL REMOTE CONTROL UNITS.
7. MOTOR STARTERS SHALL BE SINGLE SPEED.
8. MOTOR STARTER SHALL HAVE ONE NORMALLY OPEN CONTACT.

EDGEWOOD INTERMEDIATE SCHOOL LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURERS	VOLTAGE	LIGHT SOURCE	MINIMUM LUMENS	DEGREE K.	MAXIMUM WATTAGE	DIMMING	MOUNTING	DESCRIPTION
L-1	LITHONIA CPX-2X4-5000LM-80CRI-40K-SWL-MINI-EZT-MVOLT METALUX 24P2640C COLUMBIA SRP24-40-ML-G-ED1-U ENERGY HARNESS EHF-PANBL-2X4DS-72-277-CDM	120/277	LED	4800 (5194/6506 /4954/5000)	4000	39.29/62.2/40/40	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH DIMMING DRIVER.
L-1E	LITHONIA CPX-2X4-5000LM-80CRI-40K-SWL-MINI-EZT-MVOLT-E10WVCP METALUX 24P2640C-ELL4W COLUMBIA SRP24-40-ML-G-ED1-U-ELL14ST ENERGY HARNESS EHF-PANBL-2X4DS-72-277-CDM-EM	120/277	LED	4800 (5194/6506 /4954/5000)	4000	39.29/62.2/40/40	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH LED DIMMING DRIVER AND INTEGRAL/EXTERNAL EMERGENCY BATTERY UNIT WITH SELF DIAGNOSTIC FEATURE.
L-2	LITHONIA CPX-2X4-6000LM-80CRI-40K-SWL-MINI-EZT-MVOLT METALUX 24P2640C COLUMBIA SRP24-40-VL-G-ED1-U ENERGY HARNESS EHF-PANBL-2X4DS-72-277	120/277	LED	6000 (6037/6506 /7379/6250)	4000	43.25/62.2/69/50	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH DIMMING DRIVER.
L-2E	LITHONIA CPX-2X4-6000LM-80CRI-40K-SWL-MINI-EZT-MVOLT-E10WVCP METALUX 24P2640C COLUMBIA SRP24-40-VL-G-ED1-U ENERGY HARNESS EHF-PANBL-2X4DS-72-277-CDM-EM	120/277	LED	6000 (6037/6506 /7379/6250)	4000	43.25/62.2/69/50	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH INTEGRAL/EXTERNAL EMERGENCY BATTERY UNIT WITH SELF DIAGNOSTIC FEATURE.
L-3	LITHONIA CPX-2X4-4000LM-80CRI-40K-SWL-MINI-EZT-MVOLT METALUX 24P2640C COLUMBIA RP24-40-LW-G-ED1-U ENERGY HARNESS EHF-PANBL-2X4DS-45-27-CDM	120/277	LED	4000 (4240/4556 /4350)	4000	37.61/41.4/32	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH DIMMING DRIVER.
L-3E	LITHONIA CPX-2X4-4000LM-80CRI-40K-SWL-MINI-EZT-MVOLT-E10WVCP METALUX 24P2640C-ELL4W COLUMBIA SRP24-40-LW-G-ED1-U-ELL14ST ENERGY HARNESS EHF-PANBL-2X4DS-45-27-CDM	120/277	LED	4000 (5194/4557 /4350)	4000	39.29/39/32	0-10V 1% DIMMING	SURFACE	2X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH LED DIMMING DRIVER AND INTEGRAL/EXTERNAL EMERGENCY BATTERY UNIT WITH SELF DIAGNOSTIC FEATURE.
L-4	LITHONIA CPX-1X4-5000LM-80CRI-40K-SWL-MINI-EZT-MVOLT METALUX 14P2640C COLUMBIA SRP14-40-LW-G-ED1-U ENERGY HARNESS EHF-PANBL-1X4DS-45-277-CDM-EM	120/277	LED	4000 (5086/4226 /4953/4375)	4000	39.2/38.83/39/35	0-10V 1% DIMMING	SURFACE	1X4 RECESSED MOUNTED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH LED DIMMING DRIVER.
L-4E	LITHONIA CPX-1X4-5000LM-80CRI-40K-SWL-MINI-EZT-MVOLT-E10WVCP METALUX 14P2640C COLUMBIA SRP14-40-LW-G-ED1-U-ELL14ST ENERGY HARNESS EHF-PANBL-1X4DS-45-277-CDM-EM	120/277	LED	4000 (5086/4226 /4953/4375)	4000	39.2/38.83/39/35	0-10V 1% DIMMING	SURFACE	1X4 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH LED DIMMING DRIVER INTEGRAL/EXTERNAL EMERGENCY BATTERY UNIT WITH SELF DIAGNOSTIC FEATURE.
L-5	LITHONIA CPX-2X2-4800LM-80CRI-40K-SWL-MINI-EZT-MVOLT METALUX 22P2640C COLUMBIA SRP22-40VH-G-ED1-U ENERGY HARNESS EHF-PANBL-2X2DS-45-27-CDM	120/277	LED	4800 (5119/6506 /5030)	4000	48.3/62.2/40	0-10V 1% DIMMING	SURFACE	2X2 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH DIMMING DRIVER.
