ADDENDUM NO. 3

November 20, 2025

THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL
5910 Central Ave.
Portage, IN 46368

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 28, 2025, by Fanning Howey Associtate, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 3-1 through ADD 3-4, and attached Addendum No. 3 from Fanning Howey Associates, Inc., dated November 18, 2025, and consisting of 4 pages, new Specification Section 32 18 23.54 - Asphalt Basketball Court Color Coating, revised Specification Sections 26 56 68 - Exterior Athletic Lighting, 27 51 17 - Sound Reinforcement System, 28 23 11 - IP Video Surveillance, and 170 Drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **ADD:**

   Specification Section 32 18 23 - Basketball Court Color Coating

B. SPECIFICATION SECTION 00 43 50 - SUBCONTRACTORS AND PRODUCT LIST

Under Division 32 - Exterior Improvements

1. **ADD:**

   Specification Section 32 18 23 - Basketball Court Color Coating

C. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.02 General Requirements

1. **REVISE:**

Clarification No. 3:
Any contractor whose scope of work requires excavation shall be fully responsible for performing the excavation and removing all associated spoils. Contractors conducting excavation work are also responsible for their own dewatering operations. Any excavation that requires dewatering must be managed, performed, and completed by the contractor performing the excavation. All backfilling, compaction, and site restoration shall be completed in accordance with the project specifications and contract documents. All dewatering and backfill activities must be performed in compliance with all applicable safety, environmental, and discharge regulations.

Under 3.03 Bid Categories

A. BID CATEGORY NO. 1 - BUILDING DEMOLITION

1. **REVISE:**

Clarification No. 4:
The **Bid Category No. 1 Contractor** shall be responsible for completing all state-required documentation, notifications, and permits necessary to perform the demolition scope of work. The Contractor shall prepare, submit, and pay all associated fees for required applications, including the demolition permits, environmental clearances, and waste disposal documentation. All required permits and approvals must be obtained prior to the start of demolition. Copies of all permits, correspondence, and approvals shall be submitted to the Construction Manager for record prior to commencement of demolition activities.

2. **ADD:**

Clarification No. 5:
The **Bid Category No. 1 Contractor** shall have access to the existing school drawings issued under Addendum 3. These drawings are provided for general reference only and are not to be considered exact, definitive, or fully representative of existing conditions. It is the responsibility of the **Bid Category No. 1 Contractor** to verify all dimensions, locations, and field conditions as required to properly perform their scope of work.

B. BID CATEGORY NO. 2 - SITE/UTILITIES PAVING

1. **ADD:**

   Specification Section 32 18 23 - Basketball Court Color Coating

2. **REVISE:**

   Clarification No. 6:
   The **Bid Category No. 14 Contractor** is responsible for all work associated with Specification Section 23 21 16 - Geothermal Loop Heat Exchanger. This includes the removal and proper disposal of any spoils generated by the geothermal work. All activities shall be fully coordinated with the **Bid Category No. 2 Contractor**.

C. BID CATEGORY NO. 3 - GENERAL TRADES

1. **ADD:**

   Clarification No. 20:
   The **Bid Category No. 3 Contractor** shall be responsible for welding all masonry column ties at beams and lintels, as well as installing all required top-of-wall bracing for CMU walls. All work shall be closely coordinated with the **Bid Category No. 4 Contractor**.

2. Clarification No. 21:
   In accordance with Specification Section 01 52 60, the **Bid Category No. 3 Contractor** is responsible for providing and maintaining trash chutes. **The Bid Category No. 3 Contractor** shall furnish, install, and service a total of four (4) trash chutes for use throughout the duration of the project. The contractor shall also be responsible for all repairs and maintenance if any chute becomes damaged or inoperable. Final chute locations shall be coordinated with Skillman's Site Manager.

D. BID CATEGORY NO. 4 - MASONRY

1. **REVISE:**

   Specification Section 07 27 26.02 - Vapor-Permeable, Fluid-Applied Membrane Air Barrier to read (As Applicable)

2. **ADD:**

Clarification No. 6:
The **Bid Category No. 3 Contractor** shall be responsible for welding all masonry column ties at beams and lintels, as well as installing all required top-of-wall bracing for CMU walls. All work shall be closely coordinated with the **Bid Category No. 4 Contractor**.

Clarification No. 7:
Any modular block shown on the drawings or referenced in the specifications shall be the responsibility of the **Bid Category No. 4 Contractor**, including all labor, materials, and coordination required to complete the work.

E. BID CATEGORY NO. 5 - ROOFING/METAL PANELS

1. **ADD:**

Specification Section 07 27 26.02 - Vapor-Permeable, Fluid-Applied Membrane Air Barrier (As Applicable)

N. BID CATEGORY NO. 14 - HVAC/SHEET METAL

1. **ADD:**

Specification 08 91 19 - Fixed Louvers

2. **REVISE:**

Clarification No. 4:
The **Bid Category No. 14 Contractor** is responsible for all work associated with Specification Section 23 21 16 - Geothermal Loop Heat Exchanger. This includes the removal and proper disposal of any spoils generated by the geothermal work. All activities shall be fully coordinated with the **Bid Category No. 2 Contractor.**

O. BID CATEGORY NO. 15 - ELECTRICAL/TECHNOLOGY

1. **DELETE:**

Specification 08 91 19 - Fixed Louvers

A D D E N D U M N O. 3

The New Wallace Aylesworth Middle School

Portage Township School
Portage, Indiana

Project No. 223047.01

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Addendum No. 3, 14 items, 3 pages
New Project Manual Section: 32 18 23.54 – Asphalt Basketball Court Color Coating
Revised Project Manual Sections: 26 56 68 – Exterior Athletic Lighting, 27 51 17 – Sound Reinforcement System, and 28 23 11 – IP Video Surveillance
New Drawing Sheet: C514 – Site Enlargement Plans
Revised Drawing Sheets: G-001, G-002, C100, C110, C111, C300, C301, C302, C303, C304, C310, C500, C501, C502, C503, C504, C505, C506, C600, C601, C602, C603, C604, C605, C606, C607, C608, C610, C700, C701, S-008, S-10A, S-10B, S-10C, S-10D, S-10E, S-12E, S-13E, S-13F, S-100, S-101, S-301, S-302, S-303, S-503, S-505, S-510, S-522, S-524, A11A, A11B, A11C, A11D, A11F, AC11A, AC11B, AC11C, AC12A, AC12C, AC12D, AC102, AR101, A-204, A-205, A-301, A-310, A-413, A-414, A-503, A-601, IF11A, IF11B, IF11C, IF11D, IF11E, IF11F, IF12A, IF12B, IF12C, IF12D, IF12E, IF12F, IF201, IF202, IF203, IF061, IQ11A, IQ11B, IQ11C, IQ11D, IQ11E, IQ11F, IQ12A, IQ12B, IQ12C, IQ12F, IQ202, IQ205, IQ401, MV11A, MV11C, MV11D, MV11E, MV12A, MV12B, MV12C, MV12D, MV12E, MP11A, MP11B, MP12A, MP12C, M-502, ES101, ED101, ET11A, ET11B, ET11C, ET11D, ET11E, ET11F, ET11G, ET12A, ET12B, ET12C, ET12D, ET12E, ET12F, EL11E, EL11F, EL12B, EP11A, EP11B, EP11C, EP11D, EP11E, EP11F, EF11A, EF11B, EF11C, EF11D, EF11E, EF11F, EF12A, EF12B, EF12C, EF12D, EF12E, EF12F, E-403, E-501, E-502, E-503, TS101, T-103, T-104, T-11A, T-11B, T-11C, T-11D, T-11E, T-11F, T-11G, T-12A, T-12B, T-12C T-12D, T-12E, T-12F, and T-501

Date: November 18, 2025

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

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



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

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 3 to Drawings and Project Manual, dated October 28, 2025, for The New Wallace Aylesworth Middle School for Portage Township Schools, 6240 US Highway 6, Portage, Indiana 46368; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

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

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

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

RE: ALL BIDDERS

ITEM NO. 1. REVISED PROJECT MANUAL SECTIONS

A. Project Manual Sections 26 56 68 – Exterior Athletic Lighting, 27 51 17 – Sound Reinforcement System, and 28 23 11 – IP Video Surveillance have been revised, dated 11/18/25, and is included with and hereby made a part of this Addendum.

ITEM NO. 2. NEW PROJECT MANUAL SECTION

A. New Project Manual Section 32 18 23.54 – Asphalt Basketball Court Color Coating is included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

A. Article 2.16, F.: Change “Lightweight” to “Normal weight” within paragraph.

ITEM NO. 4. PROJECT MANUAL, SECTION 07 21 00 – THERMAL INSULATION

A. Add Article 1.6, as follows:

“1.6 ACTION SUBMITTALS

A. Product Data: For each type of product indicated, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.”

ITEM NO. 5. PROJECT MANUAL, SECTION 07 84 43 – JOINT FIRESTOPPING

A. Add 1.1, A., 5., a., as follows:

“a. Exterior stud wall and floor intersection.”

ITEM NO. 6. PROJECT MANUAL, SECTION 08 11 13 – HOLLOW METAL DOORS AND FRAMES

A. Add 2.5, B., 2., as follows:

"2. 0.053 inch thick (fka 16 gauge) steel, cold rolled, factory applied baked on primer, for level 2 and level 3 steel doors and wood doors (masonry walls)."

ITEM NO. 7. PROJECT MANUAL, SECTION 09 51 13 – ACOUSTICAL PANEL CEILINGS

A. Replace 3.5, A., 1., as follows:

1. ACT Type 1: Wet formed, mineral fiber, ASTM E 1264, Type III, Form 2, Pattern CE, 24 by 24 by 5/8 - 3/4 inch, square lay-in, 15/16 inch grid, with NRC of 0.65-0.70, CAC of 21 minimum, humidity sag resistant, light reflectance of 0.78 minimum and >.45 pound/sq.ft. Factory applied vinyl latex paint, color - white, unless otherwise noted.
   a. Products: Subject to compliance with requirements, provide one of the following products specified:
      1) Item No. 1713, School Zone Fine Fissured; Armstrong.
      2) HHF-457 HNRC, Fine Fissured High NRC; CertainTeed.
      3) Item No. 22421, Radar Education Climaplus High NRC; USG Interiors.
      4) No. 41101, Education Standard; Rockfon.
      5) No. 73929 Finetta High NRC; OWA

ITEM NO. 8. PROJECT MANUAL, SECTION 09 96 00 – HIGH-PERFORMANCE COATINGS

A. Add 3.7, A., 1., d., 3), as follows:

"3) Vertical stair risers."

ITEM NO. 9. PROJECT MANUAL, SECTION 10 22 39.13 – OPERABLE GLASS-PANEL PARTITIONS

A. Replace 2.4, B., as follows:

"B. Panel Operation: Manually operated, paired panel assemblies."

ITEM NO. 10. PROJECT MANUAL, SECTION 13 34 23 – MODULAR PRESSBOX

A. Delete 1.2, A., 7, 9., and 10., in their entirety.

B. Replace 1.2, A., 8., as follows:

"8. Exterior doors and frames."

C. Replace 2.2, I, as follows:

"I. HVAC
   1. Through the wall heating unit, electric operation.
   2. Connect heating unit to pressbox electrical system.
   3. Provide unit as required to maintain temperature of 68 degrees during heathing operations.
   4. Provide multiple units as required by pressbox size.

ITEM NO. 11. PROJECT MANUAL, SECTION 26 24 16 - PANELBOARDS

A. Delete paragraph 2.2, A, 3 without substitution.

ITEM NO. 12. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 04 20 00 – Unit Masonry
- Wire-Bond, Charlotte, North Carolina (Sure Tie WS Thermal Anchoring System)

Section 07 13 00 – Sheet Waterproofing
- Polyglass-Mapei Group, Deerfield Beach, Florida

Section 07 42 13 – Metal Wall Panels
- Jackson Architectural Metal Fabricators, LLC, Jackson, Michigan

Section 07 71 00 – Roof Specialties
- Jackson Architectural Metal Fabricators, LLC, Jackson, Michigan

Section 07 95 13.13 – Interior Expansion Joint Cover Assemblies
- Erie Metal Specialties, Inc., Akron, New York

Section 08 34 73 – Sound-Control Door and Borrowed Lite Assemblies
- Clark Door Ltd, Carlisle, United Kingdom

Section 09 67 11 – Fluid-Applied Cementitious Urethane Flooring
- Terrazzo & Marble Supply Companies, Alsip, Illinois

Section 09 67 12 – Fluid-Applied Epoxy Aggregate Flooring
- Terrazzo & Marble Supply Companies, Alsip, Illinois

Section 23 25 00 – HVAC Water Treatment
- Link One, OneGaurd HD Premixed (Article 2.5 – Propylene Glycol-Based Product)

ITEM NO. 13. NEW DRAWING SHEET

A. Drawing Sheet No: C514 – Site Enlargement Plans dated 11/18/25, is included with and hereby made a part of this Addendum.

ITEM NO. 14. REVISED DRAWING SHEETS

Drawing Sheets: G-001, G-002, C100, C110, C111, C300, C301, C302, C303, C304, C310, C500, C501, C502, C503, C504, C505, C506, C600, C601, C602, C603, C604, C605, C606, C607, C608, C610, C700, C701, S-008, S-10A, S-10B, S-10C, S-10D, S-10E, S-12E, S-13E, S-13F, S-100, S-101, S-301, S-302, S-303, S-503, S-505, S-510, S-522, S-524, A11A, A11B, A11C, A11D, A11F, AC11A, AC11B, AC11C, AC12A, AC12C, AC12D, AC102, AR101, A-204, A-205, A-301, A-310, A-413, A-414, A-503, A-601, IF11A, IF11B, IF11C, IF11D, IF11E, IF11F, IF12A, IF12B, IF12C, IF12D, IF12E, IF12F, IF201, IF202, IF203, IF061, IQ11A, IQ11B, IQ11C, IQ11D, IQ11E, IQ11F, IQ12A, IQ12B, IQ12C, IQ12F, IQ202, IQ205, IQ401, MV11A, MV11C, MV11D, MV11E, MV12A, MV12B, MV12C, MV12D, MV12E, MP11A, MP11B, MP12A, MP12C, M-502, ES101, ED101, ET11A, ET11B, ET11C, ET11D, ET11E, ET11F, ET11G, ET12A, ET12B, ET12C, ET12D, ET12E, ET12F, EL11E, EL11F, EL12B, EP11A, EP11B, EP11C, EP11D, EP11E, EP11F, EF11A, EF11B, EF11C, EF11D, EF11E, EF11F, EF12A, EF12B, EF12C, EF12D, EF12E, EF12F, E-403, E-501, E-502, E-503, TS101, T-103, T-104, T-11A, T-11B, T-11C, T-11D, T-11E, T-11F, T-11G, T-12A, T-12B, T-12C T-12D, T-12E, T-12F, and T-501, have been revised, dated 11/18/25, and is included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

SECTION 26 56 68 - EXTERIOR ATHLETIC LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes Light Emitting Diode (LED) source exterior athletic lighting for the football field and track, specified primarily by illumination performance. Provide light fixture quantities, electrical loading, and photometric study for proposed athletic lighting system included within bid for evaluation by engineer as part of bid evaluation. Failure to provide information on proposed system may result in bid being determined to be non-responsive.

1.3 DEFINITIONS

A. CV: Coefficient of variation; a statistical measure of the weighted average of all relevant illumination values for the playing area, expressed as the ratio of the standard deviation for all illuminance values to the mean illuminance value.

B. Delegated-Design Submittals: Documents, including drawings, calculations, and material and product specifications prepared as a responsibility of Contractor to obtain acceptance by Owner and authorities having jurisdiction.

C. Horizontal Illuminance: Measurement in foot-candles, on a horizontal surface 36 inches above ground, unless otherwise indicated.

D. LLD: Lamp lumen depreciation.

E. LLF: Light loss factor.

F. Luminaire: Complete lighting fixture, including ballast housing if provided.

G. Target Illuminance: Average maintained illuminance level, calculated by multiplying initial illuminance by LLF.

H. UG: Uniformity gradient; the rate of change of illuminance on the playing field, expressed as a ratio between the illuminances of adjacent measuring points on a uniform grid.

I. Vertical Illuminance: Measurement in foot-candles, in four directions on a vertical surface, at an elevation coinciding with plane height of horizontal measurements.

J. LED: Light-emitting diode.

1.4 PERFORMANCE REQUIREMENTS

A. Facility Type: Middle school facility.

B. Illumination Criteria: Comply with criteria in IESNA RP-6-15 for the following:
   1. Minimum average maintained illuminance level for each lighted area for each sports venue and for the indicated class of play.
   2. CV and maximum-to-minimum uniformity ratios for each lighted area equal to or less than those listed in IESNA RP-6-15 for the indicated class of play.
   3. UG levels within each lighted area and between adjacent lighted areas equal to or less than those listed in IESNA RP-6-15 for the indicated speed of sport.

4. Maintained Average Illuminance levels shall be guaranteed for 10 Years.
5. The manufacturer shall supply lighting equipment to meet or exceed the following performance criteria:

Playing Field	Avg. Maintained Footcandles	Max. to Min. Uniformity Ratio
Football	30	2 to 1

C. Color Temperature: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.

D. Playability: Lighting design and luminaire selection should be optimized for playability by reducing glare onfield and providing sufficient uplight.

1. Aiming Angles: To reduce glare, luminaire aiming should ensure the top of the luminaire field angle (based on sample photometric reports) is a minimum of 10 degrees below horizontal.
2. Glare Control Technology – Luminaires selected should have glare control technology including, but not limited to: external visors, internal shields and louvres. No symmetrical beam patterns are acceptable.
3. Aerial lighting – Adequate illumination must be provided above the field to see the ball in flight. It is recommended that a lighting analysis be performed above the field of play to evaluate the visibility of the ball over its typical trajectory to ensure the participants will adequately see the ball. Calculation planes should be evaluated up to the maximum anticipated height for the level of play.
4. Mounting Heights: To ensure proper aiming angles, minimum mountings heights shall be as described below. Higher mounting heights may be necessary for luminaire with lesser glare control to meet field angle requirements of section 1.2.C.1.

# of Poles	Pole Designation	Pole Height
3	F1, F3-F4	80’
1	F2	90’

E. Hours of usage: Designs shall be based on the following hours of usage:

Playing Field	Annual Usage Hours	10 Year Usage Hours
Football	150	1,500

F. Illumination Calculations: Computer-analyzed point method complying with IESNA RP-6 to optimize selection, location, and aiming of luminaires.
1. Grid Pattern Dimensions: For playing areas of each sport and areas of concern for spill-light control, correlate and reference calculated parameters to the grid areas and intersection points of the indicated grid pattern.
2. Spill-Light Control: Minimize spill light for each playing area on adjacent and nearby areas.
   a. Prevent light trespass on properties near Project as defined by authorities having jurisdiction.
   b. All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.
   c. Limit the level of illuminance directed past the lighted area (field of play) any luminaire or group of luminaires, and measured 36 inches above grade to the following:
      1) Maximum Horizontal Illuminance: 0.50 fc at 150 feet from edge of lighted area.
      2) Maximum Vertical Illuminance from the Direction of the Greatest Contribution of Light: 0.5 fc at 150 feet from edge of lighted area.
   d. Calculate the horizontal and vertical illuminance due to spill light for points spaced 30 feet apart to ensure that design meets the above limits.

3. Glare Control: Design illumination for each playing area to minimize direct glare in adjacent and nearby areas.
    a. Design source intensity of luminaires that may be observed at an elevation of 60 inches above finished grade from nearby properties to be less than 10,000 candela when so observed.
4. Use a field factor of 15 percent according to IESNA RP-6, in establishing initial illuminance.
5. Determine LLF according to IESNA RP-6; use LLD at 70 percent of rated lamp life.
6. Luminaire Mounting Height: Comply with recommendations in IESNA RP-6, with consideration for requirements to minimize spill light and glare.
7. The manufacturer shall provide a written guarantee that all light levels on the computer generated models (scans) for both initial and maintained light levels be measured upon completion to be within a 10% tolerance of the number indicated for that particular location on the point-by point scans. Failure to provide this guarantee during the submittal process or refusal to provide this guarantee will result in an immediate “REJECTED and RESUBMIT” until the documentation is provided as Specified.

G. Football Fields:
1. Speed of Sport: Moderate.
2. Grid Pattern Dimensions: 30 by 30 feet.

H. Electric Power Distribution Requirements:
1. Electric Power: 480 V, 3 phase.
    a. Balance load between phases. Install wiring to balance three phases at each support structure.
    b. Include required overcurrent protective devices and individual lighting control for each sports field or venue. Determine from manufacturers’ layout.
    c. Maximum Total Load Energy Consumption: The kW consumption for the field lighting system shall be 31.96kW.

I. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage

J. Quality Assurance/Control Submittals:
1. Product Data: For each type of lighting product; include the following:
    a. Lamp life, output, and energy-efficiency data. Energy data shall comply with IESNA LM-47.
    b. Photometric data based on laboratory tests of each luminaire type, complete with lamps, ballasts, and accessories.
        1) Photometric data shall be certified by manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products.
2. Delegated-Design Submittals: The following documents, signed and sealed by a qualified professional engineer:
    a. Drawings and specifications for construction of lighting system.
    b. Manufacturer's determination of LLF used in design calculations.
    c. Structural analysis data and calculations used for pole selection.
        1) Manufacturer Seismic Qualification Certification: Submit certification that sports lighting components and their mounting and anchorage provisions are designed to remain in place without separation of any parts when subjected to the seismic forces defined in Division 26 Section "Vibration and Seismic Controls for Electrical Systems" Include the following:
            a) Basis for Certification: Indicate whether withstand certifications are based on actual test of assembled components or on calculation.
            b) Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
        2) Manufacturer Wind-Load Strength Certification: Submit certification that selected total support system, including poles, complies with Part 2 Article “Support Structures” and AASHTO LTS-5 for location of Project
    d. Design calculations for the following:
        1) Target illuminance.

2) Point calculations of horizontal and vertical illuminance, CV, and UG at minimum grid size and area.
3) Point calculations of horizontal and vertical illuminance in indicated areas of concern for spill light.
4) Calculations of source intensity of luminaires observed at eye level from indicated properties nearby the playing fields.
5) Short-circuit current calculations for rating of panelboards.
6) Total connected and estimated peak-demand electrical load, in kilowatts, of lighting system.
7) Capacity of feeder(s) required to supply the lighting system.

e. Wiring requirements, including required conductors and cables and wiring methods.

3. Manufacturer Certificates: Signed by manufacturers certifying that support structures, including brackets, arms, appurtenances, bases, anchorages, and foundations, comply with requirements.
4. Qualification Data: For installer, manufacturer, and professional engineer.
5. Field quality-control test reports.

1.5 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:

1.6 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
1. Operation and Maintenance Data: For sports lighting system components to include in emergency, operation, and maintenance manuals.
2. Warranty: Special warranty specified in this Section.
3. Extra Materials: Receipt for extra materials.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 100 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
1. Manufacturer's responsibilities include fabricating sports lighting and providing professional engineering services needed to assume engineering responsibility.
2. Engineering Responsibility: Preparation of delegated-design submittals and comprehensive engineering analysis by a qualified professional engineer.

C. Luminaire Photometric Data Testing Laboratory: Provided by manufacturers' laboratories that are accredited under the National Volunteer Laboratory Accreditation Program for Energy Efficient Lighting Products.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of luminaires, lamps, and luminaire alignment products and to correct misalignment that occurs subsequent to successful acceptance tests. Manufacturer may exclude lightning damage, hail damage, vandalism, abuse, and unauthorized repairs and alterations from special warranty coverage. Manufacturer may assume 150 hours per year of operation.

1. Luminaire Warranty: Luminaire and luminaire assembly (excluding fuses) shall be free from defects in materials and workmanship for a period of twenty-five years from date of Substantial Completion.
2. Lamp Warranty: Replace lamps that fail within twenty-five years from date of successful completion of acceptance tests.
3. Alignment Warranty: Accuracy of alignment of luminaires shall remain within specified illuminance uniformity ratios for a period of twenty-five ears from date of successful completion of acceptance tests.
    a. Realign luminaires that become misaligned during the warranty period.
    b. Replace alignment products that fail within the warranty period.
    c. Verify successful realignment of luminaires by retesting as specified in Part 3 "Field Quality Control" Article.
4. Illumination Level Warranty: Illumination level shall be at least specified target illuminance for a period of twenty-five years from date of successful completion of acceptance tests.
    a. Provide group replacement of lamps to restore specified target illuminance within the warranty period.
    b. Clean fixtures as specified in Annex D of IESNA RP-6 and as recommended by manufacturer to restore specified target illuminance within the warranty period.
    c. Verify illumination levels have been restored by retesting as specified in Part 3 "Field Quality Control" Article.
5. Illumination Uniformity Warranty: Illumination uniformity shall be at least specified CV and UG in primary playing area for a period of twenty-five years from date of successful completion of acceptance tests.
    a. Provide spot replacement of LED modules and or luminaires that fail within the warranty period.
    b. Verify illumination uniformity has been restored by retesting as specified in Part 3 "Field Quality Control" Article.

1.9 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, provide 10 years' full maintenance by skilled employees of manufacturer's designated service organization. Include annual inspection. Include routine preventive maintenance as recommended by manufacturer and adjusting as required for proper operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.

1.10 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
    1. Fuses: Equal to 10 percent of amount installed for each size indicated, but no fewer than 3 units.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    1. Musco Lighting, Inc.

B. Products of other manufacturers will be considered for acceptance only when allowed in Section 260050, General Electrical Requirements.

2.2 LUMINAIRES, LAMPS, AND BALLASTS

A. Luminaires: Listed and labeled, by an NRTL acceptable to authorities having jurisdiction, for compliance with UL 1598 for installation in wet locations.

1. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit relamping without using tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent their accidental falling during relamping and when secured in operating position. Door shall be removable for cleaning or replacing lens.
2. Exposed Hardware: Stainless-steel latches, fasteners, and hinges.
3. Spill-Light Control Devices: Internal louvers and external baffles furnished by manufacturer and designed for secure attachment to specific luminaire.

B. LED Lamps:
1. 5700 Degrees Kelvin Correlated Color Temperature.
2. Lumen output as per manufacturer's requirements to meet performance requirements indicated in this Section with L70 depreciation.

C. Ballast Mounting: Grouped in cabinets, remote from location of associated luminaires, unless otherwise indicated.

2.3 SUPPORT STRUCTURES

A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.

B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.

C. System Description: Lighting system shall consist of the following:

1. Galvanized steel poles and cross-arm assembly.

2. Non-approved pole technology:

a. Square static cast concrete poles will not be accepted.

b. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long term performance concerns.

3. Lighting systems shall use concrete foundations. See Section 2.4 for details.

a. For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early pole erection, actual required minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.

b. For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-enforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.

4. Manufacturer will supply all drivers and supporting electrical equipment.

a. Remote drivers and supporting electrical equipment shall be mounted approximately

10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Integral drivers are not allowed.

b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.

5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.

6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.

7. Control cabinet to provide remote on-off control and monitoring. See Section 2.3 for further details.

8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.

   a. Integrated grounding via concrete encased electrode grounding system.

   b. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780.The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

D. Safety: All system components shall be UL listed for the appropriate application.

E. Provisions for Other Systems: Where video surveillance cameras or exterior loudspeakers are indicated, provide the following:
   1. 1 inch threaded hub at height of camera or loudspeaker.
   2. Hand hole opposite threaded hub.
   3. Mounting loops.
   4. Concrete Poles: Provide 1 inch rigid non-metallic conduit spun into pole instead of hand hole and mounting loops.
   5. For video surveillance cameras, provide NEMA 250, Type 4X enclosure at 10 feet above Grade for use by others.
   6. Poles F1 and F2 should each be designed to accommodate one type A speaker and one type B speaker on each pole. Speaker type A is 25” high by 25” wide by 31” deep with a weight of 125 pounds, mounted at xx foot above base of pole. Speaker type B is 16” high by 16” wide by 16” deep with a weight of 50 pounds, mounted at xx foot above base of pole.

F. Concrete for Pole Foundations: 3000-psi, 28-day minimum compressive strength. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."

G. Lightning Protection: Provide air terminal, down conductor, and ground terminal. Comply with NFPA 780.

2.4 POWER DISTRIBUTION

A. Wiring Method for Feeders, Subfeeders, Branch Circuits, and Control Wiring: Underground nonmetallic raceway; No. 10 AWG minimum conductor size for power wiring.

B. Electrical Enclosures Exposed to Weather: NEMA 250, Type 4 with hinged doors fitted with padlock hasps.

2.5 CONTROL SYSTEM

A. Remote Lighting Control System:
1. System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.
2. The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute “early off” commands by phone. Scheduling tool shall be capable of setting curfew limits.
3. Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

B. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).

C. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of lamp outages, control operation and service. Scheduling including relamping operations completed and scheduled. Mobile application will be provided suitable for IOS or Android operating systems.
1. Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.
a. Cumulative hours: shall be tracked to show the total hours used by the facility.
b. Current lamp hours: shall be tracked separately to reflect the amount of hours on the current set of lamps being used, so relamping can be scheduled accurately.
c. Report hours saved by using early off and push buttons by users.

D. Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 10 years.

2.6 SURGE PROTECTION

A. Surge Protection: Include surge suppressors with the following requirements:
1. Panelboard type.
2. Nonmodular, with LED indicator lights.
3. Peak Single-Impulse Surge Current Rating: 160 kA per phase.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with NECA 501.

B. Use web fabric slings (not chain or cable) to raise and set structural members.

C. Fasten each luminaire to structural supports.

D. Baffles and Louvers for Spill-Light Correction: Install on luminaires with fasteners provided by manufacturer. Install and adjust to correct out-of-limit spill-light and glare measurements.

E. Install controls and driver housings in cabinets mounted on support structure at least 10 feet above finished grade. Provide surge protection within this cabinet.

F. If any manufacturer requires more light fixtures per pole in order to meet the light levels indicated, the Contractor is responsible for installing properly sized conductors, conduit, and circuit breakers per the National Electric Code to power these fixtures.

G. Program control system for operation of the Exterior Athletic Lighting on each applicable field per the Owner's requirements.

3.2 FIELD QUALITY CONTROL

A. Perform the following field quality-control tests, inspections, and analysis according to IESNA RP-6 and IESNA LM-5, and prepare test reports:
   1. After installing sports lighting system and after electrical circuits have been energized, perform proof-of-performance field measurements and analysis for compliance with requirements.
   2. Lighting manufacturer shall provide a factory-trained representative to be available at the field site during installation. This representative shall also perform light test and summary report prior to final acceptance of project. The factory trained representative shall be on site during the Owner's final review of the installation. If the Owner and/or Engineer is not satisfied that the light levels and overall lighting uniformity meets the specifications, the factory trained representative shall assist the Contractor in re-aiming the light fixtures as required to meet the levels of the specification and the approval of the Owner and/or Engineer. Failure to do so will result in a non-acceptance of the installation.
   3. Playing and Other Designated Areas: Make field measurements at intersections of grids, dimensioned and located as specified in Part 1 "Performance Requirements" Article.
   4. Make field measurements at established test points in areas of concern for spill light and glare.
   5. Perform analysis to demonstrate correlation of field measurements with specified illumination quality and quantity values and corresponding computer-generated values that were submitted with engineered design documents, and submit a report of the analysis. For computer-generated values, use manufacturer's lamp lumens that are adjusted to lamp age at time of field testing.

B. Correction of Illumination Deficiencies for Playing Areas: Make corrections to illumination quality or quantity measured in field quality-control tests that vary from specified illumination criteria by plus or minus 10 percent or more; add or replace luminaires, or change mounting height, revise aiming, or install louvers, shields, or baffles. If luminaires are added or mounting height is changed, revise aiming and recalculate and modify or replace support structures, if indicated. Retest as specified above after repairs, adjustments, or replacements are made. Report results in writing.

C. Correction of Excessive Illumination in Spill-Light-Critical Areas: If measurements indicate that specified limits for spill light are exceeded, make corrections to illumination quantity measured in field quality-control tests that reduce levels to within specified maximum values. Replace luminaires, or change mounting heights, revise aiming, or install louvers, shields, or baffles. If mounting height is changed, revise aiming and recalculate and modify or replace support structures, if indicated. Retest as specified above after repairs, adjustments, or replacements are made. Report results in writing.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sports lighting. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 26 56 68

SECTION 27 51 17 - SOUND REINFORCEMENT SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section includes, but is not limited to:
1. Wireless collar microphone
2. Handheld microphone
3. Microphone chargers
4. Channel receiver/amplifier
5. Receivers
6. Speakers
7. Miscellaneous items such as cables, brackets, connectors, etc.

B. Related sections include the following:
1. Division 01, General Requirements
2. Division 27, Communications Sections.

1.3 QUALITY ASSURANCE

A. The Sound Reinforcement Contractor shall have a minimum of 5 years experience in the installation of these systems.

1.4 CODE

A. Must meet Federal Communications standards. (Commission Part 15)

B. Must meet National Fire Protection Association standards.

C. Must meet National Electrical Code. (NFPA 70)

D. Must be UL listed.

E. Americans with Disabilities Act.

F. Latest edition of the Telecommunications Distribution Methods Manual (TDMM).

1.5 WARRANTY

A. Components, parts, and assemblies shall be warranted against defects in materials and workmanship for a period as specified in Specification Section 270111 – Demonstration, Training and Warranty for Communications Systems.

B. All repairs shall be completed by a Factory-Trained Certified Service Technician.

C. Battery warranty shall be two (2) years from the Date of Substantial Completion.

1.6 SUBMITTALS

A. Provide product data for the following:
1. Wireless microphone

2. System receivers/amplifiers
3. Receiver/sensors
4. Speakers
5. Cabling

B. See Specification Section 270500 - Common Work Results For Communications for additional submittal requirements.

1.7 OWNER TRAINING

A. Provide training as specified in Specification Section 270111 – Demonstration, Training and Warranty of Communications Systems.

1.8 APPROVED MANUFACTURERS

A. Teachlogic Sound Learning, Maxim

B. Lightspeed Technologies

1.9 RECORD DRAWINGS / OPERATION AND MAINTENANCE MANUAL

A. Provide record drawings and operation and maintenance manuals, as described in Specification Section 270100 – Operation and Maintenance of Communications Systems and Section 270500 - Common Work Results for Communications Systems.

B. Record the serial number and location of each amplifier on the Equipment Spreadsheet. Include with the Operation and Maintenance Manuals.

PART 2 - PRODUCTS

2.1 Provide sound reinforcement system with the following requirements:

A. Overall System Specifications:
1. Carrier frequencies (IR): 2.06/2.54 MHz Switchable
2. Frequency stability: +/-3%
3. Maximum deviation: +/- 50KHz
4. Dynamic range: > 73 dB
5. Signal-to-Noise ration: > 73 dB
6. Frequency response: 40 Hz – 20 KHz
7. Emergency page priority.

B. Ceiling Mounted Sensor
1. Carrier frequencies: 2.06-2.8 MHz
2. Receiver sensitivity: 6µV for 60 dB
3. Image and spurious rejection: >40 dB
4. Reception selectivity: 40 kHz
5. Power: From the amplifier
6. Range: Minimum 60 ft., 360 degrees.
7. Coverage: 1000 s/f minimum

C. Amplifier/Receiver
1. Power output (THD = 10%): Minimum 30 watts total
2. Total harmonic distortion: < 1%
3. Power supply (UL listed): 19-25 VDC, Maximum 3.4 Amps
4. Sound Control: Equalizer or Tone Control
5. Auxiliary Audio Inputs: Minimum of three
6. IR Sensor Inputs (2): F-Connector
7. Speaker Output Jacks: Connectors for 2 or 4 speaker setup
8. Assistive Listening Output: One

D. Controls
1. Power: Switch with LED indicator
2. Microphone volume controls: two
3. Equalization: Equalizer or tone control
4. Speaker on/off switches
5. Auxiliary input volume controls
6. FM/auxiliary output controls
7. Assistive Listening Output control

E. Pendant Style Microphone/Transmitter and Charger (one unit)
1. Sub-carrier frequencies: 2.00/2.54 MHz
2. Audio distortion : <1%
3. Microphone input impedance: 2.2k Ohms
4. Built-in microphone element type: Uni-directional, Electret
5. Microphone gain adjustment : maximum to -50dB
6. Frequency stability: ± 3%
7. Spurious emissions: > 30 dB below the carrier
8. Battery power: (NiMH) Nickel Metal Hydride or Lithium- ion rechargeable batteries
9. Lanyard: Adjustable with safety clasp
10. Built-in on/off control
11. Built-in mute control
12. Built-in microphone volume control
13. Built-in microphone/aux. input jack

F. Handheld Microphone / Transmitter and Charger (one unit)
1. Sub-carrier frequencies: 2.06/2.54 MHz switchable
2. Audio distortion : <1%
3. Microphone element type: Uni-directional, dynamic
4. Battery Power: (NiMH) Nickel Metal Hydride or Lithium- ion rechargeable batteries
5. Built-in on/off control

G. Recessed Ceiling Speakers (see drawings for quantities in each location)
1. Description: 8 inch round, coaxial
2. Magnetic weight and type: 10 oz, ceramic
3. Frequency response: 100 Hz – 14 KHz nominal
4. Impedance: 8Ω
5. Power handling: 25 W minimum
6. Provide speaker enclosure to meet UL2043 plenum rating.
7. Provide lay in ceiling metal tile bridge.
8. Provide perforated painted white metal grille.

H. Surface Wall-Mounted Speakers (see drawings for quantities in each location)
1. DCR: 8 Ω
2. Frequency: 60 – 20 KHZ
3. Panel size: 7.5"H x 4.6"W x 4.7"D
4. Power: 30 watt minimum
5. Wall bracket
6. Provide in rooms without ceilings or as shown on the drawings.

2.2 SOUND REINFORCEMENT SYSTEM CABLING

A. All sound reinforcement system cables shall be plenum rated.

B. Cables shall be provided as part of the sound reinforcement system package.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Provide sound reinforcement sound systems as shown on the drawings.

B. The sound reinforcement system shall be installed by a factory authorized contractor in accordance with the manufacturer's installation instructions.

C. Speakers shall be located per manufacturer’s recommendations. Generally, in two speaker and four speaker locations the listening area will be divided into sections, halves or quarters, and the speakers shall be installed in the middle of each section.

D. The sound reinforcement system shall be connected to the video display devices in each room with patch cords provided by this contractor.

E. Tap the speakers as recommended by the manufacturer.

F. Provide surface raceways, boxes, conduits, fittings, patch cords, speaker supports, and brackets, unless shown to be provided by others.

G. This Contractor shall be responsible for cutting ceiling tiles to install the sound reinforcement system speakers. Coordinate with the ceiling contractor.

H. Provide the quantity of external sensors required and locate them per the manufacturer’s recommendation for complete coverage of the space.

I. Sound reinforcement system cables shall be supported by cable supports provided by this contractor. Supports shall meet BICSI, EIA, TIA requirements. Refer to Specification Section 270528 – Pathways for Communications Systems for cable support requirements. Cables are not to be supported at or on the building structural steel, ceiling grid, ceiling supports, mechanical piping or other installations.

J. Provide labeling per ANSI/EIA/TIA-606 requirement and Specification Section 270553 – Identification for Communications Systems.

K. Microphones shall be plugged into the chargers and ready for use.

3.2 SYSTEM PERFORMANCE

A. Installation shall comply with manufacturer’s specifications.

B. The system shall be tuned and adjusted for optimum vocal clarity.

END OF SECTION 27 51 17

SECTION 28 23 11
IP VIDEO SURVEILLANCE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. SECURITY CAMERAS
1. *Type 1 - PNM-C12083RVD*
2. *Type 2 - PNM-C7083RVD*
3. *Type 3 - PNM-C16013RVQ*
4. *Type 4 - PNM-C32083RVQ*
5. *Type 5 - PNM-8082VT*
6. *Type 6 - XNV-A9084R*
7. *Type 7 - QNV-C8013R*
8. *Type 8 - PNM-C32083RQZ*

1.2 SUMMARY

A. These specifications outline the acceptable characteristics for materials and equipment and define, in general terms, the configuration of the security system technologies to be installed and made fully operational by the selected Security System Contactor <Contractor>.

B. <Contractor> shall have total responsibility (except where noted) for ensuring the system is installed completely and functional, consistent with the manufacturer's specifications, and all applicable codes and standards are met. Where required by the various codes, the vendor is responsible for obtaining the necessary approval(s) of the Authority Having Jurisdiction (AHJ).

C. Section includes a video surveillance camera system consisting of cameras and mounts connected to the building network with Hanwha Vision America WAVE video servers, software, monitors, and workstations unless otherwise stated.

D. Any aspect of these specifications, or future addendum that appears to the Contractor to fall outside applicable codes or standards shall immediately be brought to the attention of the <Owner>.

1.3 RELATED SECTIONS

A. Division 25 Integrated Automation

B. Division 26 – Electrical Specialties

C. Division 27 – Communications Specialties

D. Division 28 Electronic Safety and Security

1.4 CODES AND STANDARDS

A. Code of Federal Regulations (CFR).

B. Institute of Electrical and Electronics Engineers (IEEE):

C. International Electrotechnical Commission (IEC).

D. Federal Communications Commission (FCC):

E. FCC Rules and Regulations of Title 47 of CFR Part 15 Subpart B Class A.

F. Open Network Video Interface Forum (ONVIF):
1. ONVIF - Profiles S Specification.

G. Underwriters Laboratories (UL):

H. National Defense Authorization Act (NDAA)

I. A series of United States of America Federal Laws that include equipment sourcing guidance and standards.

1.5 GENERAL REQUIREMENTS

A. All materials shall be based on ONVIF Standards that do not prohibit use with future changes to the security system. This would include cameras being usable if the video management system is changed.

B. <Contractors> shall provide all necessary licensing, related plug-ins, third-party applications, and other project-required integration for the security system.

C. <Contractor> shall review all necessary camera infrastructure needs, including conduit, network, data drops, pathways, and other supporting system infrastructure, with the responsible contractor.

D. Cameras located on the facility's exterior shall have appropriate surge protection in place for each device.

1.6 QUALITY ASSURANCE

a. Installer Qualifications: Manufacturer's authorized representatives, who is trained and approved for installation of units required for this Project.

b. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

c. Comply with NFPA 70.

d. Comply with NFPA 730- Guide for Premises Security.

e. Comply with NFPA 731- Standard for the Installation of Electronic Premises Security.

f. Electronic data exchange between IP video surveillance systems with an access control system shall comply with SIA TVAC.

g. TIA/EIA-607 telecommunications grounding.

h. Latest edition of BISCI – TDMM – manual

i. Americans with Disabilities Act (ADA)

j. The camera shall meet FCC, Part 15 standard.

k. The camera shall meet ICES003, standard.

l. The camera shall meet MPEG-4 standard.

m. The camera shall meet IEEE 802.3 af (P.O.E. standard)

n. Provide labeling per ANSI/EIA/TIA-606 requirement and in accordance with the Owner and Technology Consultant.

o. FCC class B.

p. NEMA Type 4AX

q. NTSC/EIA.

r. ISO/IEC 14496-2 MPEG-4

s. H.262

B. Latest ANSI TIA/EIA-568,569,606 and 607 Standard.Manufacturer to supply, install, configure, integrate, test, and commission the system.

C. Installer(s) working on this project must possess a valid Hanwha Vision Video Professional certificate verifying Installation and Service Training completion.

1.7 PROPOSAL SUBMITTALS

A. Follow all requirements noted on the Form of Proposal and head-end bidding documents if provided.

B. System Integrator shall provide the following submittals as part of the project submittal package:

1. *A bill of materials of all equipment with counts, part numbers, and manufacturer.*
2. *Software manufacturer, name, and version.*
3. *New or additional camera channel licenses.*
4. *Server(s), storage devices and workstation(s) required.*
5. *Third-party software, if required by the project.*
6. *Locations and details for all components to be installed under this scope of work.*
7. *Shop drawing showing the proposed location of all system hardware devices.*
8. *System Calculation of all network bandwidth and storage requirements for System Servers to ensure proper computing and networking infrastructure planning, based on the requirements outlined within these specifications.*

C. Provide installation diagrams and pertinent information for all devices, i.e., rack space for recorders, power/data requirements, rough-ins, and mounting details.

1.8 PRE-CONSTRUCTIONTION SUBMITTALS

A. After the project is awarded, the contractor shall provide any additional submittals not included in the original pre-bid submittal package.

B. Product Data: For each type of product indicated. Include dimensions and data on features, performance, electrical characteristics, ratings, and finishes.

C. Shop Drawings: For video surveillance. Include plans, elevations, sections, details, and attachments to other work.

D. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

1. ***Functional Block Diagram: Show single-line interconnections between components for signal transmission and control. Show cable types and sizes.***
2. ***Dimensioned plan and elevations of equipment racks, control panels, and consoles. Show access and workspace requirements.***
3. ***Wiring Diagrams: For power, signal, and control wiring.***
4. ***Floor and site plans showing camera locations with camera identification numbers.***

E. Equipment List: Include equipment by model number, manufacturer, serial number, location, and date of original installation. Add pretesting record of each piece of equipment, listing name of person testing, date of test, set points of adjustments, name and description of the view of preset positions, description of alarms, and description of unit output responses to an alarm.

F. Server and storage sizing requirements to allow the owner to respond to this system expansion based on the following criteria.

1. ***Contractor shall appropriately size the servers and storage to minimally meet the following requirements:***
   a. ***<RAID >> Configuration.***
   b. ***30-days immediately accessible on-board recording to review recorded events.***
   c. ***Bandwidth and Storage shall be configured for minimal <50%> motion (indoor)/ <75%> (outdoor), recorded at the camera's highest resolution at a minimum of <10-frames> (indoor)/<15-frames>per second (outdoor).***
   d. ***Recording resolution at H.265 with smart codec compression enabled.***

G. Provide and install all necessary mounting accessories to include caps, mounts, brackets, pendants, etc., as necessary for the environment to accommodate the field of views required by the owner. Please find the appropriate options here: https://www.hanwhavisionamerica.com/mount-selector/

1.9 ONGOING SUPPORT AND WARRANTY

a. The IP video surveillance system shall carry a warranty as specified in the Section, "Demonstration and Training of Communications Systems".

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in the manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.

B. Handling: Handle materials to avoid damage.

1.11 PROJECT CONDITIONS

A. For optimum results, maintain environmental conditions (temperature, humidity, and ventilation) within the limits recommended by the manufacturer. Do not install products under environmental conditions outside the de manufacturer's recommended limits.

1.12 SEQUENCING

A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 SECURITY CAMERAS

A. PNM-C12083RVD | TYPE 1
1. EQUIPMENT
a. Manufacturer : Hanwha Vision (http://security.hanwhaVision.com/)
b. Model : PNM-C12083RVD
c. Alternates : None
2. GENERAL DESCRIPTION
a. Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.
1) H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously
a) H.265 and H.264 – frame rates to 15fps
b) MJPEG – frame rates to 15fps
2) The camera shall be able to configure up to 5 independent video stream per channel with differing encoding, quality, frame rate, resolution, and bit rate settings.
3) Resolution selections3328 x 1872, 3072 x 1728, 2592 x 1944, 2688 x 1520, 1920x1080, 1600 x 1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
4) Simultaneous unicast access by up to 10 users
5) Multicast or unicast capable
6) Dynamic DNS (DDNS) support.
7) WiseStream and Dynamic GOV to efficiently manage bitrate of the video stream.
b. Camera – The camera device shall have the following physical and performance properties:
1) IP66, IK10, NEMA4X rated for protection against impacts
2) Auto day/night operation with removable IR cut filter
3) 2D and 3D digital noise reduction
4) Integral IR illumination, providing effective visibility of 25m(65.62ft) based on scene at 0 Lux when activated in Black & White mode
5) 6 privacy masking regions utilizing quadrangle
c. Intelligence and Analytics – The camera shall have a suite of integral intelligent operations and analytic functions to include:
1) Motion detection with eight definable detection areas, minimum / maximum object size definition and a learning algorithm that ignores false alarms such as trees and waves on water.
2) Detection of logical events of specified conditions from the camera's video input
a) Classified object type : Person / Face / Vehicle / License plate

b) Attributes: Vehicle (Type: car / bus / truck / motorcycle / bicycle)

c) Analytics events based on AI engine: Object detection, Virtual line (Crossing / Direction), Virtual area (Loitering / Intrusion / Enter / Exit)

*d) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Shock detection, Virtual area (Appear / Disappear) *Support Audio detection, Sound classification via optional SPM-4210 I/O box*

d. Interoperability – The camera shall be ONVIF Profile S / T compliant.

e. The camera shall possess the following further characteristics:

1) Built-in web server, accessed via standard browsers including MS Edge, Firefox, Chrome and Safari

2) Micro SD/SDHC/SDXC memory card and NAS recording options, with configurable pre-alarm and post-alarm recording intervals

3) Alarms and notifications

a) alarm notification triggers:

1) alarm input via optional SPM-4210 I/O box

2) video analytics

3) network disconnect

b) available notification means upon trigger:

1) file upload via FTP and e-mail

2) notification via e-mail

3) record to local storage (SD/SDHC/SDXC card)

4) Handover(PTZ Preset, Send message by HTTP/HTTPS/TCP)

5) Alarm output via optional SPM-4210 I/O box

4) Pixel Counter available in the plug-in web viewer.