L-5E	LITHONIA CPX-2X2-4800LM-80CRI-40K-SWL-MINI-EZT-MVOLT-E10WVCP METALUX 22P2640C-ELL4W COLUMBIA SRP22-40-VLH-G-ED1-U-ELL14ST ENERGY HARNESS EHF-PANBL-2X2DS-45-27-CDM-EM	120/277	LED	4800 (5119/6506 /5030)	4000	48.3/62.2/40	0-10V 1% DIMMING	SURFACE	2X2 RECESSED LED FLAT PANEL TYPE LIGHTING FIXTURE WITH LED DIMMING DRIVER AND INTEGRAL/EXTERNAL EMERGENCY BATTERY UNIT WITH SELF DIAGNOSTIC FEATURE.
L-6	METALUX 45VLED-LD5-35SL-LW-UNV-L840-CD1-U COLUMBIA MP54-40MM-CW-ED-U LITHONIA Z1D-L48-5MR-5000LM-FST-MVOLT-40K-80CRI-WH	120/277	LED	3504/3702/4028	4000	28/30.4/30	NONE	PENDANT	4' PENDANT MOUNTED INDUSTRIAL LIGHTING FIXTURE WITH LENSED AND WIDE DISTRIBUTION
L-6E	METALUX 45VLED-LD5-35SL-LW-UNV-L840-CD1-U-EL14WST COLUMBIA MP54-40MM-CW-ED-U-ELL14ST LITHONIA Z1D-L48-5MR-5000LM-FST-MVOLT-40K-80CRI-WH-ELL14ST	120/277	LED	3504/3702/4028	4000	28/30.4/30	NONE	PENDANT	4' PENDANT MOUNTED INDUSTRIAL LIGHTING FIXTURE WITH LENSED, WIDE DISTRIBUTION AND INTEGRAL EMERGENCY BATTERY UNIT WITH SELF-DIAGNOSTIC FEATURE.
L-7	LUMENWERK VIA3R8R-HLO-LED-90-750-40-9FT-UNV-D-1-DTR-W FINELITE HP4-R-D-9'-T1750LM/FT-840-F-96LG-120-SC-10%-CL-FE-SW (7 WATTS A FOOT) PINNACLE ARCHITECTURAL LIGHTING EV3D-A-800V0-D-FL-U-012-1-W	MVOLT	LED	750/FT	4000	9.9/FT	0-10V	GRID	3' X 9' RECESSED FLANGED MOUNTED LINEAR LIGHTING FIXTURE WITH FROSTED WHITE LENS.
L-8	LITHONIA IGB-18000LM-HEF-AFL-WD-MVOLT-GZ10-40K-90CRI COLUMBIA LHV4-40H-WST-EDU-SFAWG METALUX OHB-18SE-W-UNV-L940-CD-0HB-WG162	120/277	LED	18000	4000	100	NONE	GRID	4' PENDANT MOUNTED INDUSTRIAL HIGH BAY LIGHTING FIXTURE WITH LENS AND WIDE DISTRIBUTION
L-8E	LITHONIA IGB-18000LM-HEF-AFL-WD-MVOLT-GZ10-40K-90CRI COLUMBIA LHV4-40H-WST-EDU-SFAWG METALUX OHB-18SE-W-UNV-L940-CD-0HB-WG162	120/277	LED	18000	4000	100	NONE	GRID	4' PENDANT MOUNTED INDUSTRIAL HIGH BAY LIGHTING FIXTURE WITH LENS, WIDE DISTRIBUTION AND INTEGRAL EMERGENCY BATTERY UNIT WITH SELF-DIAGNOSTICS FEATURE.
L-9	LITHONIA WSR LED-P3-40K-MVOLT-DBBXD MCGRAW EDISON ISS-AF-600-LED-E1-T3-BZ HUBBELL RD12-24L-70-4K7-3-CBA-EH	120/277	LED	6000/8375	4000	50/66	NONE	WALL	WALL MOUNTED OUTDOOR WEATHERPROOF CUTOFF TYPE LIGHTING FIXTURE WITH LED LAMPS AND LED DRIVER. UL LISTED FOR WET LOCATIONS. COLOR TO BE SELECTED BY THE ARCHITECT.
L-9E	LITHONIA WSR LED-P3-40K-MVOLT-E7WC-DBBXD MCGRAW EDISON ISS-AF-600-LED-E1-T3-BZ-CWB HUBBELL RD12-24L-70-4K7-3-CBA-EH	120/277	LED	6000/8375	4000	50/66	NONE	WALL	WALL MOUNTED OUTDOOR WEATHERPROOF CUTOFF TYPE LIGHTING FIXTURE WITH LED LAMPS, LED DRIVER AND COLD WEATHER EMERGENCY BATTERY PACK. UL LISTED FOR WET LOCATIONS. COLOR TO BE SELECTED BY THE ARCHITECT.
L-10E	METALUX 45VLED-LD4-36SL-LW-UNV-L840-CD1-U-5WP2-U COLUMBIA ESL-4-40-HL-FAW-EDU-ELL14-NX05 LITHONIA WL4-40L-E21-LP840-MSD7	MVOLT	LED	5222	4000	42	NONE	WALL	4' WALL MOUNTED LIGHTING FIXTURE WITH 0-10VOLT NON-DIMMING DRIVER, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL BATTERY UNIT WITH SELF-DIAGNOSTICS UNIT. FIXTURE SHALL BE ILLUMINATED AT 50 PERCENT AT ALL TIMES AND INCREASE TO 100 PERCENT WHEN IT SENSES OCCUPANCY. (STAIRS)