5) POE+ capable

3. DETAILED SPECIFICATIONS

a. Video

1) Image

a) Sensor : 1/2.8" 6M CMOS x 2CH

1) pixels per sensor : 3328 (H) x 1872 (V)

2) scanning : progressive

b) Minimum illumination

1) Color mode : 0.16Lux(F1.67, 1/30sec, 30IRE)

2) Black & white mode (IR LED off) : 0.016Lux(F1.67, 1/30sec, 30IRE)

3) Black & white mode (IR LED on) : 0Lux

c) The following features with control settings shall be available:

1) Camera Title

a) Off / On (Displayed up to 85 characters)

b) English / Numeric / Special characters

c) Multi-line (Max. 5lines), Color (Grey / Green / Red / Blue / Black / White), Transparency, Size (Small, Medium, Large)

2) Day/night : Auto (ICR)

3) Backlight compensation : BLC, WiseDR

4) WDR : extremeWDR(120dB)

5) Digital Noise Reduction (DNR) : WiseNR Ⅱ(Based on AI engine), SSNR Ⅴ

6) Defog : Support

7) Motion Detection : Off / On (8ea, 8 point polygonal zones)

8) Privacy Masking : Off / On (6ea, quadrangle zones)

a) Color : Gray / Black / White

9) Gain Control : Support

10) White Balance : ATW / AWC / Manual / Indoor / Outdoor

11) Electronic shutter speed : Minimum / Maximum / Anti flicker (1/5 ~ 1/12,000sec), Auto prefer shutter control(Based on AI engine)

12) Image flip : Off / On

13) Image mirror : Off / On

14) Hallway view : Off / On (90° / 270°), Each channel separately

15) Analytics

a) Classified object type : Person / Face / Vehicle / License plate

b) Attributes : Vehicle (Type: car / bus / truck / motorcycle / bicycle)

c) Support Bestshot

d) Analytics events based on AI engine : Object detection, Virtual line (Crossing / Direction), Virtual area (Loitering / Intrusion / Enter / Exit)

e) Analytics events: Defocus detection, Motion detection, Tampering, Virtual area (Appear / Disappear) *Support Audio detection, Sound classification via optional SPM-4210 I/O box*

16) Alarm I/O : Support Alarm via optional SPM-4210 I/O box

17) Alarm Triggers : Analytics, Network disconnect, Alarm input via optional SPM-4210 I/O box

18) Alarm Events

a) File upload via FTP and e-mail

b) Notification via e-mail

c) SD/SDHC/SDXC or NAS recording at Event Triggers

d) Handover(PTZ Preset, Send message by HTTP/HTTPS/TCP)

e) Alarm output via optional SPM-4210 I/O box

19) Video Out for installation

a) USB: micro USB Type B, 1280x720

d) Lens : 3.54 ~ 6.69mm (Optical 1.9x) motorized varifocal

1) Max. Aperture Ratio : F1.67(Wide) ~ F2.64(Tele)

2) FoV

a) H : 95.08˚(Wide) ~ 47.64˚(Tele) / V : 50.78˚(Wide) ~ 26.7˚(Tele)

b) D : 112.6˚(Wide) ~ 57.74˚(Tele)

3) Min. Object Distance : 1.5m (4.92ft)

4) Lens Type : Fixed iris

5) Focus Control : Simple focus

e) Pan /Tilt / Rotate

1) 0 ~ 355 ˚ / 0 ~ 78 ˚ / 0 ~ 180 ˚

f) DORI (EN62676-4 standard)

1) Detect : Wide: 60.9m(199.82ft) / Tele: 150.8m(494.65ft)

2) Observe : Wide: 24.4m(79.93ft) / Tele: 60.3m(197.86ft)

3) Recognize : Wide: 12.2m(39.96ft) / Tele: 30.2m(98.93ft)

4) Identify : Wide: 6.1m(19.98ft) / Tele: 15.1m(49.46ft)

2) IR Viewable Length : 25m(65.62ft) based on scene

3) Video Streams

a) The camera shall be able to produce 5 video profiles per

channel, each of which may have the following properties:

1) Encoding type : H.265, H.264, MJPEG

2) Resolution:

a) 3328 x 1872, 3072 x 1728, 2592 x 1944, 2688 x 1520, 1920x1080, 1600 x 1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240

3) Frame rate

a) H.265 and H.264 : Max.15fps

b) MJPEG : Max. 15fps

4) Smart Codec : Manual(5ea area), WiseStream Ⅱ, WiseStream Ⅲ(Based on AI engine)

5) Bit rate control

a) H.265 and H.264 : target bitrate level control, constant bit rate (CBR) or variable bit rate (VBR)

b) MJPEG : quality level control, variable bit rate (VBR)

4) Number of multi-streaming profiles : 5 profiles per channel

5) Simultaneous users (total) : 10 maximum (unicast)

6) Storage and Recording

a) The camera shall have onboard SD card storage.

1) Card type : Micro SD/SDHC/SDXC

2) Capacity : Up to 512GB (1 slot)

3) Image content on the card shall have the ability to be downloaded to a selected destination.

b) NAS

7) Interoperability - Video streams shall be capable of supporting ONVIF protocol, profiles S / T.

8) Single Images - The camera shall support jpg file image screenshot and export.

9) Memory : 4GB RAM, 512MB Flash

b. Network

1) Connectivity : Metal shielded RJ-45(10/100/1000BASE-T)

2) Protocols supported :

a) Transmission Control Protocol (TCP), Internet Protocol (IP) v4 and v6, User Datagram Protocol (UDP)

b) Configuration: Dynamic Host Configuration Protocol (DHCP)

c) Web services: Hypertext Transfer Protocol (HTTP), Secure HTTP (HTTPS)

d) Security: Secure Sockets Layer(SSL)/Transport Layer Security(TLS)

e) Network services: Address Resolution Protocol (ARP), Bonjour, Domain Name System (DNS), Internet Control Message Protocol (ICMP), Link Layer Discovery Protocol(LLDP), Network Time Protocol (NTP), Protocol Independent Multicast-Sparse Mode (PIM-SM), Simple Network Management Protocol (SNMP v1/2c/3 – MIB-2), Universal Plug and Play (UPnP)

f) Media: Real-Time Transport Protocol (RTP), Real-Time Control Protocol, Real-Time Streaming Protocol (RTSP), Secure Real-Time Transport Protocol(SRTP)

g) Multicast: Internet Group Management Protocol (IGMP)

h) Notifications: File Transfer Protocol (FTP), Simple Mail Transfer Protocol (SMTP)

3) DDNS

a) The camera shall support DDNS services offered by the

Manufacturer and other publicly available service offerings.

4) Quality of Service (QoS)

a) Layer 3 DSCP

5) Security features

a) TPM 2.0 (FIPS 140-2 level 2)

b) HTTPS(SSL) Login Authentication

c) Digest Login Authentication

d) IP Address Filtering

e) User access log

f) 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)

g) Device Certificate(Hanwha Vision Root CA, pre-installed)

h) Secure by default certificate

i) Secure OS/Boot/Storage, Verify firmware forgery

6) Application Programming Interface

a) ONVIF Profile S / T, SUNAPI(HTTP API), Wisenet open platform

7) Discovery

a) Manufacturer shall offer a discovery program to identify all devices of his manufacture on the network.

c. Audio

1) Audio In via optional SPM-4210 I/O box

2) Audio Out via optional SPM-4210 I/O box

d. Electrical

1) Input Voltage : PoE+ (IEEE802.3at, Class4)

2) Power consumption

a) PoE+ : Max 21W, Typical 16.5W

e. Mechanical And Environmental

1) Material : Aluminum, Hard-coated dome bubble

2) Dimensions (W x D x H) : 215 x 135 x 93.2mm (8.46 x 5.31 x 3.67")

3) Weight : 1330g (2.86lb)

4) Temperature And Humidity

a) Operating : -40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH (Non-condensing)

b) Storage : -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH (Non-condensing)

5) Environmental Rating

a) IP66

b) IK10

c) NEMA4X

6) RAL Code

a) RAL9003

7) Compatible Conduit hole / Gangbox

a) 3/4" (M25)

b) single, double, 4" octagon, 4" square

f. EMC & Safety

1) FCC 47 CFR Part 15 Subpart B

a) ANSI C63.4-2014 Class A

2) IC Regulation ICES-003 Issue 7

a) ANSI C63.4a-2017 Class A

3) CE EMC-Directive 2014/30/EU

a) EN 55032:2015/A11:2020

b) EN 50130-4:2011

4) UK EMC-Regulations 2016/1091

a) BS EN 55032:2015/A11:2020 Class A

b) BS EN 50130-4:2011/a1:2014

5) *NEMA 250-2014*
6) *VCCI-CISPR 32:2016 Class A*
7) *AS/NZS CISPR32:2015 Class A*
8) *UL listed*
9) *CE EN 50581:2012 (RoHS)*
10) *BS EN 50581:2012 (RoHS)*

B. *PNM-C7083RVD | TYPE 2*
1. *EQUIPMENT*
a. *Manufacturer : Hanwha Vision (http://security.hanwhaVision.com/)*
b. *Model : PNM-C7083RVD*
c. *Alternates : None*
2. *GENERAL DESCRIPTION*
a. *Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.*
1) *H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously*
a) *H.265 and H.264 – frame rates to 30fps/25fps(60Hz/50Hz)*
b) *MJPEG – frame rates to 30fps/25fps(60Hz/50Hz)*
2) *The camera shall be able to configure up to 5 independent video stream per channel profiles with differing encoding, quality, frame rate, resolution, and bit rate settings.*
3) *Resolution selections1920x1080, 1600 x 1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240*
4) *Simultaneous unicast access by up to 10 users*
5) *Multicast or unicast capable*
6) *Dynamic DNS (DDNS) support.*
7) *WiseStream and Dynamic GOV to efficiently manage bitrate of the video stream.*
b. *Camera – The camera device shall have the following physical and performance properties:*
1) *IP66, IK10, NEMA4X rated for protection against impacts*
2) *Auto day/night operation with removable IR cut filter*
3) *2D and 3D digital noise reduction*
4) *Integral IR illumination, providing effective visibility of 15m(49.21ft) at 0 Lux when activated in Black & White mode*
5) *6 privacy masking regions utilizing quadrangle*
c. *Intelligence and Analytics – The camera shall have a suite of integral intelligent operations and analytic functions to include:*
1) *Motion detection with eight definable detection areas, minimum / maximum object size definition and a learning algorithm that ignores false alarms such as trees and waves on water.*
2) *Detection of logical events of specified conditions from the camera's video input*
a) *Classified object type : Person / Face / Vehicle / License plate*
b) *Attributes: Vehicle (Type: car / bus / truck / motorcycle / bicycle)*
c) *Analytics events based on AI engine: Object detection, Virtual line (Crossing / Direction), Virtual area (Loitering / Intrusion / Enter / Exit)*
d) *Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Shock detection, Virtual area (Appear / Disappear) *Support Audio detection, Sound classification via optional SPM-4210 I/O box*

d. Interoperability – The camera shall be ONVIF Profile S / T compliant.

e. The camera shall possess the following further characteristics:

1) Built-in web server, accessed via standard browsers including MS Edge, Firefox, Chrome and Safari

2) Micro SD/SDHC/SDXC memory card and NAS recording options, with configurable pre-alarm and post-alarm recording intervals

3) Alarms and notifications

a) alarm notification triggers:

1) alarm input via optional SPM-4210 I/O box

2) video analytics

3) network disconnect

b) available notification means upon trigger:

1) file upload via FTP and e-mail

2) notification via e-mail

3) record to local storage (SD/SDHC/SDXC card)

4) Handover(PTZ Preset, Send message by HTTP/HTTPS/TCP)

5) Alarm output via optional SPM-4210 I/O box

4) Pixel Counter available in the plug-in web viewer.

5) POE+ capable

3. DETAILED SPECIFICATIONS

a. Video

1) Image

a) Sensor : 1/2.8" 2M CMOS x 2CH

1) pixels per sensor : 1920 (H) x 1080 (V)

2) scanning : progressive

b) Minimum illumination

1) Color mode : 0.035Lux(F2.2, 1/30sec, 30IRE)

2) Black & white mode (IR LED off) : 0.0035Lux(F2.2, 1/30sec, 30IRE)

3) Black & white mode (IR LED on) : 0Lux

c) The following features with control settings shall be available:

1) Camera Title

a) Off / On (Displayed up to 85 characters)

b) English / Numeric / Special characters

c) Multi-line (Max. 5lines), Color (Grey / Green / Red / Blue / Black / White), Transparency, Size (Small, Medium, Large)

2) Day/night : Auto (ICR)

3) Backlight compensation : BLC, WiseDR

4) WDR : extremeWDR(120dB)

5) Digital Noise Reduction (DNR) : WiseNR Ⅱ(Based on AI engine), SSNR Ⅴ

6) Defog : Support

7) Motion Detection : Off / On (8ea, 8 point polygonal zones)

8) Privacy Masking : Off / On (6ea, quadrangle zones)

a) Color : Gray / Black / White

9) Gain Control : Support

10) White Balance : ATW / AWC / Manual / Indoor / Outdoor

11) Electronic shutter speed : Minimum / Maximum / Anti flicker (1/5 ~ 1/12,000sec), Auto prefer shutter control(Based on AI engine)

12) Image flip : Off / On

13) Image mirror : Off / On

14) Hallway view : Off / On (90° / 270°), Each channel

separately

15) *Analytics*
    a) *Classified object type : Person / Face / Vehicle / License plate*
    b) *Attributes : Vehicle (Type: car / bus / truck / motorcycle / bicycle)*
    c) *Support Bestshot*
    d) *Analytics events based on AI engine : Object detection, Virtual line (Crossing / Direction), Virtual area (Loitering / Intrusion / Enter / Exit)*
    e) *Analytics events*: Defocus detection, Motion detection, Tampering, Virtual area (Appear / Disappear) *Support Audio detection, Sound classification via optional SPM-4210 I/O box*
16) *Alarm I/O : Support Alarm via optional SPM-4210 I/O box*
17) *Alarm Triggers : Analytics, Network disconnect, Alarm input via optional SPM-4210 I/O box*
18) *Alarm Events*
    a) *File upload via FTP and e-mail*
    b) *Notification via e-mail*
    c) *SD/SDHC/SDXC or NAS recording at Event Triggers*
    d) *Handover(PTZ Preset, Send message by HTTP/HTTPS/TCP)*
    e) *Alarm output via optional SPM-4210 I/O box*
19) *Video Out for installation*
    a) *USB: micro USB Type B, 1280x720*

d) *Lens : 3 ~ 6mm (Optical 2x) motorized varifocal*
1) *Max. Aperture Ratio : F2.2(Wide) ~ F3.1(Tele)*
2) *FoV*
    a) *H : 107˚(Wide) ~ 56.3˚(Tele) / V : 57˚(Wide) ~ 31.5˚(Tele)*
    b) *D : 126˚(Wide) ~ 64.3˚(Tele)*
3) *Min. Object Distance : 0.5m (1.64ft)*
4) *Lens Type : Fixed iris*
5) *Focus Control : Simple focus*

e) *Pan /Tilt / Rotate*
1) *0 ~ 355 ˚ / 0 ~ 78 ˚ / 0 ~ 180 ˚*

f) *DORI (EN62676-4 standard)*
1) *Detect : Wide: 28.4m(93.22ft) / Tele: 71.8m(235.45ft)*
2) *Observe : Wide: 11.4m(37.29ft) / Tele: 28.7m(94.18ft)*
3) *Recognize : Wide: 5.7m(18.64ft) / Tele: 14.4m(47.09ft)*
4) *Identify : Wide: 2.8m(9.32ft) / Tele: 7.2m(23.55ft)*

2) *IR Viewable Length : 15m (49.21ft)*
3) *Video Streams*

a) *The camera shall be able to produce 5 video profiles per channel, each of which may have the following properties:*
1) *Encoding type : H.265, H.264, MJPEG*
2) *Resolution:*
    a) *1920x1080, 1600 x 1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240*
3) *Frame rate*
    a) *H.265 and H.264 : Max. 30fps/25fps(60Hz/50Hz)*
    b) *MJPEG : Max. 30fps/25fps(60Hz/50Hz)*

4) *Smart Codec : Manual(5ea area), WiseStream Ⅱ, WiseStream Ⅲ(Based on AI engine)*
5) *Bit rate control*
a) *H.265 and H.264 : target bitrate level control, constant bit rate (CBR) or variable bit rate (VBR)*
b) *MJPEG : quality level control, variable bit rate (VBR)*

4) *Number of multi-streaming profiles : 5 profiles per channel*
5) *Simultaneous users (total) : 10 maximum (unicast)*
6) *Storage and Recording*
a) *The camera shall have onboard SD card storage.*
1) *Card type : Micro SD/SDHC/SDXC*
2) *Capacity : Up to 512GB (1 slot)*
3) *Image content on the card shall have the ability to be downloaded to a selected destination.*
b) *NAS*
7) *Interoperability - Video streams shall be capable of supporting ONVIF protocol, profiles S / T.*
8) *Single Images - The camera shall support jpg file image screenshot and export.*
9) *Memory : 2GB RAM, 512MB Flash*

b. *Network*
1) *Connectivity : Metal shielded RJ-45(10/100/1000BASE-T)*
2) *Protocols supported :*
a) *Transmission Control Protocol (TCP), Internet Protocol (IP) v4 and v6, User Datagram Protocol (UDP)*
b) *Configuration: Dynamic Host Configuration Protocol (DHCP)*
c) *Web services: Hypertext Transfer Protocol (HTTP), Secure HTTP (HTTPS)*
d) *Security: Secure Sockets Layer(SSL)/Transport Layer Security(TLS)*
e) *Network services: Address Resolution Protocol (ARP), Bonjour, Domain Name System (DNS), Internet Control Message Protocol (ICMP), Link Layer Discovery Protocol(LLDP), Network Time Protocol (NTP), Protocol Independent Multicast-Sparse Mode (PIM-SM), Simple Network Management Protocol (SNMP v1/2c/3 – MIB-2), Universal Plug and Play (UPnP)*
f) *Media: Real-Time Transport Protocol (RTP), Real-Time Control Protocol, Real-Time Streaming Protocol (RTSP), Secure Real-Time Transport Protocol(SRTP)*
g) *Multicast: Internet Group Management Protocol (IGMP)*
h) *Notifications: File Transfer Protocol (FTP), Simple Mail Transfer Protocol (SMTP)*
3) *DDNS*
a) *The camera shall support DDNS services offered by the Manufacturer and other publicly available service offerings.*
4) *Quality of Service (QoS)*
a) *Layer 3 DSCP*
5) *Security features*
a) *TPM 2.0 (FIPS 140-2 level 2)*
b) *HTTPS(SSL) Login Authentication*
c) *Digest Login Authentication*
d) *IP Address Filtering*
e) *User access log*
f) *802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP*

MSCHAPv2)

g) Device Certificate(Hanwha Vision Root CA, pre-installed)

h) Secure by default certificate

i) Secure OS/Boot/Storage, Verify firmware forgery

6) Application Programming Interface

a) ONVIF Profile S / T, SUNAPI(HTTP API), Wisenet open platform

7) Discovery

a) Manufacturer shall offer a discovery program to identify all devices of his manufacture on the network.

c. Audio

1) Audio In via optional SPM-4210 I/O box

2) Audio Out via optional SPM-4210 I/O box

d. Electrical

1) Input Voltage : PoE+ (IEEE802.3at, Class4)

2) Power consumption

a) PoE+ : Max 20W, Typical 15.5W

e. Mechanical And Environmental

1) Material : Aluminum, Hard-coated dome bubble

2) Dimensions (W x D x H) : 215 x 135 x 93.2mm (8.46 x 5.31 x 3.67")

3) Weight : 1330g (2.86lb)

a) Temperature And Humidity1Operating : -40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH (Non-condensing)

b) Storage : -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH (Non-condensing)

4) Environmental Rating

a) IP66

b) IK10

c) NEMA4X

5) RAL Code

a) RAL9003

6) Compatible Conduit hole / Gangbox

a) 3/4" (M25)

b) single, double, 4" octagon, 4" square

f. EMC & Safety

1) FCC 47 CFR Part 15 Subpart B

a) ANSI C63.4-2014 Class A

2) IC Regulation ICES-003 Issue 7

a) ANSI C63.4a-2017 Class A

3) CE EMC-Directive 2014/30/EU

a) EN 55032:2015/A11:2020

b) EN 50130-4:2011

4) UK EMC-Regulations 2016/1091

a) BS EN 55032:2015/A11:2020 Class A

b) BS EN 50130-4:2011/a1:2014

5) NEMA 250-2014

6) VCCI-CISPR 32:2016 Class A

7) AS/NZS CISPR32:2015 Class A

8) UL listed

9) CE EN 50581:2012 (RoHS)

10) BS EN 50581:2012 (RoHS)

C. PNM-C16013RVQ | TYPE 3

1. EQUIPMENT

a. Manufacturer : Hanwha Vision (https://www.hanwhavision.com)

b. Model : PNM-C16013RVQ

c. Alternates : none

2. GENERAL DESCRIPTION

a. Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.

1) H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously

a) H.265 and H.264 – frame rates to 15/15 fps

b) MJPEG – frame rates to 15/15 fps @4MP Max. 5fps

2) The camera shall be able to configure up to 10 independent video stream profiles with differing encoding, quality, frame rate, resolution, and bit rate settings.

3) Resolution selections

a) 2592x1520, 1920x1080, 640x360

4) Simultaneous unicast access by up to 10 users

5) Multicast or unicast capable

6) Dynamic DNS (DDNS) support.

7) WiseStream and Dynamic GOV to efficiently manage bitrate of the video stream.

b. Camera – The camera device shall have the following physical and performance properties:

1) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range.

2) IP66, IK09, NEMA4X rated for protection against impacts.

3) Auto day/night operation with removable IR cut filter

a) Low light level operation to 0.05 lux (color) and 0 lux (black and white)

4) 2D and 3D digital noise reduction

5) Integral IR illumination, providing effective visibility of up to 20m(with PoE+) at 0 Lux when activated in Black & White mode.

6) 6 privacy masking regions with polygonal.

7) The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.

c. Intelligence and Analytics – The camera shall have a suite of integral intelligent operations and analytic functions to include:

1) Motion detection with 8 definable detection areas with 8 point polygonal zones, and minimum/maximum object size.

2) Detection of logical events of specified conditions from the camera's video

a) Classified object type:

1) Person

2) Face

3) Vehicle

4) License plate

b) Attributes

1) Vehicle Type: car/bus/truck/motorcycle/bicycle

c) Support DetectionShot

d) Analytics events based on AI engine

1) Object detection

2) Virtual line (Crossing/Direction)

3) Virtual area (Loitering/Intrusion/Enter/Exit)

e) Analytics events

1) Motion detection

2) Tampering

3) Virtual area (Appear/Disappear)

4) Audio detection via NW I/O box SPM-4210

5) *Sound classification via NW I/O box SPM-4210*

d. *Interoperability – The camera shall be ONVIF Profile S/T/M compliant.*

e. *The camera shall possess the following further characteristics:*

1) *Built-in web server, accessed via standard browsers including Internet Explorer, Firefox, Chrome & Safari*

2) *Micro SD/SDHC/SDXC memory card and NAS recording options, with configurable pre-alarm and post-alarm recording intervals*

3) *Bi-directional audio via NW I/O box SPM-4210*

4) *Alarms and notifications*

a) *alarm notification triggers:*

1) *Analytics*

2) *Network disconnect*

3) *Alarm input with NW I/O Box SPM-4210*

4) *App event*

5) *Time schedule*

6) *MQTT subscription*

b) *available notification means upon trigger:*

1) *File upload(image): e-mail/FTP*

2) *Notification: e-mail*

3) *Recording: SD/SDHC/SDXC or NAS recording at event triggers*

4) *Alarm output via NW I/O box SPM-4210*

5) *Handover: PTZ preset, send message by HTTP/HTTPS/TCP*

6) *MQTT: publication*

5) *Pixel Counter available in the plug-in web viewer.*

6) *PoE+ capable*

7) *IP66, NEMA4X, IK09*

8) *This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunder stroke, communication interruption.*

3. *DETAILED SPECIFICATIONS*

a. *Video*

1) *Image*

a) *Sensor: 1/2.8" CMOS x 4CH*

b) *Minimum illumination*

1) *Color mode: 0.05Lux (F1.2, 1/30sec, 30IRE)*

2) *Black & white mode:*

a) *0.005Lux (IR LED off)*

b) *0Lux (IR LED on)*

c) *The following features with control settings shall be available:*

1) *Camera Title*

a) *Off / On (Displayed up to 85 characters per line)*

b) *W/W: English / Numeric / Special characters*

c) *China: English / Numeric / Special / Chinese characters*

d) *Common: Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution*

2) *Day/night setting*

a) *Auto (ICR) / Color / B/W / External / Schedule*

3) *Backlight compensation (BLC)*

a) *BLC, WDR, SSDR*

4) *WDR*

a) *120dB*

5) *Contrast Enhancement*
   a) *Off / On*
6) *Digital Noise Reduction (DNR)*
   a) *SSNR Ⅴ,*
   b) *WiseNR Ⅱ(Based on AI engine)*
7) *Motion Detection*
   a) *Off / On (8ea polygonal zones)*
8) *Privacy Masking*
   a) *Off / On (6ea polygonal zones)*
   b) *Color: Grey/Black/White*
9) *Gain Control*
   a) *Low / Middle / High*
10) *White Balance*
   a) *ATW / AWC / Manual / Indoor / Outdoor*
11) *Electronic shutter speed*
   a) *Minimum / Maximum / Anti flicker(1/5~1/12,000sec)*
   b) *Auto Prefer shutter control (Based on AI engine)*
12) *Image flip*
   a) *Off / On*
13) *Image mirror*
   a) *Off / On*
14) *Alarm I/O*
   a) *External device support via NW I/O box SPM-4210*
15) *Alarm Triggers*
   a) *Analytics, Network disconnect, App event, Time schedule, MQTT subscription*
   b) *Alarm input (via NW I/O box SPM-4210)*
16) *Alarm Events*
   a) *File upload(image): e-mail/FTP*
   b) *Notification: e-mail*
   c) *Recording: SD/SDHC/SDXC or NAS recording at event triggers*
   d) *Alarm output via NW I/O box SPM-4210*
   e) *Handover: PTZ preset, send message by HTTP/HTTPS/TCP*
   f) *MQTT: publication*
17) *Pixel Counter*
   a) *Available in the plug-in web viewer.*

d) *Lens: 3.19mm fixed focal*
1) *Aperture Ratio*
   a) *F1.2*
2) *Angle of view:*
   a) *H: 97°, V: 54°, D: 116°*
3) *Min. Object Distance*
   a) *2m(6.56ft)*
4) *Focus control*
   a) *Manual*
5) *Lens Type*
   a) *Fixed iris*
6) *Mount Type*
   a) *M12*

2) *IR Viewable Length:*
   a) *PoE+: 20m(65.62ft)*
3) *PTR*
   a) *PAN*

1) 360° Endless (100° per CH)

b) TILT

1) 0°~75°

c) Rotate

1) 0°~90°

4) Video Streams

a) The camera shall be able to produce 10 video profiles, each of which may have the following properties:

1) Encoding type:

a) H.265

b) H.264

c) MJPEG

2) Resolution:

a) 2592x1520, 1920x1080, 640x360

3) Maximum frame rate:

a) H.265/H.264: Max. 15fps/15fps

b) MJPEG: Max. 15fps/15fps (@4MP Max. 5fps)

4) Bit rate control method:

a) H.265 and H.264: target bitrate level control, constant bit rate (CBR) or variable bit rate (VBR)

b) MJPEG: quality level control, variable bit rate (VBR)

5) Audio

a) Audio In

1) Via NW I/O Box SPM-4210

b) Audio Out

1) Via NW I/O Box SPM-4210

6) Number of multi-streaming profiles

a) 4 maximum (include preview profile)

7) Simultaneous users (total)

a) 10 maximum (unicast)

8) Storage and Recording

a) The camera shall have onboard SD card storage.

1) Card type : Micro SD/SDHC/SDXC

2) Capacity : 2slot 1TB(512GB x 2)

3) Image content on the card shall have the ability to be downloaded to a selected destination.

9) Interoperability

a) Video streams shall be capable of supporting ONVIF protocol, profiles S/T/M.

10) Single Images

a) The camera shall support jpg file image screenshot and export.

11) Memory

a) 4GB RAM, 512MB Flash

b. Network

1) Connectivity

a) Metal shielded RJ-45(10/100/1000BASE-T)

2) Protocols supported:

a) Transmission Control Protocol (TCP), Internet Protocol (IP) v4 and v6, User Datagram Protocol (UDP)

b) Configuration: Dynamic Host Configuration Protocol (DHCP)

c) Web services: Hypertext Transfer Protocol (HTTP), Secure HTTP (HTTPS)

d) Network services: Address Resolution Protocol (ARP), Bonjour, Domain Name System (DNS), Internet Control

Message Protocol (ICMP), Network Time Protocol (NTP), Protocol Independent Multicast-Sparse Mode (PIM-SM), Simple Network Management Protocol (SNMP v1/2c/3 – MIB-2), Universal Plug and Play (UPnP)

e) Media: Real-Time Transport Protocol (RTP), Real-Time Control Protocol, Real-Time Streaming Protocol (RTSP)

f) Multicast: Internet Group Management Protocol (IGMP)

g) Notifications: File Transfer Protocol (FTP), Simple Mail Transfer Protocol (SMTP)

h) Remote Access: Point-to-Point Protocol over Ethernet) (PPPoE)

3) DDNS

a) The camera shall support DDNS services offered by the Manufacturer and other publicly available service offerings.

4) Quality of Service (QoS)

a) Layer 3 DSCP

5) Security features

a) Secure boot, Signed firmware, Firmware encryption

b) Digest Authentication

c) 802.1X Authentication (EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)

d) HTTPS, WSS (WebSocket Secure)

e) IP-based access control

f) Encryption Credentials, Encrypt compress for live recording file

g) User Access/System/Event log

h) Device Certificate (Hanwha Private Root CA)

i) Secure Storage: TPM (Trusted platform module), SD card partition encrypt

j) Secure Certificate: TPM with FIPS 140-2 level2

6) Discovery

a) Manufacturer shall offer a discovery program to identify all devices of his manufacture on the network.

c. Application Programming Interface

1) ONVIF Profile S/T/M

2) SUNAPI (HTTP API)

3) Wisenet open platform

d. Electrical

1) Power

a) Input Voltage: PoE+(IEEE802.3at Type2, Class4)

b) Power Consumption: PoE+: Max 23.5W, typical 13W

e. Mechanical And Environmental

1) Color / Material

a) White / Aluminum

b) Bubble: Hard-coated dome bubble

2) Dimensions (W x H)

a) ø200x80mm (ø7.87x3.15")

3) Weight

a) 1380g(3.04 lb)

4) RAL Code

a) RAL9003

5) Compatible Conduit hole / Gangbox

a) Conduit hole: None

b) Gangbox: Single, Double, 4"" Octagon, Square

6) Hanging Mount (Dome)

a) SBP-200HMW

7) *Temperature:*
   a) *Operating*
      1) *-40°C~+55°C(-40°F~+131°F)* Start up should be done at above -35°C*
   b) *Storage*
      1) *-50°C~+60°C(-58°F~+140°F) / 0~90% RH*
   c) *Humidity*
      1) *0~95% RH(non-condensing)*
      2) *Humidity control /w Air vent*
8) *Certifications*
   a) *EMC*
      1) *FCC 47 CFR 15 Subpart B Class A*
      2) *ICES-3(A)/NMB-3(A)*
      3) *CE/UKCA*
         a) *EN 55032 Class A, EN 50130-4*
      4) *VCCI CISPR 32 Class A*
      5) *RCM AS/NZS CISPR 32 Class A*
      6) *KS C 9832 Class A, KS C 9835*
   b) *Safety*
      1) *UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471*
   c) *Environmental*
      1) *IEC/EN 63000*
      2) *IEC 60529 IP66, IEC 62262 IK09*
      3) *NEMA 250 type 4X*

f. *DORI*
   1) *Detect (25PPM/ 8PPF): 45.9m(150.47ft)*
   2) *Observe (63PPM/ 19PPF): 18.3m(60.19ft)*
   3) *Recognize (125PPM/ 38PPF): 9.2m(30.09ft)*
   4) *Identify (250PPM/ 76PPF): 4.6m(15.05ft)*

D. *PNM-C32083RVQ | TYPE 4*
1. *EQUIPMENT*
   a. *Manufacturer : Hanwha Vision (https://www.hanwhavision.com)*
   b. *Model : PNM-C32083RVQ*
   c. *Alternates : none*
2. *GENERAL DESCRIPTION*
   a. *Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.*
      1) *H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously*
         a) *H.265 and H.264 – frame rates to 15/15 fps (60Hz/50Hz)*
         b) *MJPEG – frame rates to 15/15 fps (60Hz/50Hz) @4MP Max. 5fps*
      2) *The camera shall be able to configure up to 10 independent video stream profiles with differing encoding, quality, frame rate, resolution, and bit rate settings.*
      3) *Resolution selections*
         a) *3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240*
      4) *Simultaneous unicast access by up to 10 users*
      5) *Multicast or unicast capable*
      6) *Dynamic DNS (DDNS) support.*
      7) *WiseStream and Dynamic GOV to efficiently manage bitrate of the video stream.*

b. Camera – The camera device shall have the following physical and performance properties:
1) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range.
2) IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9) rated for protection against impacts.
3) Auto day/night operation with removable IR cut filter
a) Low light level operation to 0.1 lux (color) and 0 lux (black and white)
4) 2D and 3D digital noise reduction
5) Integral IR illumination, providing effective visibility of up to 20m(with HPoE) at 0 Lux when activated in Black & White mode.
6) 6 privacy masking regions with rectangular.
7) The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.
c. Intelligence and Analytics – The camera shall have a suite of integral intelligent operations and analytic functions to include:
1) Motion detection with 8 definable detection areas with 8 point polygonal zones, and minimum/maximum object size.
2) Detection of logical events of specified conditions from the camera's video
a) Classified object type:
1) Person
2) Vehicle
b) Attributes
1) Vehicle Type: car/bus/truck/motorcycle/bicycle
c) Support BestShot
d) Analytics events based on AI engine
1) Object detection
2) Virtual line(Crossing/Direction)
3) Virtual area(Loitering/Intrusion/Enter/Exit)
e) Analytics events
1) Defocus detection
2) Motion detection
3) Tampering
4) Audio detection
5) Sound classification
6) Virtual area(Appear/Disappear)
d. Interoperability – The camera shall be ONVIF Profile S and T compliant.
e. The camera shall possess the following further characteristics:
1) Built-in web server, accessed via standard browsers including Internet Explorer, Firefox, Chrome & Safari
2) Micro SD/SDHC/SDXC memory card and NAS recording options, with configurable pre-alarm and post-alarm recording intervals
3) Bi-directional audio
4) Alarms and notifications
a) alarm notification triggers:
1) Analytics
2) Network disconnect
3) Alarm input with NW I/O Box
4) App event
5) Time schedule
6) MQTT subscription
b) available notification means upon trigger:
1) File upload(image): e-mail/FTP
2) Notification: e-mail

3) *Recording: SD/SDHC/SDXC or NAS recording at event triggers*
4) *Alarm output*
5) *Handover: PTZ preset, send message by HTTP/HTTPS/TCP*
6) *Audio clip playback*
7) *MQTT: publication*

5) *Pixel Counter available in the plug-in web viewer.*
6) *HPoE capable*
7) *IP66, NEMA4X, IK10*
8) *This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunder stroke, communication interruption.*

3. DETAILED SPECIFICATIONS

a. Video

1) *Image*
   a) *Sensor : 1/2.8" CMOS x 4CH*
   b) *Minimum illumination*
      1) *Color mode : 0.1Lux (1/30sec, F1.6, 30IRE)*
      2) *Black & white mode :*
         a) *0.01Lux (IR LED off)*
         b) *0Lux (IR LED on)*
   c) *The following features with control settings shall be available:*
      1) *Camera Title*
         a) *Off / On (Displayed up to 85 characters per line)*
         b) *W/W : English / Numeric / Special characters*
         c) *China : English / Numeric / Special / Chinese characters*
         d) *Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution*
      2) *Day/night setting*
         a) *Auto (ICR) / Color / B/W / External / Schedule*
      3) *Backlight compensation (BLC)*
         a) *BLC, WDR, SSDR*
      4) *WDR*
         a) *120dB*
      5) *Contrast Enhancement*
         a) *Off / On*
      6) *Digital Noise Reduction (DNR)*
         a) *SSNR Ⅴ,*
         b) *WiseNR Ⅱ(Based on AI engine)*
      7) *Motion Detection*
         a) *Off / On (8ea polygonal zones)*
      8) *Privacy Masking*
         a) *Off / On (6ea rectangular zones)*
         b) *Color: Grey/Black/White*
      9) *Gain Control*
         a) *Low / Middle / Max*
      10) *White Balance*
         a) *ATW / AWC / Manual / Indoor / Outdoor*
      11) *Electronic shutter speed*
         a) *Minimum / Maximum / Anti flicker(1/5~1/12,000sec)*
         b) *Prefer shutter control(Based on AI engine)*

12) Image flip
a) Off / On
13) Image mirror
a) Off / On
14) Hallway view
a) 90°/270° - Each channel separately
15) Alarm I/O
a) External device support
16) Alarm Triggers
a) Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
17) Alarm Events
a) File upload(image): e-mail/FTP
b) Notification: e-mail
c) Recording: SD/SDHC/SDXC or NAS recording at event triggers
d) Alarm output
e) Handover: PTZ preset, send message by HTTP/HTTPS/TCP
f) Audio clip playback
g) MQTT: publication
18) Pixel Counter
a) Available in the plug-in web viewer.
d) Lens : 3.3~5.7mm(1.7x) motorized varifocal
1) Aperture Ratio
a) F1.5(Wide)~F1.9(Tele)
2) Angle of view:
a) H: 109°(Wide)~56°(Tele)
b) V: 55°(Wide)~31°(Tele)
c) D: 136°(Wide)~65°(Tele)
3) Min. Object Distance
a) 1.3m(4.27ft)
4) Focus control
a) Simple focus
5) Lens Type
a) Fixed iris
2) IR Viewable Length :
a) PoE+: WiseIR 15m(49.21ft)
b) HPoE: WiseIR 20m(65.62ft)
3) PTR
a) PAN
1) 360° Endless
b) TILT
1) 0°~65°
c) Rotate
1) 0°~90°
4) Video Streams
a) The camera shall be able to produce 10 video profiles, each of which may have the following properties:
1) Encoding type:
a) H.265
b) H.264
c) MJPEG
2) Resolution:
a) 3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576,

720x480, 640x480, 640x360, 320x240

3) Maximum frame rate:

a) H.265/H.264: Max. 15fps/15fps(60Hz/50Hz)

b) MJPEG: Max. 15fps/15fps(60Hz/50Hz) (@4MP Max. 5fps)

4) Bit rate control method :

a) H.265 and H.264 : target bitrate level control, constant bit rate (CBR) or variable bit rate (VBR)

b) MJPEG : quality level control, variable bit rate (VBR)

5) Audio

a) Audio In

1) Selectable(mic in/line in)

b) Audio Out

1) Line out

c) Compression

1) G.711 u-law / G.726 Selectable

2) G.726 (ADPCM) 8KHz, G.711 8KHz

3) G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps

4) AAC-LC: 48Kbps at 16KHz

6) Number of multi-streaming profiles

a) 10 maximum

7) Simultaneous users (total)

a) 10 maximum (unicast)

8) Storage and Recording

a) The camera shall have onboard SD card storage.

1) Card type : Micro SD/SDHC/SDXC

2) Capacity : 2slot 1TB(512GB x 2)

3) Image content on the card shall have the ability to be downloaded to a selected destination.

9) Interoperability

a) Video streams shall be capable of supporting ONVIF protocol, profiles S and T.

10) Single Images

a) The camera shall support jpg file image screenshot and export.

11) Memory

a) 8GB RAM, 1GB Flash

b. Network

1) Connectivity

a) Metal shielded RJ-45(10/100/1000BASE-T)

2) Protocols supported :

a) Transmission Control Protocol (TCP), Internet Protocol (IP) v4 and v6, User Datagram Protocol (UDP)

b) Configuration: Dynamic Host Configuration Protocol (DHCP)

c) Web services: Hypertext Transfer Protocol (HTTP), Secure HTTP (HTTPS)

d) Network services: Address Resolution Protocol (ARP), Bonjour, Domain Name System (DNS), Internet Control Message Protocol (ICMP), Network Time Protocol (NTP), Protocol Independent Multicast-Sparse Mode (PIM-SM), Simple Network Management Protocol (SNMP v1/2c/3 – MIB-2), Universal Plug and Play (UPnP)

e) Media: Real-Time Transport Protocol (RTP), Real-Time Control Protocol, Real-Time Streaming Protocol (RTSP)

f) Multicast: Internet Group Management Protocol (IGMP)

g) Notifications: File Transfer Protocol (FTP), Simple Mail Transfer Protocol (SMTP)
h) Remote Access: Point-to-Point Protocol over Ethernet) (PPPoE)

3) DDNS
a) The camera shall support DDNS services offered by the Manufacturer and other publicly available service offerings.

4) Quality of Service (QoS)
a) Layer 3 DSCP

5) Security features
a) Secure boot, Signed firmware, Firmware encryption
b) Digest Authentication, Privent brute-force attack
c) 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
d) HTTPS, SRTP, WSS(Websocket secure)
e) IP address filtering
f) Authentication information encryption, ZIP compression encryption
g) User Access/System/Event log
h) Device Certificate(Hanwha Private Root CA)
i) TPM 2.0 with FIPS 140-2 level2

6) Discovery
a) Manufacturer shall offer a discovery program to identify all devices of his manufacture on the network.

c. Application Programming Interface
1) ONVIF Profile S/T
2) SUNAPI(HTTP API)
3) Wisenet open platform

d. Electrical
1) Power
a) Input Voltage
1) PoE+(IEEE802.3at Type2, Class4)
2) HPoE(IEEE802.3bt Type3, Class6)
b) Power Consumption
1) PoE+: Max 25.5W, typical 22.0W
2) HPoE: Max 33.0W, typical 22.0W

e. Mechanical And Environmental
1) Color / Material
a) White / Aluminum
b) Bubble: Hard-coated dome

2) Dimensions (W x H)
a) ø250x114.2mm(ø9.84x4.50")

3) Weight
a) 2820g(6.22 lb)

4) RAL Code
a) RAL9003

5) Compatible Conduit hole / Gangbox
a) Conduit hole: 19.1mm(3/4"")(M25)
b) Gangbox: Single, Double, 4"" Octagon, Square

6) Hanging Mount (Dome)
a) SBP-250HMW, SBP-276HMW

7) Temperature:
a) Operating
1) -40°C~+55°C(-40°F~+131°F)* Start up should be done at above -35°C
b) Storage

1) -50°C~+60°C(-58°F~+140°F) / 0~90% RH

c) Humidity

1) 0~95% RH(non-condensing)

2) Humidity control /w Air vent

8) Certifications

a) EMC

1) FCC 47 CFR 15 Subpart B Class A

2) ICES-3(A)/NMB-3(A)

3) CE/UKCA

a) EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3

4) VCCI CISPR 32 Class A

5) RCM AS/NZS CISPR 32 Class A

6) KS C 9832 Class A , KS C 9835

b) Safety

1) UL 62368-1, CAN/CSA C22.2 NO. 62368-1

2) IEC/EN 62471

c) Environmental

1) IEC/EN 63000

2) IEC/EN 60529 IP66, IEC/EN 62262 IK10

3) NEMA 250 type 4X

f. DORI

1) Detect (25PPM/ 8PPF) : Wide: 54.8m(179.73ft) / Tele: 144.4m(473.88ft)

2) Observe (63PPM/ 19PPF) : Wide: 21.9m(71.89ft) / Tele: 57.8m(189.55ft)

3) Recognize (125PPM/ 38PPF) : Wide: 11.0m(35.95ft) / Tele: 28.9m(94.78ft)

4) Identify (250PPM/ 76PPF) : Wide: 5.5m(17.97ft) / Tele: 14.4m(47.39ft)

E. PNM-8082VT | TYPE 5

1. EQUIPMENT

a. Manufacturer: Hanwha Vision http://hanwha-security.com

b. Model PNM-8082VT

c. Alternates: None

2. GENERAL DESCRIPTION

a. The camera shall provide multi directional view and produce video in various view mode.

b. Hallway view is available on CH1/2/3.

c. Each Channels support SD Card

d. It provides one single power supply for all of multi-channels

e. Video Compression and Transmission – The multi-directional camera shall have the following properties relating to the video signals it produces.

1) H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously.

2) H.265 and H.264 – maximum of 30/25fps(60Hz/50Hz) at all resolution

3) MJPEG – maximum of 15/12fps(60Hz/50Hz)

4) The camera shall be able to configure up to 10 independent video stream profiles with differing encoding, quality, frame rate, resolution, and bit rate settings.

5) The camera shall be able to configure various resolution selections.

a) 16:9 aspect ratio : 1920x1080, 1280x720, 800x448, 640x360

b) 4:3 aspect ratio : 1280x960, 1024x768, 800x600,

640x480, 320x240

c) 5:4 aspect ratio : 1280x1024, 720x576

d) 3:2 aspect ratio : 720x480

6) The camera shall support unicast video streaming up to 20 users.

7) The camera shall support multicast video streaming up to 10 profiles.

8) The camera shall be able to configure Dynamic DNS (DDNS). DDNS shall be provided with no additional cost by the manufacturer.

9) The camera shall provide WiseStream Ⅱ, Dynamic GOV and Dynamic fps to efficiently manage bit rate of the video stream and reduce storage.

f. Camera – The multi-directional camera device shall have the following physical and performance properties:

1) IK10 rated for protection against impacts.

2) True day/night operation with scheduling and options for external devices.

3) Low light level operation to 0.04 lux at F2.2 in color mode and 0.004 lux at F2.2 in black and white mode.

4) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range.

5) The camera shall support digital noise reduction using both 2D and 3D noise reduction technology.

6) The camera shall be able to configure 32 privacy masking areas with polygonal zones.

7) The camera shall have the defog feature to remove fogginess of scene which can be triggered automatically from the fog detection event.

8) The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.

g. Intelligence and Analytics – The multi-directional camera shall have a suite of integral intelligent operations and analytic functions to include:

1) Motion detection with 8 definable detection areas with 8 point polygonal zones, and minimum/maximum object size.

2) Detection of logical events of specified conditions from the camera's video

a) Defocus detection

b) Directional detection

c) Motion detection

d) Enter/Exit

e) Tampering

f) Virtual line

h. Interoperability – The camera shall be ONVIF Profile S, G and T compliant.

i. The multi-directional camera shall possess the following further characteristics:

1) Built-in web server, accessed via standard browsers including Chrome, MS Edge, Firefox and Safari (Mac. OS 10.12,13,14).

2) Micro SD/SDHC/SDXC memory card options, with configurable pre-alarm and post-alarm recording intervals

3) Alarms and notifications

a) alarm notification triggers:

1) Analytics

2) Network disconnect

b) available notification means upon trigger:

1) File Upload via FTP and E-mail

2) Notification via E-mail

3) Local storage (SD / SDHC / SDXC) or NAS recording at

event triggers

4) *PoE+ capable*

5) *This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunder stroke, communication interruption.*

F. *Decoding performance in web viewer depends on CPU/GPU performance of user*

1. *DETAILED SPECIFICATIONS*

a. *Video*

1) *Imager(optional 4 different Lens)*

a) *Sensor: 1/2.8" 2M CMOS: each CH*

1) *pixels per sensor: 1,945 (H) x 1,097 (V) effective: each CH*

2) *scanning : progressive*

b) *Minimum illumination*

1) *Color mode: 0.04lux (F2.2, 1/30sec)*

2) *Black & white mode: 0.004lux (F2.2, 1/30sec)*

b. *Lens*

1) *Focal length 3 ~ 6mm (2x) Motorized Varifocal*

2) *Max. Aperture Ratio F2.2(Wide) ~ F3.1(Tele)*

3) *Field of View [Wide] H: 107˚, V: 57°, D: 126°[Tele] H: 56.3˚, V: 31.5°, D: 64.3°*

4) *Min. Object Distance 0.5m (1.64ft)*

5) *Lens Type DC Auto Iris*

6) *Focus Control Simple Focus*

7) *Mount Type Board-in Type*

c. *Pan & Tilt & Rotate*

1) *PTR Range 0˚~360˚ / 0˚~73˚ / 0˚~90˚*

d. *Operational Functions*

1) *Camera Title Off / On (Displayed up to 85 characters per line)*

a) *W/W characters English / Numeric / Special*

b) *China characters English / Chinese / Numeric / Special*

c) *Common Multi-line (Max. 5), Color (Grey/Green/Red/Blue/Black/White),Transparency, Auto scale by resolution*

2) *Day/night setting: Auto (ICR) / Color / B/W / Schedule*

3) *Backlight compensation (BLC): BLC / WDR / HLC / SSDR*

4) *WDR extreme WDR (150dB)*

5) *Digital Noise Reduction (DNR): Support (SSNR Ⅴ)*

6) *Defog Support*

7) *Motion Detection Off / On (8ea, 8point polygonal zones)*

8) *Privacy Masking Off / On (32ea, 4point polygonal zones)*

a) *Color: Gray / Green / Red / Blue / Black / WhiteMosaic*

9) *Gain Control Low / Middle / High*

10) *White Balance ATW / AWC / Manual / Indoor / Outdoor*

11) *Electronic shutter speed: Minimum / Maximum / Anti flicker (2 ~ 1/12,000 sec)*

12) *Image Rotation Flip, MirrorHallway view: 0˚ / 90˚ / 270˚*

13) *Alarm I/O* — *None*
14) *Alarm Triggers* — *Analytics, Network Disconnection*
15) *Alarm Events* — *File Upload via FTP and E-mail, Notification via E-mail,SD/SDHC/SDXC or NAS recording at event triggers, Handover*
16) *Analytics* — *Defocus detection, Directional detection, Motion detection,Enter/Exit, Tampering, Virtual line*
17) *Video Out (Installation)* — *CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P)*
18) *Memory* — *4GB(LPDDR4), 512MB(NAND)*
19) *DORI Distance*
    a) *Detect* — *28.4m ~ 71.8m (11.18ft~28.27ft)*
    b) *Observe* — *11.4m ~ 28.7m (4.49ft~11.30ft)*
    c) *Recognize* — *5.7m ~ 14.4m (2.24ft~5.67ft)*
    d) *Identify* — *2.8m ~ 7.8m (1.10ft~3.07ft)*

e. *Video Streams*
1) *Encoding Type* — *H.265, H.264, MJPEG*
2) *Resolution* — *1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768,800x600, 800x448, 720x576, 720x480, 640x480,640x360, 320x240*
3) *Maximum frame rate:*
    a) *H.265 and H.264:* — *30 fps (60Hz) / 25 fps (50Hz) at all resolutions*
    b) *MJPEG:* — *30 fps (60Hz) / 25 fps (50Hz) at all resolutions*
4) *Smart Codec* — *WiseStream Ⅱ, Dynamic GOV, Dynamic fps*
5) *Bit rate control method:*
    a) *H.265 and H.264*
        1) *target bitrate level control*
        2) *constant bit rate (CBR) or variable bit rate (VBR)*
    b) *MJPEG*
        1) *target bitrate level control*
        2) *variable bit rate (VBR)*
6) *Number of multi-streaming profiles:* — *10 maximum*
7) *Simultaneous users (total):* — *20 maximum (unicast)*
8) *Storage and Recording*
    a) *The multi-directional camera shall have onboard SD card storage for each sensor.*
        1) *Card type:* — *Micro SD/SDHC/SDXC*
        2) *Capacity:* — *2slot 512GB(Each CH)*
        3) *Image content on the card shall have the ability to be downloaded to a selected destination.*
    b) *NAS*
9) *Interoperability - Video streams shall be capable of supporting ONVIF protocol, profiles S / G / T.*
10) *Single Images - The camera shall support png file image screenshot and export.*

f. *Network*
1) *Connectivity:* — *Metal Shielded RJ-45(10/100/1000BASE-T)*
2) *Protocols supported:*
    a) *IP v4 / v6, TCP, UDP*
    b) *Configuration: DHCP, LLDP*
    c) *Web service: HTTP, HTTPS*
    d) *Network Service: ARP, Bonjour, DNS, ICMP, NTP, PIM-SM,*

SNMP v1/2c/3 – MIB-2, UPnP, LLDP

e) Media: RTP, SRTP, RTCP, RTSP

f) Multicast: IGMP

g) Notifications: FTP, SMTP

h) Remote Access: PPPoE

3) DDNS – The multi-directional camera shall support DDNS services offered by the Manufacturer and other publicly available service offerings.

4) Quality of Service (QoS) – Layer 3 DSCP

5) Security features:

a) User password protection

b) The device shall not provide a manufacture default password. Initial password setting shall be required to access the camera.

c) A minimal level of password complexity shall be required by the camera.

d) The camera shall not have a manufacture back-door password.

e) The manufacturer shall provide a tool that provides the ability to make password changes to multiple cameras at the same time.

f) IP address filtering – List of allowed or blocked IP addresses.

g) SRTP secured video communication for multicast.

h) Digest login authentication.

i) User access log.

j) 802.1X Authentication (EAP-TLS, EAP-LEAP)

k) Device Certificate (Hanwha Vision Root CA)

l) HTTPS(SSL/TLS) login authentication and secured video communication with TLS v1.3

m) Disk encryption on SD card recording (AES-256)

n) File encryption on local disk recording via web browser (AES-256)

o) Mutual Authentication (Client Authentication) for secure communication

6) Discovery - Manufacturer shall offer a discovery program to identify all devices of his manufacture on the network.

7) Configuration – The manufacturer shall offer a configuration program that remotely allows users to change settings on multiple cameras simultaneously.

8) Firmware upgrade – The manufacturer shall offer a program capable of upgrading multiple cameras at the same time (not requiring access to individual cameras).

9) Camera backup setting – The manufacturer shall provide a program that provides the ability to save multiple camera settings to a file and restore these camera settings if needed.

10) Reporting – The manufacturer shall provide a tool that can generate a report including thumbnail view, MAC address, IP address, serial number and other camera settings

g. Electrical

1) Power

a) Input Voltage / Current PoE+ (IEEE802.3at)

b) Power Consumption:

1) PoE+ Typical: 8.2W, Max.: 16.5W

h. Mechanical And Environmental

1) Material:

a) Housing: Aluminum

b) Color White
c) RAL Code RAL9003

2) Dimensions (W x H): 251 x 116.5 mm (9.88in. x 4.58in.)
3) Weight 3kg (6.61lb.)
4) Temperature:
*a) Operating: -40° C to 60° C (40° F to 140° F)*Start up should be above at -35˚C*
b) Storage: -50° C to 60° C (-58° F to 140° F)
5) Humidity: 0 - 90%, non-condensing
6) Environmental Rating:
a) Mechanical (Vandal) Protection IK10
b) Ingress Protection IP66, NEMA4X

G. XNV-A9084R | TYPE 6
1. EQUIPMENT
a. Manufacturer: Hanwha Vision (https://www.hanwhavision.com/en/, https://hanwhavisionamerica.com)
b. Model: XNV-A9084R
c. Alternates: None
2. GENERAL DESCRIPTION
a. Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.
1) H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously.
a) H.265/H.264: Max. 60/50fps(60Hz/50Hz)
b) MJPEG: Max. 30fps(@8MP Max. 5fps)
2) The camera shall be able to configure various resolution selections.
a) 3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1512, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
3) The camera shall be able to configure up to 10 independent video stream profiles with differing encoding, quality, frame rate, resolution, and bit rate settings
4) The camera shall support unicast video streaming up to 20 users.
5) The camera shall support multiple streaming up to 5 profiles and 3 virtual channels.
6) The camera shall support multicast video streaming.
7) The camera shall be able to configure Dynamic DNS (DDNS). DDNS shall be provided with no additional cost by the manufacturer.
8) The camera shall provide WiseStream based on AI engine to efficiently manage bit rate of the video stream and reduce storage.
9) The camera shall provide WiseNR Ⅱ that working based on AI engine for reduce noise and blur on image.
b. Camera – The camera device shall have the following physical and performance properties.
1) True day/night operation with removable IR cut filter. The IR function shall provide manual power adjustment, automatic mode based on objects in the center of the screen, and automatic mode based on objects anywhere in the scene.
2) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range up to 120dB. The WDR function shall include the following modes and options: On / Off, Automatic mode, Automatic mode based on low light,

Automatic mode based on Black/White mode. The WDR function shall provide 3 level adjustments.

3) *The camera shall support digital noise reduction using both 2D and 3D noise reduction technology.*
4) *The camera shall be able to configure privacy masking areas with polygonal zones.*
5) *The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.*
6) *The camera shall have a dual NPU capable of running all AI & analytics functions fully on one NPU while the other is available for ISP functions, including AI-based noise reduction, WDR, & low light image enhancements.*

c. *Intelligence and Analytics – The camera shall have a suite of intelligent analytic functions.*
   1) *Classified object type: Person / Face / Vehicle / License plate*
   2) *Attributes: Person (Gender, Clothing top/bottom color, Bag), Face (Age, Gender, Mask, Glasses), Vehicle (Type: car / bus / truck / motorcycle / bicycle, Color)*
   3) *Support BestShot*
   4) *Analytics events based on AI engine: Motion detection, Object detection, Virtual line(Crossing / Direction), Virtual area(Loitering / Intrusion / Enter / Exit / Appear / Disappear), Slip & Fall detection, Face mask detection, Social distancing detection*
   5) *Analytics events: Defocus detection, Tampering, Shock detection, Audio detection*
   6) *Business Intelligence: People / Vehicle / Crowd counting, Queue management, Heatmap based on AI engine*
   7) *The camera shall feature a configurable Dynamic Privacy Masking feature with selectable mosaic or color masking. Mosaic masking shall provide multiple pixilation options while color masking shall provide 8 color options. Masking shall be available for any AI-based object type. Masking shall be available at full resolution/frame rate on a selected channel, allowing a VMS to record both the original and masked video.*

d. *Interoperability*
   1) *The camera shall be ONVIF Profile S, G, T and M compliant.*
   2) *The camera shall be compatible with the Hanwha Vision Cloud Portal, including OnCloud VMS, HealthPro, & SightMind, utilizing the provided CloudConnector Open Platform application.*
   3) *The camera shall be compatible with Hanwha Vision AI packs, utilizing Open Platform, to add additional AI functions.*

e. *The camera shall possess the following further characteristics:*
   1) *Micro SD/SDHC/SDXC memory slot with configurable pre-alarm and post-alarm recording intervals*
   2) *NAS recording option with configurable pre-alarm and post-alarm recording intervals*
   3) *Alarm triggers and notifications*
   4) *Impact protection (IK10), Water & Dust protection (IP66 / IP67), NEMA4X, NEMA-TS 2 (2.2.7.2-8, 2.2.8, 2.2.9)*
   5) *Support WisePower (Power monitoring & ECO mode)*
   6) *Use recycled plastic*
   7) *Device certificate (Hanwha Vision Root CA), Secure storage (Secure element with FIPS 140-3 level 3/CC EAL6+ certified), SBOM*
   8) *The camera shall feature an admin user logout to prevent a webpage user from leaving access to the camera for longer than a specified period.*

3. DETAILED SPECIFICATIONS

a. Video

1) Imaging device: 1/1.8" CMOS

2) Resolution: 3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1512, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180

3) Maximum Framerate

a) H.265/H.264: Max. 60/50fps(60Hz/50Hz)

b) MJPEG: Max. 30fps(@8MP Max. 5fps)

4) Minimum Illumination

a) Color: 0.04Lux (F1.3, 1/30sec, 30IRE)

b) B/W: 0.004Lux (F1.3, 1/30sec, 30IRE), 0Lux (IR LED on)

5) Video Out (for Installation): Micro USB Type C

b. Lens

1) Focal length: 4.4 ~ 9.3mm (2.1x) motorized varifocal

2) Max. Aperture Ratio: F1.3(Wide) ~ F2.15(Tele)

3) Field of View

a) H:113°(Wide) ~ 47°(Tele)

b) V:58°(Wide) ~ 26°(Tele)

c) D:138°(Wide) ~ 54°(Tele)

4) Min. Object Distance: 0.5m (1.64ft)

5) Focus Control: Simple focus

6) Lens Type: P-Iris(IR corrected)

c. Pan & Tilt & Rotate

1) Range: 0°~360° / 0°~75°/ 0°~355°

d. Operational Functions

1) Camera Title: Displayed up to 85 characters

2) Day/Night: Auto (ICR)

3) Backlight Compensation: BLC / HLC / WDR / SSDR

4) WDR: 120dB

5) Digital Noise Reduction: SSNR Ⅴ, WiseNR Ⅱ(Based on AI engine)

6) Digital Image Stabilization: Support

7) Defog: Support

8) Motion Detection: 8ea, 8 points polygonal zones

9) Privacy Masking

a) 32ea, 8 points poygonal zones

1) Color: gray/green/red/blue/black/white/purple/yellow

2) Mosaic

b) Dynamic Privacy Mask(Based on AI engine)

1) Color: gray/green/red/blue/black/white/purple/yellow

2) Mosaic

10) Gain Control: Off / Max Gain / Manual

11) White Balance: ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor

12) Lens Distortion Correction: Support (Fill / Stretch mode)

13) Electronic Shutter Speed

a) Min / Max / Anti-flicker (2 ~ 1/30,000sec)

b) Prefer shutter control (based on AI engine)

14) Video Rotation: Flip, Mirror, Hallway view (90° / 270°)

15) Analytics

a) Classified object type: Person / Face / Vehicle / License plate

b) Attributes: Person (Gender, Clothing top/bottom color, Bag), Face (Age, Gender, Mask, Glasses), Vehicle (Type: car / bus / truck / motorcycle / bicycle, Color)

c) Support BestShot

d) Analytics events based on AI engine: Motion detection,

Object detection, Virtual line(Crossing / Direction), Virtual area(Loitering / Intrusion / Enter / Exit / Appear / Disappear), Slip & Fall detection, Face mask detection, Social distancing detection

e) Analytics events: Defocus detection, Tampering, Shock detection, Audio detection

16) Business Intelligence: People / Vehicle / Crowd counting, Queue management, Heatmap based on AI engine

17) Alarm I/O: 2 configurable I/O ports * Support extra alarm I/O via optional I/O box

18) Alarm Triggers: Analytics, Network disconnection, Alarm input, Time schedule, MQTT subscription, Day/Night Storage disruption

19) Alarm Events (When alarm trigger occurred)

- ***a) File upload(image): e-mail/FTP/SFTP***
- ***b) File upload(video clip): FTP/SFTP***
- ***c) Notification: e-mail***
- ***d) Recording: SD/SDHC/SDXC or NAS recording at event triggers***
- ***e) Alarm output***
- ***f) Handover: PTZ preset, Send message by HTTP / HTTPS / TCP***
- ***g) Audio clip playback***
- ***h) MQTT: publication***

20) Audio in: Selectable (mic in / line in)

21) Audio out: Line out

22) Light Type: IR LED (850nm)

23) IR Viewable Length: WiseIR 40m(131.23ft), ECO mode off

24) Edge Storage: Micro SD/SDHC/SDXC 1TB(1 slot), NAS support

25) Memory: 4GB RAM, 8GB Emmc

26) Webpage Lanugage: English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek

e. Network

1) Ethernet: Metal shielded RJ-45 (10/100/1000 BASE-T)

2) Video compression

- ***a) H.265/H.264: Main / Baseline / High***
- ***b) MJPEG***

3) Audio Compression

- ***a) G.711(PCM): 8kHz(64Kbps)***
- ***b) G.726(ADPCM): 8kHz(16/24/32/40Kbps)***
- ***c) AAC-LC: 16kHz(48Kbps)***
- ***d) OPUS: 48kHz(64Kbps)***

4) Smart Codec: WiseStream (Based on AI engine)

5) Bitrate Control

- ***a) H.265 / H.264: CBR or VBR***
- ***b) MJPEG: VBR***

6) Streaming

- ***a) Unicast(20 users) / Multicast***
- ***b) Multiple streaming (Up to 5 profiles, 3 virtual channel support)***

7) Profile set: Max. 10ea

8) Application Programming Interface

- ***a) ONVIF Profile S / G / T/ M***
- ***b) SUNAPI (HTTP API)***
- ***c) Hanwha Vision Open Platform***

9) Protocol: IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP,

SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog

10) *DDNS – The camera shall support DDNS services offered by the manufacturer and others publicly available service offerings*
11) *QoS – Layer 3 DSCP*
12) *Security Feature*
    a) *OS / Firmware Protect: Encrypted Firmware, Secure boot, Signed Firmware*
    b) *User authentication: Digest Authentication, Prevent brute-force attack*
    c) *Network authentication: IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)*
    d) *Secure Communication: HTTPS, SRTP, WSS (WebSocket Secure)*
    e) *Access Control: IP-based access control, MAC-based access control, Auto logout*
    f) *Data Protect: Encryption Credentials, Encrypt compress for live recording file export*
    g) *Audit: Access / System / Event Log management*
    h) *Device ID: Device certificate (Hanwha Vision Root CA)*
    i) *Secure Storage: Secure element, SD card partition encrypt*
    j) *Security Certificate: ETSI EN 303 645, Secure element (FIPS 140-3 level 3, CC EAL6+)*
    k) *The device shall not provide a manufacture default password. Default password change shall be required to access the camera.*
    l) *A minimal level of password complexity shall be required by the camera.*
    m) *The camera shall not have a manufacture back-door password.*
    n) *The manufacturer shall provide a tool that provides the ability to make password changes to multiple cameras at the same time.*
    o) *Network filtering – The camera shall allow a list of allowed or blocked IP addresses/subnet mask and/or MAC addressed to be entered to restrict access to the device.*
13) *Discovery – The manufacturer shall offer a discovery program to identify all devices of them on the network.*
14) *Configuration – The manufacturer shall offer a configuration program that remotely allows users to change settings on multiple cameras simultaneously.*
15) *Firmware upgrade – The manufacturer shall offer a program capable of upgrading multiple cameras at the same time (not requiring access to individual cameras).*
16) *Camera backup setting – The manufacturer shall provide a program that provides the ability to save multiple camera settings to a file and restore these camera settings if needed.*
17) *Reporting – The manufacturer shall provide a tool that can generate a report including thumbnail view, MAC address, IP address, serial number and other camera settings.*

f. *Environmental & Electrical*
    1) *Operating Temperature / Humidity: -40°C ~ +50°C (-140F ~ +122°F), +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) / 0~100% RH(Condensing) *Humidity control with AIR vent*
    2) *Storage Temperature / Humidity: -50°C ~ +60°C (-58°F ~ +140°F) /*

Less than 90% RH

3) *EPA(Effective Projected Area): 0.02㎡*
4) *Certification: IP66/IP67, NEMA4X, IK10, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)*
5) *Input Voltage: PoE(IEEE802.3af, class3)*
6) *Power Consumption*
    a) *PoE: Max. 11.2W, typical 8.4W*
    b) *Support Wisepower*
        1) *Power monitoring(Max./Current/Avg.)*
        2) *ECO mode*

g. *Mechanical*
1) *Color/Material: White / Aluminum, Hard-coated dome(Bubble), Recycled plastic 4.52%*
2) *RAL Code: RAL9003*
3) *Dimensions (W x H): ø160 x 118mm (ø6.30 x 4.65")*
4) *Weight: 1.220Kg(2.69lb)*
5) *Compatible Conduit hole / Gangbox*
    a) *12.7mm(1/2") (M20)*
    b) *Single, double, 4" octagon, 4" square*

h. *Certifications & Standards*
1) *EMC*
    a) *FCC 47 CFR Part 15 Subpart B Class A*
    b) *ICES-3(A)/NMB-3(A)*
    c) *CE/UKCA: EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3*
    d) *VCCI CISPR 32 Class A*
    e) *RCM AS/NZS CISPR 32 Class A*
    f) *KS C 9832 Class A, KS C9835*
2) *Safety*
    a) *UL 62368-1, CAN/CSA C22.2 NO.62638-1*
    b) *IEC/EN 62471*
3) *Environment*
    a) *IEC/EN 63000*
    b) *IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10*
    c) *NEMA 250 Type 4X, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)*
    d) *IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78*

i. *Compatible Models*
1) *Hanging Adaptor: SBP-160HMW1*
2) *Back Box: SBV-180BW, SBV-180WW*
3) *Ceiling Mount(Assy): SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS*
4) *Ceiling Mount(Single Unit): SBP-180CMB, SBP-140CMB, SBP-180CMS, SBP-900CMP, SBP-300CMP, SBP-150CMP, SBP-C15P, SBPC15H*
5) *Wall Mount: SBP-160WMW1, SBP-400WMW, SBP-250WMW, SBP-300WMW, SBP-300WMW1*
6) *Pole Mount: SBD-180PMW, SBP-300PMW2*
7) *In-ceiling Mount: SHD-1600FPW, SHD-1600FW*
8) *Corner Mount: SBP-156KMW, SBP-300KMW1*
9) *Parapet Mount: SBP-156LMW1, SBP-300LMW*
10) *Tilt Mount: SBP-160TMW1*
11) *Cabinet: SBP-150NBW, SBP-300NBW*
12) *Weather Cap: SBV-161WCW*
13) *Interface Box: SPM-4210*
14) *Other Compatible Models: SPP-C7400, SPB-VAN88W, SBP-115PFA*

j. DORI Distance

1) Detect (25PPM / 8PPF): Wide 50.8m(166.77ft) / Tele 176.6m(579.49ft)

2) Observe (63PPM / 19PPF): Wide 20.3m(66.71ft) / Tele 70.7m(231.80ft)

3) Recognize (125PPM / 38PPF): Wide 10.2m(33.35ft) / Tele 35.3m(115.90ft)

4) Identify (250PPM / 76PPF): Wide 5.1m(16.68ft) / Tele 17.7m(57.95ft)

H. QNV-C8013R | TYPE 6

1. EQUIPMENT

a. Manufacturer: Hanwha Vision (https://www.hanwhavision.com/en/, https://hanwhavisionamerica.com)

b. Model: QNV-C8013R

c. Alternates: None

2. GENERAL DESCRIPTION

a. Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.

1) H.265, H.264 and MJPEG compression, each derived from a dedicated encoder and capable of being streamed independently and simultaneously.

a) H.265 / H.264: Max. 30fps/25fps(60Hz/50Hz) (WDR on/off)

b) MJPEG: Max. 30fps(@5MP Max. 5fps)

2) The camera shall be able to configure various resolution selections.

a) 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360

3) The camera shall support multiple video streaming up to 5 profiles.

4) The camera shall support unicast video streaming up to 20 users.

5) The camera shall support multicast video streaming.

6) The camera shall be able to configure Dynamic DNS (DDNS). DDNS shall be provided with no additional cost by the manufacturer.

7) The camera shall provide WiseStream Ⅲ on AI engine to efficiently manage bit rate of the video stream and reduce storage.

8) The camera shall provide WiseNR Ⅱ that working based on AI engine for reduce noise and blur on image.

b. Camera – The camera device shall have the following physical and performance properties

1) Rated for protection against impacts.

2) True day/night operation with removable IR cut filter

3) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range up to 120dB.

4) The camera shall support digital noise reduction using both 2D and 3D noise reduction technology.

5) Integral IR illumination, providing effective visibility of 25m(82.02ft) at 0 Lux when activated in Black & White mode

6) The camera shall be able to configure 32 privacy masking areas with 8point polygonal zones

7) The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.

c. Intelligence and Analytics – The camera shall have a suite of intelligent analytic functions.

1) Classified object type: Person / Vehicle (Type: car / bus / truck / motorcycle / bicycle)

2) Attributes: Person (Upper / lower clothes color), Vehicle (Type: car / bus / truck / motorcycle / bicycle and color)

3) Support Bestshot per object

4) Analytics events based on AI engine: Motion detection, Object*

detection, Virtual line (Crossing / Direction), Virtual area* (Loitering / Intrusion / Enter / Exit) *Some of the video analytics only works with people and vehicle detection*

5) *Analytics events: Defocus detection, Tampering, Virtual area (Appear / Disappear)*
6) *Business Intelligence: (based on AI engine) People counting, Vehicle counting, Queue management, Heatmap*

d. *Interoperability – The camera shall be ONVIF Profile S, G, T and M compliant.*
e. *The camera shall possess the following further characteristics:*
1) *Micro SD/SDHC/SDXC memory card with configurable pre-alarm and post-alarm recording intervals*
2) *NAS recording option with configurable pre-alarm and post-alarm recording intervals*
3) *Alarm triggers and notifications*
4) *IP66, IK10*
5) *This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunder stroke, communication interruption.*
6) *NDAA Compliant*

3. *DETAILED SPECIFICATIONS*
a. *Video*
1) *Imaging device: 1/2.8" CMOS*
2) *Resolution: 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240*
3) *Maximum Framerate*
a) *H.265 / H.264: Max. 30fps/25fps(60Hz/50Hz) (WDR on/off)*
b) *MJPEG: Max. 30fps(@5MP Max. 5fps)*
4) *Minimum Illumination*
a) *Color: 0.05Lux (F1.6, 1/30sec, 30IRE)*
b) *BW: 0.005Lux (F1.6, 1/30sec, 30IRE), 0Lux (IR LED on)*
5) *Video Out: Micro USB Type B, 1280x720 for installation*

b. *Lens:*
1) *Focal length: 3.0 mm fixed focal*
2) *Max. Aperture Ratio: F1.6*
3) *Field of View: H 100° / V 73° / D 129°*
4) *Min. Object Distance: 0.5m (1.64ft)*
5) *Focus Control: Fixed*
6) *Lens Type: Fixed Iris*
7) *Mount Type: M12*

c. *Pan / Tilt / Rotate*
1) *Pan / Tilt / Rotate Range: 0°~355° / 0°~75° / 0°~355°*

d. *Operational Functions*
1) *Camera Title: Displayed up to 85 characters*
2) *Day & Night: Auto (ICR)*
3) *Backlight Compensation: BLC / WDR / SSDR*
4) *Wide Dynamic Range: 120dB*
5) *Digital Noise Reduction: SSNR Ⅴ, WiseNR Ⅱ (Based on AI engine)*
6) *Motion Detection: 8ea, 8 point polygonal zones*
7) *Privacy Masking: 32ea, 4 point quadrangle zones (Color: Gray / Black / White), Dynamic Privacy Mask (Mosaic)*
8) *Gain Control: Off / Low / Middle / High*
9) *White Balance: ATW / AWC / Manual / Indoor / Outdoor*
10) *Lens Distortion Correction: Support*
11) *Electronic Shutter Speed*

a) *Min / Max / Anti-flicker (1/5 ~ 1/12,000sec)*
b) *Prefer shutter control (Based on AI engine)*

12) *Digital PTZ: support*
13) *Video Rotation: Flip, Mirror, Hallway view (90° / 270°)*
14) *Analytics*
    a) *Classified object type: Person / Vehicle (Type: car / bus / truck / motorcycle / bicycle)*
    b) *Attributes: Person (Upper / lower clothes color), Vehicle (Type: car / bus / truck / motorcycle / bicycle and color)*
    c) *Support Bestshot per object*
    d) *Analytics events based on AI engine: Motion detection*, Object detection, Virtual line* (Crossing / Direction), Virtual area* (Loitering / Intrusion / Enter / Exit) *Some of the video analytics only works with people and vehicle detection*
    e) *Analytics events: Defocus detection, Tampering, Virtual area (Appear / Disappear)*
15) *Business Intelligence: (based on AI engine) People counting, Vehicle counting, Queue management, Heatmap*
16) *Alarm I/O: Input 1ea / Output 1ea * Alarm I/O is supported through an optional cable(SPP-C7200)*
17) *Alarm Triggers: Analytics, Network disconnect, Alarm input, MQTT subscription*
18) *Alarm Events (When alarm trigger occurred)*
    a) *File upload (image/video clip): e-mail/FTP/SFTP*
    b) *Notification: e-mail*
    c) *Recording: SD/SDHC/SDXC or NAS recording at event triggers*
    d) *Alarm output*
    e) *Handover: PTZ preset, Send message by HTTP / HTTPS / TCP*
    f) *MQTT: publication*
19) *Audio in: Selectable (mic in/line in) *Audio In is supported through an optional cable (SPP-C7400)*
20) *Audio out: Line out *Audio Out is supported through an optional cable (SPP-C7400)*
21) *Light Type: IR LED (850nm)*
22) *Light Viewable Length: 25m(82.02ft)*
23) *Webpage Language: English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek*
24) *Edge Storage: Micro SD/SDHC/SDXC 1 slot 256GB*
25) *Memory: 2GB RAM, 1GB Flash*

e. *Network*

1) *Ethernet: Metal shielded RJ-45 (10/100 BASE-T)*
2) *Video compression*
    a) *H.265 / H.264: Main / High*
    b) *MJPEG*
3) *Smart Codec: Manual (5ea area), WiseStream Ⅲ (using AI engine)*
4) *Bitrate Control Method*
    a) *H.265 / H.264: CBR or VBR*
    b) *MJPEG: VBR*
5) *Streaming*
    a) *Unicast (20 users) / Multicast*
    b) *Multiple streaming: Up to 5 profiles*
6) *Protocol: IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP,*

IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT

7) *DDNS – The camera shall support DDNS services offered by the manufacturer and others publicly available service offerings*
8) *QoS – Layer 3 DSCP*
9) *Application Programming Interface*
   a) *ONVIF Profile S / G / T/ M*
   b) *SUNAPI (HTTP API)*
   c) *Hanwha Vision Open Platform*

f. *Security Feature*
1) *OS / Firmware Protect: Encrypted Firmware, Secure boot, Signed Firmware*
2) *User authentication: Digest Authentication, Prevent brute-force attack*
3) *Network authentication: IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)*
4) *Secure Communication: HTTPS, WSS (WebSocket Secure)*
5) *Access Control: IP-based access control*
6) *Data Protect: Encryption Credentials, Encrypt compress for live recording file*
7) *Audit: Access / System / Event Log management*
8) *Device ID: Device certificate (Hanwha Vision Root CA)*
9) *Secure Storage: SD card partition encrypt*
10) *The device shall not provide a manufacture default password. Default password change shall be required to access the camera.*
11) *A minimal level of password complexity shall be required by the camera.*
12) *The camera shall not have a manufacture back-door password.*
13) *The manufacturer shall provide a tool that provides the ability to make password changes to multiple cameras at the same time.*
14) *IP address filtering – List of allowed or blocked IP addresses*

g. *General*
1) *Discovery – The manufacturer shall offer a discovery program to identify all devices of them on the network.*
2) *Configuration – The manufacturer shall offer a configuration program that remotely allows users to change settings on multiple cameras simultaneously.*
3) *Firmware upgrade – The manufacturer shall offer a program capable of upgrading multiple cameras at the same time (not requiring access to individual cameras).*
4) *Camera backup setting – The manufacturer shall provide a program that provides the ability to save multiple camera settings to a file and restore these camera settings if needed.*
5) *Reporting – The manufacturer shall provide a tool that can generate a report including thumbnail view, MAC address, IP address, serial number and other camera settings.*

h. *Electrical*
1) *Input Voltage: PoE (IEEE802.3af, Class3)*
2) *Power Consumption: Max 8.1W, typical 4.0W*

i. *Mechanical And Environmental*
1) *Color/Material: White / Aluminum, Bubble (Hard-coated dome)*
2) *RAL Code: RAL9003*
3) *Dimensions (W x H): ø120 x 97.5mm (ø4.72 x 3.84")*
4) *Weight: 579g(1.27lb)*
5) *Certification: IP66, IK10*
6) *Operating Temperature & Humidity: -30°C~+55°C(-22°F~+131°F) /*

*0~100% RH(Condensing) * Start up should be done at above -30°C, Humidity control /w Air vent*

7) *Storage Temperature & Humidity: -50°C~+60°C(-58°F~+140°F) / 0~95% RH*
8) *Compatible Conduit hole / Gangbox: SBD-110GP1(Single, Double, 4" Octagon (Sold separately))*

j. *Compatible Models*
1) *Hanging Adaptor: SBP-120HMW*
2) *Back Box: SBV-140BW, SBV-140WW*
3) *Ceiling Mount (Assy): SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS*
4) *Ceiling Mount (Single Unit): SBP-140CMB, SBP-140CMT, SBP-180CMB, SBP-180CMS, SBP-150CMP, SBP-300CMP, SBP-900CMP, SBP-C15P, SBP-C15H*
5) *Wall Mount: SBP-125WMW1, SBP-250WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW*
6) *Wall Mount Adaptor: SBP-115PFA, SBP-300BW1*
7) *Pole Mount: SBD-140PMB, SBD-140PMW, SBP-300PMW2*
8) *In-ceiling Mount: SHD-1200FW, SHD-1201FPW*
9) *Corner Mount: SBD-140KMB, SBP-156KMW, SBP-300KMW1*
10) *Parapet Mount: SBP-156LMW1, SBP-300LMW*
11) *Tilt Mount: SBV-140TMW*
12) *Cabinet: SBP-150NBW, SBP-300NBW*
13) *Gang Plate: SBD-110GP1*
14) *Other Compatible Models: SPP-C7400*

k. *DORI Distance*
1) *Detect (25PPM / 8PPF): 43.5m(142.71ft)*
2) *Observe (63PPM / 19PPF): 17.5m(57.09ft)*
3) *Recognize (125PPM / 38PPF): 8.7m(28.5ft)*
4) *Identify (250PPM / 76PPF): 4.3m(14.27ft)*

l. *Certification*
1) *EMC*
a) *FCC 47 CFR 15 Subpart B Class A*
b) *ICES-3(A)/NMB-3(A)*
c) *CE/UKCA: EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3*
d) *VCCI CISPR 32 Class A*
e) *RCM AS/NZS CISPR 32 Class A*
2) *Safety*
a) *UL 62368-1*
b) *CAN/CSA C22.2 NO. 62368-1*
c) *IEC/EN 62471*
3) *Environment*
a) *IEC/EN 63000*
b) *IEC/EN 60529 IP66*
c) *IEC/EN 62262 IK10*

I. PNM-C32083RQZ | TYPE 7

1. EQUIPMENT
a. *Manufacturer: Hanwha Vision (https://www.hanwhavision.com)*
b. *Model: PNM-C32083RQZ*
c. *Alternates: none*

2. GENERAL DESCRIPTION
a. *Video Compression and Transmission – The camera shall have the following properties relating to the video signals it produces.*
1) *H.265, H.264 and MJPEG compression, each derived from a*

dedicated encoder and capable of being streamed independently and simultaneously

a) H.265 and H.264 – Max. 20 fps

b) MJPEG – Max. 20 fps (@8MP Max. 5fps)

2) The camera shall be able to configure up to 10 independent video stream profiles with differing encoding, quality, frame rate, resolution, and bit rate settings.

3) Resolution selections

a) 3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360

4) Simultaneous unicast access by up to 10 users

5) The camera shall support multicast video streaming.

6) The camera shall be able to configure Dynamic DNS (DDNS). DDNS shall be provided with no additional cost by the manufacturer.

7) The camera shall provide WiseStream Ⅱ to efficiently manage bit rate of the video stream and reduce storage.

8) The camera shall provide WiseNR Ⅱ that working based on AI engine for reduce noise and blur on image.

b. Camera – The camera device shall have the following physical and performance properties:

1) The camera shall be able to produce clear images in highly contrast scenes with multi-exposure wide dynamic range.

2) IP66, IK10, NEMA4X rated for protection against impacts.

3) Auto day/night operation with removable IR cut filter

a) Low light level operation to 0.07 lux (F1.3, 1/30sec, 30IRE) in color mode and 0 lux in black and white mode

4) The camera shall support digital noise reduction using both 2D and 3D noise reduction technology.

5) The camera shall be able to configure 6 privacy masking areas with rectangle zones.

6) The camera shall provide video display on smart phone (iPhone, Android) to adjust viewing angle, rotation and focus.

c. Intelligence and Analytics – The camera shall have a suite of intelligent analytic functions.

1) Analytics events: Defocus detection, Motion detection, Tampering, Audio detection, Sound classification

a) Motion detection with 8 definable detection areas with polygonal zones, and minimum/maximum object size.

b) Audio Detection and classification of the following sound: Scream, Gunshot, Explosion, Crashing glass

d. Interoperability – The camera shall be ONVIF Profile G/S/T/M compliant.

e. The camera shall possess the following further characteristics:

1) Micro SD/SDHC/SDXC memory card with configurable pre-alarm and post-alarm recording intervals

2) NAS recording option with configurable pre-alarm and post-alarm recording intervals

3) Alarm triggers and notifications

4) HPoE capable including heater

5) Impact protection, Water & Dust protection

6) This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunder stroke, communication interruption.

7) NDAA Compliant

3. DETAILED SPECIFICATIONS

a. Video
- *1) Image device: 1/1.8" CMOS x 4CH*
- *2) Resolution: 3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360*
- *3) Minimum illumination*
  - *a) Color: 0.07Lux (F1.3, 1/30sec, 30IRE)*
  - *b) BW: 0.007Lux (F1.3, 1/30sec, 30IRE, IR LED off), 0Lux (IR LED on)*

b. Lens
- *1) Focal length: 4.38~9.33mm (2.13x) motorized varifocal*
- *2) Max. Aperture Ratio: F1.3 (Wide) ~ F2.15 (Tele)*
- *3) Angle of view*
  - *a) H: 113° (Wide) ~ 47° (Tele)*
  - *b) V: 58° (Wide) ~ 26° (Tele)*
  - *c) D: 138° (Wide) ~ 54° (Tele)*
- *4) Min. Object Distance: 1.3m (4.27ft)*
- *5) Focus Control: Simple focus*
- *6) Lens Type: P-Iris*

c. Pan / Tilt / Rotate
- *1) Remote adjustment Max. 200cycles*
- *2) Pan / Tilt / Rotate Range: 0 ~ 360° / 30° ~ 90° / 0° ~ 90°*

d. Operational Functions
- *1) Camera Title: Displayed up to 85 characters*
- *2) Day and Night: Auto(ICR)*
- *3) Backlight Compensation: BLC / WDR / SSDR*
- *4) WDR: 120dB*
- *5) Digital Noise Reduction: SSNR Ⅴ, WiseNR Ⅱ(Based on AI engine)*
- *6) Defog: support*
- *7) Motion Detection: 8ea, 8 points polygonal zones*
- *8) Privacy Masking: 6ea, 4 points quadrangle zones (Color: Gray / Black / White)*
- *9) Gain Control: Off / Low / Middle / High*
- *10) White Balance: ATW / AWC / Manual / Indoor / Outdoor*
- *11) Lens Distortion Correction: support*
- *12) Electronic Shutter Speed: Minimum / Maximum / Anti-flicker (1/5 ~ 1/12,000sec)*
- *13) Rotation: Flip, Mirror, Hallway view (90°/270°) - each channel separately*
- *14) Analytics: Defocus detection, Motion detection, Tampering, Audio detection, Sound classification*
- *15) Alarm I/O: 2 configurable I/O ports * Support Alarm via optional SPM-4210 I/O box*
- *16) Alarm Triggers: Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Tampering*
- *17) Alarm Events*
  - *a) File Upload(image): E-mail and FTP*
  - *b) Notification via E-mail*
  - *c) Local storage (SD / SDHC / SDXC) or NAS recording at event triggers*
  - *d) Alarm output*
  - *e) Handover: PTZ preset, send message by HTTP/HTTPS/TCP*
  - *f) MQTT: publication*
- *18) Audio In: * Support Audio via optional SPM-4210 I/O box*
- *19) Audio Out: * Support Audio via optional SPM-4210 I/O box*
- *20) Light Viewable Length: WiseIR PoE++ 25m(82.02ft), PoE+ 15m(49.21ft)*

21) Edge storage: Micro SD / SDHC / SDXC 2 slot Max. 1TB (512GB x 2)
22) Memory: 8GB RAM, 16GB eMMC

e. Video Streams
1) The camera shall be able to produce 10 video profiles, each of which may have the following properties:
2) Encoding type: H.265, H.264, MJPEG
3) Maximum frame rate
   a) H.265 and H.264 – Max. 20 fps
   b) MJPEG – Max. 20 fps (@8MP Max. 5fps)
4) Smart Codec: Manual(5ea area), WiseStream Ⅱ
5) Bitrate control
   a) H.265 and H.264: CBR / VBR
   b) MJPEG: VBR
6) Number of multi-streaming profiles: Up to 3 profiles per CH
7) Simultaneous users (total): Max. 10 (unicast)
8) Application Programming Interface
   a) ONVIF Profile G / S / T / M
   b) SUNAPI (HTTP API)
   c) Hanwha vision open platform

f. Network
1) Connectivity: Metal shielded RJ-45 10/100/1000 Base-T Ethernet
2) Protocols: IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
3) DDNS – The camera shall support DDNS services offered by the Manufacturer and other publicly available service offerings.
4) Quality of Service (QoS) – Layer 3 DSCP
5) Security features:
   a) OS / Firmware Protect: Encrypted Firmware, Secure boot, Signed Firmware
   b) User authentication: Digest Authentication
   c) Network authentication: IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
   d) Secure Communication: HTTPS, WSS (WebSocket Secure)
   e) Access Control: IP-based access control
   f) Data Protect: Encryption Credentials, Encrypt compress for live recording file
   g) Audit: Access / System / Event Log management
   h) Device ID: Device certificate (Hanwha Vision Root CA)
   i) Secure Storage: TPM, SD card partition encrypt
   j) Security Certificate: TPM with FIPS 140-2 level 2
6) Discovery – The manufacturer shall offer a discovery program to identify all devices of them on the network.
7) Configuration – The manufacturer shall offer a configuration program that remotely allows users to change settings on multiple cameras simultaneously.
8) Firmware upgrade – The manufacturer shall offer a program capable of upgrading multiple cameras at the same time (not requiring access to individual cameras).
9) Camera backup setting – The manufacturer shall provide a program that provides the ability to save multiple camera settings to a file and restore these camera settings if needed.
10) Reporting – The manufacturer shall provide a tool that can generate a report including thumbnail view, MAC address, IP address, serial number and other camera settings.

g. Environment and Electrical

1) Operating Temperature & Humidity: -40°C ~ +55°C(-40°F ~ +131°F) / 0~100% RH(condensing) * Start up should be done at above -20°C, Humidity control /w AIR vent

2) Storage Temperature & Humidity: -50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH

3) Certification: IP66, NEMA4X, IK10

4) Input Voltage: PoE++, PoE+

5) Power Consumption

a) PoE++: Max 41.0W, typical 22.0W

b) PoE+: Max 25.5W, typical 22.0W

h. Mechanical

1) Color/Material: White / Aluminum + PC, Bubble with hard-coated dome

2) RAL Code: RAL9003

3) Dimensions (W x H): ø315 x 180mm (ø12.40 x 7.09")

4) Weight: 6.10Kg(13.45lb)

5) Compatible Conduit Hole: 19.1mm (3/4") (M25)

6) Gangbox: Single, double, 4" octagon, 4" square

i. Certifications

1) EMC

a) FCC 47 CFR 15 Subpart B Class A

b) ICES-3(A)/NMB-3(A)

c) CE/UKCA: EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3

d) VCCI CISPR 32 Class A

e) RCM AS/NZS CISPR 32 Class A

f) KS C 9832 Class A, KS C 9835

2) Safety

a) UL 62368-1, CAN/CSA C22.2 NO. 62368-1

b) IEC/EN 62471

3) Environmental

a) IEC/EN 63000

b) IEC 60529 IP66, IEC/EN 62262 IK10

c) NEMA 250 type 4X

j. Compatible Models

1) Hanging Adaptor: SBP-315HMW, SBP-317HMWP

2) Ceiling Mount (Assy): SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS

3) Ceiling Mount (Single Unit): SBP-180CMB/140CMB, SBP-180CMS, SBP-900CMP/300CMP/150CMP, SBP-C15P, SBP-C15H

4) Wall Mount: SBP-400WMW/250WMW, SBP-300WMW

5) Wall Mount Adaptor: SBP-300BW1, SBP-115PFA

6) Pole Mount: SBP-300PMW2

7) Corner Mount: SBP-300KMW1, SBP-156KMW

8) Parapet Mount: SBP-300LMW, SBP-156LMW1

9) Cabinet: SBP-300NBW, SBP-150NBW

10) Interface Box: SPM-4210

11) Other Compatible Models: SBP-315C, SPO-8315

k. DORI Distance

1) Detect (25PPM / 8PPF): Wide: 50.8m(166.77ft) / Tele: 176.6m(579.49ft)

2) Observe (63PPM / 19PPF): Wide: 20.3m(60.71ft) / Tele: 70.7m(231.80ft)

3) Recognize (125PPM / 38PPF): Wide: 10.2m(33.35ft) / Tele: 35.3m(115.90ft)

4) Identify (250PPM / 76PPF): Wide: 5.1m(16.68ft) / Tele: 17.7m(57.95ft)

PART 3 EXECUTION

3.1 PREPARATION

A. System Integrator: Confirm the planning and design of the solution proposal with the installing contractor.

B. Network Configuration: Tested and qualified by <<Insert Contractor>> prior to remote device installation.

C. All software found in products shall include the latest and most up-to-date cybersecurity patches provided by the manufacturer, or a version specified by the provider of the Video Management System (VMS).

D. All equipment requiring users to log on using a password must be configured with user/site-specific passwords. No system/product default passwords shall be allowed.

3.2 VIDEO SURVEILLANCE SYSTEM INSTALLATION, NECESSARY MOUNTING ACCESSORIES, AND PROGRAMMING

A. Install products per the manufacturer's recommendations and approved submittals.

B. Contractor personnel must comply with all applicable state and local licensing requirements.

C. If applicable, set the PTZ/PTRZ pan unit and pan-and-tilt until it stops to suit the final camera position and obtain the required field of view. Connect all controls and alarms, and adjust to the desired Field of View, presets, and actions.

D. Program camera system head end. Provide unique on-screen camera identification for all cameras with the following nomenclature:
1. Camera title, date, and time
2. Tours and Salvos (if required)
3. On-screen display feature tiles.
4. Individual user settings and rights.

E. Cameras installed supporting critical AI and analytic features shall meet the specified Pixels per foot (PPF) and correct angles to provide optimal performance. These select cameras shall be fully tested and verified by the owner, manufacturer, or project engineer, and any adjustments shall be made by the contractor and verified. Unique individual user login settings and/or Active Directory integration shall be provided as required.

3.3 CYBER SECURITY PROTECTION <this section includes best practices and may be completed by the client or another 3rd party contractor.>

A. All equipment requiring users to log on using a password must be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed. The contractor shall implement all camera manufacturers' cybersecurity recommendations and configurations, following industry best practices per the camera manufacturer's Cyber Hardening Guide.