NOTE:
BASE BID: LIGHTING FIXTURE TYPES F-1, F-1E, F-2, F-2E, F-3, F-3E, F-4, F-4E, F-5 AND F-5E AS MANUFACTURED BY ENERGY HARNESS (AS SPECIFIED) SHALL BE BID AND PROVIDED UNDER BASE BID.

ALTERNATE BID: LIGHTING FIXTURE TYPES F-1, F-1E, F-2, F-2E, F-3, F-3E, F-4, F-4E, F-5 AND F-5E MANUFACTURED BY ONE OF THE OTHER MANUFACTURERS SPECIFIED SHALL BE BID AND PROVIDED UNDER THE ALTERNATE BID.

AD-3



GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION
INDIANAPOLIS, INDIANA

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PROJECT
21-155
DATE
05/23/22
COORDINATED BY
PCB
DRAWN BY
PCB/JVC
CHECKED BY
DJW



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REVISIONS		
MARK	DATE	ISSUED FOR
AD-2	06/23/22	ADDENDUM NO. 2
AD-3	06/30/22	ADDENDUM NO. 3

DRAWING
ELECTRICAL SCHEDULES

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

© GIBRALTAR DESIGN SHEET
E-601

Thursday, 6/30/2022 1:39 PM - LAST SAVED BY: JCHAMBERS
Y:\21-155 FRANKLIN TOWNSHIP CSC-EDGEWOOD IS
ADDITIONS AND RENOVATIONS\21-155 DRAWINGS\09
ELEC\E-601.DWG



SCOPE OF WORK table with 2 columns: Item number and Description of work items.

LEGEND NOTES table with 2 columns: Item number and Detailed notes regarding symbols and standards.

PATHWAY AND SPACES DEVICES table with 2 columns: Symbol and Description of device specifications.

9102 N. Meridian St., Ste. 300 Indianapolis, IN 46260

PROJECT INFORMATION table with fields for Project, Date, Coordinated by, Drawn by, Checked by, and BKS.

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REVISIONS table with columns for Mark, Date, and Issued For.

AUDIO-VISUAL SYSTEMS table listing various equipment types like Voice and Data Outlet, Video Projector, Flat Panel Display, and Audio Video Outlets.

DISTRIBUTED SYSTEMS table listing various speaker and microphone configurations like Suspended Ceiling Mounted, Solid Ceiling Mounted, Wall Type, and Horn Type.

SECURITY/LIFE SAFETY table listing various security equipment like Video Surveillance Cameras, Secure Doors, Door Status Sensors, and Keypads.

TELECOMMUNICATIONS table listing various communication equipment like Voice Outlets, Data Outlets, Wireless LAN Access Points, and Building Automation Systems Outlets.

- GENERAL ROUGH-IN NOTES: 1. CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT AND REQUIREMENTS OF THE PROJECT...

- GENERAL PATHWAYS NOTES: 1. ROUGH-IN PATHWAYS SHALL BE CLOSELY REVIEWED AND COORDINATED PRIOR TO INSTALLATION. IT IS THE RESPONSIBILITY OF THE ROUGH-IN PROVIDER TO THOROUGHLY REVIEW AND UNDERSTAND THE REQUIREMENTS OF THE SYSTEMS THAT WILL USE THE PATHWAYS...

- GENERAL NOTES: 1. NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE ANY CONTRACTOR FROM HIS RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES...

- GENERAL CABLING NOTES: 1. ALL PROVIDED CABLE SHALL BE RATED FOR THE ENVIRONMENT INSTALLED. 2. ALL INSTALLED CABLING SHALL BE CONTINUOUS AND WITHOUT SPLICES, EXCEPT WHERE OTHERWISE NOTED.

- SLEEVE AND FIRE-STOPPING NOTES: 1. ALL PENETRATIONS THROUGH BUILDING STRUCTURE (WALL AND/OR FLOORS) FOR COMMUNICATIONS CABLING SHALL BE SLEEVED. 2. ALL SLEEVES THROUGH WALLS OR FLOORS HOLDING A FIRE RATING SHALL BE INSTALLED UTILIZING ONE OF THE APPROVED METHODS FOR A UL LISTED ASSEMBLY.