B. Document that not all cameras have a default password.

C. Document that all cameras have installed the latest firmware (cybersecurity patches).

D. All unused camera ports shall be disabled.

E. Back up all camera settings and provide the file to the owner.

F. Document the latest VMS version installed on all servers and workstations for cybersecurityprotection.

G. Set user permissions and rules in VMS as outlined in the client's cybersecurity policy or pre-established policies.

H. Unmanaged network switches shall not be used.
1. Physical security systems shall be on separate physical or logical (VLAN) networks from other corporate systems.
2. All unused switch ports shall be disabled
3. The use of additional network filtering, such as MAC, IP, or 802.11X

I. Ensure that all network devices (switches, Wi-Fi devices, network management apps, etc.) have the latest software and do not have default passwords.

J. Provide up to <two> visits per year to check and update firmware in cameras and VMS versions on servers and workstations to ensure that known cybersecurity vulnerabilities are removed. Also, review User profiles with the client and remove all unused/unauthorized Users.

3.4 CLOSEOUT SUBMITTALS

A. After project completion, the contractor shall provide additional project close-out submittals required.

B. Operation and Maintenance Data: For cameras, power supplies, and network recorders (server/storage), to include in emergency, operation, and maintenance manuals.

C. Lists of spare parts and replacement components recommended for storage at the site for ready access (if applicable).

D. Complete a hardcopy printout and an electronic copy from the system camera manufacturer's Device Manager, which outlines the system and camera configuration, including the camera model number, IP address, and MAC address, the static camera image FOV at the time of installation, and other system settings.

E. As-built drawings on facility floor plans showing camera installed location, wiring and cable routes, termination points, riser and connection diagrams, schematics, and other system drawings.

3.5 The following are approved file server and storage systems manufacturers:
1. Genetch
No Approved Equals

A. The software shall support Windows, Mac and shall have mobile apps for iPhone, iPad and Androids.

B. Video Surveillance cameras shall be integrated with the Lighting and Temperature control system, verify requirements with Electrical and Mechanical contractors.

C. Shall be web based, so any owners personal with proper credentials can access it from anywhere.

END OF SECTION 28 23 11

SECTION 32 18 23.54 – ASPHALT BASKETBALL COURT COLOR COATING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Application of acrylic color coating system over prepared asphalt concrete pavement.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)
   1. C 136 Method of Sieve Analysis of Fine and Coarse Aggregates
   2. D 870 Resistance to Water
   3. D 4214 Resistance to Chalking
   4. D 4587 Resistance to Color Fading
   5. D 2939 Section 8 Test Method to Determine Residue by Evaporation

1.3 SYSTEM DESCRIPTION

Choices regarding the number of coats of resurfacer and color finish should be made based on the following general principles:

-New Construction or overlays- will probably require two coats of acrylic resurfacer.

-Reseals of existing surfaces- will generally require one coat of acrylic resurfacer.

A minimum of two slurry color coats are recommended. Very heavy play surfaces should have a third application. To adjust speed of play a third coat without aggregate will result in a slightly faster and less abrasive surface.

A. Provide two (2) coats of Acrylic Resurfacer over prepared surface.

B. Provide three (3) coats of Acrylic Color Coating over prepared surface after Acrylic Resurfacer has dried thoroughly.

C. Place lines on surface.

Colors available include green, dark green, red, beige, gray, and blue. Custom color matching is also available from Neyra Industries, Inc. Greens are coolest and easy on the eyes. Blue is primarily intended for indoor courts where reflective color may be desirable.

D. Colors selected are to be as indicated on drawings. Final selections to be made by architect from manufacturers' full color range.

1.4 SUBMITTALS

A. Product Data
   1. Submit Manufacturers printed Product Data Sheets, stating that coating meets above ASTM and EPA standards, and application specifications.
   2. Color chart for final color selections.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Apply coating in dry weather when pavement and atmospheric temperatures are fifty (50) degrees F. or above and are anticipated to remain above fifty (50) degrees F., and good drying conditions are present and expected for the next eight (8) hours.

B. Do not apply if freezing temperatures are expected within at least forty-eight (48) hours of application.

1.6 WARRANTY

A. A two (2) year written dual warranty signed by contractor and materials manufacturer is available.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Neyra Industries, Inc., Cincinnati, Ohio

   1. Materials are listed as standard of quality.

B. No other material will be acceptable unless approved by the Architect/Engineer in writing ten (10) days prior to bid date.

2.2 MATERIALS

A. Color Coating: Dynaflex Acrylic or Center Court Acrylic

B. Resurfacer: Dynaflex Acrylic Resurfacer
   1. An acrylic latex modified with synthetic fibers and fillers.

C. Line Paint: Dynastripe
   1. A water-based acrylic striping paint.

D. Aggregate

1. Washed, dry silica sand free of dust, trash, clay, organic materials or other contaminants.
2. Gradation: To have an American Foundry Society grain fineness number that is no less than seventy (70) and no greater than one hundred (100) when tested in accordance with ASTM C 136 for color coat and not less than fifty (50) or greater than one hundred (100) for Acrylic Resurfacer.

E. Court Patch Binder: Dynabinder
1. A water-based acrylic, polymer/portland cement/sand patching material.

F. Acrylic Crack Sealant: AcrylaSeal Acrylic Crack Sealant
1. Minimum dry solids by volume sixty-nine (69) percent.

G. Mixing Water
1. Potable and free from harmful soluble salts.
2. Temperature of the water: minimum fifty (50) degrees F.

2.3 MIXES

A. Color Coating Slurry Mixes: Per one hundred (100) gallons of color concentrate, add forty (40) to fifty (50) gallons of water, then add and mix from four (4) to eight (8) pounds per gallon of silica sand as per manufacturer's written specification. (If Center Court is used, no additional sand is required).

B. Acrylic Resurfacer: Per one hundred (100) gallons of concentrate add forty—five (45) to fifty-five (55) gallons of water. Then add and mix six (6) to twelve (12) pounds of silica sand as per manufacturer's recommendation.

2.4 EQUIPMENT

A. All equipment, tools, and machinery used for handling materials and executing work shall be in good working condition and capable of applying required coating weights evenly to provide a smooth, uniform coated surface.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Inspect existing pavement surfaces for condition and defect that will adversely affect quality of work, and which cannot be put into an acceptable condition through normal preparatory work as specified. Do not place coating if defects exist, notify Architect/Engineer.

B. Starting installation constitutes contractor's acceptance of surface as suitable for installation.

3.2 PREPARATION – EXISTING BASKETBALL COURT

A. Repair courts.
   1. Repair grade depressions: Prior to the application of coating materials, entire surface should be checked for minor depressions or irregularities. This is to be done by flooding the courts and after one-half (1/2) hour marking any depressions where water covers a nickel (approximately one eighth (1/8) inch). Fill such irregularities with court patch binder according to manufacturer's specifications.
   2. Clean all cracks thoroughly and fill.
      a. Cracks less than one-quarter (1/4) inch in width shall be filled with acrylic crack sealant.
      b. Cracks greater than one-quarter (1/4) inch in width shall be filled with court patch binder.
   3. Cleaning
      a. Thoroughly clean surfaces to be coated to remove all foreign debris (dirt, silt, gravel, leaves, etc.) using mechanically powered forced air sweepers, mechanical street sweepers, steel bristle brooms and/or high pressure water.
      b. Thoroughly scrape mud areas and scrub wash with clean water.
      c. If fungus is present, use a two (2) percent sodium hypochlorite solution to clean affected area. Rinse thoroughly.
   4. Protection: Protect adjacent curbs, walks, fences, and other items from receiving color coat or resurfacer.

3.3 PREPARATION – NEW BASKETBALL COURTS

A. Cleaning
   1. Thoroughly clean surfaces to be coated. Remove all foreign debris (dirt, silt, gravel, leaves, etc.) using mechanically powered forced air sweepers, mechanical street sweepers, steel bristle brooms and/or high pressure water.
   2. Thoroughly scrape mud areas and scrub wash with clean water.

B. Protection: Protect adjacent curbs, walks, fences, and other items from receiving color coat or resurfacer.

C. New pavements which have been accepted by Architect/Engineer/Owner shall be allowed to cure and pass the "no water break" test before application. Cast one or two gallons of clean water from suitable clean container (such as a 5 gallon pail) out on the surface. The water should sheet out and wet the surface uniformly without ribboning, crawling, or showing oil rings. (Comparable to water on very clean glass vs. dirty or greasy glass.) If the clean water does not wet the surface uniformly, the asphalt is not ready for coating and should age longer.

3.4 APPLICATION

A. When making mixes add water first then while agitating add silica sand slowly. Keep mixture homogeneous prior to beginning application and during entire time mixture is being applied.

B. Apply acrylic resurfacer uniformly over entire pavement per manufacturer's specifications.

C. Allow adequate time between applications for prior coat to dry thoroughly before applying next coat. Acrylic resurfacer can normally be re-coated after four (4) hours of good drying with sun. Color coats can normally be re-coated after two-four (2-4) hours of good drying with sun. Upon completion of final coat keep all foot traffic off sealed surface. Allow the final coat to cure at least twenty-four (24) hours, under good drying conditions, before allowing foot traffic on surface. Less favorable conditions will require longer drying times.

Playing lines: Base lines shall be [[two (2) inches] [three (3) inches] [four (4) inches]] (be sure to state width of base lines) wide and playing lines not more than two (2) inches wide, accurately located and marked, and painted with a paint recommended or approved by the manufacturer of the color finish material; however, use of traffic, oil, alkyd, or solvent-vehicle type paint is prohibited. The painting shall be done by skilled mechanics in a workmanlike manner in accordance with the manufacturer's standard printed instructions. Prior to white line paint application, line paint tape gap filler shall be applied to reduce incidence of fuzzy lines.

3.5 PROTECTION

A. Barricade coated areas until coating has dried sufficiently for foot traffic.

END OF SECTION 32 18 23.54

ARCHITECTURAL/SITE ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

@	AT	M	METER
AC	AIR CONDITIONING	MAS	MASONRY
ACT	ACOUSTICAL CEILING TILE	MAT	MATERIAL
AD	AREA DRAIN	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFP	ACCORDION FOLDING PARTITION	MEZZ	MEZZANINE
AGG	AGGREGATE	MFR	MANUFACTURER
ALT	ALTERNATIVE	MH	MOP HOLDER
AL	ALUMINUM	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
APROX	APPROXIMATE	MM	MILLIMETER
AR	ACID RESISTANT	MO	MASONRY OPENING
ARCH	ARCHITECT(URAL)	MTL	METAL
ASPH	ASPHALT		
AV	AUDIO-VISUAL	N	NORTH
AWG	AMERICAN WIRE GUAGE	NIC	NOT IN CONTRACT
AWT	ACCOUSTICAL WALL TREATMENT	NO/#	NUMBER
L	ANGLE	NOM	NOMINAL
&	AND	NTS	NOT TO SCALE
BIT	BITUMINOUS	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
BM	BENCH MARK / BEAM	OPP	OPPOSITE
B.O.	BOTTOM OF	OH	OPPOSITE HAND
BOS	BOTTOM OF STEEL	O TO O	OUT TO OUT
BOT	BOTTOM	OW	OPERABLE WALL
BRG	BEARING	OZ	OUNCE
BRK	BRICK		
BUR	BUILT-UP ROOF	P	PAINT
		PA	PUBLIC ADDRESS
CAB	CABINET	PERF	PERFORATED
CAR	CARPET	PLAS	PLASTIC
CAT	CATALOG	PL	PLASTIC LAMINATE
CB	CHALKBOARD / CATCH BASIN	PLBG	PLUMBING
CFM	CUBIC FEET PER MINUTE	PLYWD	PLYWOOD
CH	CABINET HEATER	PREFAB	PREFABRICATED
CI	CAST IRON	PS	PROJECTION SCREEN
CJ	CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	PSS	PENCIL SHARPENER SUPPORT
CLG	CEILING	PT	PORCELAIN TILE
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CMT	CERAMIC MOSAIC TILE	PVMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT	QT	QUARRY TILE
COL	COLUMN		
COMP	COMPACTED	R	RISER
CONC	CONCRETE	RA	RETURN AIR
CONSTR	CONSTRUCTION	RAD/R	RADIUS
CONT	CONTINUOUS/CONTINUE	RB	RESILIENT BASE
CONTR	CONTRACTOR	RCP	REINFORCED CONCRETE PIPE
CORR	CORRUGATED	RD	ROOF DRAIN
CT	CERAMIC TILE	REF	REFERENCE
C TO C	CENTER TO CENTER	REFR	REFRIGERATOR
CSK	COUNTER SINK	REINF	REINFORCING
CU FT/CF	CUBIC FEET	REQ'D	REQUIRED
CU IN/CI	CUBIC INCH	REV	REVISION(S)
CU YD/CY	CUBIC YARD	RM	ROOM
CUSP	CUSPIDOR	R.O.	ROUGH OPENING
CW	COLD WATER	ROW	RIGHT-OF-WAY
CWF	CEMENTITIOUS WOOD FIBER		
		S	SOUTH
d	PENNY (NAILS, ETC.)	SA	SUPPLY AIR
D	DEPTH/DEEP	SAN	SANITARY
°	DEGREE	SCHED	SCHEDULE
DC	DISPLAY CASE	SD	STORM DRAIN / SMOKE DETECTOR
DEPT	DEPT	SECT	SECTION
DET	DETAIL	SEW	SEWER
DF	DRINKING FOUNTAIN	SGFT	STRUCTURAL GLAZED FACING TILE
DIA/ Ø	DIAMETER	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DIV	DIVISION	SP	SPACE
DL	DEAD LOAD	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SPKR	SPEAKER
DS	DOWNSPOUT	SQ	SQUARE
DWC	DRINKING WATER COOLER	SQ FT/SF	SQUARE FEET
		SQ IN/SI	SQUARE INCHES
E	EAST	SQ YD/SY	SQUARE YARDS
EA	EACH	SS	STAINLESS STEEL
EF	EACH FACE	ST	STORM/STREET
EJ	EXPANSION JOINT	STD	STANDARD
EL	ELEVATION	STL	STEEL
ELEC	ELECTRIC(AL)	STRUCT	STRUCTURAL
ELEV	ELEVATOR	SUSP	SUSPENDED
ENGR	ENGINEER	SW	SHORT WAY / SIDEWALK
EP	ELECTRICAL PANELBOARD	SYMM	SYMMETRY(ICAL)
EQ	EQUAL	SYNTH	SYNTHETIC
EQUIP	EQUIPMENT		
EW	EACH WAY	T	TREAD
EFS (or DEFS)	DIRECT APPLIED EXTERIOR FINISH SYSTEM	T&B	TOP AND BOTTOM
EIFS	EXTERIOR INSULATION FINISH SYSTEM	T&G	TONGUE AND GROOVE
EXH	EXHAUST	TA	TOILET ACCESSORY(IES)
EXIST	EXISTING	TB	TACKBOARD
EXP	EXPANSION	TC	TOP OF CURB
EXT	EXTERIOR	TEL	TELEPHONE
EXTN	EXTENSION	TERR	TERRAZZO
		T.O.	TOP OF
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET	TOF	TOP OF FOOTING
FIN	FINISH	TOM	TOP OF MASONRY
FIN FL	FINISH FLOOR	TOS	TOP OF STEEL
FLR	FLOOR	TV	TELEVISION
FDN	FOUNDATION	TYP	TYPICAL
FSR	FLEXIBLE SHEET ROOFING	TWS	TACKABLE WALL SURFACE
FSSK	FLOOR SERVICE SINK		
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	UV	UNIT VENTILATOR
FE	FIRE EXTINGUISHER	UR	URINAL
FEC	FIRE EXTINGUISHER CABINET		
		VCT	VINYL COMPOSITE TILE
GA	GAUGE	VCGWB	VINYL COVERED GYPSUM WALLBOARD
GALV	GALVANIZED(D)	VERT	VERTICAL
GB	GRAB BAR	VFW/C	VINYL FABRIC WALLCOVERING
GFCMU	GROUND FACE CONCRETE MASONRY UNIT	VIF	VERIFY IN FIELD
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT	VIT	VITREOUS
GL	GLASS	VOL	VOLUME
GWB	GYPSUM WALLBOARD	VR	VAPOR RETARDER
		VRB	VENTED RESILIENT BASE
H	HEIGHT/HIGH	VS	VENT STACK
HB	HOSE BIB	VT	VINYL STACK
HDWE	HARDWARE		
HM	HOLLOW METAL	W	WEST / WIDE / WIDTH
HORIZ	HORIZONTAL	W/	WITH
HPT	HIGH POINT	W/O	WITHOUT
HS	HIGH STRENGTH	WA	WARDROBE ACCESSORIES
HTG	HEATING	WB	WOOD BASE
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WC	WATER CLOSET / WIND COLUMN
HW	HOT WATER	WD	WOOD
HWY	HIGHWAY	WH	WATER HEATER
		WP	WORKING POINT
ID	INSIDE DIAMETER	WSSK	WALL SERVICE SINK
IN	INCH	WWF	WELDED WIRE FABRIC
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION	YD	YARD / YARD DRAIN
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB#	POUND		
LKR	LOCKER		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LVR	LOUVER		
LW	LONG WAY		

MATERIAL SYMBOLS LEGEND

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- ASPHALT
- EARTH
- GRAVEL, STONE, OR DRAINAGE FILL
- SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK
- CONCRETE
- TERRAZZO
- CUT STONE
- MARBLE
- SLATE
- FACE BRICK (PLAN)
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- METAL ROOF DECK
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTICAL TILE CEILING
- EXTERIROR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- SIM 1A / A-400 — CALLOUT
- 1 — REVISION TAG
- A — ROOF TYPE TAG
- 1t — EQUIPMENT TAG
- SIM 1A / A-300 — BUILDING/WALL SECTION
- X1 — CEILING TAG
- SIM 1A / A-300 — DETAIL SECTION
- ? — KEY NOTE TAG
- XXXX — DOOR TAG
- SLOPE 1/12 — ROOF SLOPE TAG
- X / X### — MATCHLINE VIEW REFERENCE
- X / AX.XX / X — EXTERIOR ELEVATION
- W##X — WALL TAG
- X Ref / X Ref AX.XX X Ref / X Ref — INTERIOR ELEVATION
- 1t — STOREFRONT TAG
- X — GRID HEAD
- XX — WINDOW TAG
- Name / EL. XXX'-XX" — LEVEL LINE
- 101 — ROOM TAG
- 811 — EXISTING CONTOUR
- 811 — NEW CONTOUR
- TB#1 — TEST BORING & NO.
- 811.9 — EXISTING POINT ELEVATION
- 811.9 — NEW POINT ELEVATION
- 11 — STORM SEWER INLETS

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P-001 SYMBOLS & ABBREVIATIONS

PF10A FOUNDATION PLUMBING PLAN - UNIT A
PF10B FOUNDATION PLUMBING PLAN - UNIT B
PF10C FOUNDATION PLUMBING PLAN - UNIT C
PF10D FOUNDATION PLUMBING PLAN - UNIT D
PF10E FOUNDATION PLUMBING PLAN - UNIT E
PF10F FOUNDATION PLUMBING PLAN - UNIT F
PL11A FIRST FLOOR PLUMBING PLAN - UNIT A
PL11B FIRST FLOOR PLUMBING PLAN - UNIT B
PL11C FIRST FLOOR PLUMBING PLAN - UNIT C
PL11D FIRST FLOOR PLUMBING PLAN - UNIT D
PL11E FIRST FLOOR PLUMBING PLAN - UNIT E
PL11F FIRST FLOOR PLUMBING PLAN - UNIT F
PL12A SECOND FLOOR PLUMBING PLAN - UNIT A
PL12B SECOND FLOOR PLUMBING PLAN - UNIT B
PL12C SECOND FLOOR PLUMBING PLAN - UNIT C
PL12D SECOND FLOOR PLUMBING PLAN - UNIT D
PL12E SECOND FLOOR PLUMBING PLAN - UNIT E
PL12F SECOND FLOOR PLUMBING PLAN - UNIT F
PLCBG CONCESSIONS BUILDING PLUMBING PLANS - UNIT G

P-301 WASTE AND VENT ISOMETRICS - UNIT A
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P-303 WASTE AND VENT ISOMETRICS - UNIT C
P-304 WASTE AND VENT ISOMETRICS - UNIT D
P-305 WASTE AND VENT ISOMETRICS - UNIT E
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P-402 ENLARGED PLUMBING PLANS
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P-501 PLUMBING SCHEDULES AND DETAILS

08 MECHANICAL
M-001 SYMBOLS & ABBREVIATIONS

MV11A FIRST FLOOR VENTILATION PLAN - UNIT A
MV11B FIRST FLOOR VENTILATION PLAN - UNIT B
MV11C FIRST FLOOR VENTILATION PLAN - UNIT C
MV11D FIRST FLOOR VENTILATION PLAN - UNIT D
MV11E FIRST FLOOR VENTILATION PLAN - UNIT E
MV11F FIRST FLOOR VENTILATION PLAN - UNIT F
MV12A SECOND FLOOR VENTILATION PLAN - UNIT A
MV12B SECOND FLOOR VENTILATION PLAN - UNIT B
MV12C SECOND FLOOR VENTILATION PLAN - UNIT C
MV12D SECOND FLOOR VENTILATION PLAN - UNIT D
MV12E SECOND FLOOR VENTILATION PLAN - UNIT E
MV12F SECOND FLOOR VENTILATION PLAN - UNIT F
MP11A FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A
MP11B FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B
MP11C FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C
MP11D FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT D
MP11E FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT E
MP11F FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT F
MP12A SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A
MP12B SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B
MP12C SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C
MP12D SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT D
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MR101 MECHANICAL ROOF PLAN
MS101 MECHANICAL SITE PLAN

M-301 MECHANICAL SECTIONS
M-302 MECHANICAL SECTIONS
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M-401 ENLARGED CONSESSION BUILDING - UNIT G

M-501 MECHANICAL DETAILS
M-502 MECHANICAL DETAILS
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M-601 MECHANICAL SCHEDULES
M-602 MECHANICAL SCHEDULES

M-701 MECHANICAL SCHEMATICS

M-901 MECHANICAL ISOMETRICS
M-902 MECHANICAL ISOMETRICS
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09 ELECTRICAL
E-001 ELECTRICAL SYMBOLS & ABBREVIATIONS
ES101 ELECTRICAL SITE PLAN
ED101 ELECTRICAL DEMO PLAN

ET11A FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A
ET11B FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B
ET11C FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C
ET11D FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D
ET11E FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E
ET11F FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F
ET11G FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - CONCESSIONS AND PRESSBOX
ET12A SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A
ET12B SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B
ET12C SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C
ET12D SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D
ET12E SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E
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ET501 TECHNOLOGY ROUGH-IN DETAILS
ET502 TECHNOLOGY ROUGH-IN DETAILS
ET503 TECHNOLOGY ROUGH-IN DETAILS
ET504 TECHNOLOGY ROUGH-IN DETAILS
EL11A FIRST FLOOR LIGHTING PLAN - UNIT A
EL11B FIRST FLOOR LIGHTING PLAN - UNIT B
EL11C FIRST FLOOR LIGHTING PLAN - UNIT C
EL11D FIRST FLOOR LIGHTING PLAN - UNIT D
EL11E FIRST FLOOR LIGHTING PLAN - UNIT E
EL11F FIRST FLOOR LIGHTING PLAN - UNIT F
EL12A SECOND FLOOR LIGHTING PLAN - UNIT A
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EL12C SECOND FLOOR LIGHTING PLAN - UNIT C
EL12D SECOND FLOOR LIGHTING PLAN - UNIT D
EL12E SECOND FLOOR LIGHTING PLAN - UNIT E
EL12F SECOND FLOOR LIGHTING PLAN - UNIT F

EP11A FIRST FLOOR POWER PLAN - UNIT A
EP11B FIRST FLOOR POWER PLAN - UNIT B
EP11C FIRST FLOOR POWER PLAN - UNIT C
EP11D FIRST FLOOR POWER PLAN - UNIT D
EP11E FIRST FLOOR POWER PLAN - UNIT E
EP11F FIRST FLOOR POWER PLAN - UNIT F
EP12A SECOND FLOOR POWER PLAN - UNIT A
EP12B SECOND FLOOR POWER PLAN - UNIT B
EP12C SECOND FLOOR POWER PLAN - UNIT C
EP12D SECOND FLOOR POWER PLAN - UNIT D
EP12E SECOND FLOOR POWER PLAN - UNIT E
EP12F SECOND FLOOR POWER PLAN - UNIT F

EF11A FIRST FLOOR FIRE ALARM PLAN - UNIT A
EF11B FIRST FLOOR FIRE ALARM PLAN - UNIT B
EF11C FIRST FLOOR FIRE ALARM PLAN - UNIT C
EF11D FIRST FLOOR FIRE ALARM PLAN - UNIT D
EF11E FIRST FLOOR FIRE ALARM PLAN - UNIT E
EF11F FIRST FLOOR FIRE ALARM PLAN - UNIT F
EF12A SECOND FLOOR FIRE ALARM PLAN UNIT A
EF12B SECOND FLOOR FIRE ALARM PLAN UNIT B
EF12C SECOND FLOOR FIRE ALARM PLAN UNIT C
EF12D SECOND FLOOR FIRE ALARM PLAN UNIT D
EF12E SECOND FLOOR FIRE ALARM PLAN UNIT E
EF12F SECOND FLOOR FIRE ALARM PLAN UNIT F

E-401 KITCHEN POWER PLAN
E-402 CONCESSION AND PRESSBOX PLANS - UNIT G AND H
E-403 STAGE LIGHTING PLAN

E-501 ELECTRICAL DETAILS
E-502 ELECTRICAL DETAILS
E-503 SEQUENCE OF OPERATIONS

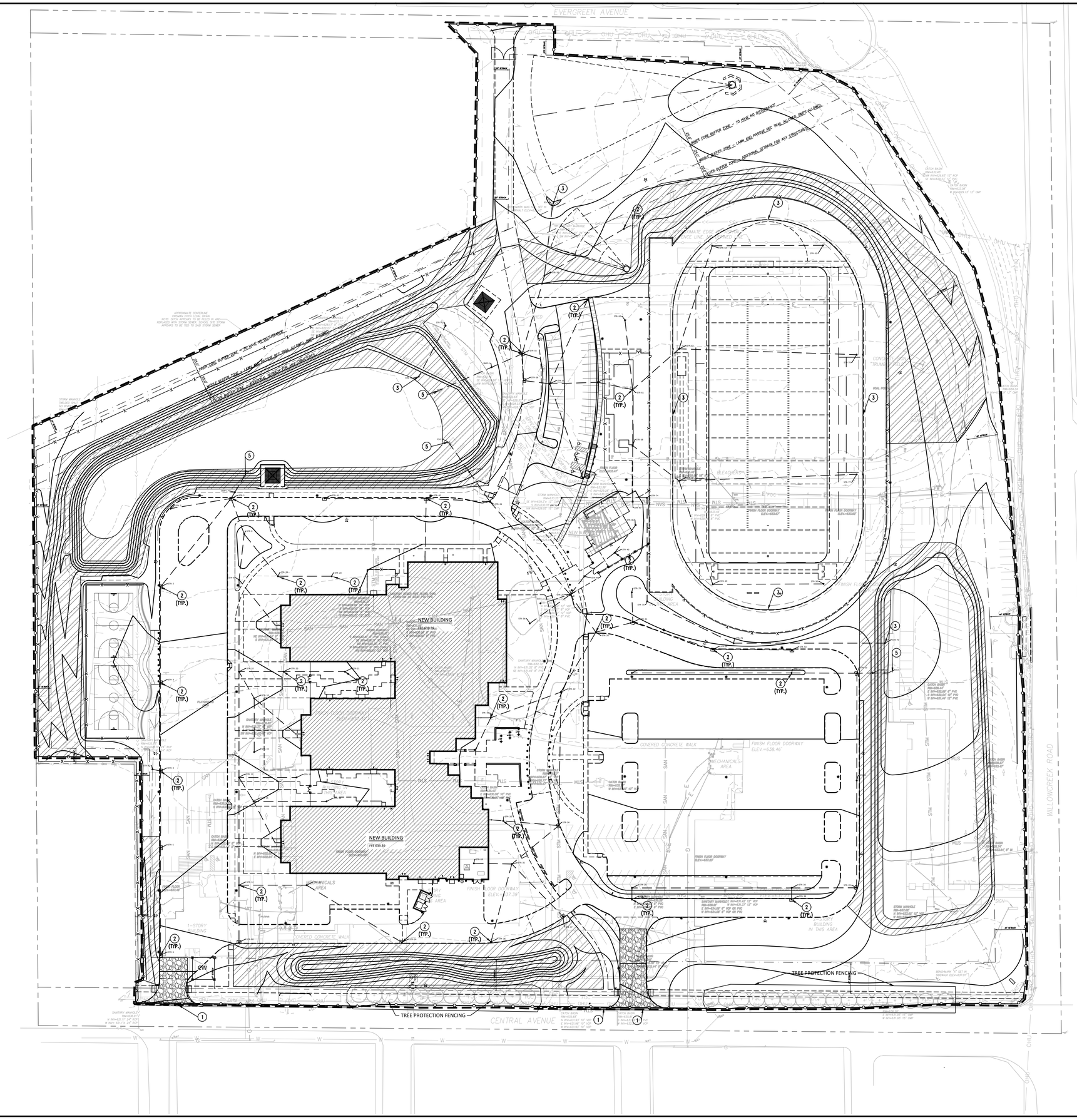
E-601 LUMINAIRE SCHEDULES
E-602 PANELBOARD SCHEDULES
E-603 PANELBOARD SCHEDULES
E-604 PANELBOARD SCHEDULES
E-605 PANELBOARD SCHEDULES
E-606 PANELBOARD SCHEDULES
E-607 PANELBOARD SCHEDULES

E-701 ELECTRICAL ONE-LINE DIAGRAM
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T-001 TECHNOLOGY SYMBOLS & ABBREVIATIONS
TS101 TECHNOLOGY SITE PLAN

T-101 OVERALL FIRST FLOOR TECHNOLOGY PLAN
T-102 OVERALL SECOND FLOOR TECHNOLOGY PLAN
T-103 OVERALL FIRST FLOOR CABLE TRAY AND SLEEVE PLAN
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T-11A FIRST FLOOR TECHNOLOGY PLAN - UNIT A
T-11B FIRST FLOOR TECHNOLOGY PLAN - UNIT B
T-11C FIRST FLOOR TECHNOLOGY PLAN - UNIT C
T-11D FIRST FLOOR TECHNOLOGY PLAN - UNIT D
T-11E FIRST FLOOR TECHNOLOGY PLAN - UNIT E
T-11F FIRST FLOOR TECHNOLOGY PLAN - UNIT F
T-11G FIRST FLOOR TECHNOLOGY PLAN - CONCESSIONS AND PRESSBOX
T-12A SECOND FLOOR TECHNOLOGY PLAN - UNIT A
T-12B SECOND FLOOR TECHNOLOGY PLAN - UNIT B
T-12C SECOND FLOOR TECHNOLOGY PLAN - UNIT C
T-12D SECOND FLOOR TECHNOLOGY PLAN - UNIT D
T-12E SECOND FLOOR TECHNOLOGY PLAN - UNIT E
T-12F SECOND FLOOR TECHNOLOGY PLAN - UNIT F

T-501 TECHNOLOGY


EVERGREEN AVENUE
CENTRAL AVENUE
WILLOWCREEK ROAD
NEW BUILDING
FF 639.39
NEW BUILDING
FF 638.39
TREE PROTECTION FENCING
TREE PROTECTION FENCING
CW
INNER CORE BUFFER ZONE – TO HAVE NO DISTURBANCE
MIDDLE BUFFER ZONE – LAWN AND PASSIVE REC. SHALL ALLOWED, IMPV. ALLOWED
OUTER BUFFER ZONE – ADDITIONAL SETBACK FOR ANY STRUCTURES
COVERED CONCRETE WALK
MECHANICALS AREA
FINISH FLOOR DOORWAY ELEV.=638.46
FINISH FLOOR DOORWAY ELEV.=637.39
FINISH FLOOR DOORWAY ELEV.=637.69
FINISH FLOOR DOORWAY ELEV.=637.69
FINISH FLOOR DOORWAY ELEV.=637.69
1-STORY BUILDING IN THIS AREA
BLEACHERS
PLAYGROUND
BASKETBALL COURT
BASKETBALL COURT
NEW CONCRETE SIDEWALK
NEW CONCRETE CURB
NEW CONCRETE CURB & GUTTER
NEW ASPHALT PAVEMENT
NEW ASPHALT DRIVE
NEW ASPHALT PARKING
NEW CONCRETE PAVEMENT
NEW CONCRETE DRIVE
NEW CONCRETE

SITE NAME

The area scheduled for construction is known as "THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL" (hereinafter referred to as the "Project")

PROJECT LOCATION

Project is located at LAT: 41.57514 LONG: -87.18476
:

OWNER'S INFORMATION

Name: PORTAGE TOWNSHIP SCHOOLS
Address: 6240 US HIGHWAY6, PORTAGE, IN 46368
Contact: MILE MAVROVIC
Title: DIRECTOR OF BUILDING AND GROUNDS
Telephone: 219-764-6299

OPERATOR'S INFORMATION'

NAME: PORTAGE TOWNSHIP SCHOOLS
ADDRESS: 6240 US HIGHWAY6, PORTAGE, IN 46368
CONTACT: MILE MAVROVIC
TITLE: DIRECTOR OF BUILDING AND GROUNDS
TELEPHONE: 219-764-6299

NOTICE OF INTENT

All parties defined as owners must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an owner is defined as any party meeting either of the following requirements:

1) The party has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

2) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A1 – INDEX OF LOCATION OF REQUIRED PLAN ELEMENTS

Refer to this sheet for the location of all required plan elements. Included for reference is the construction drawing sheet list for location of specific plan items

SHEET #	SHEET NAME
ES01	LAND TITLE SURVEY
C001	PROJECT INFORMATION SHEET
C100	STORMWATER POLLUTION PREVENTION PLAN
C110	STORMWATER POLLUTION PREVENTION NOTES
C200	SITE DEMOLITION PLAN
C300	SITE GRADING & DRAINAGE PLAN
C500	SITE IMPROVEMENT PLAN
C600	SITE LANDSCAPE PLAN

A2 – VICINITY MAP

Refer to Project Information Sheet – Sheet C001

A3 – PROJECT NARRATIVE

The project consists of the construction

A4 – LATITUDE AND LONGITUDE TO THE NEAREST (15) SECONDS

LAT: 41.57514 LONG: -87.18476

A5 – LEGAL DESCRIPTION OF THE PROJECT SITE

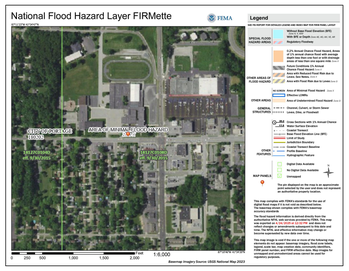
Section: 14
Township: 36 North
Range: 7 West 2nd Principal Meridian
CIVIL TOWNSHIP: Portage

A6 – 11X17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES

Refer to Land Title Survey plan – Sheet ES01

A7 – 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES

This project is located within zone X as indicated on Flood Insurance rate map 18057C0142H dated 10/18/2019.



A8 – LAND USE OF ALL ADJACENT PROPERTIES

North: COMMERCIAL
South: COMMERCIAL
East: COMMERCIAL
West RESIDENTIAL

A9 – IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL

Crisman Ditch is within an established TMDL.

A10 – IDENTIFICATION OF ALL RECEIVING WATERS

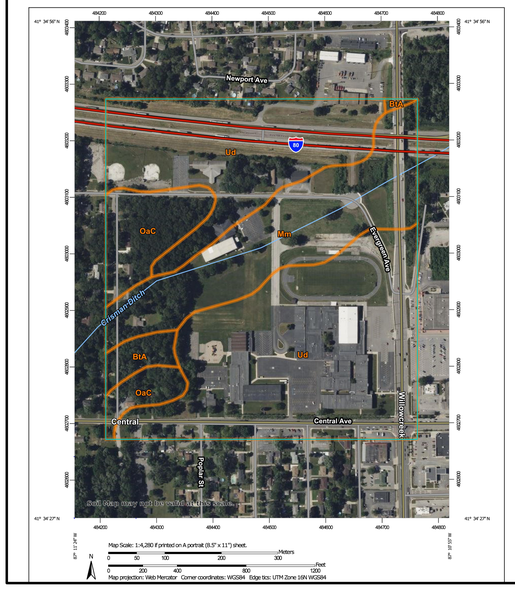
Crisman Ditch and Willow Creek are the ultimate receiving waters.

A11 – IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(d) LIST OF IMPAIRED WATERS AND POLLUTANT(S) FOR WHICH IT IS IMPAIRED

Crisman Ditch Discharge: Biological Integrity, Dissolved Oxygen, E.Coli
Willow Creek Discharge: Biological Integrity, E.Coli

A12 – A SOILS MAP OF THE PREDOMINATE SOIL TYPES

Brems sand, 0 to 3 percent slopes:Low Water Holding Capacity, Low fertility, Erosion Hazard, Acidic
Maumee loamy sand:Poorly Drained, Erosion Hazard
Oakville fine sand, lake moderated, 0 to 6 percent slope:Low Water Holding Capacity, Low fertility, Erosion Hazard, Acidic
Urban land–Brems complex:Low Water Holding Capacity, Low fertility, Erosion Hazard, Acidic; due to the Brems soil type but has low permeability and high runoff due to the Urban Land built on top of the soil.



A13 – IDENTIFICATION AND LOCATION OF ALL KNOW WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE

No Wetlands or lakes have been identified on or adjacent to the site. The Crisman Ditch legal drain flows through an existing drain pipe north of the property.

A14 – IDENTIFICATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORITIES THAT REQUIRED FOR CONSTRUCTION ACTIVITIES

Indiana Department of Environmental Management (IDEM) – Construction Stormwater General Permit (CSGP)

A15 – IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS

Approximate area of existing vegetative cover are as shown on the ES01 Plan and the Site Demolition Plan. Sheet ES01 and C200

A16 – EXISTING SITE TOPOGRAPHY AT INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS

Refer to Land Survey Sheet.

A17 – LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE

Run-off generally does not enter the site. See general areas where run-off enters the site on Site Grading & Drainage Plan. Refer to C300.

A18 – LOCATION(S) WHERE RUN-OFF DICHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTUBANCE

Majority of the run-off is captured in the existing storm infrastructure and discharges into the Crisman Ditch legal drain. There are areas of the property to the north and west where stormwater run-off leaves the property. Refer to Land Survey Sheet.

A19 – LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE

Refer to Land Survey Sheet.

A20 – EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLAND, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT

Refer to Land Survey Sheet.

A21 – LOCATION WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER SUCH AS ABANDONED WELLS, SINKHOLE, OR KARST FEATURES

Both dry detention basins will allow for some run-off to discharge into the ground.

A22 – SIZE OF THE PROJECT AREA EXPRESSED IN ACRES

29.05 Acres.

A23 – TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES

29.05 Acres.

A24 – PROPOSED FINAL TOPOGRAPHY

Refer to Grading and Drainage Plan, Sheet C300.

A25 – LOCATION AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the Stormwater Pollution Prevention Plan, Sheet C100.

A26 – LOCATION, SIZE AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEM SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS

Location and size of stormwater systems. Refer to Grading and Drainage Plan, Sheet C300.

A27 – LOCATION, OF SPECIFIC POINTS STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE.

Refer to Grading and Drainage Plan, Sheet C300.

A28 – LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES AND COMMON AREAS.

Refer to Site Improvement Plan, Sheet C500.

A29 – LOCATION, OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS

Excess soil shall be immediately stockpiled, surrounded with silt fence, and seeded where indicated in grading plan in accidence with all applicable laws. No topsoil stockpiles are anticipated for this project. All demolished materials and excavated soils shall be removed and legally disposed of off-site at a commercial landfill at the end of construction unless noted otherwise.

A30 – CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT.

Refer to Stormwater Pollution Prevention Plan, Sheet C100, C110, & C111.

A31 – LOCATION, OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THIS PROJECT INCLUDING BUT NO LIMITED TO STREAM CROSSINGS AND PUMPS AROUNDS

No in-stream activities are planned for this project.

B1 – DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES:

The following potential pollutant sources may be associated with construction activities on site.
1. Material storage areas
2. Construction waste material
3. Fuel storage areas and fueling areas
4. Exposed soils
5. Leaking Vehicles and equipment
6. Sanitary waste from temporary toilet falsities
7. Litter
8. Windblown dust
9. Soil tracking off site from construction equipment

The following materials may be staged or stored on site at various points during construction.

1. Structural backfill
2. Pavement base stone
3. HDPE, PVC, RCP, or Ductile iron pipe
4. Precast concrete, HDPE, or PVC drainage and sanitory structures
5. Riprap
6. Staging of existing decorative stone from existing rain gardens through coordination of the MS4

B2 – STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrance will be in place prior to any site construction demolition. Entrances are shown on the Erosion Control Plan. Refer to Erosion Control Plans for Dentils, installation and maintenance specifications.

B3 –SPECIFICATION FOR TEMPORARY AND PERMANENT STABILIZATION TEMPORARY SURFACE STABILIZATION SPECIFICATIONS.

Surface stabilization is required on any bare or thinly vegetated areas. Temporary surface stabilization must follow the Construction Stormwater General Permit 3.4 Stabilization Requirement – for temporary stabilization, stabilization must be initiation by the end of the seventh day for areas left idle. Stabilization activity must be completed within 14 days after initiation.

PERMANENT SURFACE STABILIZATION SPECIFICATIONS

1. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost, or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" if topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 square feet of lawn area and not less that 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
2. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 spare feet of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
3. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water–insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent.
4. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may inter with planting or maintenance operations. Sow seed using a spreader of seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
5. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
6. Rake seed lightly into top ¼ inch of soil, roll lightly, and water with a fine spray.
7. Install erosion control blankets as indicated on the Erosion Control Plan.
8. Protect seeded areas against erosion by spreading clean, seed–free straw mulch after completion of spreading operations. Spread uniformly to form a continuous blanket not less that 1–1/2 inches loose measurements over seeded areas.
9. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
10. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet,for timing of permanent seeding, grass seed specifications and mulching specifications.
11. In areas to get landscape beds apply mulch in lieu of seeding. Mulch is to be properly anchored or covered with blanket. Refer to C110 for installation, maintenance, and specification.

B4 – SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Some run-off is proposed across the parking lot which will transition into a shallow concentrated flow profile after 100ft of distance but still in a sheet flow across the parking lot. No swales are proposed. Silt fence is to be installed at edge of parking lot before entering the detention basin. Inlet protection measures will also be installed in all inlets in the parking lot. Refer to Stormwater Pollution Prevention Plan for locations and C111 for specifications, installation, and maintenance procedures.

B5 – SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydro seeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 4:1 (horizontal to vertical). Silt fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Stormwater Pollution Prevention Plan for locations and C111 for specifications, installation, and maintenance procedures.

B6 – RUNOFF CONTROL MEASURES

Runoff is contained onsite.

B7 – STORMWATER OUTLET PROTECTION MEASURES

Stone rip-rap has been added to outlet of storm pipe into of the detention basin to prevent scour erosion. No other outlets exist on the site. Refer to Stormwater Pollution Prevention Plan.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BtA	Brems sand, 0 to 3 percent slopes	2.2	2.6%
Mm	Maumee loamy sand	18.6	22.6%
OaC	Oakville fine sand, lake moderated, 0 to 6 percent slopes	8.3	10.0%
Ud	Urban land-Brems complex	53.4	64.8%
Totals for Area of Interest		**82.5**	**100.0%**

B8 – GRADE STABILIZATION STRUCTURE LOCATIONS

N/A

B9 – DEWATERING APPLICATIONS AND MANAGEMENT METHODS:

N/A

B10 – MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:

N/A

B11 – MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:
Refer to sheets C111 for specifications, installation, & maintenance procedures for proposed maintenance guides for stormwater quality measures including silt fence, inlet basket, concrete washout, rip-rap outlet protection, mulching, and construction entrance

Inspection Schedule/Reporting
All inspected areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify and incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on–site reports may be requested by inspections conducted by the local governing authority.

Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off–site sediment tracking daily. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off–site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and site inspection reports.

Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections
All controls should be inspected at least once every seven (7) calendar days unless noted otherwise and following any storm event of 0.5 inch or greater. The construction entrance must be inspected daily. The following is a list of inspection/maintenance practices that will be used for specific controls:
1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re–anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one–half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather–related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
4. Silt Fence: Removal of built–up sediment will occur when the sediment reaches one–third the height of the fence.
5. Stabilized Construction Entrance: Periodic re–grading and top dressing with additional stone.
6. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
7. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outlets and daily pickup of litter.

In the event that sediment escapes the construction site, off–site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to user of public street.

Modifications/Revisions to SWPPP
Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven (7) calendar days of the inspection. A control modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven (7) calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more control than were originally planned. Fore example, localized concentrations of surface runoff or unusually steep areas could required additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination
Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit a NOT within thirty (30) days after one or more of the following conditions have been met:
1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B12 – SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND–DISTURBING ACTIVITIES

Pre–construction Activity
1. The exact locations of all existing utilities within the project limits are to verified prior to construction.
2. Schedule pre–construction meeting with local stormwater authority 48 hours prior to start of construction.
3. Install protection fencing for existing trees to remain in place within the project limits

Construction Site Access
1. Install gravel construction entrance
2. Post the NOI and contact information at the construction entrance. NOI to remain posted for duration of the project.
3. Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas, and stabilize construction routes

Perimeter Controls
1. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed.

Initial Land Clearing and Grading Activities
1. Add protection measures to existing inlets.
2. Strip the topsoil.

Secondary Land Grading Activities
1. Begin site grading/construction of detention basins and remove unneeded excess earth.
2. Complete the cut and fills on the site. Final grade and seed the basin slopes. Stabilize slopes with erosion control blanket.
3. Install storm sewer system and install inlet protection immediately upon complete of the inlet and install rip–rap outlet protection prior to installing outlets.

Surface Stabilization
1. Apply temporary seeding or mulch and stabilize slopes in areas where rough grading has been completed.
2. Apply permanent seeding or mulch and stabilize slopes in areas where final grading has been completed.

Building Construction
1. Prior to building construction. Install stone surface for paved areas.
2. Building pads left dormant for more than 10 days, must be temporarily seeded.
3. Start building construction. Install staging area for building materials and stabilize.

Final Shaping/Landscaping
1. Utilize topsoil salvage in applicable areas and apply permanent seeding.
2. Apply permanent seeding around the perimeter of the site.
3. Complete utility installation, curbs, paving, and building construction.
4. Install landscaping plant material and stabilize all disturbed areas.
5. Remove all erosion and sediment control practices when areas have a uniform grass cover.

B13 – PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

The site is not currently subdivided, therefore the entire site is on this plan's Erosion Control Plan.

B14 – MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2–6.1:

Solid Waste Disposal
No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to construction activity, must be collected in containers or closed dumpster's. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste
Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on–site location of the facility.

Dust Control/Off–Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing street. If sediment escapes the construction site, off–site accumulations of sediment must be removed a frequency sufficient to minimize off–site impacts.

B15 – MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

Sanitary/Septic
Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on–site location of said facilities.

Water Source
Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas
Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash–down (except wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage
Chemicals, paint, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resalable, store the products in a clearly labeled, waterproof container). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on–site location of the storage areas.

Material Handling and Spill Prevention
Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1–800–424–8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spill to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout
All concrete truck waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes. See location of washout on SWPPP.

Spill Response Plan
Minor – Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc. can be controlled by the first responder at the discovery of the spill.
•Contain spill to prevent material from entering storm or groundwater. Do not flush with water or bury.
•Use absorbent material to clean–up spill material and any subsequently contaminated soil and dispose of properly.
Semi–Significant Spills – Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
•Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
•Use absorbent material to clean–up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Disposal of contaminated soils or absorbents properly.
•Contact 911 if the spill could be a safety issue
•Contact supervisors and designated site inspectors, including MS4 personnel, immediately.
•Contaminated solids are to be removed to an approved landfill.
Major or Hazardous Spills – More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
•Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater System.
•Immediately contact the local Fire Department at 911 to report any hazardous material spill.
•Contact supervisors and designated site inspectors immediately. Governing authorities, including MS4 personnel, responsible for stormwater facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
•As soon as possible but within 2 hours of discovery, contact the appropriate agency responsible for spill management. The following information should be noted for future reports to the agency:
•• Name, address, and phone number of person making the spill report
•• The location of the spill
•• The time of the spill
•• Identification of the spilled substance
•• Approximate quantity of the substance that has been spilled or may be further spilled
•• The duration and source of the spill
•• Name and location of the damaged waters
•• Name of spill response organization
•• What measures were taken in the spill response
•• Other information that may be significant

Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is give by the appropriate agency.