PROJECT
ADDITIONS AND
RENOVATIONS TO
**EDGEWOOD
INTERMEDIATE
SCHOOL**

FRANKLIN TOWNSHIP COMMUNITY
SCHOOL CORPORATION
INDIANAPOLIS, INDIANA



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PROJECT
21-155

DATE
5/23/22

COORDINATED BY
BKS

DRAWN BY
TKP ZHW

CHECKED BY
BKS

REVISIONS

MARK DATE ISSUED FOR

AD-3 6/30/2022 ADDENDUM 03

DRAWING

GYM SOUND ELEMENTARY
SCHOOL

PROJECT
ADDITIONS AND RENOVATIONS TO
EDGEWOOD INTERMEDIATE SCHOOL

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SHEET

T-641

RECEIVED COMMUNICATIONS DISTRIBUTION DESIGNED

Bicsi

Brian K Scott

BICS I ID # 114038

EXPIRES 12-31-24

RCDD

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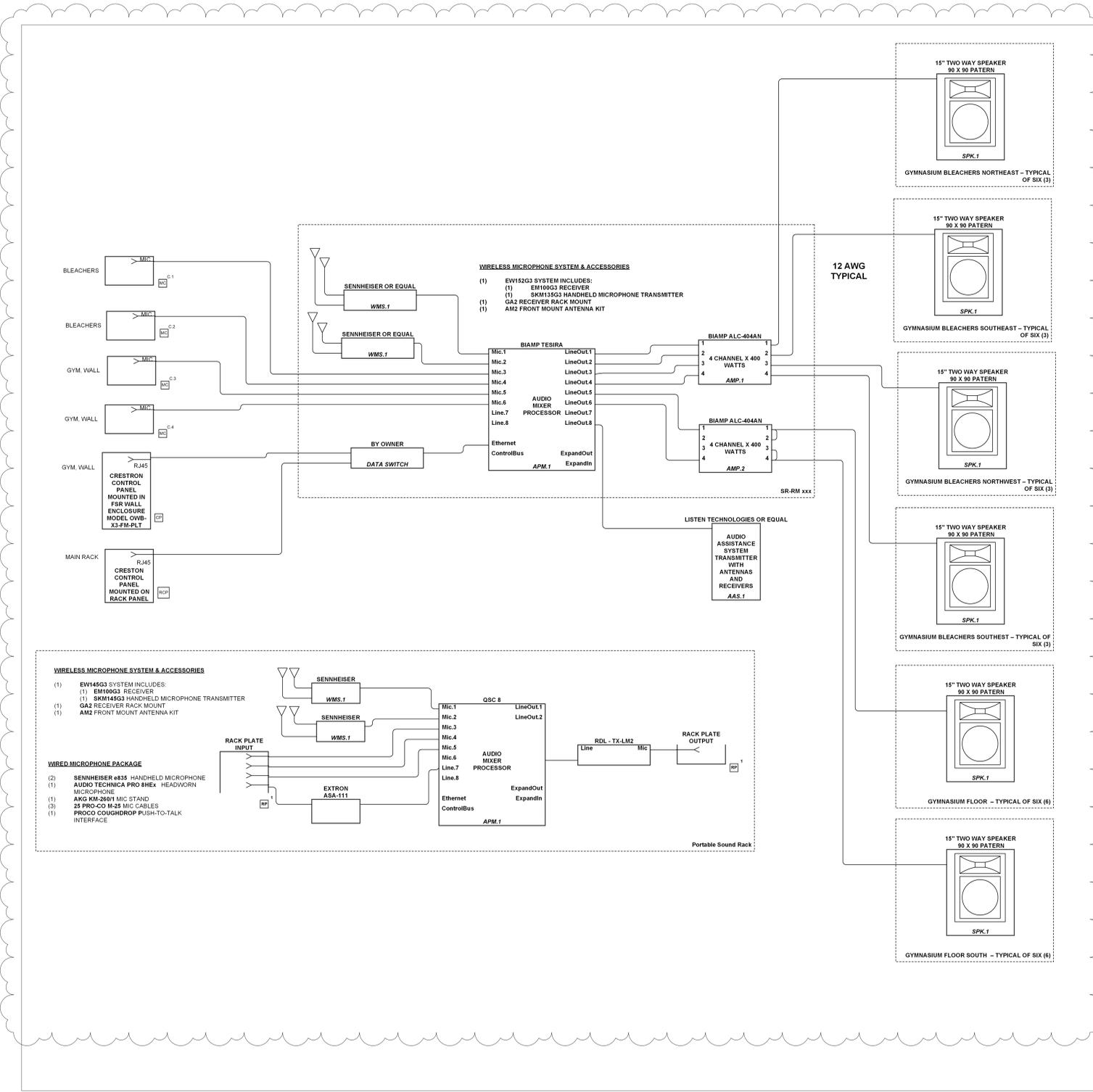
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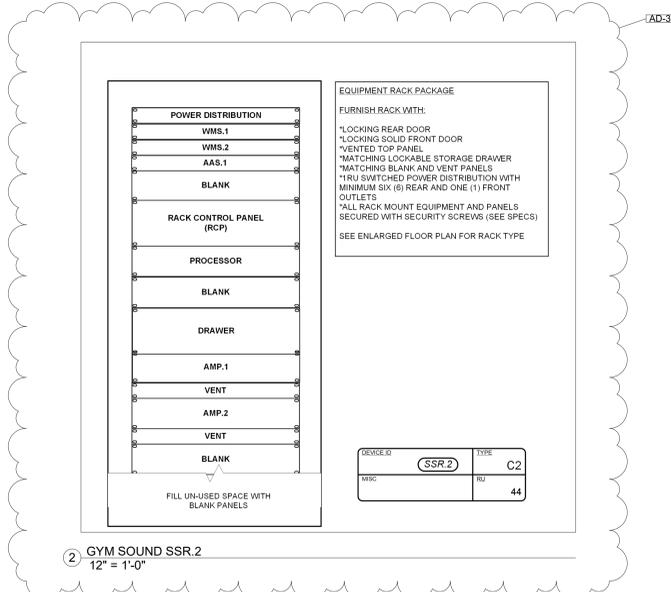
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1 GYM SOUND DIAGRAM
12" = 1'-0"



2 GYM SOUND SSR.2
12" = 1'-0"