C1 – DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

The proposed land use is for a XXXXXX. The pollutants and sources of each pollutant normally expected from this type of land use are:

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, the polyurethane associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, dust, rubber, glass, metal and plastic fragments, grit, road de–icing materials.

Pollutant Source: Building
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash Dumpster
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Parking Lot
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing, and patching), pavement de–icing materials, paint fragments from parking stall striping, concrete fragments, wind–blown litter from off–site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and Landscape Areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 – DESCRIPTION OF PROPOSED POST–CONSTRUCTION STORMWATER QUALITY MEASURES

Off–Site Water Quality Measure
The primary BMPs for the project are four hydrodynamic separators, two Contech Cascade CS–8 and two CS–10, in addition to the dry detention basins. The detained run–off leaving the project is connected to the Crisman Ditch legal drain. Maintenance of this unit is to be handled by the owner.

Permanent Vegetation
Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 3:1 slopes. Proposed landscape trees and shrubs will also be added. These bio areas will act as a natural filter strip to help improve stormwater quality. The vegetated areas will slow the velocities of stormwater runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

Good Housekeeping Measures
Good housekeeping measures such as regular street or pavement sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C3 –PLAN DETAILS FOR EACH STORMWATER MEASURES:

BMP: Sheets 300 and 310
Vegetation– Details: Pg 25 of NCS

C4 – SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

The Contractor shall implement permanent erosion control measures as soon as it is practical. Permanent seeding or sodding shall occur when the disturbed area is at final grade. Once the project has been completed and before final approval of the project, the Contractor shall inspect all previously installed measures for compliance with the standard specifications and construction The Contractor shall remove any built–up sediment deposits and repair any measures that have failed, including reseeding or sodding any areas where surface runoff has removed the previously installed measure. All disturbed ground shall be temporarily seeded if it is left undisturbed for more than seven (7) calendar days, and any additional seeding or sodding shall be completed when the project is substantially complete.

Seed/sod shall be used in all disturbed areas for permanent storm water quality measures and placed in accordance with ISS 621. Vegetation works to reduce sediment migration by holding soil in place, as well as filtering sheet flow runoff as it moves over the vegetation. Since roadway pollutants often bind to soil particles, this keeps much of the roadway pollution on–site. Catch basins have been included within the proposed storm sewer system to collect sand and gravel from the roadway. Temporary inlet protection will prevent sediment from entering the storm sewer system during construction allowing it to operate as designed throughout construction.

Four BMPs (two Contech Cascade CS–8 and two CS–10) will be installed on the proposed storm water system. Utilizing the BMP allows the capture of sediment and other pollutants before it leaves the project site.

C5 – DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST–CONSTRUCTION STORMWATER QUALITY MEASURES

Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described in the Operation & Maintenance Manual which is submitted under separate cover. A summary of basic maintenance is below:

On–Site Water Quality BMP
Maintenance for the unit will be handled by the owner, Regular maintenance procedures are as follows: XXXXX

Vegetation
Inspect grass and plants annually. Replace plantings as needed. Reseed as necessary to maintain a consistent ground cover.

C6 – ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST–CONSTRUCTION STORMWATER MEASURES:

owner

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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204

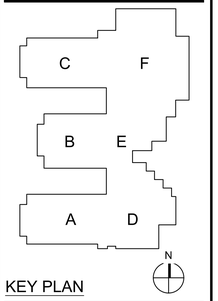
CIVIL ENGINEER

LANDSCAPE ARCHITECT

JPS CONSULTING ENGINEERS, LLC

317-617-4270 WWW.JPSCE.COM

11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

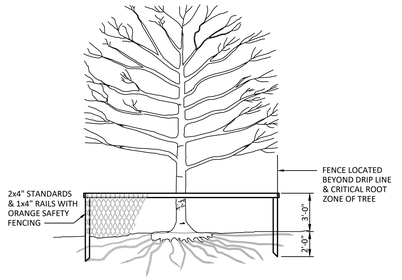
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM 3	11-18-2025

STORMWATER POLLUTION PREVENTION NOTES

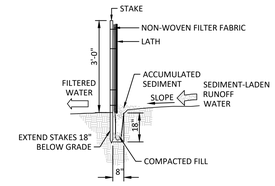
C110

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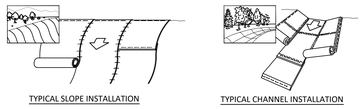
NOTES:
1. BEFORE STARTING TREE PROTECTION, MEET WITH REPRESENTATIVES OF THE OWNER, AND ARCHITECT. REVIEW TREE PROTECTION PROCEDURES AND RESPONSIBILITIES. NOTIFY PARTICIPANTS AT LEAST 1 WEEK BEFORE CONVENING CONFERENCE.
2. INSTALL TEMPORARY FENCING LOCATED AS INDICATED OR OUTSIDE THE DRIP LINE & CRITICAL ROOT ZONE OF TREES TO PROTECT REMAINING VEGETATION FROM CONSTRUCTION DAMAGE.
3. PROTECT TREE ROOT SYSTEM FROM DAMAGE DUE TO NOXIOUS MATERIALS CAUSED BY RUNOFF OR SPILLAGE WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIALS. PROTECT ROOT SYSTEMS FROM FLOODING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS.
4. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL WITHIN THE DRIP LINE & CRITICAL ROOT ZONE OF REMAINING TREES. DO NOT PERMIT VEHICLES OR FOOT TRAFFIC WITHIN THE DRIP LINE & CRITICAL ROOT ZONE. PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.
5. DO NOT EXCAVATE OR TRENCH WITH-IN DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.

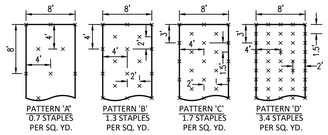
8 TREE PROTECTION DETAIL
NO SCALE



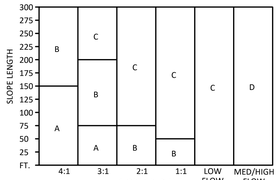
NOTES:
1. INSTALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL PRACTICES PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
2. REFER TO SPECIFICATIONS FOR SILT FENCE INFORMATION. INSTALL AND MAINTAIN PER MANUFACTURER'S RECOMMENDATIONS.

4 SILT FENCE DETAIL
NO SCALE





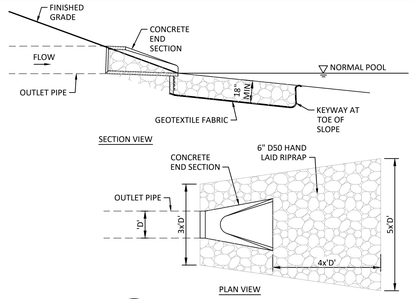
TYPICAL STAPLE PATTERNS FOR 96" WIDE ROLLS
SHOWN FOR REFERENCE ONLY



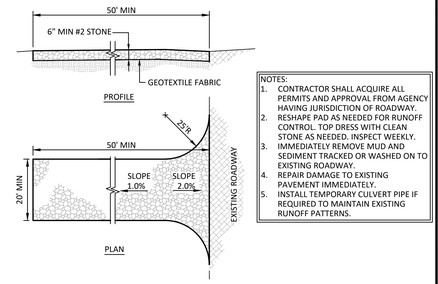
STAPLE PATTERN GUIDE

NOTES:
1. INSTALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL PRACTICES IMMEDIATELY AFTER LAND DISTURBING ACTIVITIES.
2. GRADE SITE PER GRADING PLANS. PREPARE AND PLACE TOPSOIL PER SPECIFICATIONS.
3. REFER TO EROSION CONTROL BLANKET MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION (ANCHORAGE, STAPLE PATTERN/SPACING, SPLICING, ETC.).

7 EROSION CONTROL BLANKET DETAIL
NO SCALE

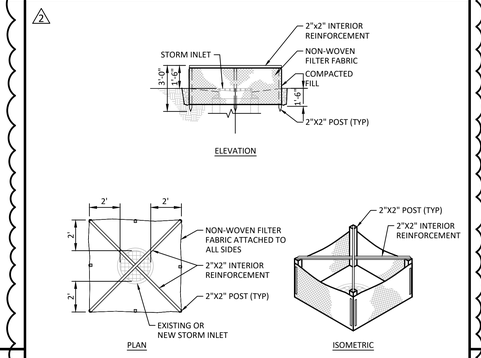


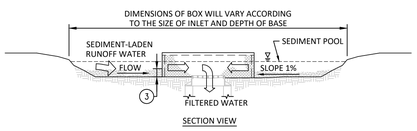
5 RIPRAP APRON DETAIL
NO SCALE



NOTES:
1. CONTRACTOR SHALL ACQUIRE ALL PERMITS AND APPROVAL FROM AGENCY HAVING JURISDICTION OF ROADWAY.
2. RESHAPE PAD AS NEEDED FOR RUNOFF CONTROL. TOP DRESS WITH CLEAN STONE AS NEEDED. INSPECT WEEKLY.
3. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ON TO EXISTING ROADWAY.
4. REPAIR DAMAGE TO EXISTING PAVEMENT IMMEDIATELY.
5. INSTALL TEMPORARY CULVERT PIPE IF REQUIRED TO MAINTAIN EXISTING RUNOFF PATTERNS.

3 CONSTRUCTION ENTRANCE DETAIL
NO SCALE





NOTES:
1. INSTALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER CONSTRUCTION OF NEW INLET STRUCTURE.
2. REMOVE SEDIMENT DEPOSITS WHEN THEY REACH 1/3 THE FENCE HEIGHT.

9 SILT FENCE INLET PROTECTION DETAIL
NO SCALE

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
PERMANENT SEEDING *		A						A				
DORMANT SEEDING **		A									A	
TEMPORARY SEEDING		B D						C				

FOR ALL SEEDING APPLICATIONS, ADD STRAW MULCH AT 2 TONS/ ACRE.

A = REFER TO SPECIFICATIONS FOR PERMANENT SEEDING MIXTURE. FERTILIZE AS RECOMMENDED BY SOIL TEST, IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

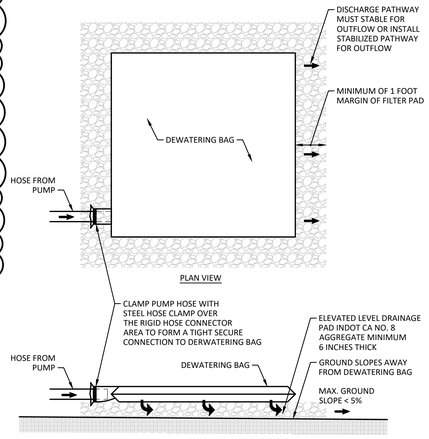
B = SPRING OATS 3 BUSHELS / ACRE (2.3lbs. / 1000 Sq ft) FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400- 600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

C = WHEAT OR RYE 2 BUSHELS/ACRE (2.8lbs. / 1000 Sq. ft) FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400- 600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

D = ANNUAL RYEGRASS 40 LBS./ACRE (1 LB./1000 SQ. FT.)

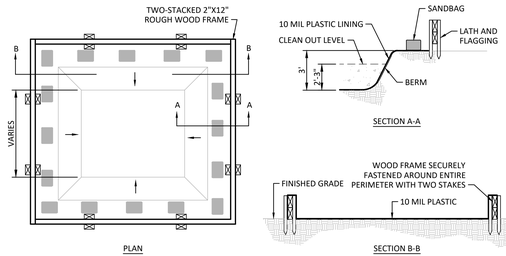
* IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND SEPTEMBER AND AS REQUIRED BY WEATHER CONDITIONS.

** INCREASE SEEDING APPLICATION BY 50%



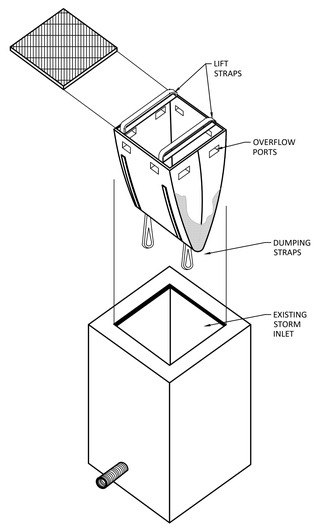
NOTES:
1. OPTIONAL: ELEVATED DRAINAGE PAD MATERIALS: INDOT CA NO. 8 AGGREGATE, WOOD MULCH STRAW BALES, OR WOOD PALLETS (ALL FREE OF SHARP OBJECTS).
2. THE ILLUSTRATIONS IN THIS EXHIBIT ARE NOT INTENDED TO SERVE AS CONSTRUCTION DRAWINGS. THE DIAGRAMS/DRAWINGS ARE TO BE USED TO COMMUNICATED THE CONCEPTS FOR IMPLEMENTATION OF THIS CONTROL MEASURE.

6 DEWATERING BAG
NO SCALE



2 CONCRETE WASHOUT AREA DETAIL
NO SCALE

NOTES:
1. PORTLAND CEMENT CONCRETE WASTE SHALL NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED AT LEAST 50 FEET FROM OPEN DRAINAGE FACILITIES AND WATERCOURSES. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
3. PERFORM WASHOUT OF MIX TRUCK CHUTES IN DESIGNATED AREAS ONLY.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE RESTORED TO ORIGINAL GROUND WITH BERM AND SIMILAR SOIL MATERIALS.
5. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES. MAINTAINING TEMPORARY WASHOUT FACILITIES SHALL INCLUDE REMOVING AND LEGALLY DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION.
6. EXISTING FACILITIES MUST BE CLEANED, OR NEW FACILITIES CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
7. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY FOR DAMAGE (TEARS IN THE LINER, MISSING SANDBAGS, ETC.). DAMAGED FACILITIES SHALL BE REPAIRED BEFORE FURTHER USE.
8. CONTRACTOR TO INSTALL TEMPORARY SIGNAGE OF SUFFICIENT MATERIALS TO INDICATE THE LOCATION OF THE WASHOUT AREA TO MIX TRUCK DRIVERS.



REQUIREMENTS
1. THE INLET PROTECTION UNIT SHALL BE A SEWN GEOTEXTILE FABRIC UNIT.
2. THE UNIT SHALL HAVE LIFTING STRAPS TO ALLOW REMOVAL OF THE UNIT AND MANUAL INSPECTION OF THE STORM WATER SYSTEM.

INSTALLATION
1. REMOVE THE GRATE FROM THE INLET AND STAND ON END.
2. MOVE THE TOP BY LIFTING STRAP OUT OF THE WAY AND PLACE THE GRATE INTO THE UNIT SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
3. INSERT THE GRATE INTO THE INLET UTILIZING THE LIFTING DEVICES.

MAINTENANCE
REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM AROUND THE UNIT FOLLOWING EACH STORM EVENT. LOOK INTO THE UNIT FOLLOWING EACH STORM EVENT AND AT REGULAR INTERVALS. THE UNIT MUST BE EMPTIED IF IT IS MORE THAN 1/3 FULL OF ACCUMULATED SEDIMENT. EMPTY THE UNIT BY USING THE LIFTING STRAPS TO LIFT IT OUT OF THE INLET AND REMOVE THE GRATE. TRANSPORT THE UNIT TO AN APPROPRIATE LOCATION TO REMOVE CONTENTS. UTILIZING THE DUMPING STRAPS ON THE OUTSIDE AT THE BOTTOM OF THE UNIT, TURN THE UNIT UPSIDE DOWN, EMPTYING THE CONTENTS. REINSTALL THE UNIT.

NOTES:
1. CURB INLET PROTECTION SHALL BE DANDY SACK OR APPROVED EQUAL

1 INLET PROTECTION DETAIL
NO SCALE

THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

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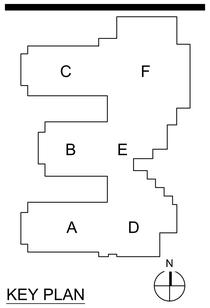
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CONSTRUCTION DOCUMENTS

DAVID ANDREW JOHNSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

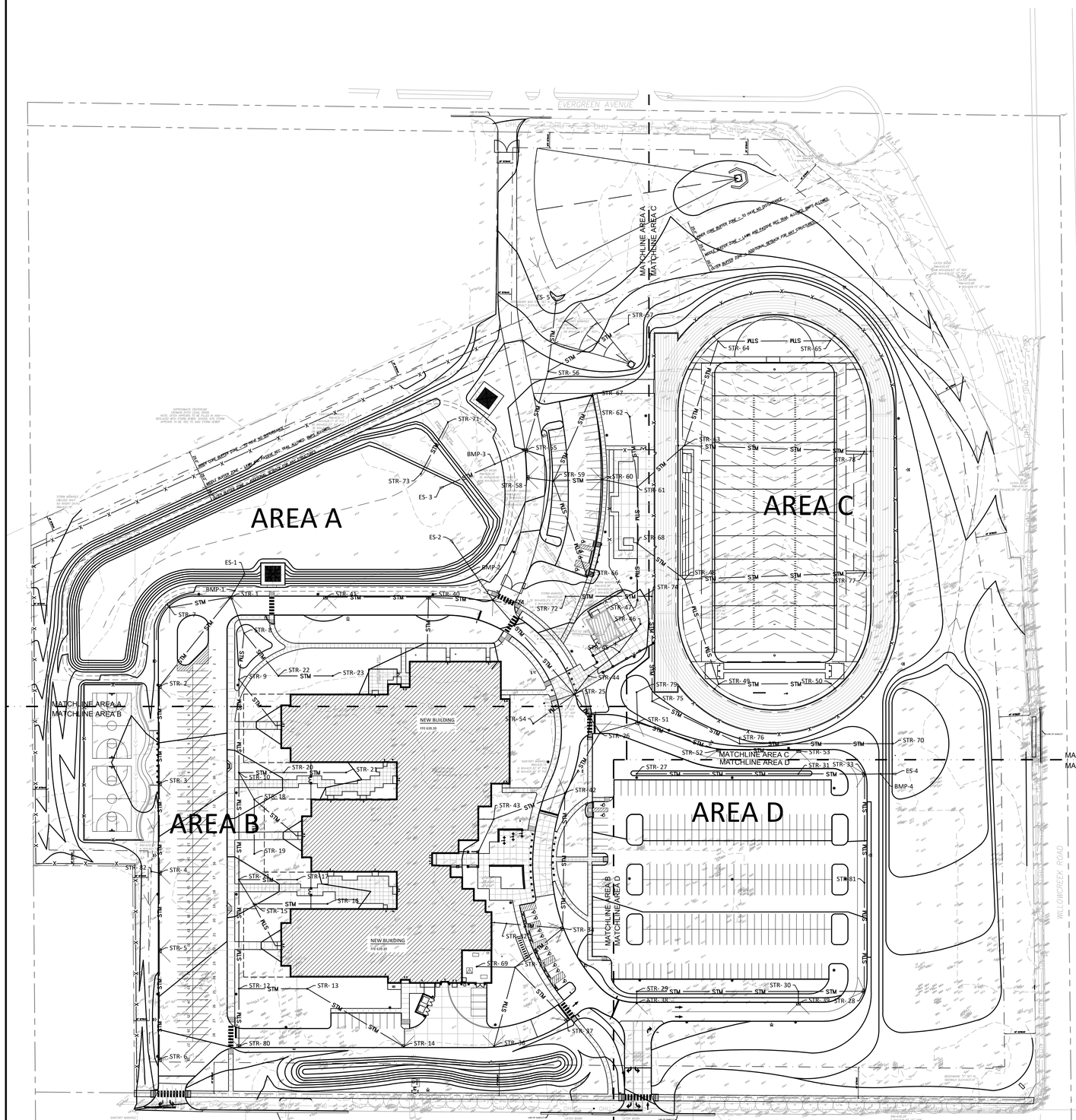
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM 3	11-18-2025

STORMWATER POLLUTION PREVENTION DETAILS

C111

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STRUCTURE SCHEDULE

MARK	INVERT		CASTING		STRUCTURE	
	INLET	OUTLET	ELEVATION	TYPE	TYPE	DETAIL
STR-1	W 631.18 SW 631.18 SE 631.18	631.18	637.50	R-3286-8V	STORM MANHOLE	C410
STR-2	631.55	631.55	637.55	R-3287-10V	STORM MANHOLE	C410
STR-3	631.86	631.86	636.00	R-3287-10V	STORM MANHOLE	C410
STR-4	S 632.60 W 633.16	632.16	635.75	R-3287-10V	STORM MANHOLE	C410
STR-5	633.35	633.10	637.30	R-3287-10V	STORM MANHOLE	C410
STR-6	-	634.06	637.70	R-3287-10V	24"x36" INLET	C410
STR-7	-	631.58	637.00	R-3286-8V	STORM MANHOLE	C410
STR-8	SE 632.43 S 631.43	631.43	637.50	R-2510-A	STORM MANHOLE	C410
STR-9	SE 632.73 S 631.73	631.73	638.40	R-1772	STORM MANHOLE	C410
STR-10	E 632.30 SE 632.30 S 632.30	632.30	637.30	R-2510-A	STORM MANHOLE	C410
STR-11	E 632.49 SE 632.99 S 632.99	632.99	637.30	R-2510-A	STORM MANHOLE	C410
STR-12	634.19	633.69	638.40	R-2510-A	STORM MANHOLE	C410
STR-13	634.13	634.13	638.20	R-2510-A	STORM MANHOLE	C410
STR-14	-	634.86	638.00	R-3287-10V	24"x36" INLET	C410
STR-15	E 633.17 SE 633.67	633.17	638.50	R-2510-A	STORM MANHOLE	C410
STR-16	-	633.64	638.65	R-2510-A	STORM MANHOLE	C410
STR-17	-	633.86	638.65	R-2510-A	STORM MANHOLE	C410
STR-18	SE 633.50 S 633.50	633.50	638.00	R-2510-A	STORM MANHOLE	C410
STR-19	-	633.85	638.00	R-2510-A	STORM MANHOLE	C410
STR-20	633.59	633.59	638.60	R-2510-A	STORM MANHOLE	C410
STR-21	-	633.99	638.80	R-2510-A	STORM MANHOLE	C410
STR-22	632.78	632.78	638.60	R-2510-A	STORM MANHOLE	C410
STR-23	-	633.13	638.60	R-2510-A	STORM MANHOLE	C410
STR-24	SE 631.00 W 631.75	631.00	636.70	R-3286-8V	STORM MANHOLE	C410
STR-25	NE 632.55 SE 631.80 SW 632.80	631.80	638.25	R-3286-8V	STORM MANHOLE	C410
STR-26	E 632.60 SW 632.10	632.10	637.50	R-3286-8V	STORM MANHOLE	C410
STR-27	-	633.96	636.40	R-4215-C	30"x30" INLET	C310
STR-28	633.06	633.06	637.10	R-3286-8V	STORM MANHOLE	C410
STR-29	634.64	633.64	636.65	R-4215-C	30"x30" INLET	C310
STR-30	W 633.23 S 634.23	633.23	636.65	R-4215-C	30"x30" INLET	C310
STR-31	632.92	632.92	637.50	R-4215-C	30"x30" INLET	C310
STR-32	635.00	634.77	638.00	R-2510-A	STORM MANHOLE	C410
STR-33	S 632.50 W 632.50	632.50	637.10	R-3286-8V	STORM MANHOLE	C410
STR-34	W 634.40 SW 634.07	633.42	638.00	R-3405	STORM MANHOLE	C410
STR-35	SE 634.47 S 634.47 W 634.47	634.47	638.80	R-2510-A	STORM MANHOLE	C410
STR-36	-	635.00	638.00	R-3287-10V	24"x36" INLET	C410
STR-37	-	634.95	638.00	R-3286-8V	24"x24" INLET	C310
STR-38	-	634.74	638.00	R-3286-8V	24"x24" INLET	C310
STR-39	-	634.33	638.00	R-3286-8V	24"x24" INLET	C310
STR-40	S 632.67 W 632.81	632.17	637.00	R-3286-8V	STORM MANHOLE	C410
STR-41	-	633.47	637.00	R-3286-8V	24"x24" INLET	C410
STR-42	632.55	632.55	638.00	R-3286-8V	STORM MANHOLE	C410
STR-43	SW 634.12 W 633.79	633.29	638.50	R-2510-A	STORM MANHOLE	C410
STR-44	632.70	632.70	638.15	R-2569	STORM MANHOLE	C410
STR-45	632.95	632.95	638.20	R-2569	STORM MANHOLE	C410
STR-46	-	633.18	637.90	R-2569	STORM MANHOLE	C410
STR-47	-	632.84	637.65	R-2569	STORM MANHOLE	C410
STR-48	E 632.63 S 632.63	632.63	637.05	R-1772	STORM MANHOLE	C410
STR-49	633.27	633.27	637.05	R-1772	STORM MANHOLE	C410
STR-50	-	633.77	637.05	R-1772	STORM MANHOLE	C410
STR-51	632.85	632.85	637.50	R-3286-8V	STORM MANHOLE	C410
STR-52	633.40	633.40	637.50	R-3286-8V	STORM MANHOLE	C410
STR-53	-	633.92	638.00	R-3286-8V	STORM MANHOLE	C410
STR-54	-	633.13	638.50	R-2510-A	STORM MANHOLE	C410
STR-55	N 631.10 S 631.10	631.10	636.00	R-3286-8V	STORM MANHOLE	C410
STR-56	631.63	631.63	635.50	R-2510-A	STORM MANHOLE	C410
STR-57	-	632.23	634.50	R-2510-A	STORM MANHOLE	C410
STR-58	631.28	631.28	635.50	R-3286-8V	STORM MANHOLE	C410
STR-59	N 632.21 E 631.46 S 631.96	631.46	637.40	R-1772	STORM MANHOLE	C410
STR-60	631.78	631.78	636.50	R-3405	STORM MANHOLE	C410
STR-61	N 633.11 E 632.00 S 632.00	632.00	637.00	R-2569	STORM MANHOLE	C410
STR-62	-	633.56	637.00	R-2510-A	STORM MANHOLE	C410
STR-63	N 632.41 E 632.41	632.41	637.05	R-1772	STORM MANHOLE	C410
STR-64	633.04	633.04	637.05	R-1772	STORM MANHOLE	C410
STR-65	-	633.69	637.05	R-1772	STORM MANHOLE	C410
STR-66	-	632.61	636.40	R-3286-8V	24"x24" INLET	C310
STR-67	-	632.81	636.40	R-3286-8V	24"x24" INLET	C310
STR-68	SE 632.25 S 632.36	632.25	637.00	R-2569	STORM MANHOLE	C410
STR-69	-	634.72	638.50	R-3405	24"x24" INLET	C310
STR-70	632.30	632.25	636.00	R-2510-A	CONTROL OUTLET	C310
STR-71	629.35	EXIST. 629.35	634.60	R-1772	STORM MANHOLE OVER EXISTING	C410
STR-72	628.75	EXIST. 630.00	637.50	R-1772	STORM MANHOLE OVER EXISTING	C410
STR-73	630.00	629.25	634.50	R-2510-A	CONTROL OUTLET	C310
STR-74	630.45	630.45	637.50	R-1772	STORM MANHOLE	C410
STR-75	630.99	630.99	636.80	R-1772	STORM MANHOLE	C410
STR-76	631.49	631.49	636.90	R-1772	STORM MANHOLE	C410
STR-77	-	633.66	637.05	R-1772	STORM MANHOLE	C410
STR-78	-	633.44	637.05	R-1772	STORM MANHOLE	C410
STR-79	-	633.05	636.50	R-2510-A	STORM MANHOLE	C410
STR-80	-	634.57	637.90	R-3286-8V	24"x24" INLET	C310
STR-81	632.78	632.78	638.40	R-1772	STORM MANHOLE	C410
STR-82	-	633.26	636.00	R-2510-A	STORM MANHOLE	C410
ES-1	631.00	631.00	-	-	CONCRETE END SECTION	C410
ES-2	630.50	630.50	-	-	CONCRETE END SECTION	C410
ES-3	630.50	630.50	-	-	CONCRETE END SECTION	C410
ES-4	632.30	632.30	-	-	CONCRETE END SECTION	C410
ES-5	631.86	631.86	-	-	CONCRETE END SECTION	C410
BMP-1	631.13	631.13	637.50	-	CONTECH CASCADE CS-10	C310
BMP-2	630.77	630.77	636.30	-	CONTECH CASCADE CS-10	C310
BMP-3	630.88	630.88	635.80	-	CONTECH CASCADE CS-8	C310
BMP-4	632.40	632.40	636.50	-	CONTECH CASCADE CS-8	C310

GENERAL NOTES

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8. DRAIN LINE FROM ACO TRENCH DRAIN CATCHMENT BASKETS TO FIT INTO NEAREST STORM STRUCTURE.

PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

0 60 120 FEET
SCALE:1"=60'

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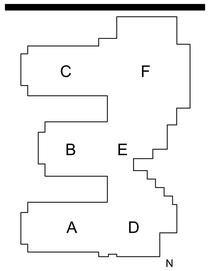
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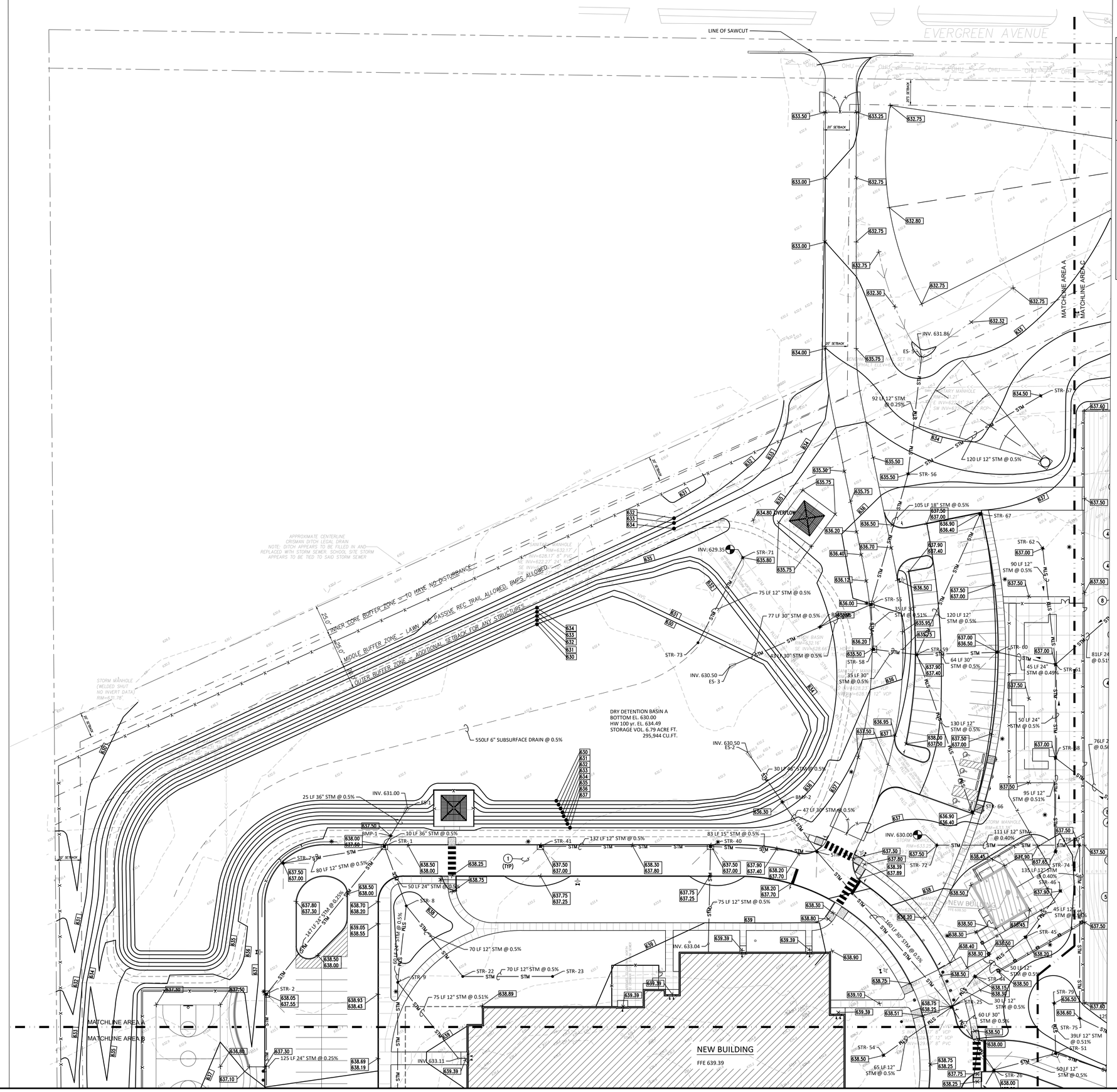
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1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

OVERALL SITE GRADING & DRAINAGE PLAN

2 C300

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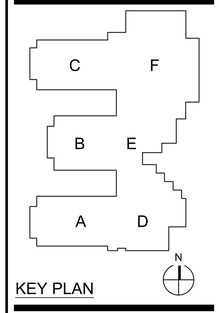
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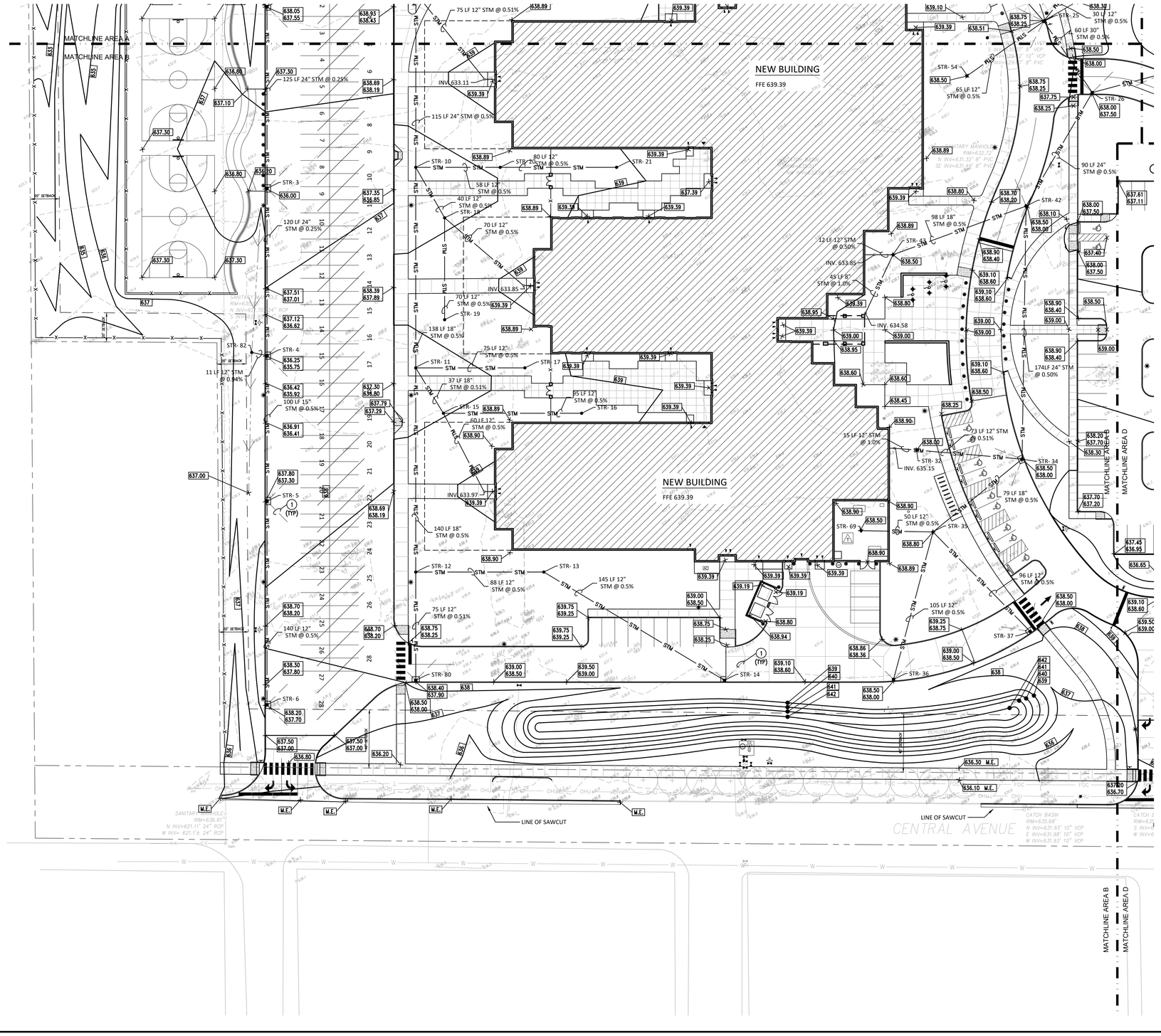
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2	ADDENDUM 3	11-18-2025

SITE GRADING & DRAINAGE PLAN AREA-A

2 C301

0 30 60 FEET
SCALE:1"=30'

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0 30 60 FEET
SCALE:1"=30'

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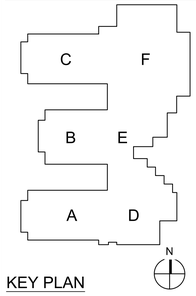
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ANDREW D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

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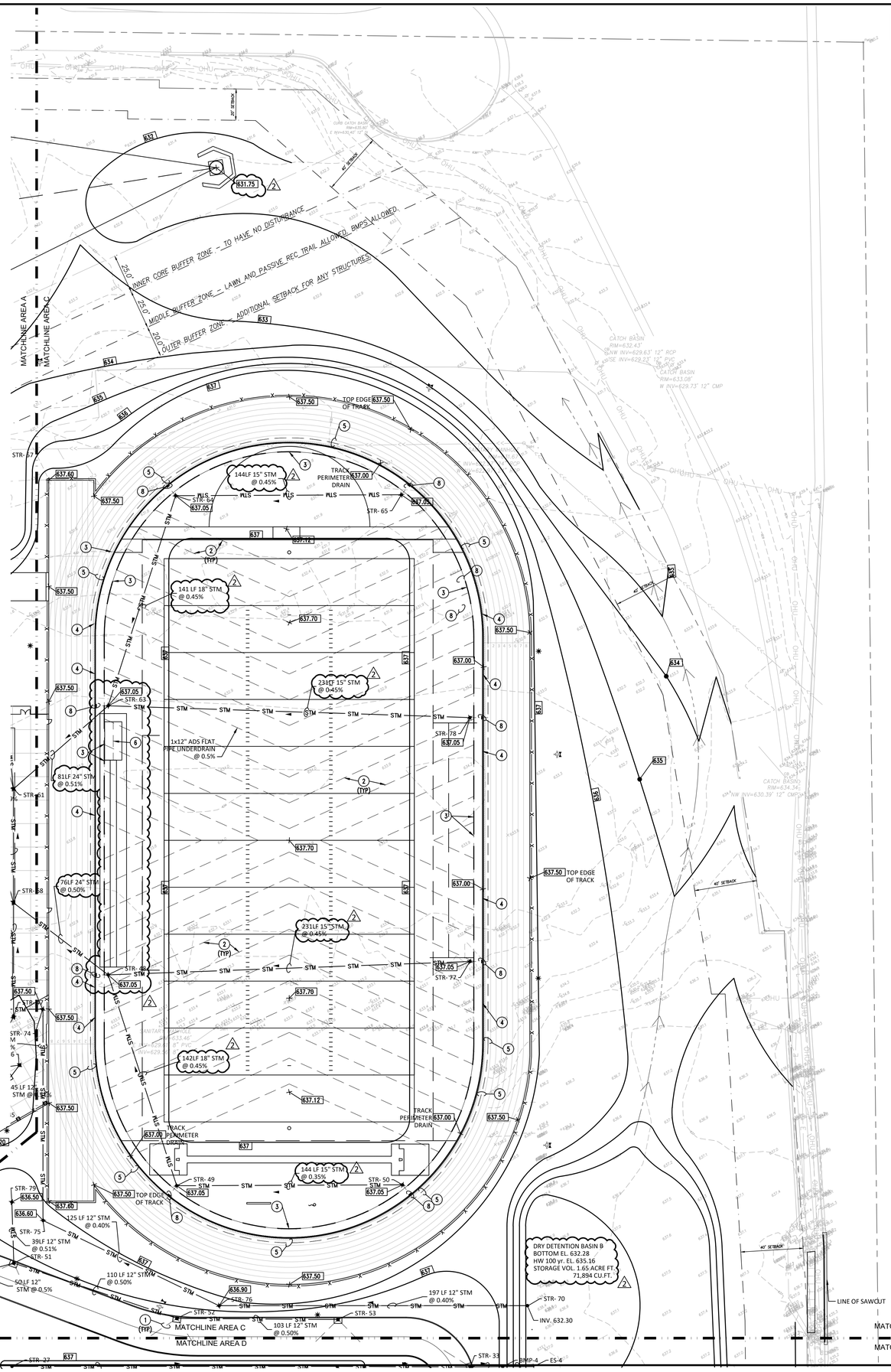
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REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE GRADING & DRAINAGE PLAN AREA-B

C302

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSCSE1 Portage Township Schools - Willowcreek Middle School\Drawings\C300.dwg November 17, 2025 - 4:51 PM Zwilkinson



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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

GENERAL NOTES

A. REFER TO UTILITY DETAILS FOR NOTE REFERENCES. FOR SPECIALTY TRACK DRAINAGE-REFER TO IMPROVEMENT DETAILS.
B. ALL CASTINGS SHALL HAVE THE WORDS "NO DUMPING DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF 1" HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
C. CASTINGS TO BE NEENAH TYPE OR APPROVED EQUAL.
D. CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

○ PLAN NOTES

1. 6" INLET SUBSURFACE DRAIN.
2. 1"X12" ADS FLAT PIPE UNDERDRAIN. SLOPE AT .5%. LAY ON TOP OF GEOTEXTILE FILTER FABRIC PLACES ON SUBGRADE. LAY END OVER PERIMETER DRAIN.
3. 12" DIA. ATHLETIC FIELD DRAIN PERIMETER DRAIN. TIE INTO NEAREST STORM STRUCTURE. HIGH POINT RUNS EAST/ WEST AT CENTER FIELD.
4. ACO SPORT DRAIN SYSTEM 4000 TRENCH DRAIN WITH ADA PLASTIC DRAIN GRATE AND QUICK LOCK LOCKING BAR IN COLOR AS SELECTED BY ARCHITECT.
5. 4" DIA. UNDERDRAIN BELOW LANE 1.
6. 4" DIA. LONG JUMP UNDERDRAIN. COORDINATE INSTALLATION WITH LONG JUMP CONSTRUCTION AND TIE INTO NEAREST STORM STRUCTURE.
7. 6" MINIMUM TOPSOIL IN LAWN AND PLANTING AREAS AS NOTED. BACKFILL WITH TOPSOIL FLUSH WITH ANY ADJACENT WALKS OR PAVED AREAS.
8. DRAIN LINE FROM ACO TRENCH DRAIN CATCHMENT BASKETS TO FIT INTO NEAREST STORM STRUCTURE.

ARCHITECT

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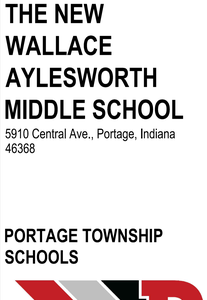
CIVIL ENGINEER

LANDSCAPE ARCHITECT

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317-617-4270 WWW.JPSCE.COM

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KEY PLAN

CONSTRUCTION DOCUMENTS

JEREMY D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE GRADING & DRAINAGE PLAN AREA-C

C303

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C300.dwg November 17, 2025 - 4:51 PM Zwilkinson

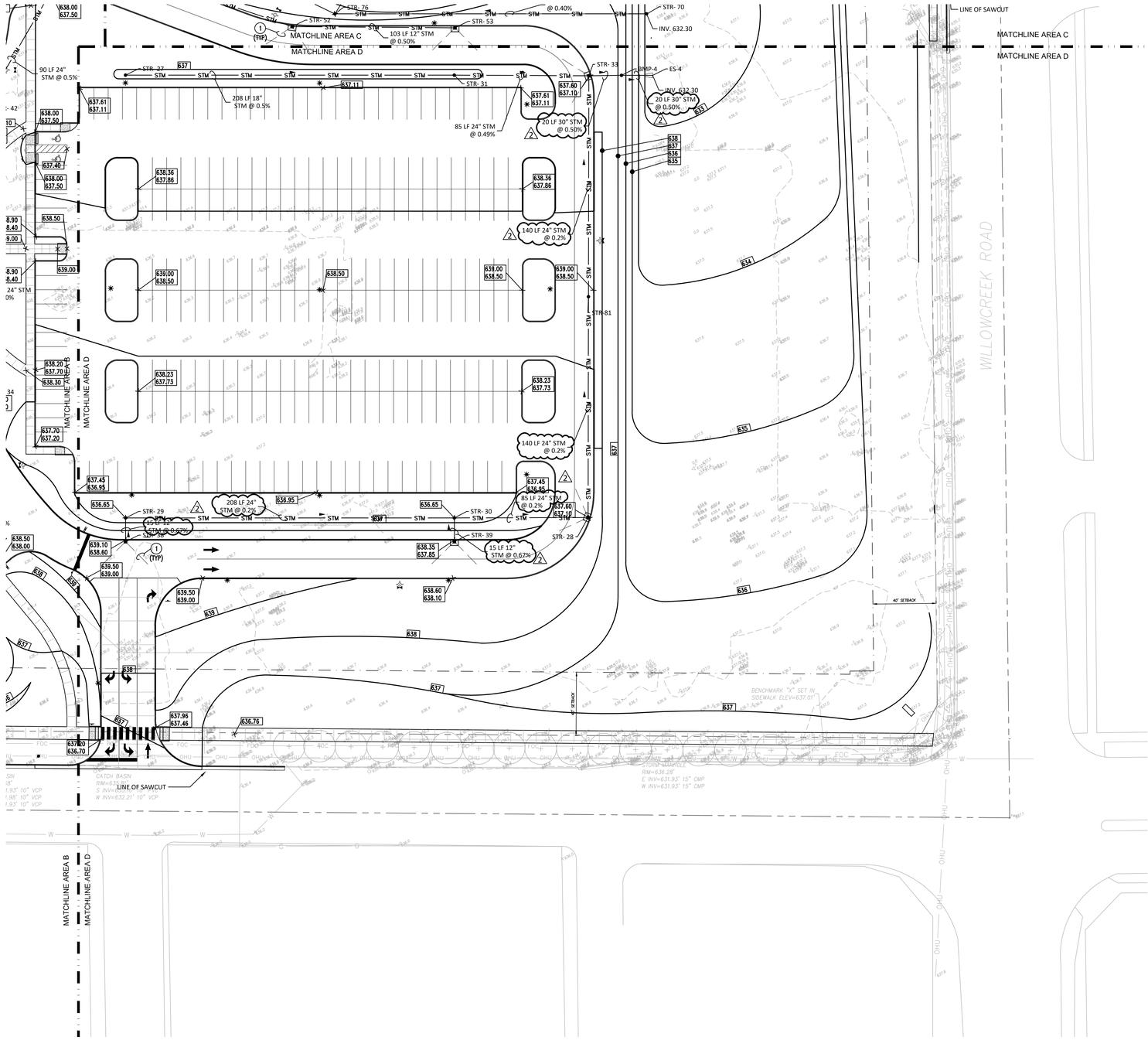
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7. 6" MINIMUM TOPSOIL IN LAWN AND PLANTING AREAS AS NOTED. BACKFILL WITH TOPSOIL FLUSH WITH ANY ADJACENT WALKS OR PAVED AREAS.
8. DRAIN LINE FROM ACO TRENCH DRAIN CATCHMENT BASKETS TO FIT INTO NEAREST STORM STRUCTURE.



0 30 60 FEET
SCALE:1"=30'

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PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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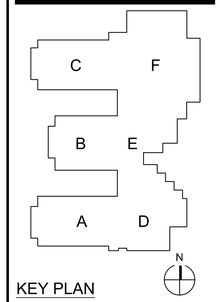
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LANDSCAPE ARCHITECT

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11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. JOHNSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

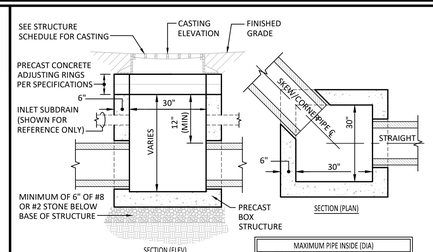
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE GRADING & DRAINAGE PLAN AREA-D

C304

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSCSE81 Portage Township Schools - Willowcreek Middle School\Drawings\C300.dwg November 17, 2025 - 4:51 PM Zwilkinson

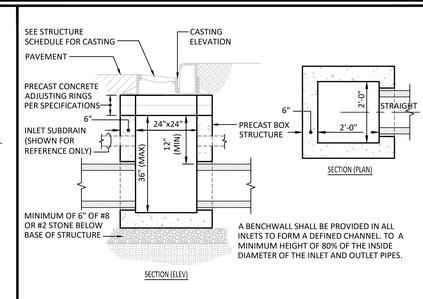


A BENCHWALL SHALL BE PROVIDED IN ALL INLETS TO FORM A DEFINED CHANNEL. TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES.

MAXIMUM PIPE INSIDE (DIA)	
STRAIGHT	*SKEW/CORNER
12"-24"	12"-15"

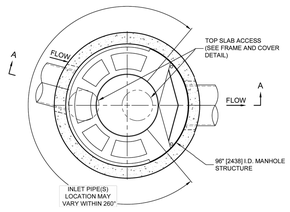
*MAXIMUM OF 2 SKEW CONNECTIONS PER STRUCTURE

6 INLET BOX DETAIL (30"x30")
NO SCALE

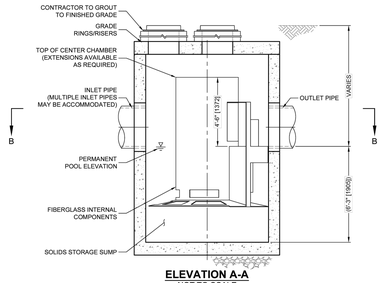


A BENCHWALL SHALL BE PROVIDED IN ALL INLETS TO FORM A DEFINED CHANNEL. TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES.

5 INLET BOX DETAIL (24"x24")
NO SCALE



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-8 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

CONTECH

FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (cfs [L/s])	
PEAK FLOW RATE (cfs [L/s])	
RETURN PERIOD OF PEAK FLOW (yrs)	
RIM ELEVATION	

PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
5. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
7. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

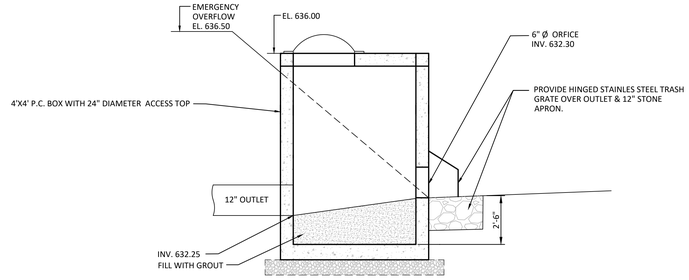
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

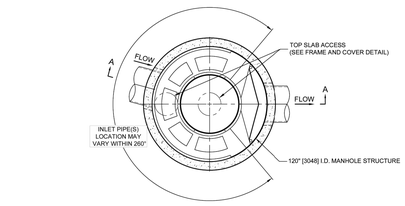
CS-8
CASCADE SEPARATOR
STANDARD DETAIL

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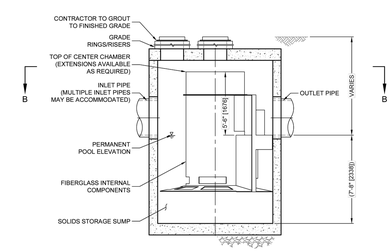
4 CONTECH CASCADE SEPARATOR CS-8
NO SCALE



2 STR 70 - DY DETENTION BASIN "B" OUTLET STRUCTURE
NO SCALE



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-10 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

INTERNAL COMPONENTS WILL BE FIELD INSTALLED. CONTACT YOUR CONTECH REPRESENTATIVE FOR ADDITIONAL INFORMATION.

CONFIGURATION DESCRIPTION
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GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

CONTECH

FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

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PEAK FLOW RATE (cfs [L/s])	
RETURN PERIOD OF PEAK FLOW (yrs)	
RIM ELEVATION	

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INLET PIPE 2			
OUTLET PIPE			

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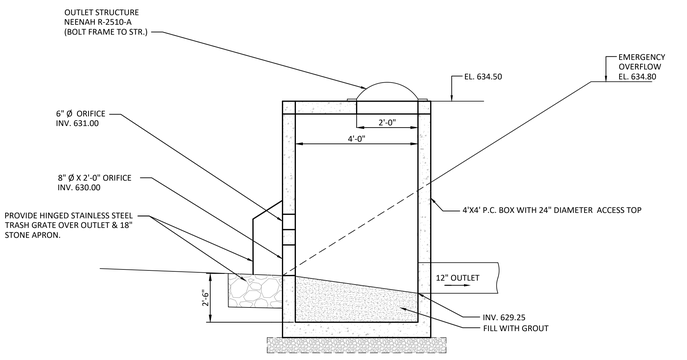
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CS-10
CASCADE SEPARATOR
STANDARD DETAIL

I:\COMMON\CAD\TREATMENT\21 CASCADS\40-STANDARD DRAWINGS\DWG\CS-10-DTL.DWG 12/2/2019 9:40 AM

3 CONTECH CASCADE SEPARATOR CS-10
NO SCALE



1 STR 73 - DRY DETENTION BASIN "A" OUTLET STRUCTURE
NO SCALE

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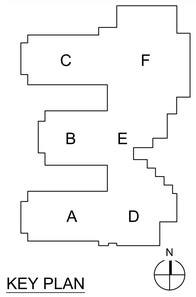
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LANDSCAPE ARCHITECT

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11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

OVERALL SITE DRAINAGE DETAILS

C310

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GENERAL NOTES

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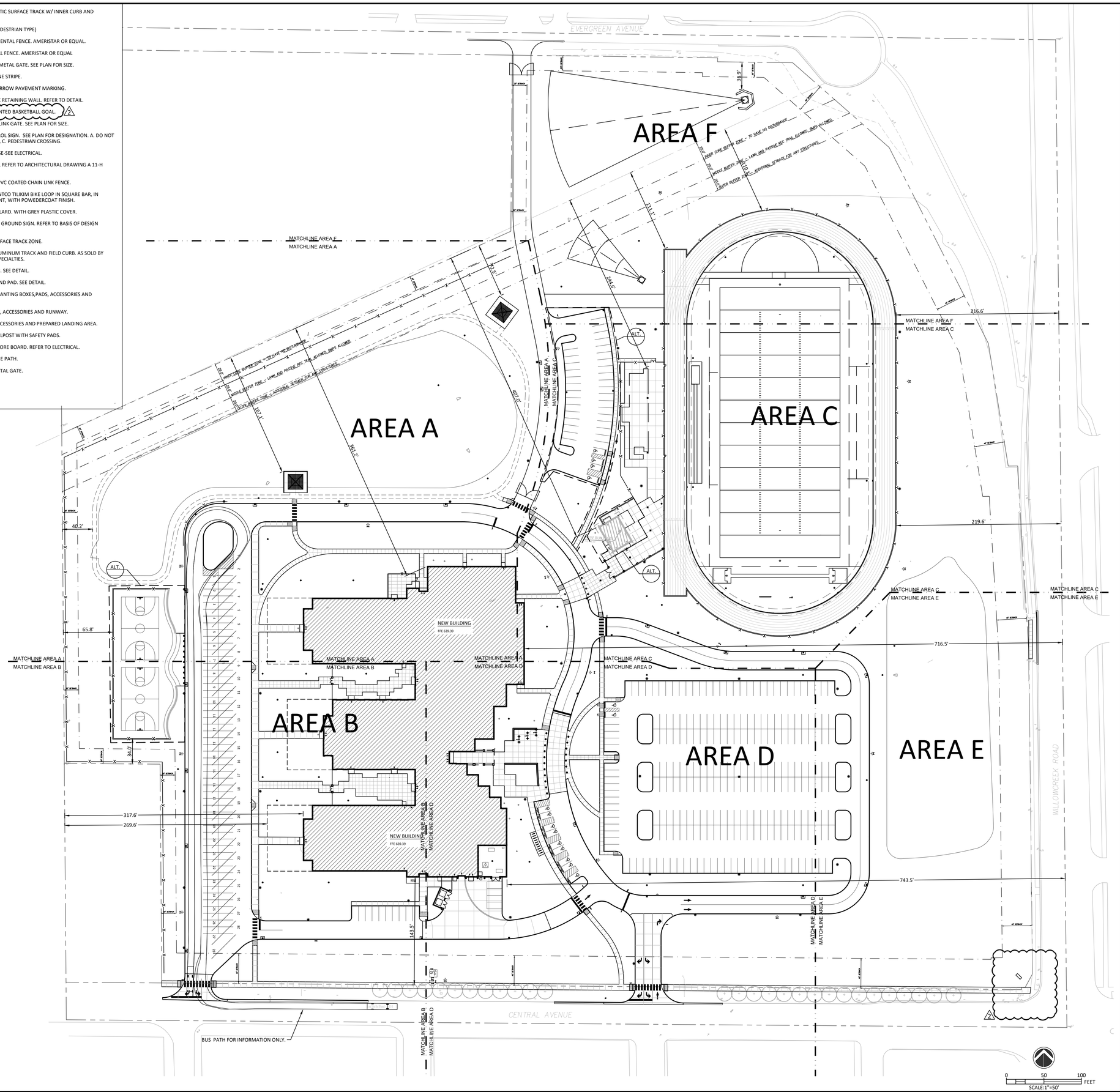
○ PLAN NOTES

1. ASPHALT PAVEMENT.
2. CONCRETE CURB AND WALK.
3. ACCESSIBLE RAMP.
4. 4" WIDE PAINTED PARKING STRIPE. WHITE FOR STANDARD, BLUE FOR ACCESSIBLE SPACES, YELLOW FOR BUS PARKING.
5. CONCRETE WALK.
6. STRAIGHT CONCRETE CURB.
7. ACCESSIBLE PARKING SPACE.
8. CONCRETE STOOP. REFER TO STRUCTURAL.
9. 6" CONCRETE PAVEMENT.
10. PAINTED CROSSWALK STRIPING.
11. WASTE CONTAINER PAD AND ENCLOSURE. REFER TO ARCHITECTURAL DRAWING A11-H
12. 24" HIGH MASONRY SEAT WALL.
13. DECORATIVE CONCRETE BOLLARD. 18" DIA. ROUND TOP BOLLARD. MODEL # BLB45 (AS SOLD BY DOTY AND SONS. ARCHITECT TO SELECT COLOR AND FINISH FROM MANUFACTURER RANGE).
14. FLAG POLE PLAZA- (1) @ 35' TALL AND (2) AT 30' TALL, STADIUM (1) @ 35' TALL.
15. CONCRETE INLET COLLAR.
16. LIQUID APPLIED SPORTS SURFACING AND STRIPING OVER ASPHALT BASE. REFER TO DETAIL.
17. 8' TALL BLACK PVC COATED CHAIN LINK FENCE.
18. 6' TALL BLACK PVC COATED CHAIN LINK FENCE.
19. CONCRETE CURB TAPER.
20. PRE-MANUFACTURED SHELTER AND FOUNDATIONS. POLIGON SHELTER CAR-20 WITH MULTI RIB ROOF. SEE MANUFACTURER DETAILS.
21. VEHICLE SWING GATE.
22. 2' WIDE PAINTED STOP BAR.
23. STEEL GUARDRAIL.
24. ALTERNATE: SYNTHETIC TURF FOOTBALL FIELD WITH SPECIALTY STRIPING AND LOGOS. SEE SHEET C514 FOR MARKING PLAN. BASE BID TO BE NATURAL TURF GRASS.
25. 8 LANE SYNTHETIC SURFACE TRACK W/ INNER CURB AND DRAINAGE.
26. GUARDRAIL (PEDESTRIAN TYPE)
27. 4' TALL ORNAMENTAL FENCE. AMERISTAR OR EQUAL.
28. 6' ORNAMENTAL FENCE. AMERISTAR OR EQUAL
29. ORNAMENTAL METAL GATE. SEE PLAN FOR SIZE.
30. 4" PAINTED LANE STRIPE.
31. DIRECTIONAL ARROW PAVEMENT MARKING.
32. GRAVITY BLOCK RETAINING WALL. REFER TO DETAIL.
33. GROUND MOUNTED BASKETBALL GOAL. 2
34. SLIDING CHAINLINK GATE. SEE PLAN FOR SIZE.
35. TRAFFIC CONTROL SIGN. SEE PLAN FOR DESIGNATION. A. DO NOT ENTER, B. STOP, C. PEDESTRIAN CROSSING.
36. LIGHT POLE BASE-SEE ELECTRICAL.
37. MASONRY PIER. REFER TO ARCHITECTURAL DRAWING A 11-H DETAIL 13.
38. 4' TALL BLACK PVC COATED CHAIN LINK FENCE.
39. BIKE LOOP. HUNTCO TILIKIM BIKE LOOP IN SQUARE BAR, IN GROUND MOUNT, WITH POWEDERCOAT FINISH.
40. STEEL PIPE BOLLARD. WITH GREY PLASTIC COVER.
41. INTERNALLY LIT GROUND SIGN. REFER TO BASIS OF DESIGN DETAIL.
42. SYNTHETIC SURFACE TRACK ZONE.
43. MILL FINISH ALUMINUM TRACK AND FIELD CURB. AS SOLD BY SPORTSFIELD SPECIALTIES.
44. SHOT PUT RING. SEE DETAIL.
45. DISCUS CAGE AND PAD. SEE DETAIL.
46. POLE VAULT PLANTING BOXES,PADS, ACCESSORIES AND RUNWAY.
47. LONG JUMP PIT, ACCESSORIES AND RUNWAY.
48. HIGH JUMP, ACCESSORIES AND PREPARED LANDING AREA.
49. FOOTBALL GOALPOST WITH SAFETY PADS.
50. ELECTRONIC SCORE BOARD. REFER TO ELECTRICAL.
51. CRUSHED STONE PATH.
52. DECORATIVE METAL GATE.

PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

SITE DESIGN SUMMARY	
SITE AREA	29.05 ACERS
LOT COVERAGE	
LIMITS OF CONSTRUCTION	1184382 SF/ 27.2 ACRES
BUILDING	86861 SF/ 1.99 ACRES
LAWN AND LANDSCAPING	736164 SF/ 16.9 ACRES
PARKING AND DRIVES	448668 SF/ 10.3 ACRES
TOTAL IMPERVIOUS	535529 SF/ 12.29 ACRES
BUILDING/PARKING LOT COVERAGE	42%
LANDSCAPING LOT COVERAGE	58%
PARKING	
BICYCLE PARKING SPACES	20
STANDARD PARKING STALL	**291**
HANDICAP ACCESSIBLE	**15**
BUS LOT- STANDARD SPACES OUTSIDE OF SCHOOL HOURS	**107**
BUS LOT- BUS SPACES	28
TOTAL PARKING PROVIDED	**413 (INCLUDES 39 IN ALT.)**



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11 Municipal Drive, Suite 300, Fishers, Indiana 46038

KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

OVERALL SITE IMPROVEMENT PLAN

C500

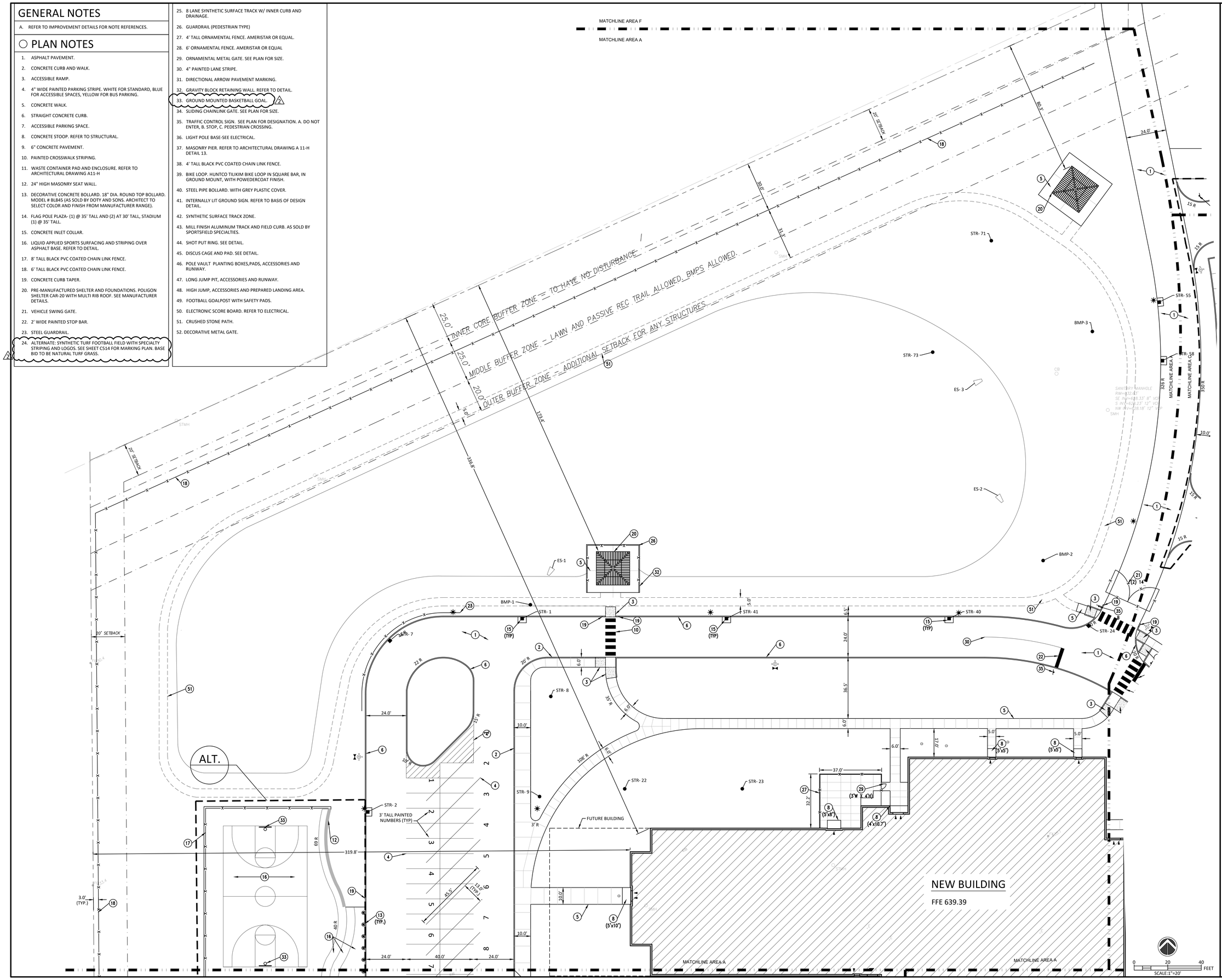
JPS Consulting Engineers - K:\Civil Projects\2024\24JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 18, 2025 - 10:45 AM BFrench

GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. ASPHALT PAVEMENT.
2. CONCRETE CURB AND WALK.
3. ACCESSIBLE RAMP.
4. 4" WIDE PAINTED PARKING STRIPE. WHITE FOR STANDARD, BLUE FOR ACCESSIBLE SPACES, YELLOW FOR BUS PARKING.
5. CONCRETE WALK.
6. STRAIGHT CONCRETE CURB.
7. ACCESSIBLE PARKING SPACE.
8. CONCRETE STOOP. REFER TO STRUCTURAL.
9. 6" CONCRETE PAVEMENT.
10. PAINTED CROSSWALK STRIPING.
11. WASTE CONTAINER PAD AND ENCLOSURE. REFER TO ARCHITECTURAL DRAWING A11-H
12. 24" HIGH MASONRY SEAT WALL.
13. DECORATIVE CONCRETE BOLLARD. 18" DIA. ROUND TOP BOLLARD. MODEL # BLB45 (AS SOLD BY DOTY AND SONS. ARCHITECT TO SELECT COLOR AND FINISH FROM MANUFACTURER RANGE).
14. FLAG POLE PLAZA- (1) @ 35' TALL AND (2) AT 30' TALL, STADIUM (1) @ 35' TALL.
15. CONCRETE INLET COLLAR.
16. LIQUID APPLIED SPORTS SURFACING AND STRIPING OVER ASPHALT BASE. REFER TO DETAIL.
17. 8' TALL BLACK PVC COATED CHAIN LINK FENCE.
18. 6' TALL BLACK PVC COATED CHAIN LINK FENCE.
19. CONCRETE CURB TAPER.
20. PRE-MANUFACTURED SHELTER AND FOUNDATIONS. POLIGON SHELTER CAR-20 WITH MULTI RIB ROOF. SEE MANUFACTURER DETAILS.
21. VEHICLE SWING GATE.
22. 2' WIDE PAINTED STOP BAR.
23. STEEL GUARDRAIL.
24. ALTERNATE: SYNTHETIC TURF FOOTBALL FIELD WITH SPECIALTY STRIPING AND LOGOS. SEE SHEET C514 FOR MARKING PLAN. BASE BID TO BE NATURAL TURF GRASS. (2)
25. 8 LANE SYNTHETIC SURFACE TRACK W/ INNER CURB AND DRAINAGE.
26. GUARDRAIL (PEDESTRIAN TYPE)
27. 4' TALL ORNAMENTAL FENCE. AMERISTAR OR EQUAL.
28. 6' ORNAMENTAL FENCE. AMERISTAR OR EQUAL
29. ORNAMENTAL METAL GATE. SEE PLAN FOR SIZE.
30. 4" PAINTED LANE STRIPE.
31. DIRECTIONAL ARROW PAVEMENT MARKING.
32. GRAVITY BLOCK RETAINING WALL. REFER TO DETAIL.
33. GROUND MOUNTED BASKETBALL GOAL (2)
34. SLIDING CHAINLINK GATE. SEE PLAN FOR SIZE.
35. TRAFFIC CONTROL SIGN. SEE PLAN FOR DESIGNATION. A. DO NOT ENTER, B. STOP, C. PEDESTRIAN CROSSING.
36. LIGHT POLE BASE-SEE ELECTRICAL.
37. MASONRY PIER. REFER TO ARCHITECTURAL DRAWING A 11-H DETAIL 13.
38. 4' TALL BLACK PVC COATED CHAIN LINK FENCE.
39. BIKE LOOP. HUNTCO TILIKIM BIKE LOOP IN SQUARE BAR, IN GROUND MOUNT, WITH POWEDERCOAT FINISH.
40. STEEL PIPE BOLLARD. WITH GREY PLASTIC COVER.
41. INTERNALLY LIT GROUND SIGN. REFER TO BASIS OF DESIGN DETAIL.
42. SYNTHETIC SURFACE TRACK ZONE.
43. MILL FINISH ALUMINUM TRACK AND FIELD CURB. AS SOLD BY SPORTSFIELD SPECIALTIES.
44. SHOT PUT RING. SEE DETAIL.
45. DISCUS CAGE AND PAD. SEE DETAIL.
46. POLE VAULT PLANTING BOXES,PADS, ACCESSORIES AND RUNWAY.
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48. HIGH JUMP, ACCESSORIES AND PREPARED LANDING AREA.
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50. ELECTRONIC SCORE BOARD. REFER TO ELECTRICAL.
51. CRUSHED STONE PATH.
52. DECORATIVE METAL GATE.



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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

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PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

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CIVIL ENGINEER

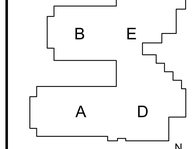
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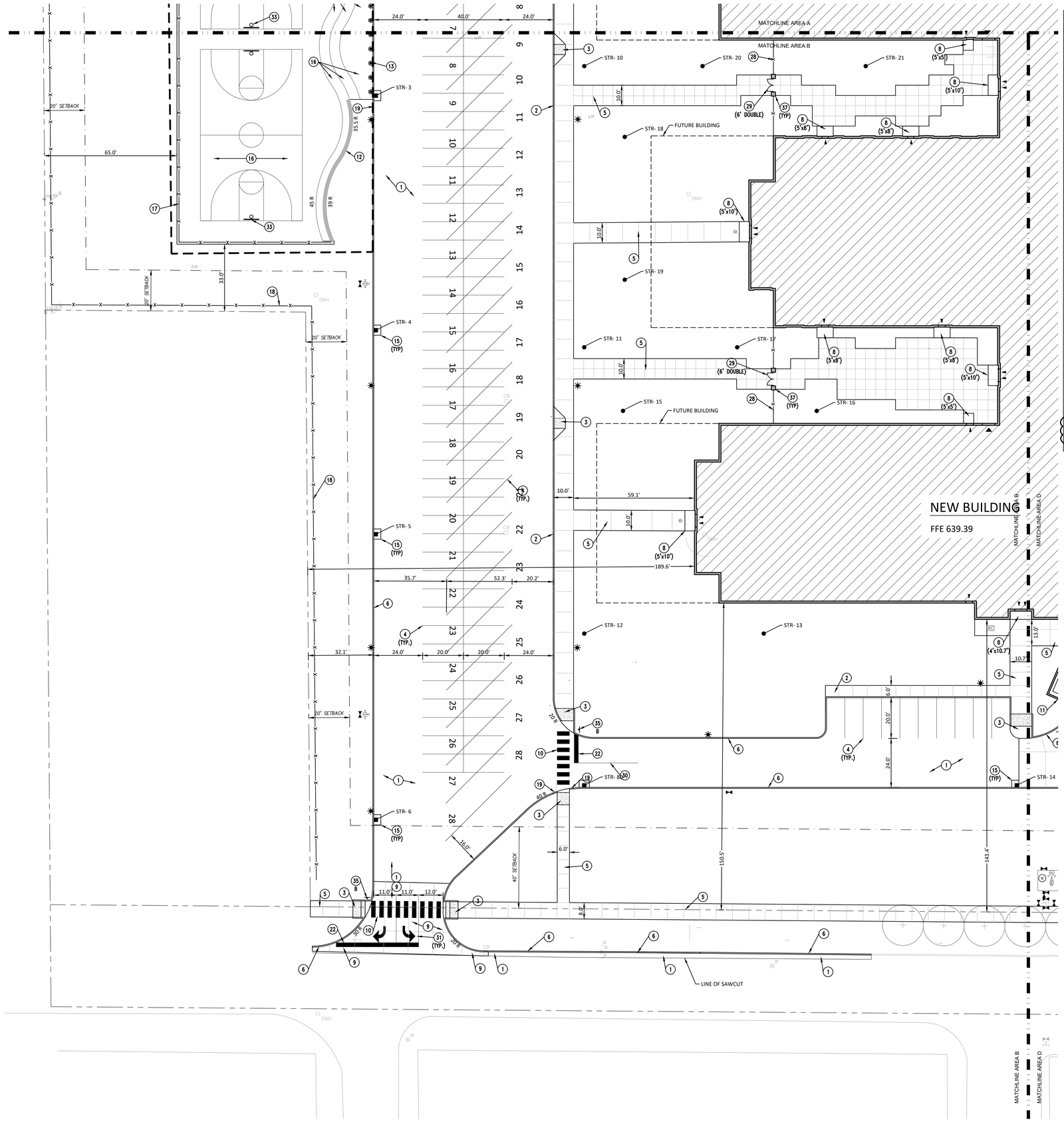
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SITE IMPROVEMENT PLAN AREA-A

C501

JPS Consulting Engineers - K:\Civil Projects\202424JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C501.dwg November 14, 2025 - 3:23 PM TJones



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0 20 40 FEET
SCALE:1"=20'

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ARCHITECT

FANNING HOWEY

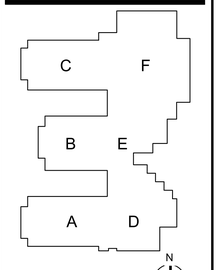
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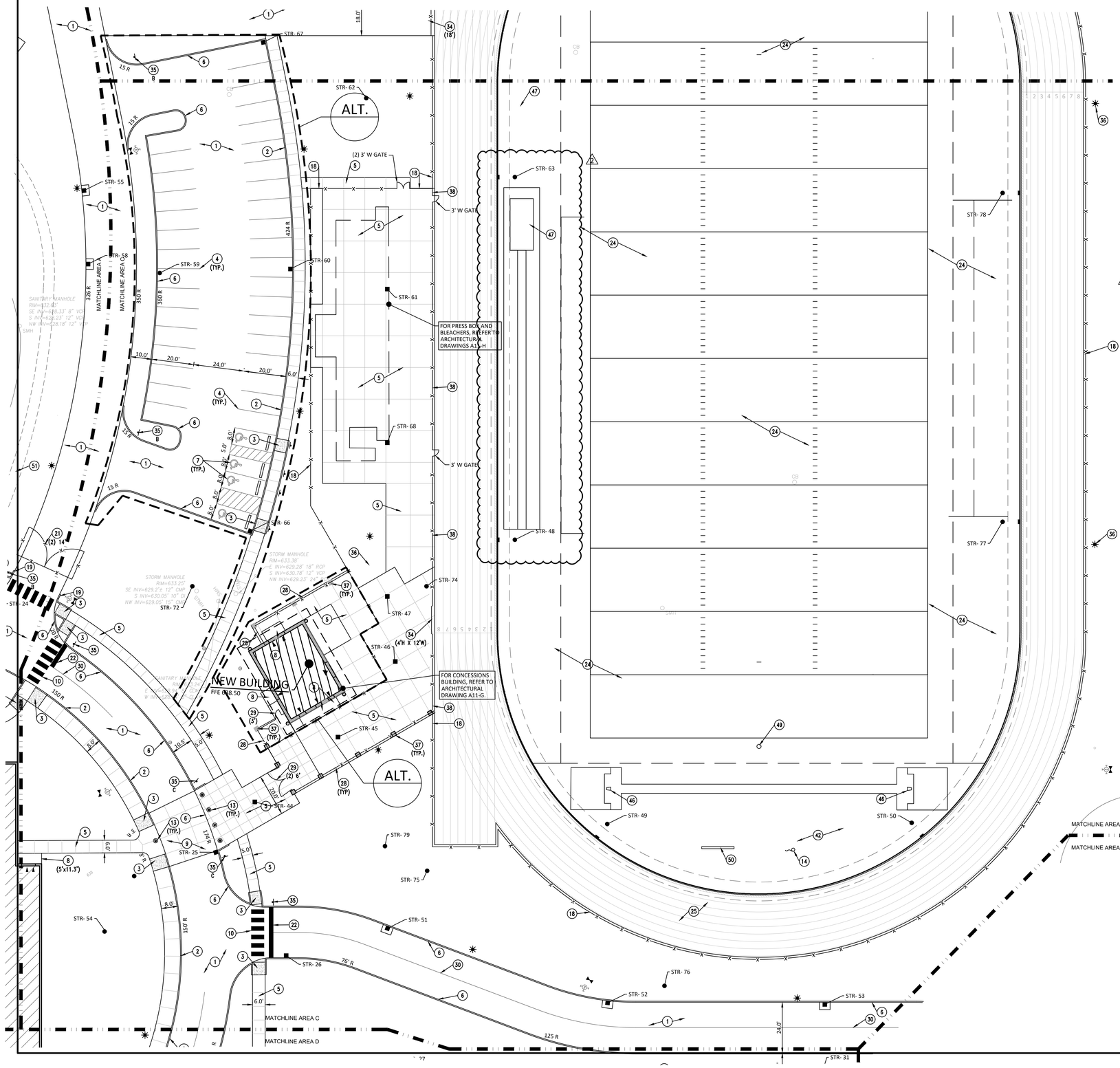
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE IMPROVEMENT PLAN AREA-B

C502

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 14, 2025 - 3:23 PM TJones



GENERAL NOTES

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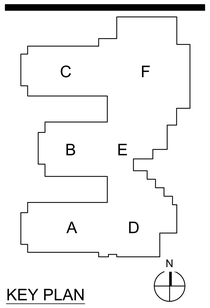
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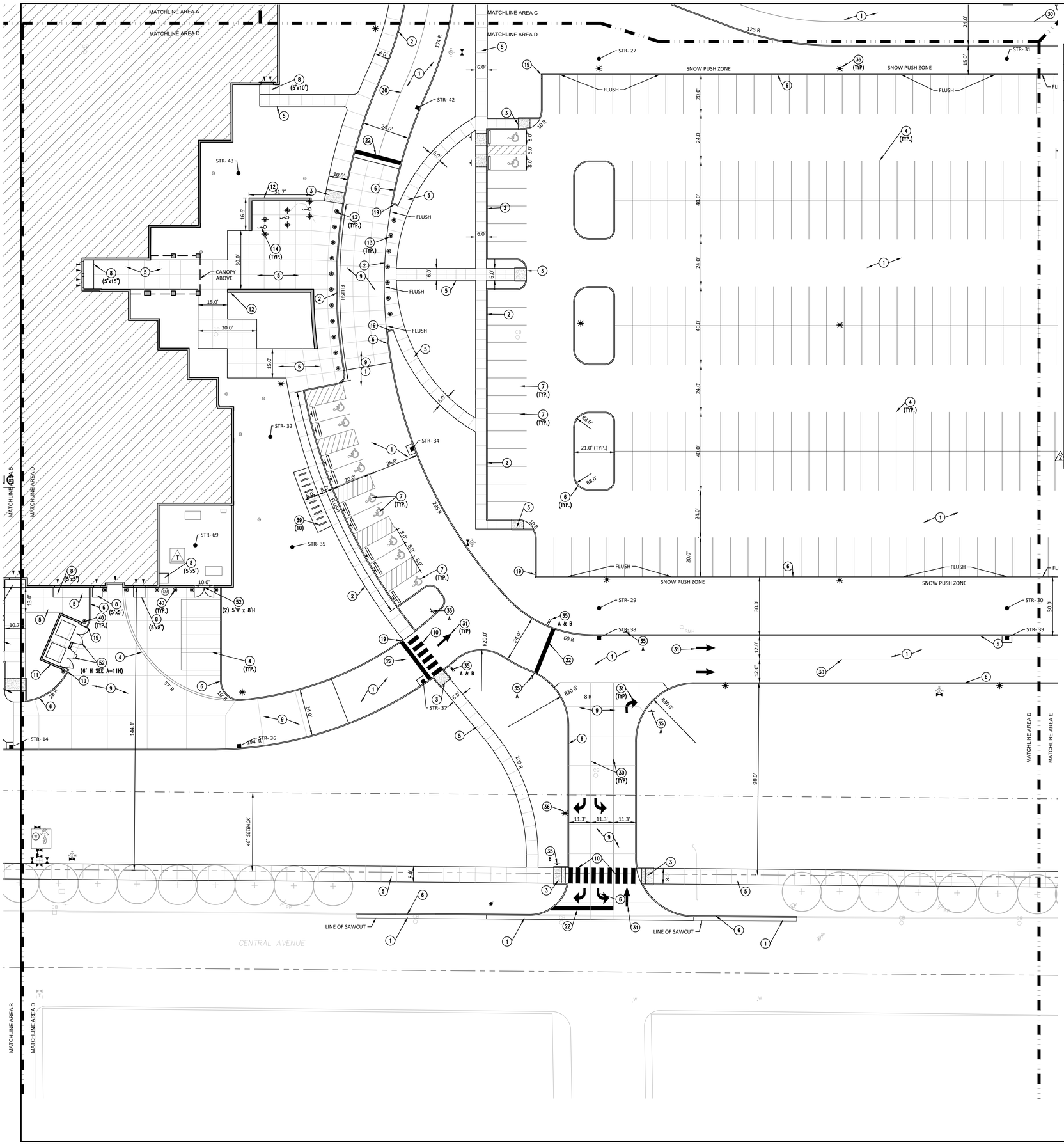
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REV. NO.	DESCRIPTION	DATE
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SITE IMPROVEMENT PLAN AREA-C

C503

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GENERAL NOTES

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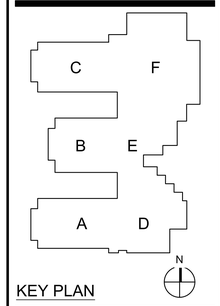
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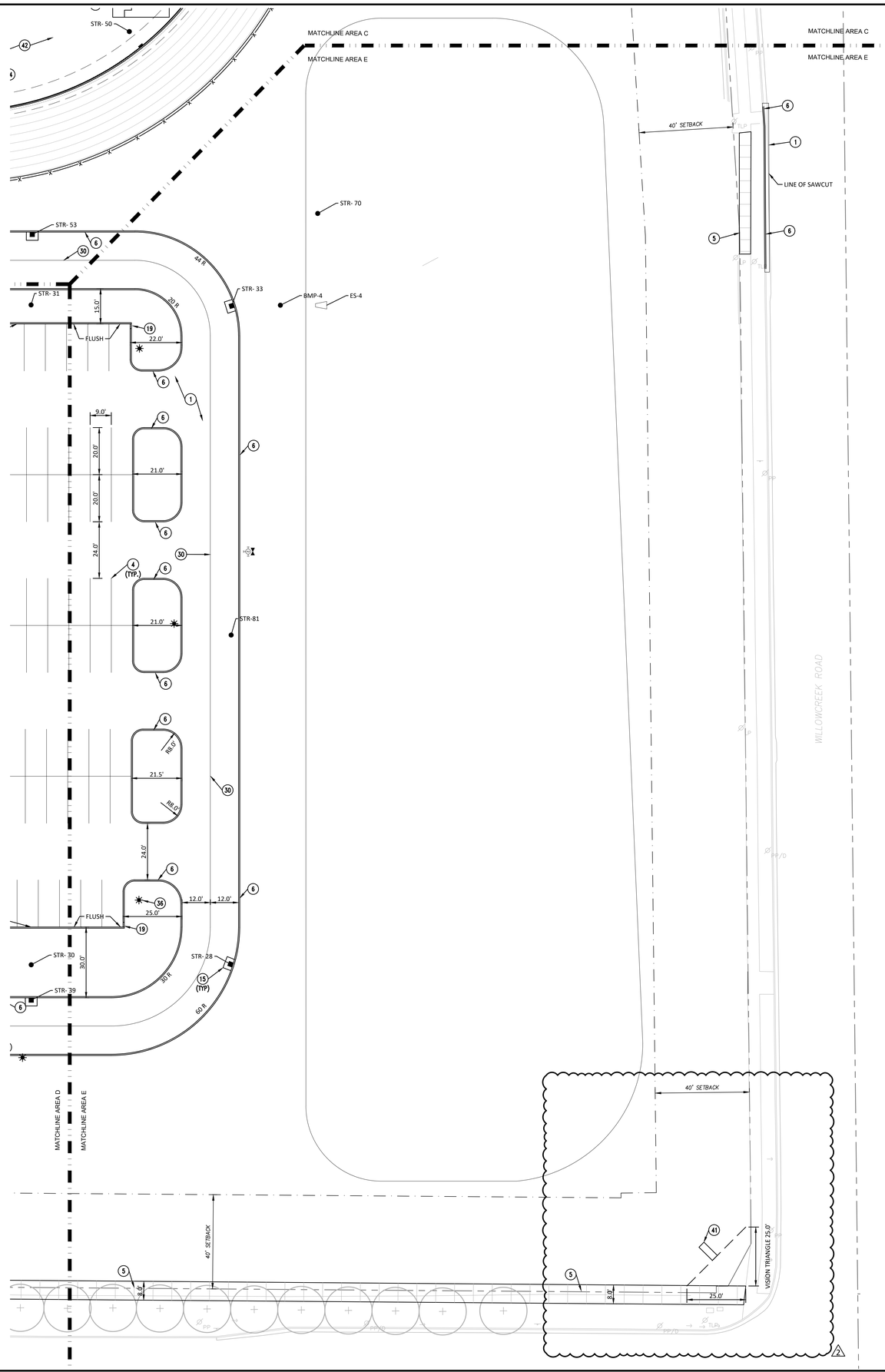
SITE IMPROVEMENT PLAN AREA-D

C504

0 20 40 FEET

SCALE:1"=20'

JPS Consulting Engineers - K:\Civil Projects\2024\JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 14, 2025 3:23 PM TJones



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14. FLAG POLE PLAZA- (1) @ 35' TALL AND (2) AT 30' TALL, STADIUM (1) @ 35' TALL.
15. CONCRETE INLET COLLAR.
16. LIQUID APPLIED SPORTS SURFACING AND STRIPING OVER ASPHALT BASE. REFER TO DETAIL.
17. 8' TALL BLACK PVC COATED CHAIN LINK FENCE.
18. 6' TALL BLACK PVC COATED CHAIN LINK FENCE.
19. CONCRETE CURB TAPER.
20. PRE-MANUFACTURED SHELTER AND FOUNDATIONS. POLIGON SHELTER CAR-20 WITH MULTI RIB ROOF. SEE MANUFACTURER DETAILS.
21. VEHICLE SWING GATE.
22. 2' WIDE PAINTED STOP BAR.
23. STEEL GUARDRAIL.
24. ALTERNATE: SYNTHETIC TURF FOOTBALL FIELD WITH SPECIALTY STRIPING AND LOGOS. SEE SHEET C514 FOR MARKING PLAN. BASE BID TO BE NATURAL TURF GRASS.
25. 8 LANE SYNTHETIC SURFACE TRACK W/ INNER CURB AND DRAINAGE.
26. GUARDRAIL (PEDESTRIAN TYPE)
27. 4' TALL ORNAMENTAL FENCE. AMERISTAR OR EQUAL.
28. 6' ORNAMENTAL FENCE. AMERISTAR OR EQUAL
29. ORNAMENTAL METAL GATE. SEE PLAN FOR SIZE.
30. 4" PAINTED LANE STRIPE.
31. DIRECTIONAL ARROW PAVEMENT MARKING.
32. GRAVITY BLOCK RETAINING WALL. REFER TO DETAIL.
33. GROUND MOUNTED BASKETBALL GOAL. 2
34. SLIDING CHAINLINK GATE. SEE PLAN FOR SIZE.
35. TRAFFIC CONTROL SIGN. SEE PLAN FOR DESIGNATION. A. DO NOT ENTER, B. STOP, C. PEDESTRIAN CROSSING.
36. LIGHT POLE BASE-SEE ELECTRICAL.
37. MASONRY PIER. REFER TO ARCHITECTURAL DRAWING A 11-H DETAIL 13.
38. 4' TALL BLACK PVC COATED CHAIN LINK FENCE.
39. BIKE LOOP. HUNTCO TILIKIM BIKE LOOP IN SQUARE BAR, IN GROUND MOUNT, WITH POWEDERCOAT FINISH.
40. STEEL PIPE BOLLARD. WITH GREY PLASTIC COVER.
41. INTERNALLY LIT GROUND SIGN. REFER TO BASIS OF DESIGN DETAIL.
42. SYNTHETIC SURFACE TRACK ZONE.
43. MILL FINISH ALUMINUM TRACK AND FIELD CURB. AS SOLD BY SPORTSFIELD SPECIALTIES.
44. SHOT PUT RING. SEE DETAIL.
45. DISCUS CAGE AND PAD. SEE DETAIL.
46. POLE VAULT PLANTING BOXES,PADS, ACCESSORIES AND RUNWAY.
47. LONG JUMP PIT, ACCESSORIES AND RUNWAY.
48. HIGH JUMP, ACCESSORIES AND PREPARED LANDING AREA.
49. FOOTBALL GOALPOST WITH SAFETY PADS.
50. ELECTRONIC SCORE BOARD. REFER TO ELECTRICAL.
51. CRUSHED STONE PATH.
52. DECORATIVE METAL GATE.

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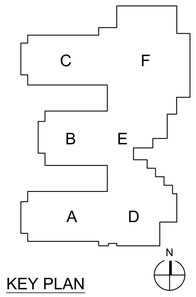
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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

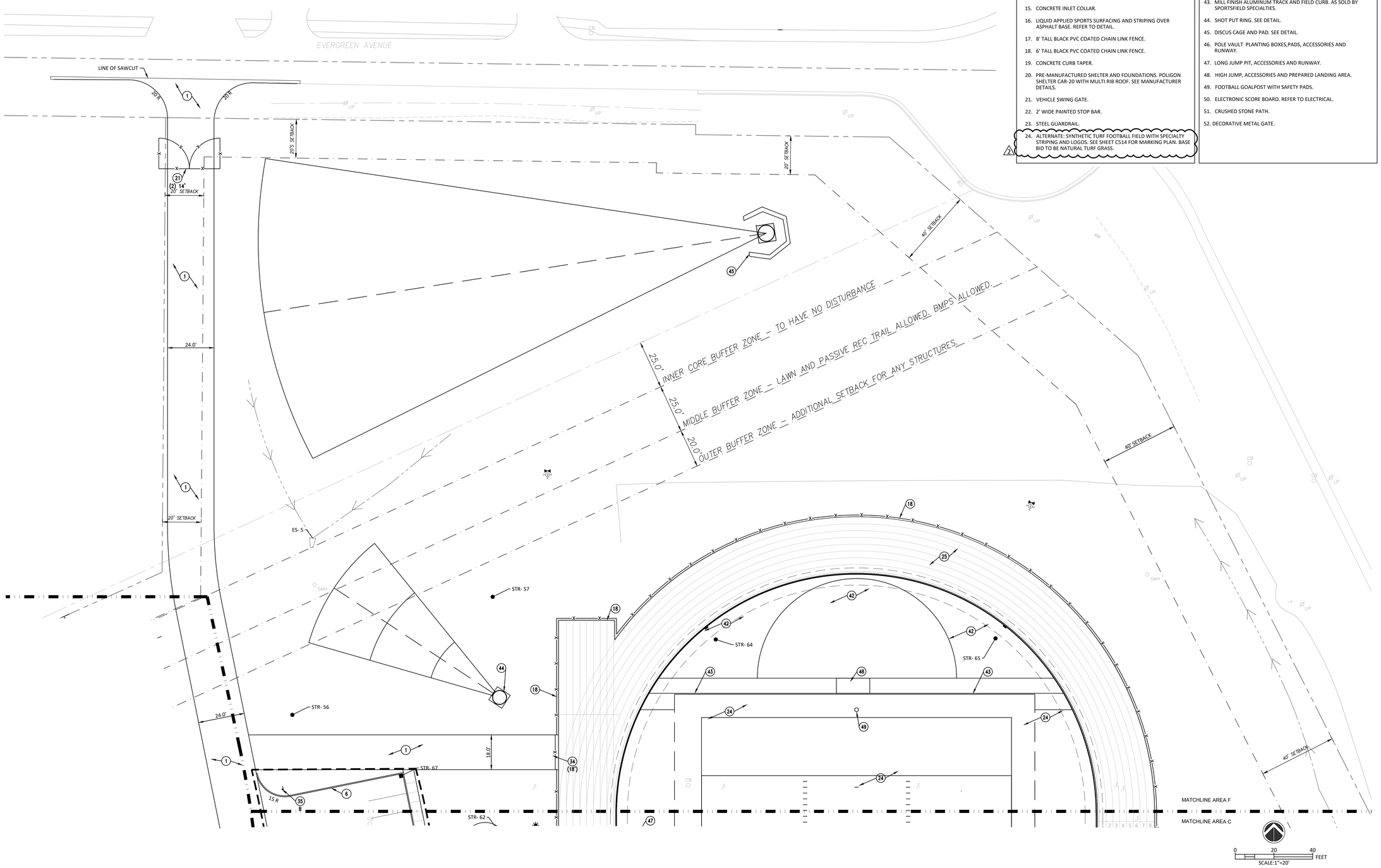
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SITE IMPROVEMENT PLAN AREA-E

C505

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GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. ASPHALT PAVEMENT.
2. CONCRETE CURB AND WALK.
3. ACCESSIBLE RAMP.
4. 4" WIDE PAINTED PARKING STRIPE. WHITE FOR STANDARD, BLUE FOR ACCESSIBLE SPACES, YELLOW FOR BUS PARKING.
5. CONCRETE WALK.
6. STRAIGHT CONCRETE CURB.
7. ACCESSIBLE PARKING SPACE.
8. CONCRETE STOOP. REFER TO STRUCTURAL.
9. 6" CONCRETE PAVEMENT.
10. PAINTED CROSSWALK STRIPING.
11. WASTE CONTAINER PAD AND ENCLOSURE. REFER TO ARCHITECTURAL DRAWING A11-H
12. 24" HIGH MASONRY SEAT WALL.
13. DECORATIVE CONCRETE BOLLARD. 18" DIA. ROUND TOP BOLLARD. MODEL # BL845 (AS SOLD BY DOTY AND SONS. ARCHITECT TO SELECT COLOR AND FINISH FROM MANUFACTURER RANGE).
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35. TRAFFIC CONTROL SIGN. SEE PLAN FOR DESIGNATION. A. DO NOT ENTER, B. STOP, C. PEDESTRIAN CROSSING.
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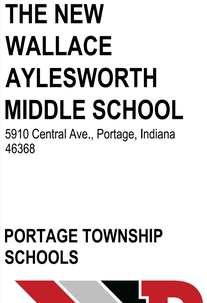
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KEY PLAN

CONSTRUCTION DOCUMENTS



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PROJECT NUMBER: 223047.01 24JPCSE81

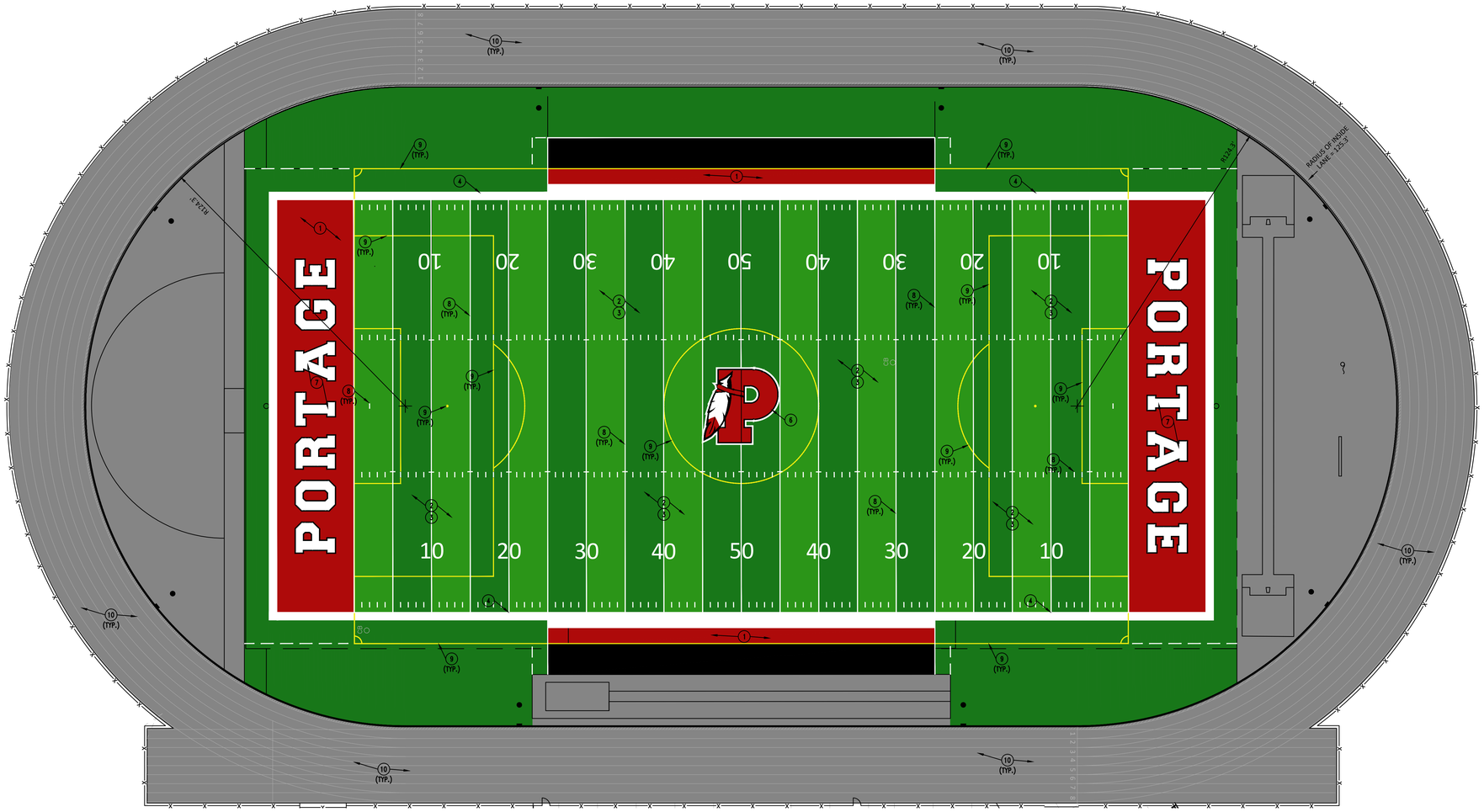
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE IMPROVEMENT PLAN AREA-F

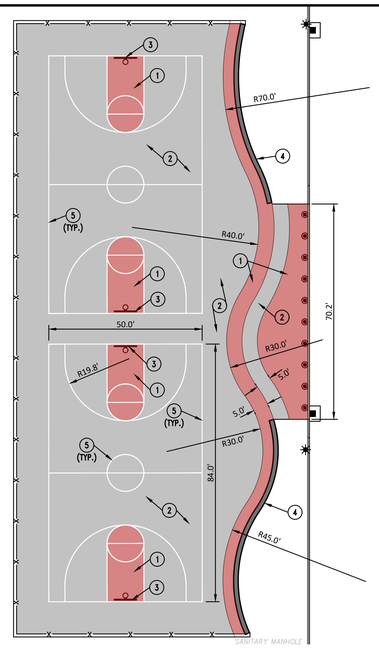
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2 FOOTBALL/SOCCER FIELD AND TRACK MARKING PLAN
SCALE: 1"=20'



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SCALE:1"=20'

1 BASKETBALL COURTS
SCALE: 1"=20'

GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. ACRYLIC COLOR SURFACING - RED. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
2. ACRYLIC COLOR SURFACING - LIGHT GREY. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
3. BASKETBALL GOAL. REFER TO SPECIFICATIONS AND DETAILS.
4. 24" TALL MASONRY SEAT WALL. SEE DETAIL.
5. ALL WHITE STRIPING TO BE 2" WIDE.

GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. NEW INFILL TURF - RED. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
2. NEW INFILL TURF - GREEN TYPE 1. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
3. NEW INFILL TURF - GREEN TYPE 2. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
4. NEW INFILL TURF - WHITE. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
5. NEW INFILL TURF - BLACK. REFER TO SPECIFICATIONS AND DETAILS. OWNER TO SELECT COLOR.
6. PORTAGE ATHLETIC P LOGO TO MATCH PORTAGE ATHLETICS STANDARD BRANDING LOGOS AND COLORS, WITH FINAL COLORS SELECTED BY OWNER.
7. "PORTAGE" LETTERS - 6' TOTAL HEIGHT, WHITE WITH 6" BLACK OUTLINE TO MATCH PORTAGE ATHLETICS STANDARD BRANDING LOGOS AND COLORS, WITH FINAL COLORS SELECTED BY OWNER.
8. ALL WHITE FIELD MARKINGS TO BE 2.5 INCHES WIDE.
9. ALL YELLOW FIELD MARKINGS TO BE 2.5 INCHES WIDE.
10. TRACK STRIPING. STRIPING LAYOUT TO MATCH IHSAA AND NFHS STANDARDS. SEE DETAIL 511-11 FOR MORE INFORMATION.

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ARCHITECT

FANNING HOWEY

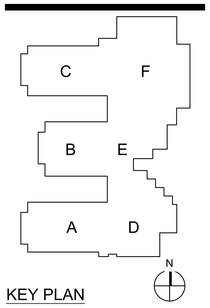
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KEY PLAN

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PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11-18-2025

SITE ENLARGEMENT PLANS

C514

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C510.dwg November 17, 2025 - 1:31 PM ESlauve

GENERAL NOTES

A. ALL DISTURBED LAWN AREAS TO BE SEEDED UNLESS OTHERWISE NOTED.

B. SEE SHEET C608 FOR ALL ALTERNATE LANDSCAPE PLAN

C. THE LANDSCAPE IRRIGATION SYSTEM DESIGN ON THIS PROJECT IS TO BE DELEGATED AS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS AND A CERTIFIED (SEALED WITH CID CERTIFICATION) IRRIGATION PLAN FOR REVIEW PRIOR TO CONSTRUCTION.THE IRRIGATION DESIGNER IS RESPONSIBLE FOR THE FOLLOWING:

- CONFIRM WITH THE OWNER IF THERE IS A SPRAY HEAD MANUFACTURER THAT IS PREFERRED
- WORK WITH THE WATER UTILITY COMPANY TO OBTAIN PRESSURE AND FLOW TEST DATA FOR THE WATER MAIN THAT WILL BE SUPPLYING THE IRRIGATION SYSTEM. IF THE IRRIGATION SYSTEM IS TO BE FED FROM A BUILDING WATER SUPPLY ON SITE, THEN COORDINATE WITH THE PLUMBING ENGINEER.
- COORDINATE THE LOCATION OF THE IRRIGATION CONTROLS WITH THE OWNER/ARCHITECT PRIOR TO SUBMITTING THE DESIGN.
- THE IRRIGATION SYSTEM SHALL COVER 100% OF THE LAWN AND PLANT BED AREAS (UNLESS LIMITS OF IRRIGATION ARE INDICATED) WITH NO OVER-SPRAY ONTO WALKS AND DRIVES
- ALL IRRIGATION PRODUCTS SHALL BE INSTALLED ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PERMITS THAT MAY BE NEEDED FOR THE WATER SOURCE MAIN TAP OR IRRIGATION INSTALLATION.

○ PLAN NOTES

1. SPADE EDGE.
2. STONE MULCH AND METAL EDGING.
3. STONE MULCH INLET COLLAR.
4. LANDSCAPE BOULDER.
5. AREA OF NATIVE SEEDING. ECONOMY PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 34,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.
6. AREA OF NATIVE SEEDING. BASIC PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 76,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.

FURNITURE NOTES

A. (3) AVIVO BAR TABLES 30"X90" AS SOLD BY FORMS AND SURFACES. STAVO-B3090W SOLID PATTERN ALUMINUM TABLE TOP OPTION.

B. (18) AVIVO BAR STOOLS AS SOLD BY FORMS AND SURFACES. SCAVO-B SOLID PATTERN FOR SEAT AND BACK OPTION.

C. (56) AVIVO CHAIRS AS SOLD BY FORMS AND SURFACES. SCAVIO ARMLESS OPTION WITH SOLID SEAT AND BACK OPTION.

D. (14) COLUMN TABLE WITH ROUND BASE AS SOLD BY FORMS AND SURFACES. SPCRO-24S36 WITH SATIN FINISH.

E. (14) TRIO BENCHES AS SOLD BY FORMS AND SURFACES. SBTRO-72BA SURFACE MOUNT.

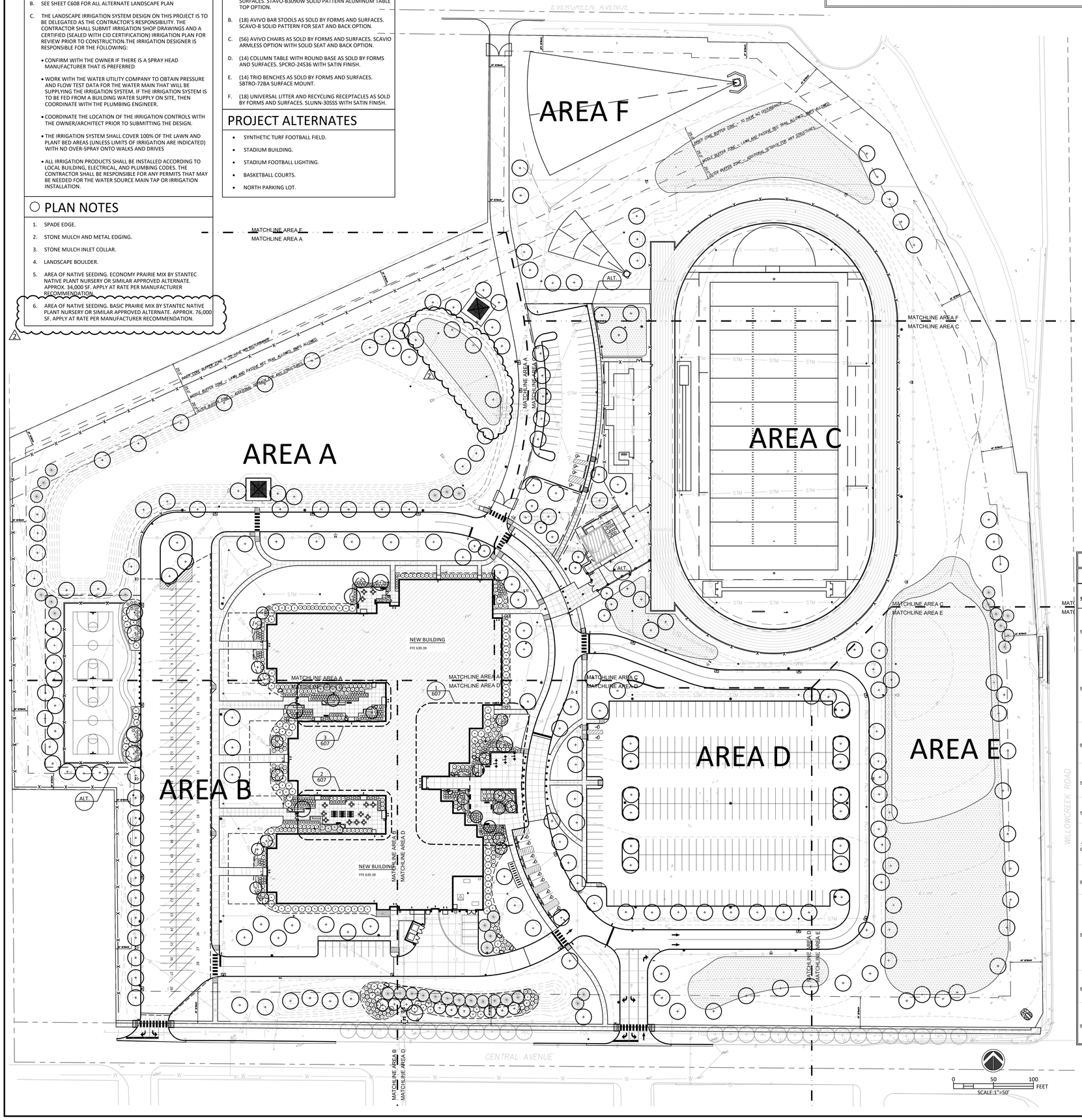
F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SSS WITH SATIN FINISH.

PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

NOTE TO BIDDERS:

1. ALL LANDSCAPING PLANTS/INSTALLATION PROVIDED BY OWNER IN FUTURE.
2. BASE BID TO INCLUDE SEEDING AND LAWN RESTORATION ONLY.



PLANT LIST

COUNT	MARK	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHADE TREES					
28	ACE-R	ACER RUBRUM	RED MAPLE	2 ½"-3" CAL.	B&B
12	BET-N	BETULA NIGRA 'CULLY'	HERITAGE BIRCH	12' HEIGHT	MULTI-STEM, B&B
21	GLE-T	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2 ½"-3" CAL.	B&B
33	LIR-T	LIRIODENDRON TULIPIFERA	TULIP TREE	2 ½"-3" CAL.	B&B
10	NYS-S	NYSSA SYLVATICA	BLACK GUM	2 ½"-3" CAL.	B&B
28	QUE-A	QUERCUS ALBA	WHITE OAK	2 ½"-3" CAL.	B&B
12	QUE-M	QUERCUS MACROCARPA	BUR OAK	2 ½"-3" CAL.	B&B
26	QUE-R	QUERCUS RUBRA	RED OAK	2 ½"-3" CAL.	B&B
5	TAX-D	TAXODIUM DISTICHUM	BALD CYRESS	2 ½"-3" CAL.	B&B
ORNAMENTAL TREES					
15	AME-G	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	8' HEIGHT	MULTI-STEM, B&B
2	CHI-V	CHIONANTHUS VIRGINICUS	FRINGETREE	8' HEIGHT	MULTI-STEM, B&B
11	CRA-P	CRATAEGUS VIRDIS	GREEN HAWTHORN	1 ½"-2" CAL.	B&B
EVERGREEN TREE					
16	PIN-B	PINUS BANKSIANA	JACK PINE	8' HEIGHT	B&B
12	PIN-S	PINUS STROBUS	WHITE PINE	8' HEIGHT	B&B
EVERGREEN SHRUBS					
47	ILE-G	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	18"-24"	
86	MYR-P	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	30"-36"	
SHRUBS					
33	ARO-A	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	BRILLIANT RED CHOKECHERRY	18"-24"	3' O.C.
76	COR-B	CORNUS SERICEA 'BUDD'S YELLOW'	BUD'S YELLOW DOGWOOD	30"-36"	5' O.C.
17	COR-S	CORNUS AMOMUM	SILKY DOGWOOD	18"-24"	3' O.C.
124	ITE-V	ITEA VIRGINICA 'SPRICH'	LITTLE HENRY ITEA	18"-24"	3' O.C.
36	ITE-H	ITEA VIRGINICA 'HENRY'S GARNET'	VIRGINIA SWEETSPIRE	30"-36"	5' O.C.
11	HAM-V	HAMAMELIS VIRGINIANA	WITCH HAZEL	30"-36"	5' O.C.
37	HYP-P	HYPERICUM PERFORATUM	COMMON ST. JOHN'S WORT	18"-24"	3' O.C.
22	RHU-C	RHUS COPALLINUM	WINGED SUMAC	24"-30"	5' O.C.
105	VIB-D	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24"-30"	5' O.C.
GRASSES					
110	CHA-L	CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	#2 CONT.	2' O.C.
87	PAN-V	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	#2 CONT.	3' O.C.
49	SCH-S	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	THE BLUES LITTLE BLUESTEM	#2 CONT.	3' O.C.
20	SPO-H	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#2 CONT.	2' O.C.
PERENNIALS (MIX-P)					
54	AMS-B	AMSONIA TABERNAEMONTANA	EASTERN BLUE STAR	#1 CONT.	18" O.C.
47	ASC-T	ASCLEPIAS TURBEROSA	BUTTERFLY MILKWEED	#2 CONT.	18" O.C.
64	AST-T	ASTER TATARICUS	TARTARIAN ASTER	#2 CONT.	18" O.C.
165	BOU-G	BOUTELOUA GRACILIS 'BLOND AMBITION'	BLOND AMBITION BLUE GRAMA GRASS	#2 CONT.	2' O.C.
137	CAR-P	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	PLUG	2' O.C.
27	COR-L	COREOPSIS LANCEOLATA	SAND COREOPSIS	#2 CONT.	18" O.C.
16	ERY-Y	ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	#2 CONT.	18" O.C.
37	GER-M	GERANIUM MACULATUM	WILD GERANIUM	#2 CONT.	18" O.C.
28	LIA-A	LIATRIS ASPERA	ROUGH BLAZING STAR	#2 CONT.	18" O.C.
21	LOB-S	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	#2 CONT.	18" O.C.
26	MON-F	MONARDA FISTULOSA	WILD BERGAMOT	#2 CONT.	18" O.C.

ALL PLANT SPECIES SPECIFIED FOR THIS PROJECT ARE NATIVE. ANY PROPOSED SUBSTITUTIONS MUST ALSO BE NATIVE SPECIES AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. SUBMIT SUBSTITUTION REQUESTS IN WRITING.

LANDSCAPE ORDINANCE CHART

PARCEL IS ZONED IS AND FOLLOWS GENERAL AND BUSINESS LANDSCAPE STANDARDS LISTED BELOW

ORD. SECTION	DESCRIPTION	MEASUREMENT	PLANTINGS REQUIRED	PLANTINGS PROVIDED
SEC. 90-6.36.B	NATIVE PLANTING REQUIREMENTS -ALL PLANTINGS ARE REQUIRED TO BE NATIVE TO THE REGION. -ALL DECIDUOUS TREES MUST HAVE AT LEAST A TWO-INCH CALIPER AND ALL EVERGREENS MUST BE AT LEAST SIX FEET IN HEIGHT WHEN PLANTED. ALL DECIDUOUS TREE SIZES MUST BE MEASURED USING DBH, AND ALL EVERGREEN TREE SIZES MUST BE DETERMINED BY MEASURING HEIGHT. UNDER NO CIRCUMSTANCES MAY ANY DEAD OR ARTIFICIAL PLANT BE INSTALLED AND/OR COUNTED AS PART OF THE MINIMUM PLANTING REQUIRED.	-	-	-
SEC. 90-6.36.C	TREE PRESERVATION ANY TREES MARKED "DO NOT REMOVE" ON THE SITE PLAN THAT ARE REMOVED OR INJURED BEYOND REPAIR MUST BE REPLACED BY ONE OR MORE SIMILAR SPECIES TREES WITH A CUMULATIVE DBH OF 1.25 TIMES THE DBH OF THE TREE WHICH WAS TO BE PRESERVED. THE FOLLOWING CREDITS SHALL BE GRANTED FOR AN EXISTING TREE AS FOLLOWS: •EACH PRESERVED DECIDUOUS TREE BETWEEN FOUR AND EIGHT INCHES DBH SHALL BE GRANTED CREDIT FOR TWO DECIDUOUS TREES. •EACH PRESERVED DECIDUOUS TREE BETWEEN EIGHT AND 12 INCHES DBH SHALL BE GRANTED CREDIT FOR THREE DECIDUOUS TREES. •EACH PRESERVED DECIDUOUS TREE OVER 12 INCHES DBH SHALL BE GRANTED CREDIT FOR FOUR DECIDUOUS TREES. •FOR EACH PRESERVED EVERGREEN TREE OVER TEN FEET TALL A CREDIT FOR TWO EVERGREEN TREES SHALL BE GRANTED.			
SEC. 90-6.36.D	LANDSCAPING EASEMENTS/ RIGHT OF WAY HARDSCAPE MATERIAL AND/OR SOFTSCAPE MATERIAL MAY EXTEND INTO AN EXISTING OR PROPOSED EASEMENT WITH THE WRITTEN PERMISSION FROM THE EASEMENT HOLDER. SUCH LANDSCAPE MATERIAL MAY EXTEND INTO THE EXISTING OR PROPOSED RIGHT-OF-WAY WITH THE WRITTEN PERMISSION OF THE BOARD OF PUBLIC WORKS AND SAFETY. SUCH SPECIAL PERMISSION IS NOT NECESSARY FOR THE INSTALLATION OF STREET TREES; HOWEVER, UTILITIES SHOULD ALWAYS BE MARKED PRIOR TO ANY PLANTING.			
SEC. 90-6.36.E	MAINTENANCE LANDOWNER IS RESPONSIBLE FOR ALL REGULAR MAINTENANCE OF ALL HARDSCAPE AND SOFTSCAPE MATERIALS. ANY SOFTSCAPE MATERIAL REQUIRED BY THIS ZONING ORDINANCE, THE PLAN COMMISSION, DIRECTOR OF COMMUNITY DEVELOPMENT, OR THE BOARD OF ZONING APPEALS THAT DIES, OR IS OTHERWISE REMOVED, MUST BE REPLACED WITHIN 60 DAYS OF DEATH. THE DIRECTOR OF COMMUNITY DEVELOPMENT MAY GRANT UP TO A 90-DAY EXTENSION DUE TO THE WEATHER.			
SEC. 90-6.36.F	SUBSTITUTIONS SUBSTITUTIONS OR ALTERATIONS OF MINIMAL PLANTING REQUIRED MAY BE REVIEWED AND APPROVED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT, BUT MUST BE EQUAL TO OR GREATER THAN THAT WHICH IS REQUIRED.			
SEC. 90-6.40. GENERAL	PLANTING CLEARANCES: THE TRUNK OF ANY SHRUB SHALL NOT BE PLANTED WITHIN FIVE FEET OF THE PARKING LOT EDGE OR OTHER IMPERVIOUS SURFACE. THE TRUNK OF ANY TREE SHALL NOT BE PLANTED WITHIN TEN FEET OF THE PARKING LOT EDGE OR OTHER IMPERVIOUS SURFACE. ROOT BARRIERS SHALL BE INSTALLED FOR TREE PLANTINGS TO PROMOTE ROOTS TO GROW DOWN AND AWAY FROM IMPERVIOUS SURFACES. EACH TREE SHALL BE LOCATED IN A WELL-ESTABLISHED LAWN AREA OR DEDICATED PLANTING BED IF ACCOMPANIED BY OTHER PLANTINGS.	-	-	-
SEC. 90-6.40.A	LOT PLANTING AREA A SITE OVER 40,000 SQUARE FEET SHALL BE REQUIRED TO PLANT FOUR DECIDUOUS TREES IN THE LOT PLANTING AREA, PLUS ONE MORE DECIDUOUS TREE PER EVERY 20,000 SQUARE FEET OVER 40,000 SQUARE FEET.	1,265,483 SF	65 TREES	187 TREES
SEC. 90-6.40.B	FOUNDATION PLANTING AREA 1. IF THE FACADE THAT THE FOUNDATION PLANTINGS ARE TO BE PLACED IN FRONT OF IS LESS THAN 15 FEET IN HEIGHT (EXCLUSIVE OF ROOF), THEN SAID STRUCTURE SHALL HAVE A MINIMUM OF ONE SHRUB PLANTED PER TEN LINEAL FEET OF FOUNDATION FACING STREET OR PARKING AREA, LOCATED IN DEDICATED PLANTING BEDS AT LEAST TEN FEET WIDE AND WITHIN 20 FEET OF THE FOUNDATION WALL. CLUSTERING AND VARIATION OF DISTANCE BETWEEN THE PLANTING AND THE FOUNDATION IS RECOMMENDED. 2. IF THE FACADE THAT THE FOUNDATION PLANTINGS ARE TO BE PLACED IN FRONT OF IS GREATER THAN 15 FEET IN HEIGHT (EXCLUSIVE OF ROOF), THEN SAID STRUCTURE SHALL ALSO HAVE A MINIMUM OF ONE DECIDUOUS TREE PLANTED PER 40 LINEAL FEET OF FOUNDATION FACING STREET OR PARKING AREA, LOCATED IN DEDICATED PLANTING BEDS AT LEAST 20 FEET WIDE AND WITHIN 40 FEET OF THE FOUNDATION WALL. CLUSTERING AND VARIATION OF DISTANCE BETWEEN THE PLANTING AND THE FOUNDATION IS RECOMMENDED.	FACADE IS GREATER THAT 15" HEIGHT WITH A TOTAL OF 2134 LF OF FOUNDATION WALL. 1825 LF FACES STREET OR PARKING	46 TREES AND 20' WIDE PLANT BED	
SEC. 90-6.40.C	PARKING LOT PLANTING AREA 1.ONE DECIDUOUS TREE SHALL BE PLANTED FOR EVERY 60 LINEAR FEET OF PARKING LOT PERIMETER AND/OR BUFFER STRIP. ANY INTERIOR LANDSCAPE ISLANDS SHALL COMPLIMENT SITE LANDSCAPING. 2.ANY BUFFER STRIP SHALL USE A PLANTED GROUNDCOVER.	2,466 LF	40 Trees	44 Trees
SEC. 90-6.40.D	BUFFERYARD PLANTING AREA. IF ANY APPROVED BUSINESS LAND USE IS TO ABUT A LESSER INTENSE LAND USE, THE APPROVED BUSINESS LAND USE SHALL PLANT ADDITIONAL LANDSCAPING AS DETERMINED IN THE APPROVAL PROCESS. -AN ADDITIONAL TEN FEET OF SETBACK ALONG EACH AFFECTED PROPERTY LINE SHALL BE REQUIRED IF THE USE SHALL ABUT A RESIDENTIAL SITE DEVELOPMENT. -AN ADDITIONAL 20 FEET OF SETBACK ALONG EACH AFFECTED PROPERTY LINE SHALL BE REQUIRED IF THE USE SHALL ABUT A RESIDENTIAL LOT DEVELOPMENT.			

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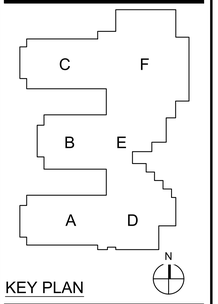
CIVIL ENGINEER

LANDSCAPE ARCHITECT

JPS CONSULTING ENGINEERS, LLC

317-617-4270 WWW.JPSCE.COM

11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

REBECCA L. FANNING REGISTERED No. LA21700009 STATE OF INDIANA LANDSCAPE ARCHITECT

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

OVERALL SITE LANDSCAPE PLAN

C600

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GENERAL NOTES

A. ALL DISTURBED LAWN AREAS TO BE SEEDED UNLESS OTHERWISE NOTED.

B. SEE SHEET C608 FOR ALL ALTERNATE LANDSCAPE PLAN

C. THE LANDSCAPE IRRIGATION SYSTEM DESIGN ON THIS PROJECT IS TO BE DELEGATED AS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS AND A CERTIFIED (SEALED WITH CID CERTIFICATION) IRRIGATION PLAN FOR REVIEW PRIOR TO CONSTRUCTION.THE IRRIGATION DESIGNER IS RESPONSIBLE FOR THE FOLLOWING:

- CONFIRM WITH THE OWNER IF THERE IS A SPRAY HEAD MANUFACTURER THAT IS PREFERRED
- WORK WITH THE WATER UTILITY COMPANY TO OBTAIN PRESSURE AND FLOW TEST DATA FOR THE WATER MAIN THAT WILL BE SUPPLYING THE IRRIGATION SYSTEM. IF THE IRRIGATION SYSTEM IS TO BE FED FROM A BUILDING WATER SUPPLY ON SITE, THEN COORDINATE WITH THE PLUMBING ENGINEER.
- COORDINATE THE LOCATION OF THE IRRIGATION CONTROLS WITH THE OWNER/ARCHITECT PRIOR TO SUBMITTING THE DESIGN.
- THE IRRIGATION SYSTEM SHALL COVER 100% OF THE LAWN AND PLANT BED AREAS (UNLESS LIMITS OF IRRIGATION ARE INDICATED) WITH NO OVER-SPRAY ONTO WALKS AND DRIVES
- ALL IRRIGATION PRODUCTS SHALL BE INSTALLED ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PERMITS THAT MAY BE NEEDED FOR THE WATER SOURCE MAIN TAP OR IRRIGATION INSTALLATION.

PLAN NOTES

1. SPADE EDGE.
2. STONE MULCH AND METAL EDGING.
3. STONE MULCH INLET COLLAR.
4. LANDSCAPE BOULDER.
5. AREA OF NATIVE SEEDING. ECONOMY PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 34,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.
6. AREA OF NATIVE SEEDING. BASIC PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 76,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.

FURNITURE NOTES

A. (3) AVIVO BAR TABLES 30"X90" AS SOLD BY FORMS AND SURFACES. STAVO-B3090W SOLID PATTERN ALUMINUM TABLE TOP OPTION.

B. (18) AVIVO BAR STOOLS AS SOLD BY FORMS AND SURFACES. SCAVO-B SOLID PATTERN FOR SEAT AND BACK OPTION.

C. (56) AVIVO CHAIRS AS SOLD BY FORMS AND SURFACES. SCAVIO ARMLESS OPTION WITH SOLID SEAT AND BACK OPTION.

D. (14) COLUMN TABLE WITH ROUND BASE AS SOLD BY FORMS AND SURFACES. SPCRO-24536 WITH SATIN FINISH.

E. (14) TRIO BENCHES AS SOLD BY FORMS AND SURFACES. SBTRO-728A SURFACE MOUNT.

F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SS WITH SATIN FINISH.

MATCHLINE AREA F

MATCHLINE AREA A

INNER CORE BUFFER ZONE – TO HAVE NO DISTURBANCE

25'-0"

MIDDLE BUFFER ZONE – LAWN AND PASSIVE REC TRAIL ALLOWED, BMPS ALLOWED.

25'-0"

OUTER BUFFER ZONE – ADDITIONAL SETBACK FOR ANY STRUCTURES.

20'-0"

20' SETBACK

APPROXIMATE CENTERLINE CROSMAN DITCH LEGAL DRAIN NOTE: DITCH APPEARS TO BE FILLED IN AND REPLACED WITH STORM SEWER. SCHOOL SITE STORM APPEARS TO BE TIED TO SAID STORM SEWER

STORM MANHOLE (WELDED SHUT NO INVERT DATA) RIM=631.78"

SANITARY MANHOLE RIM=631.35" NE INV=621.85" 24" RCP SW INV=621.81" 24" RCP

SANITARY MANHOLE RIM=632.17" N INV=628.17" 8" PVC SE INV=622.27" 24" RCP SE INV=624.07" 10" RCP SW INV=622.27" 24" RCP

SANITARY MANHOLE RIM=632.41" SE INV=625.33" 8" VCP SW INV=624.23" 12" VCP NW INV=628.18" 12" VCP

NEW BUILDING

FFE 639.39

FUTURE BUILDING

MATCHLINE AREA A

MATCHLINE AREA B

MATCHLINE AREA C

MATCHLINE AREA D

SCALE:1"=20'

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11 Municipal Drive, Suite 300, Fishers, Indiana 46038

KEY PLAN

CONSTRUCTION DOCUMENTS

REGISTERED No. LA21700009 STATE OF INDIANA LANDSCAPE ARCHITECT REBECCA K. FRENCH

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

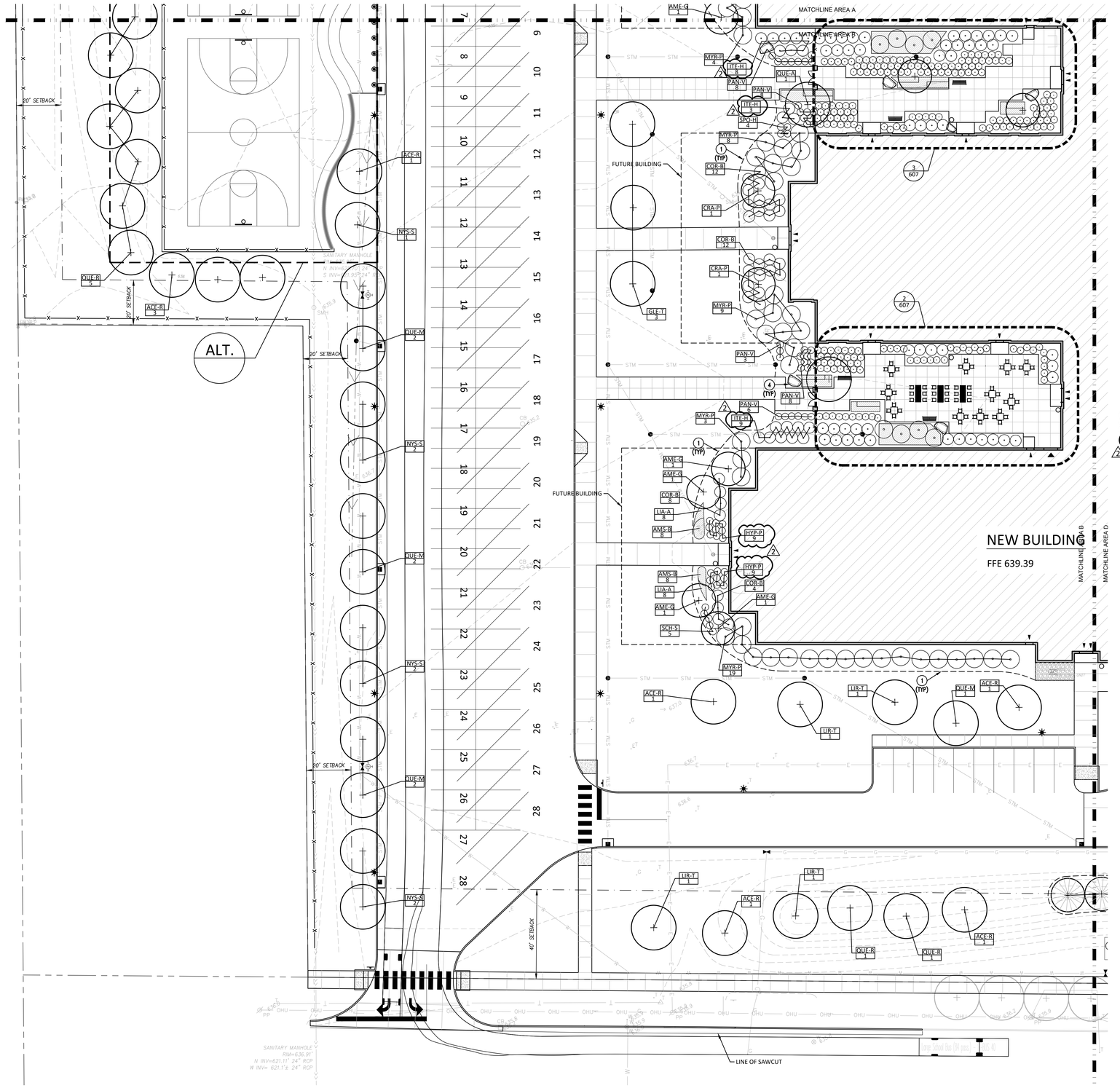
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE LANDSCAPE PLAN AREA-A

C601

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GENERAL NOTES

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B. SEE SHEET C608 FOR ALL ALTERNATE LANDSCAPE PLAN

C. THE LANDSCAPE IRRIGATION SYSTEM DESIGN ON THIS PROJECT IS TO BE DELEGATED AS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS AND A CERTIFIED (SEALED WITH CID CERTIFICATION) IRRIGATION PLAN FOR REVIEW PRIOR TO CONSTRUCTION.THE IRRIGATION DESIGNER IS RESPONSIBLE FOR THE FOLLOWING:

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PLAN NOTES

1. SPADE EDGE.
2. STONE MULCH AND METAL EDGING.
3. STONE MULCH INLET COLLAR.
4. LANDSCAPE BOULDER.
5. AREA OF NATIVE SEEDING. ECONOMY PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 34,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.
6. AREA OF NATIVE SEEDING. BASIC PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 76,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.

FURNITURE NOTES

A. (3) AVIVO BAR TABLES 30"X90" AS SOLD BY FORMS AND SURFACES. STAVO-B3090W SOLID PATTERN ALUMINUM TABLE TOP OPTION.

B. (18) AVIVO BAR STOOLS AS SOLD BY FORMS AND SURFACES. SCAVO-B SOLID PATTERN FOR SEAT AND BACK OPTION.

C. (56) AVIVO CHAIRS AS SOLD BY FORMS AND SURFACES. SCAVIO ARMLESS OPTION WITH SOLID SEAT AND BACK OPTION.

D. (14) COLUMN TABLE WITH ROUND BASE AS SOLD BY FORMS AND SURFACES. SPCRO-24S36 WITH SATIN FINISH.

E. (14) TRIO BENCHES AS SOLD BY FORMS AND SURFACES. SBTRO-72BA SURFACE MOUNT.

F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SSS WITH SATIN FINISH.

0 20 40 FEET
SCALE:1"=20'

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ARCHITECT

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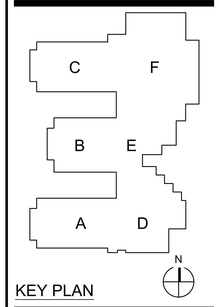
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KEY PLAN

CONSTRUCTION DOCUMENTS

REGISTERED LANDSCAPE ARCHITECT
No. LA21700009
STATE OF INDIANA

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE LANDSCAPE PLAN AREA-B

C602

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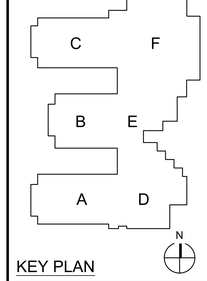
CIVIL ENGINEER

LANDSCAPE ARCHITECT

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317-617-4270 WWW.JPSCE.COM

11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

REBECCA K. BEACH
REGISTERED
No. LA21700009
STATE OF INDIANA
LANDSCAPE ARCHITECT

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
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GENERAL NOTES

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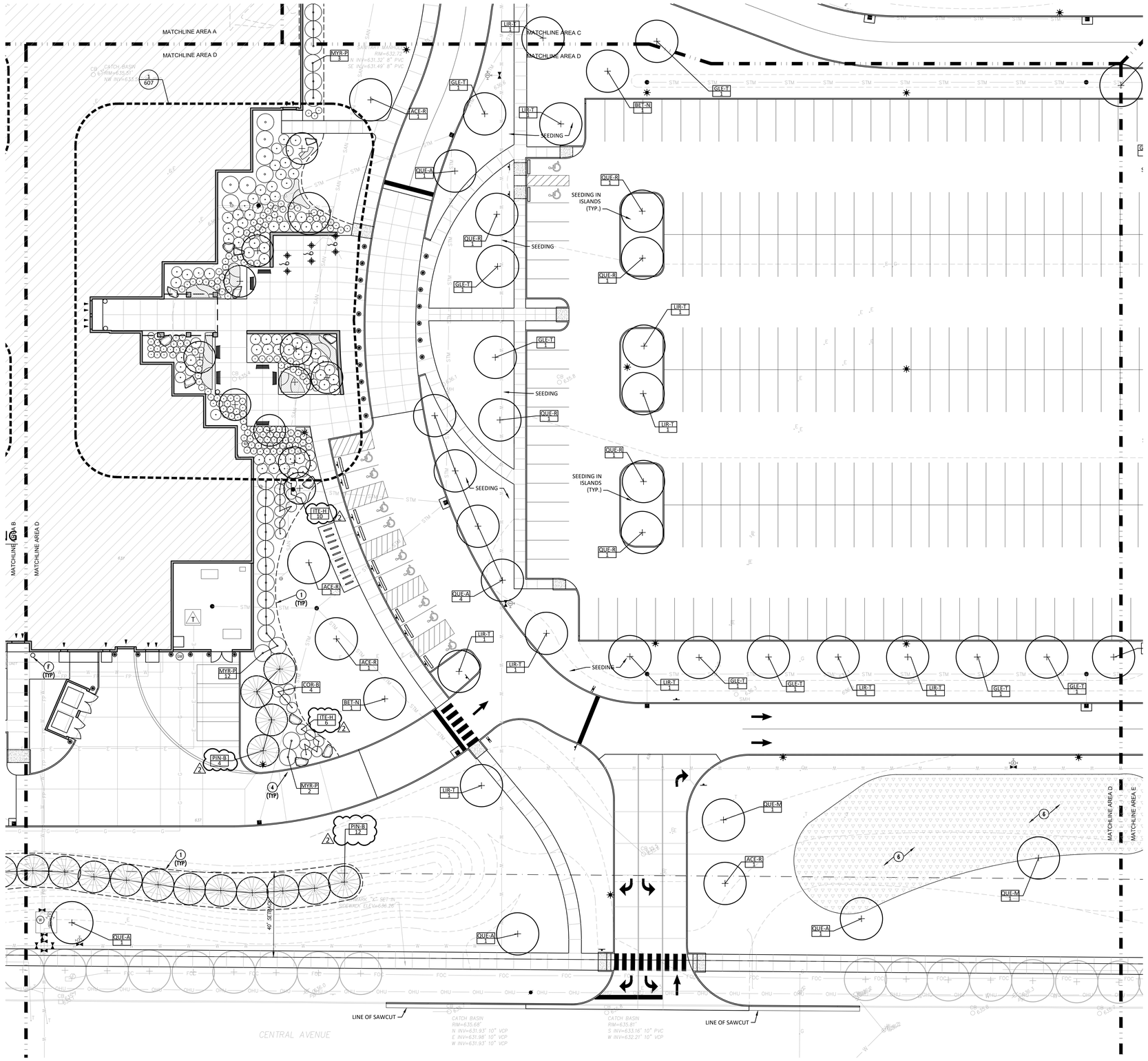
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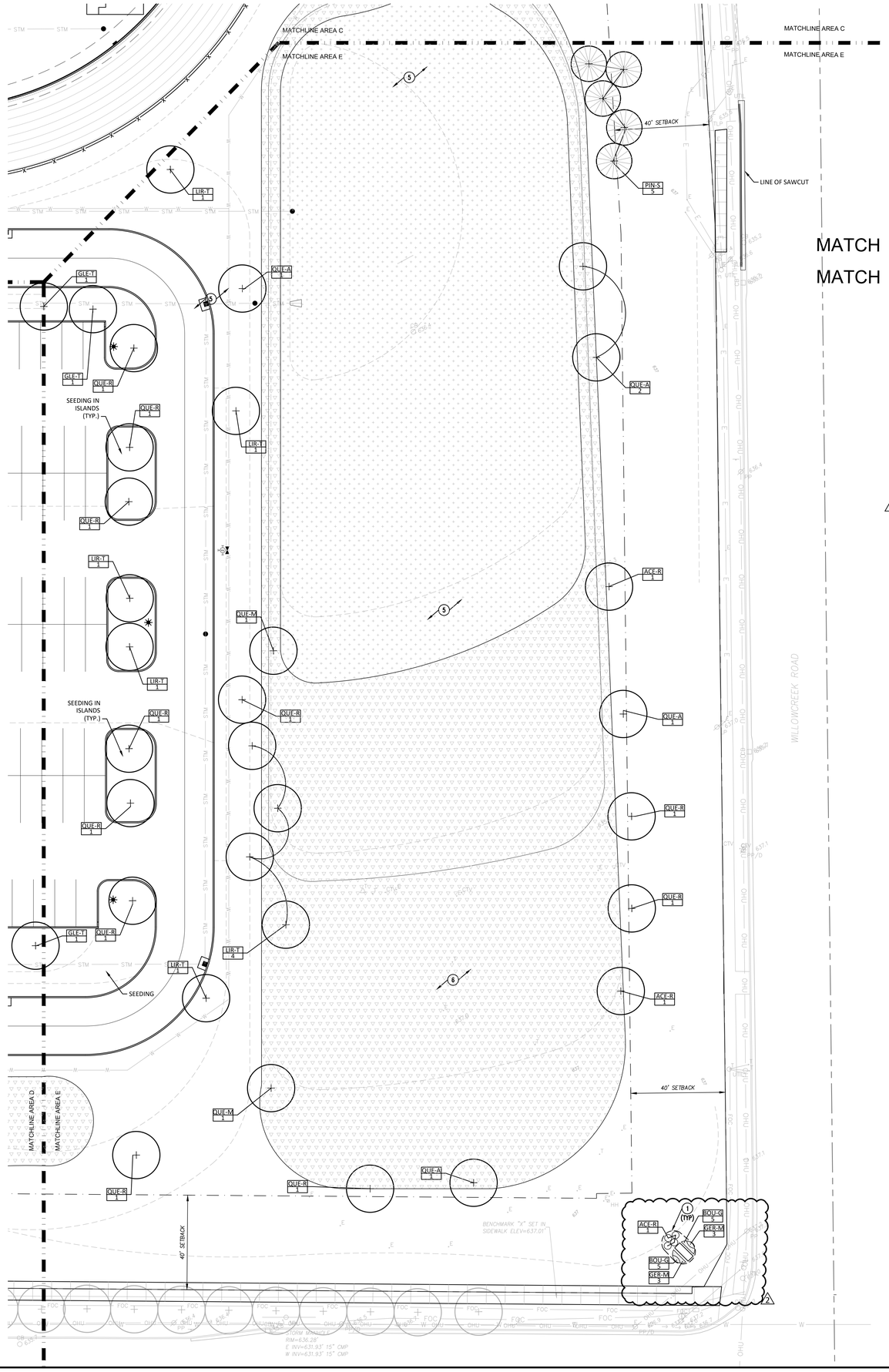
SCALE:1"=20'

SITE LANDSCAPE PLAN AREA-C

C603

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MATCHLINE AREA A
MATCHLINE AREA D
MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA B
MATCHLINE AREA D
MATCHLINE AREA D
MATCHLINE AREA E
SEEDING
SEEDING IN ISLANDS (TYP.)
SEEDING IN ISLANDS (TYP.)
SEEDING
SEEDING
SEEDING
SEEDING
LINE OF SAWCUT
LINE OF SAWCUT
CENTRAL AVENUE
40' SETBACK
CATCH BASIN RIM=635.68' N INV=631.93" 10" VCP E INV=631.98" 10" VCP W INV=631.93" 10" VCP
CATCH BASIN RIM=635.81' S INV=633.16" 10" PVC W INV=632.21" 10" VCP
CATCH BASIN RIM=635.51' NW INV=633.
CATCH BASIN RIM=632.27' W INV=631.33" 8" PVC SE INV=631.49" 8" PVC
CB 634.8
CB 634.9
CB 634.8
CB 634.8
CB 634.8



GENERAL NOTES

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○ PLAN NOTES

1. SPADE EDGE.
2. STONE MULCH AND METAL EDGING.
3. STONE MULCH INLET COLLAR.
4. LANDSCAPE BOULDER.
5. AREA OF NATIVE SEEDING. ECONOMY PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 34,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.
6. AREA OF NATIVE SEEDING. BASIC PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 76,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.

2

FURNITURE NOTES

A. (3) AVIVO BAR TABLES 30"X90" AS SOLD BY FORMS AND SURFACES. STAVO-B3090W SOLID PATTERN ALUMINUM TABLE TOP OPTION.

B. (18) AVIVO BAR STOOLS AS SOLD BY FORMS AND SURFACES. SCAVO-B SOLID PATTERN FOR SEAT AND BACK OPTION.

C. (56) AVIVO CHAIRS AS SOLD BY FORMS AND SURFACES. SCAVIO ARMLESS OPTION WITH SOLID SEAT AND BACK OPTION.

D. (14) COLUMN TABLE WITH ROUND BASE AS SOLD BY FORMS AND SURFACES. SPCRO-24536 WITH SATIN FINISH.

E. (14) TRIO BENCHES AS SOLD BY FORMS AND SURFACES. SBTRO-72BA SURFACE MOUNT.

F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SSS WITH SATIN FINISH.

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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

FANNING HOWEY

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204

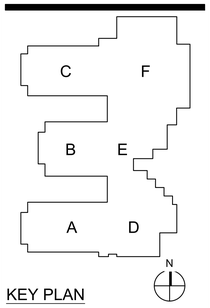
CIVIL ENGINEER

LANDSCAPE ARCHITECT

JPS CONSULTING ENGINEERS, LLC

317-617-4270 WWW.JPSCE.COM

11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

REBECCA K. FRENCH REGISTERED No. LA21700009 STATE OF INDIANA LANDSCAPE ARCHITECT

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE LANDSCAPE PLAN AREA-E

C605

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D. (14) COLUMN TABLE WITH ROUND BASE AS SOLD BY FORMS AND SURFACES. SPCRO-24S36 WITH SATIN FINISH.

E. (14) TRIO BENCHES AS SOLD BY FORMS AND SURFACES. SBTRO-72BA SURFACE MOUNT.

F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SSS WITH SATIN FINISH.

GENERAL NOTES

A. ALL DISTURBED LAWN AREAS TO BE SEEDED UNLESS OTHERWISE NOTED.

B. SEE SHEET C608 FOR ALL ALTERNATE LANDSCAPE PLAN

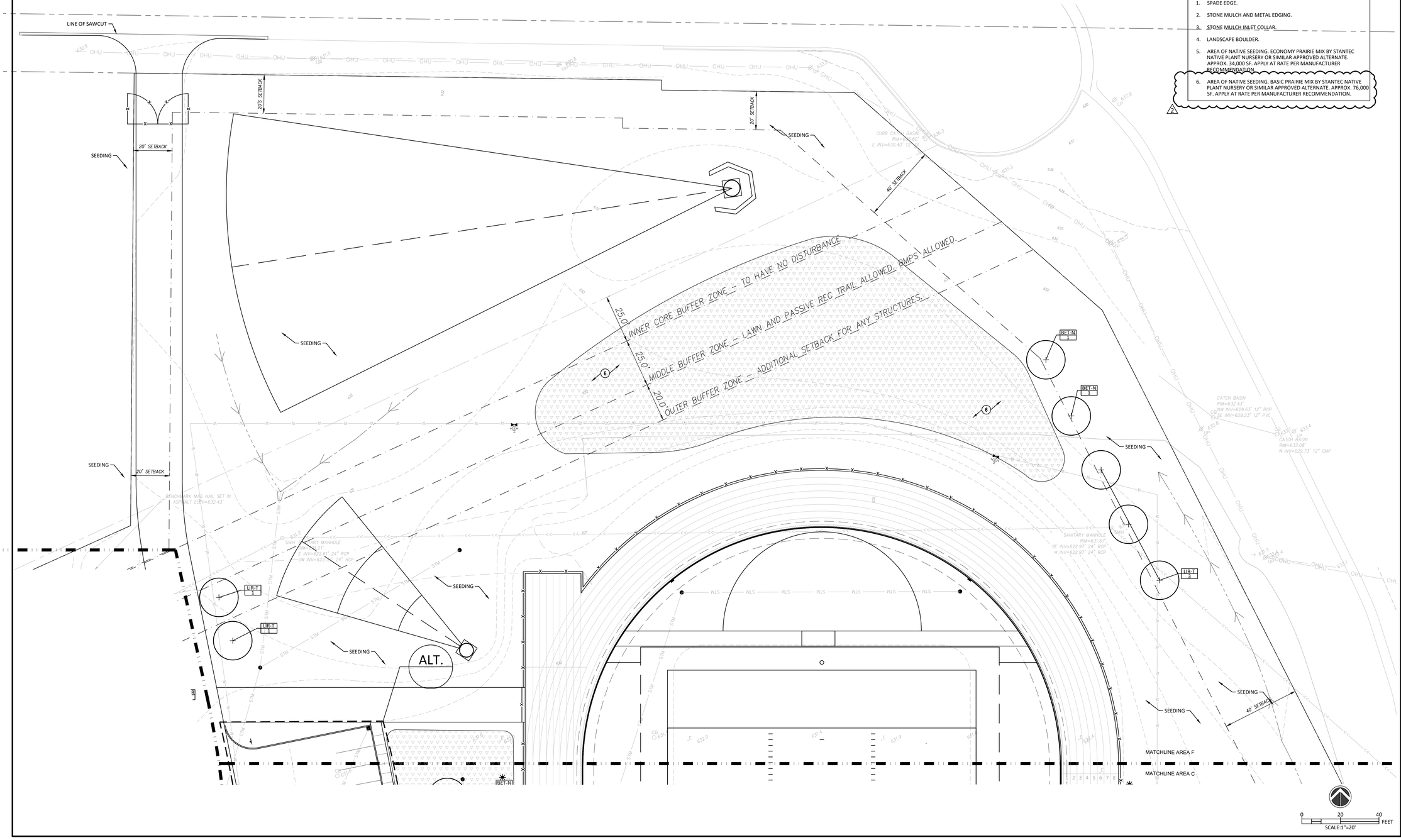
C. THE LANDSCAPE IRRIGATION SYSTEM DESIGN ON THIS PROJECT IS TO BE DELEGATED AS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS AND A CERTIFIED (SEALED WITH CID CERTIFICATION) IRRIGATION PLAN FOR REVIEW PRIOR TO CONSTRUCTION.THE IRRIGATION DESIGNER IS RESPONSIBLE FOR THE FOLLOWING:

- CONFIRM WITH THE OWNER IF THERE IS A SPRAY HEAD MANUFACTURER THAT IS PREFERRED
- WORK WITH THE WATER UTILITY COMPANY TO OBTAIN PRESSURE AND FLOW TEST DATA FOR THE WATER MAIN THAT WILL BE SUPPLYING THE IRRIGATION SYSTEM. IF THE IRRIGATION SYSTEM IS TO BE FED FROM A BUILDING WATER SUPPLY ON SITE, THEN COORDINATE WITH THE PLUMBING ENGINEER.
- COORDINATE THE LOCATION OF THE IRRIGATION CONTROLS WITH THE OWNER/ARCHITECT PRIOR TO SUBMITTING THE DESIGN.
- THE IRRIGATION SYSTEM SHALL COVER 100% OF THE LAWN AND PLANT BED AREAS (UNLESS LIMITS OF IRRIGATION ARE INDICATED) WITH NO OVER-SPRAY ONTO WALKS AND DRIVES
- ALL IRRIGATION PRODUCTS SHALL BE INSTALLED ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PERMITS THAT MAY BE NEEDED FOR THE WATER SOURCE MAIN TAP OR IRRIGATION INSTALLATION.

PLAN NOTES

1. SPADE EDGE.
2. STONE MULCH AND METAL EDGING.
3. STONE MULCH INLET COLLAR.
4. LANDSCAPE BOULDER.
5. AREA OF NATIVE SEEDING. ECONOMY PRAIRIE MIX BY STANTEC NATIVE PLANT NURSERY OR SIMILAR APPROVED ALTERNATE. APPROX. 34,000 SF. APPLY AT RATE PER MANUFACTURER RECOMMENDATION.
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2



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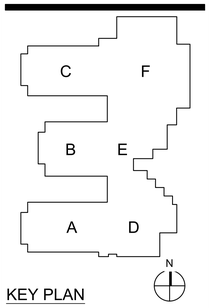
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KEY PLAN

CONSTRUCTION DOCUMENTS

REBECCA K. BRANCH REGISTERED No. LA21700009 STATE OF INDIANA 11/18/2025

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

SITE LANDSCAPE PLAN AREA-F

C606

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GENERAL NOTES

A. ALL DISTURBED LAWN AREAS TO BE SEEDED UNLESS OTHERWISE NOTED.

B. SEE SHEET C608 FOR ALL ALTERNATE LANDSCAPE PLAN

C. THE LANDSCAPE IRRIGATION SYSTEM DESIGN ON THIS PROJECT IS TO BE DELEGATED AS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS AND A CERTIFIED (SEALED WITH CID CERTIFICATION) IRRIGATION PLAN FOR REVIEW PRIOR TO CONSTRUCTION.THE IRRIGATION DESIGNER IS RESPONSIBLE FOR THE FOLLOWING:

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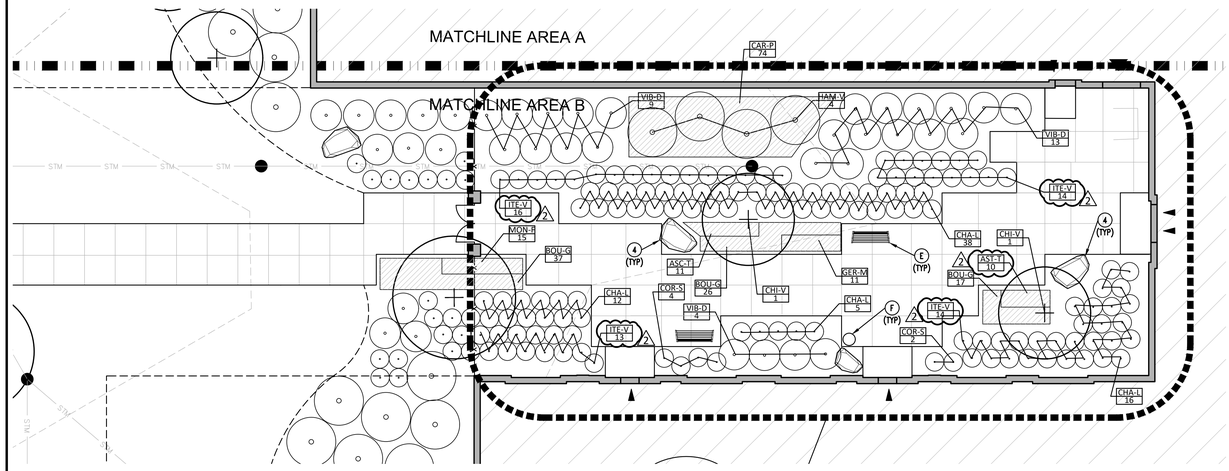
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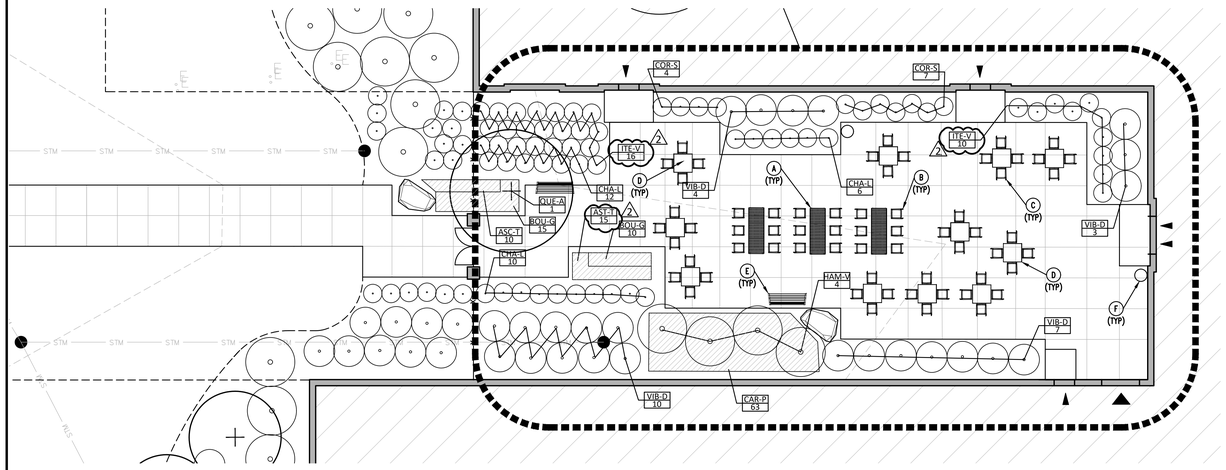
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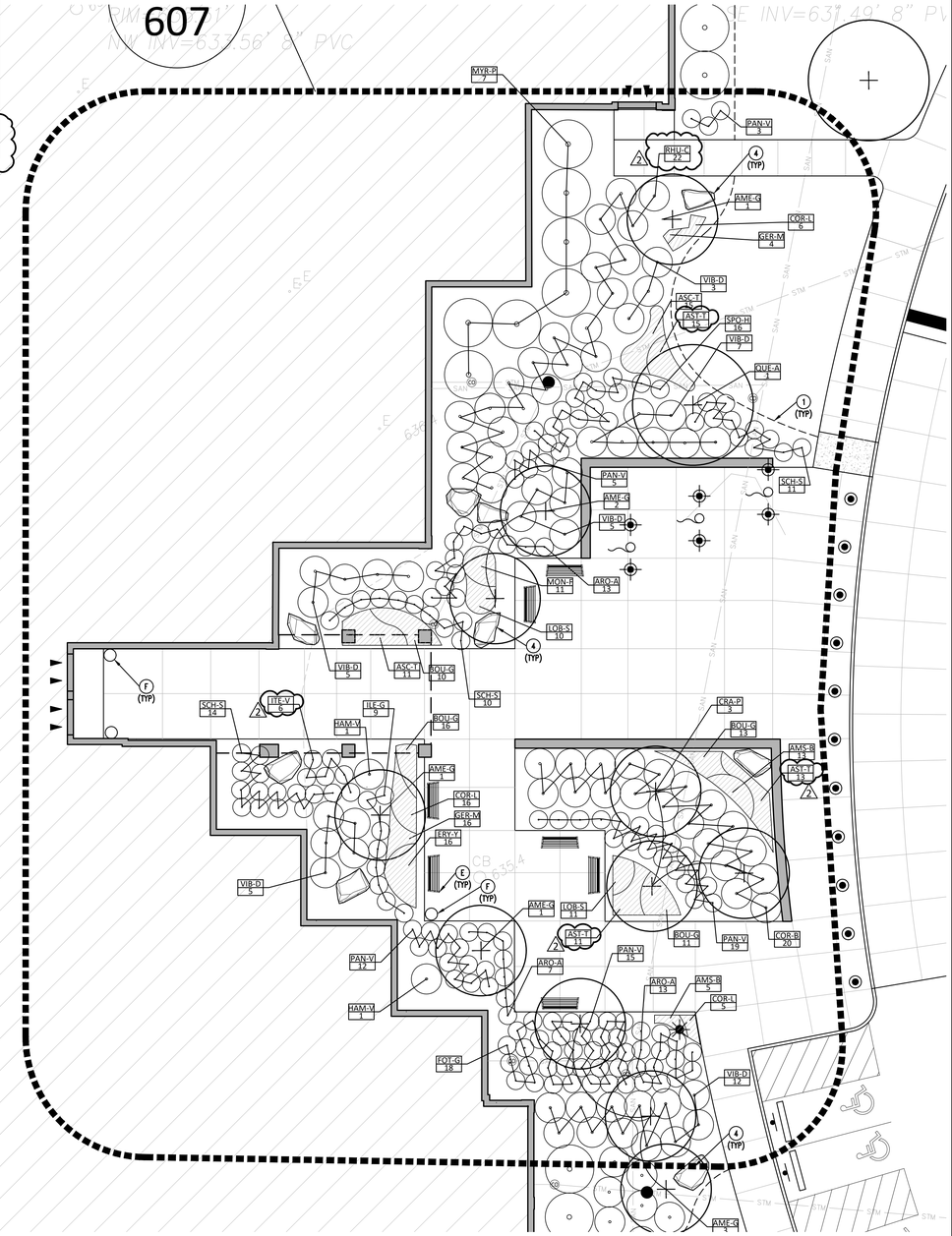
F. (18) UNIVERSAL LITTER AND RECYCLING RECEPTACLES AS SOLD BY FORMS AND SURFACES. SLUNN-30SSS WITH SATIN FINISH.



3 ENLARGEMENT
SCALE: 1"=10'



2 ENLARGEMENT
SCALE: 1"=10'



1 ENLARGEMENT
SCALE: 1"=10'

0 10 20 FEET
SCALE:1"=10'

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ARCHITECT

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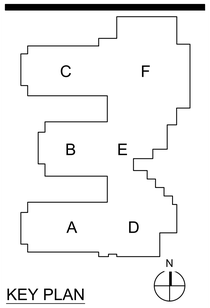
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CIVIL ENGINEER

LANDSCAPE ARCHITECT

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11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

REGISTERED LANDSCAPE ARCHITECT
REBECCA K. FRENCH
No. LA21700009
STATE OF INDIANA

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

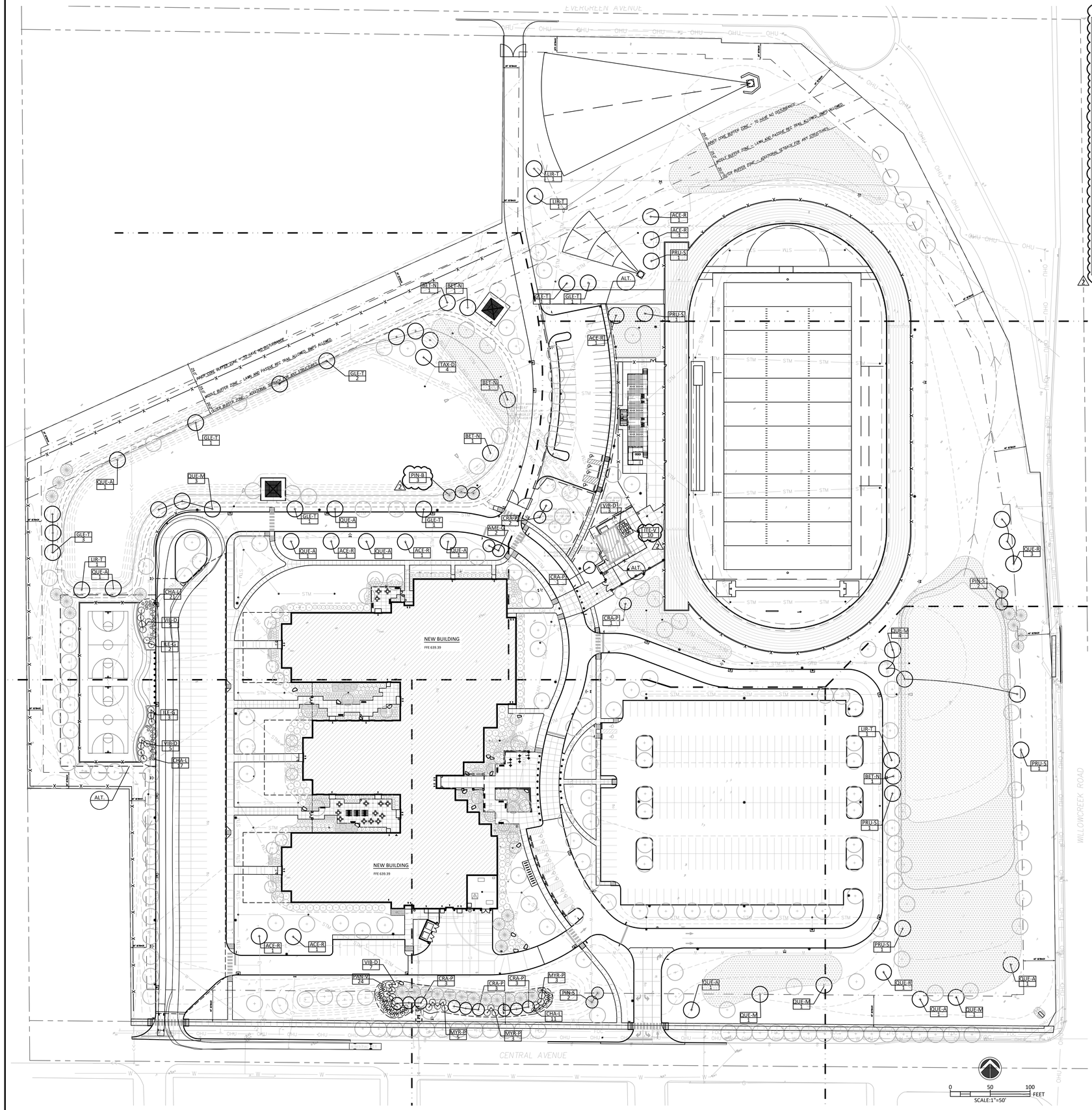
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

LANDSCAPE PLAN ENLARGEMENTS

C607

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ALTERNATE PLANT LIST

COUNT	MARK	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHADE TREES					
7	ACE-R	ACER RUBRUM	RED MAPLE	2 ½"-3" CAL.	B&B
5	BET-N	BETULA NIGRA 'CULLY'	HERITAGE BIRCH	12' HEIGHT	MULTI-STEM, B&B
11	GLE-T	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2 ½"-3" CAL.	B&B
4	LIR-T	LIRIODENDRON TULIPIFERA	TULIP TREE	2 ½"-3" CAL.	B&B
5	PRU-S	PRUNUS SEROTINA	BLACK CHERRY	2 ½"-3" CAL.	B&B
7	QUE-A	QUERCUS ALBA	WHITE OAK	2 ½"-3" CAL.	B&B
10	QUE-M	QUERCUS MACROCARPA	BUR OAK	2 ½"-3" CAL.	B&B
4	QUE-R	QUERCUS RUBRA	RED OAK	2 ½"-3" CAL.	B&B
4	TAX-D	TAXODIUM DISTICHUM	BALD CYPRESS	2 ½"-3" CAL.	B&B
ORNAMENTAL TREES					
2	AME-G	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	8' HEIGHT	MULTI-STEM, B&B
13	CRA-P	CRATAEGUS VIRDIS	GREEN HAWTHORN	1 ½"-2" CAL.	B&B
EVERGREEN TREE					
3	PIN-B	PINUS BANKSIANA	JACK PINE	8' HEIGHT	B&B
4	PIN-S	PINUS STROBUS	WHITE PINE	8' HEIGHT	B&B
EVERGREEN SHRUBS					
5	ILE-G	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	30"-36"	
11	MYR-P	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	30"-36"	
SHRUBS					
10	ITE-V	ITEA VIRGINICA 'SPRICH'	LITTLE HENRY ITEA	18"-24"	3' O.C.
13	VIB-D	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24"-30"	5' O.C.
GRASSES					
49	CHA-L	CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	#2 CONT.	3' O.C.

PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

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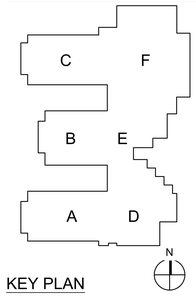
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KEY PLAN

CONSTRUCTION DOCUMENTS

REGISTERED No. LA21700009 STATE OF INDIANA REBECCA K. BEACH LANDSCAPE ARCHITECT

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 3	11-18-2025

ALTERNATE SITE LANDSCAPE PLAN

C608

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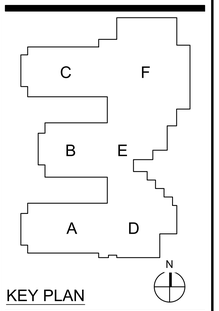
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KEY PLAN

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CITY OF PORTAGE DETAILS

C700

1 ½ " MILLING OF HMA TO NEAREST LANE OR EDGE OF ROAD IN TRANSVERSE DIRECTION, AND 2 FT. PAST TRENCH CUT IN BOTH DIRECTIONS LONGITUDINALLY

12" (TYP.)

PAVEMENT

PAVEMENT / LAWN OR FIELD

4" IMPORTED TOP SOIL

FINISHED GRADE

FLEXIBLE PIPE/RIGID PIPE COMPACTED # 53 AGGREGATE

FINAL BACKFILL

UNDISTURBED SOIL

FLEXIBLE/RIGID PIPE COMPACTED SOIL

12"

COMPACTED EMBEDMENT MATERIAL SHALL BE #53 AGGREGATE COMPACTED TO 95% MOD. PROCTOR

NO SLAG SHALL BE USED FOR BEDDING

INITIAL BACKFILL SPRING LINE HAUNCHING

BEDDING

4" OF #8 OR #53 STONE, NO SLAG ALLOWED

FOUNDATION (AS NEEDED)

D/3 D D/3

*FINAL BACKFILL BENEATH ALL PAVEMENT CUTS SHALL BE COMPACTED #53 AGGREGATE TO 95% MOD. PROCTOR.

PIPE BEDDING DETAIL
NOT TO SCALE

℄

70' COLLECTOR STREET
50' LOCAL STREET

35' COLLECTOR STREET
30' LOCAL STREET

15' UNDERGROUND UTILITY EASEMENT

RIGHT-OF-WAY

COLLECTOR/LOCAL STREET:
165#/SQ YD WEARING SURFACE
330#/SQ YD INTERMEDIATE COURSE
1320#/SQ YD #53 COMPACTED AGGREGATE OVER WOVEN GEOFABRIC APPROVED BY ENGINEER

JOINT ADHESIVE**

SLOPE: 1/4"/FT.

TYPICAL CROSS SECTION
NOT TO SCALE

** JOINT ADHESIVE SHALL BE APPLIED IN ACCORDANCE WITH INDOT TECHNICAL SECTION 401.15
APPLICATION RATE: RPE= 0.15 ±0.01 GAL./SQ YD

ASPHALT AS SPECIFIED

#4 BARS CONTINUOUS

16"R

6-1/2"

8-3/4"

11-3/4"

FINAL GRADE

COMPACTED AGGREGATE TO MEET ROAD SPECIFICATIONS TO EXTEND UNDER CURB, INCLUDING GEOFABRIC

COMPACTED SUBGRADE

6" 12" 6"

2'-0"

TYPICAL FOR RESIDENTIAL APPLICATIONS
* TRANSVERSE CONSTRUCTION JOINTS 20' ON CENTER.
* WHEN CURBS ARE MACHINE PLACED A STABLE ROADBED IS REQUIRED. MAXIMUM VERTICAL TRACK DEFLECTION DURING POUR SHALL BE LESS THAN 1/4 INCH.
* CURB SECTION SHALL BE A MONOLITHIC POUR.

ROLLED CURB & GUTTER DETAIL
NOT TO SCALE

24" MAX

12" MIN. (TYP.) ON ALL SIDES

EXISTING FULL DEPTH PAVEMENT

CONCRETE – CAST IN PLACE 10-INCH MINIMUM THICKNESS

VARIES

INDOT No. 8's FOR HOLES LARGER THAN 10-INCHES IN DIAMETER. FLOWABLE FILL IS REQUIRED FOR HOLES LESS THAN 10-INCHES.

PIPE

POTHOLING SHALL BE COMPLETED IN ACCORDANCE WITH THE NOTES SECTION ON SHEET 2 OF THE STANDARD DETAILS

POT HOLE PATCHING DETAIL
NOT TO SCALE

1/4" WIDE GROOVES AT A DISTANCE EQUAL TO THE WIDTH

EXPANSION JOINT

UNDISTURBED SOIL

4" OF COMPACTED B-BORROW

4" THICK CONCRETE FOR STANDARD SIDEWALKS
6" THICK CONCRETE FOR DRIVE CROSSINGS AND APRONS
7" THICK CONCRETE FOR ALLEY CROSSINGS AND APRONS
INSTALL 6"x6" MESH OR 10/10 FIBER REINFORCED CONCRETE AT ALLEYS AND DRIVES

ALL SIDEWALKS SHALL BE 5' WIDE MINIMUM UNLESS OTHERWISE DIRECTED BY CITY

EXPANSION JOINTS SHALL BE PLACED AT 30-FOOT INTERVALS, BETWEEN SIDEWALKS AND ABUTTING STRUCTURES, APRONS AND CURB.

SIDEWALK DETAIL
NOT TO SCALE

ASPHALT AS SPECIFIED

#4 BARS CONTINUOUS

1'R

6"

2'-3/4"

FINAL GRADE

COMPACTED AGGREGATE TO MEET ROAD SPECIFICATIONS TO EXTEND UNDER CURB, INCLUDING GEOFABRIC

COMPACTED SUBGRADE

6" 12" 6"

2'-0"

TYPICAL FOR COMMERCIAL APPLICATIONS
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* CURB SECTION SHALL BE A MONOLITHIC POUR.
* DEPRESS CURB FOR DRIVEWAYS 1-1/2" TO 2" CURB HEIGHT.

6"x6" CONCRETE CURB & GUTTER DETAIL
NOT TO SCALE

3' -6" FROM BLDG.

FINAL GRADE

PROVIDE CAST-IRON "HEAVY DUTY - TRUCK RATED" CLEAN-OUT CASTING, EAST JORDAN 1578 OR APPROVED EQUAL, FLUSH WITH FINISHED SURFACE STAMPED "SANITARY"

PROVIDE CONCRETE COLLAR (INDOT CLASS A)

SCREW-IN SPIGOT AND PLUG FLUSH WITH GROUND SURFACE

TRACER WIRE TO MAIN

45° ELBOW

Pipe

SERVICE WYE FITTING

SEWER SERVICE LINE

5/8 IRON ROD. WRAP WIRE AROUND

IN GRASSED AREAS

SANITARY SEWER CLEAN-OUT DETAIL
NOT TO SCALE

9'-0" MAX. TO GROUND SURFACE

FINAL GRADE

TRENCH WALL

6" MIN.

SIZE 12 COPPER TRACER WIRE COATED

45° BEND

1% MINIMUM SLOPE ON 6" SERVICE LINES

6" SDR 35 PVC MINIMUM SANITARY SERVICE

MAX. SLOPE (SLOPE TO BE LESS THAN 1:1 WHEN NECESSARY TO SECURE BEDDING IN UNDISTURBED EARTH)

FACTORY STANDARD TEE – BARREL SIZE TO BE AS CALLED FOR ON THE PLANS OR AS OTHERWISE SPECIFIED

BEDDING

6" MIN.

D

4" MIN.

SEWER PIPE TO 5' INSIDE PROPERTY LINE.
MIN. SLOPE = 1.0%, MAX SLOPE = 33.0%

SANITARY SEWER SERVICE LATERAL
NOT TO SCALE

BEEHIVE GRATE EAST JORDAN TYPE 1205 OR APPROVED EQUAL

INSTALL WATER TIGHT BOOT OR GASKET

2' OR 3' PRECAST CONCRETE STRUCTURE

2'

12" MIN. SDR 35 PVC OR 6" DIA PVC PERF PIPE WHERE APPLICABLE FOR FRENCH DRAINS

6" OF COMPACTED INDOT #53 LIMESTONE AGGREGATE

YARD INLET
NOT TO SCALE

GEOTEXTILE FABRIC SAND BARRIER (OR AN APPROVED EQUIVALENT)

COMPACTED STONE

6"ø PERFORATED PLASTIC; SLOPE WITH PAVT AND DRAIN INTO STORM INLETS OR DRAINS AS REQ'D

SEE SPECIFICATIONS ON PAGE 2

4"

#8 WASHED SEPTIC STONE

SECTION UNDER DRAIN
NOT TO SCALE

SIDEWALK TO BUILDING (WHERE SPECIFIED)

INSTALL ½" EXPANSION JOINT WITH ELASTOMERIC FILLER

6' SIDEWALK (INDOT Class "A" Concrete)

CROSS SLOPE 2% (max.)

CONTROL JOINT

6"

2" RADIUS

6" EXPOSURE, BROOMED FINISH

5"

FINISHED PAVEMENT (SEE GRADING PLAN)

18"

COMPACTED GRANULAR SUBGRADE

6" COMPACTED INDOT #53 AGGREGATE UNDER SIDEWALK

7 1/2"

TYPICAL INTEGRAL CURB/SIDEWALK SECTION DETAIL
NOT TO SCALE

WATERTIGHT GASKET (TYP.)

PREFORMED CHANNEL AND BENCH

SANITARY PLAN SECTION

SELF SEALING LIDS FOR SANITARY WITH "SANITARY" OR "STORM" STAMPED ON THE LID. IN STREET RIGHT-OF-WAY, USE EAST JORDAN 1020. BEYOND STREET RIGHT-OF-WAY, USE EAST JORDAN 1490 R APPROVED EQUAL.

INSTALL EXTERIOR JOINT INFILTRATION PROTECTION ON RISER RINGS AND CASTING ON SANITARY – CANUSA or APPROVED EQUAL

ASTM C478 PRE-CAST CONC. MANHOLE SECTION. REPLACE CONE WITH FLAT TOP WHEN DEPTH IS 5'-6" OR LESS

FINAL GRADE

12" MAXIMUM

4' STANDARD DIAMETER (LARGER AS REQUIRED)

FIBERGLASS STEPS 16" O.C. (typ.)

INSTALL WATER TIGHT BOOT OR GASKET

TEE

CAP

PROPOSED SEWER

SPACER

STAINLESS STEEL SUPPORT BRACKETS

INSTALL EXTERIOR JOINT INFILTRATION PROTECTION ON RISER RINGS AND CASTING ON SANITARY – CANUSA or APPROVED EQUAL (SANITARY ONLY)

POURED/PRECAST CONCRETE FILLET AND BENCH REQD. ON SANITARY MANHOLES

MANHOLES SHALL BE PROVIDED WITH WATER TIGHT GASKET/BOOT. A-LOK OR APPROVED EQUAL.

24" MAX

INTEGRAL MANHOLE BASE

6" OF COMPACTED INDOT #53 LIMESTONE AGGREGATE NO SLAG

* CASTING SHALL BE INSTALLED FLUSH WITH THE INTER-MEDIATE COURSE OF ASPHALT ADJUSTING RINGS SHALL BE INSTALLED BY DEVELOPER PRIOR TO INSTALLING SURFACE COURSE OF ASPHALT.

INSIDE DROP MANHOLE CONNECTION – TYPE DMH DETAIL
NOT TO SCALE

SELF SEALING LIDS FOR SANITARY WITH "SANITARY" OR "STORM" STAMPED ON THE LID. IN STREET RIGHT-OF-WAY, USE EAST JORDAN 1020. BEYOND STREET RIGHT-OF-WAY, USE EAST JORDAN 1490 OR APPROVED EQUAL.

FINAL GRADE

12" MAXIMUM

INSTALL EXTERIOR JOINT INFILTRATION PROTECTION ON RISER RINGS AND CASTING ON SANITARY – CANUSA or APPROVED EQUAL

FIBERGLASS STEPS 16" O.C. (typ.)

VARIES

4'-0" MINIMUM

* CASTING SHALL BE INSTALLED FLUSH WITH THE INTER-MEDIATE COURSE OF ASPHALT ADJUSTING RINGS SHALL BE INSTALLED BY DEVELOPER PRIOR TO INSTALLING SURFACE COURSE OF ASPHALT.

SANITARY & STORM MANHOLE– TYPE MH DETAIL
NOT TO SCALE

CONCRETE APRON

EAST JORDAN 7000 M1 GRATE T4 BACK *WHEN CATCH BASIN IS NOT AN INLET, USE EAST JORDAN 1020 SOLID LID

SET RIM 0.05' BELOW FINISHED ASPHALT GRADE

ROAD

12" MAXIMUM

#4 REBAR PINNED EACH SIDE

FLAT TOP SECTION

6" DIA. UNDERDRAIN (IF REQUIRED)

INSTALL WATER TIGHT BOOT OR GASKET

Ø24" CATCH BASIN

VARIES

ASTM C478 PRECAST CONCRETE MANHOLE

4'-0"

2'-0"

INTEGRAL BOTTOM

6" OF COMPACTED INDOT #53 LIMESTONE AGGREGATE NO SLAG

CATCH BASIN DETAIL
NOT TO SCALE

EAST JORDAN 7000 M1 GRATE T4 BACK *WHEN CATCH BASIN IS NOT AN INLET, USE EAST JORDAN 1020 SOLID LID

CONCRETE APRON

6"

3 RINGS MAX.

#4 REBAR PINNED EACH SIDE

6" DIA. UNDERDRAIN (IF REQUIRED)

INSTALL WATER TIGHT BOOT OR GASKET

2'

VARIES

6" OF COMPACTED INDOT #53 LIMESTONE AGGREGATE

PRECAST STRUCTURE

GUTTER INLET DETAIL
NOT TO SCALE

6"

1/2" RADIUS

1/4" RADIUS

#4 BARS CONTINUOUS

ASPHALT AS SPECIFIED

6"

1'-6"

TYPICAL FOR COMMERCIAL APPLICATIONS
* PROVIDE EXPANSION JOINTS AT 20' O.C. MAX. AND AT CURVES, TANGENTS AND CORNERS.
* BASE OF CURB TO REST ON COMPACTED #53 AGGREGATE.
* RUN BARS CONTINUOUS THRU EXPANSION JOINTS.

STRAIGHT CURB DETAIL
NOT TO SCALE

12"

24"

6"

1/4" : 1' Slope

3"

6"

4,000 PSI CONCRETE

#4 DOWEL LOCATION (TYPICAL)

#53 LIMESTONE COMPACTED AGGREGATE

RIBBON CURB DETAIL
NOT TO SCALE

* CURB SHALL BE 24" WIDE FOR USE ON PUBLIC STREETS TO MATCH TYPICAL CITY CURB STANDARDS

WARP CONCRETE ON EACH SIDE 1:10 MAX SLOPE

DETECTABLE WARNING SURFACE

3' TAPER

SIDEWALK WIDTH SEE SITE PLAN

3' TAPER

INSTALL ½" EXPANSION JOINT WITH ELASTOMERIC FILLER

DETECTABLE WARNING ELEMENTS

REMOVABLE DETECTABLE WARNING PANEL

INTEGRAL CURB

SIDEWALK

SLOPE 12:1 (MAX.)

6"

20"

CONCRETE BASE

ADA PANELS SHALL BE THE REMOVABLE CAST IN PLACE TYPE. COLOR SHALL BE BRICK RED UNLESS OTHERWISE APPROVED. PANELS SHALL BE INSTALLED FOLLOWING CURVED CURB LINE WHERE INDICATED.

TYPICAL ADA DETECTABLE WARNING SURFACES DETAIL
NOT TO SCALE



REVISED OCTOBER 24, 2025

CITY OF PORTAGE, INDIANA
STANDARD DETAILS
PAGE 1 OF 2

6070 CENTRAL AVENUE
PORTAGE, INDIANA 46368
PHONE: 219-762-4204
FAX: 219-764-5749

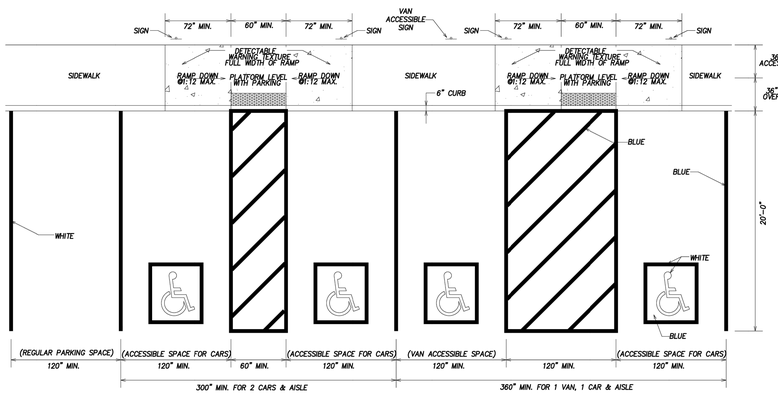
APPROVED BY THE PORTAGE SANITARY BOARD
NOVEMBER 13, 2025

APPROVED BY THE PORTAGE STORMWATER MANAGEMENT BOARD
NOVEMBER 13, 2025

APPROVED BY THE PORTAGE BOARD OF PUBLIC WORKS AND SAFETY
OCTOBER 28, 2025

CITY OF Portage INDIANA

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C700.dwg November 14, 2025 - 2:55 PM TJones

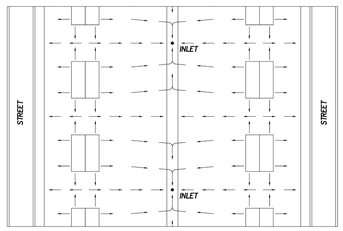


* 48" MINIMUM TO THE BOTTOM OF THE SIGN

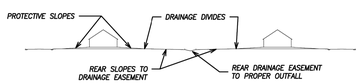
* SIGN TO BE INSTALLED AS CLOSE TO THE CENTER OF THE PARKING SPACE AS POSSIBLE

TYPICAL DETAIL FOR ACCESSIBLE PARKING SPACES

NOT TO SCALE

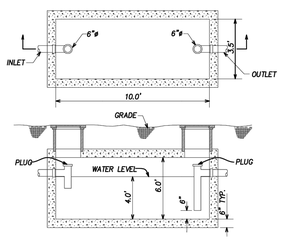


* THIS DRAWING DOES NOT CONSIDER ALL LAYOUTS.
INLETS SHALL BE SPACED SO THAT EACH PROPERTY HAS ACCESS TO AN INLET



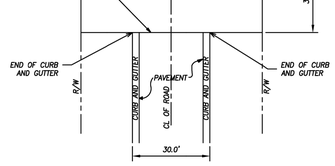
GRADING PLAN

NOT TO SCALE



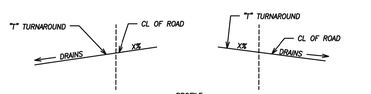
GREASE INTERCEPTOR (1000 GAL)

NOT TO SCALE

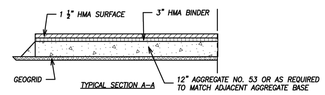


PLAN

NOTE:
1. T TURNAROUND PAVEMENT THICKNESS IS TO BE IDENTICAL TO ADJACENT PAVEMENT.
2. T TURNAROUNDS ARE TO BE PROVIDED FOR TEMPORARY USE ONLY AND MUST BE APPROVED BY THE ENGINEER.
3. NO INLETS SHALL BE PROVIDED IN THE "HAMMER HEAD" AREA.
4. PROFILE GRADE SHALL MATCH ROADWAY PROFILES AS SHOWN BELOW.



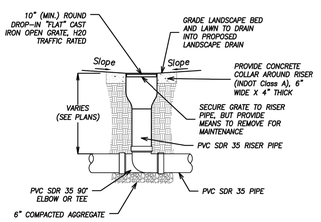
PROFILE



TYPICAL SECTION A–A

TEMPORARY "T" TURNAROUND

NOT TO SCALE



TYPICAL LANDSCAPE DRAIN DETAIL

NOT TO SCALE

Section 1: Sanitary Sewers

1.1 General
1. *The design and installation of sanitary sewer systems shall be in accordance with the Recommended Standards for Wastewater Facilities (10 State Standards), Indiana Department of Environmental Management construction permit, Indiana Administrative Code (327 IAC 3) and the Portage Water Reclamation Department Standard Details.*

1.2 Materials
1. *Gravity Sewers*
   a. *Gravity sewers 15" diameter or less shall be rigid bell and spigot, SDR 35 PVC manufactured in accordance with ASTM D3034, Standard Specifications for PVC Sewer Pipe Fittings. Sanitary Sewers installed deeper than 12 feet shall be SDR 26 PVC. Gravity sewers greater than 15" diameter shall be manufactured in accordance with ASTM F679–95, T–1.*
2. *Force Mains*
   a. *Force mains shall be ductile iron, Pressure Class 250 or greater and manufactured in accordance with ANSI/AWWA C151 Ductile Iron Pipe, Centrifugally Cast, for Water and Other Liquids. Fittings shall be ductile iron and be mechanically restrained.*
3. *Manholes*
   a. *Manholes shall be constructed of pre–cast concrete sections in accordance with ASTM C478, Standard Specification for Pre–cast Reinforced Concrete Manhole Sections.*
   b. *Manholes shall have a minimum diameter of 48–inches.*
   c. *Manholes shall have integral bench and channels*
   d. *Manholes shall have water tight (gasketed or booted) pipe connections.*

1.3 Installation
1. *Gravity Sewers*
   a. *Gravity sewers shall have a minimum cover of at least 48–inches measured from the top of the pipe to the proposed finish grade.*
   b. *Gravity sewers shall be designed and constructed, when flowing full, with slopes that result in average flow velocities of not less than two (2) feet per second. Oversized sewers shall not be approved to justify using decreased slopes.*
   c. *Anchors shall be placed where necessary to protect against damage from impact and erosion.*
   d. *Continuous and uniform bedding shall be provided in the trench along the entire length of the pipe. Pipe shall not be installed deeper than one (1) foot below the static water level. Dewatering shall be required for soils with higher static water levels. Bedding and back fill shall be per the attached pipe bedding detail.*
2. *Force Mains*
   a. *Force mains shall be installed in accordance with AWWA standard C600 Installation of Ductile Iron Water Mains and Their Appurtenances.*
   b. *Air relief valves or other air/vacuum relief devices shall be installed at every intermediate apex point where air may accumulate in the force main.*
   c. *Force mains shall be restrained. Restraint shall be designed by a licensed professional engineer. Pipe restraints shall be mechanical.*
3. *Manholes*
   a. *Inlet or outlet pipes shall be joined to the manhole with a gasketed, flexible watertight connection.*
   b. *Manhole covers shall be watertight with concealed pick holes and marked "SANITARY".*
   c. *Manholes shall not be located more than 300 feet apart.*
   d. *Manholes shall be placed in the street.*
   e. *Manholes shall be placed at all end points of sanitary sewers, changes in pipe sizes and changes in pipe alignments.*
   f. *A drop pipe shall be provided for a sewer entering a manhole at an elevation of 24–inches or more above the manhole invert.*
4. *Service Laterals*
   a. *Service laterals shall be at least 6–inches in diameter.*
   b. *Clean–outs shall be placed at the house foundation and at intervals not exceeding 150 feet.*
   c. *Tracer wires shall be attached to the service.*
   d. *Connections to an existing sanitary sewer manhole shall be core–drilled. The connection shall be made using a watertight flexible connection.*
   e. *New construction requires that factory tees are installed for service connections during construction of the mainline sewer.*

1.4 Deflection and Leakage Testing
1. *Gravity Sewers*
   a. *A deflection test shall be performed on each flexible pipe following the elapse of thirty (30) days after the placement of the final back fill.*
      i. *No pipe shall exceed a deflection of five percent (5%) or greater.*
      ii. *The diameter of the rigid ball or mandrel used for a deflection test shall be no less than 95% of the base inside diameter of the pipe to be tested. The test shall not be performed with the aid of a mechanical pulling device and shall be witnessed by a City Representative.*
   b. *All gravity pipe shall be tested using either a hydrostatic test or low pressure air test.*
      i. *Hydrostatic tests shall be performed with a minimum of two (2) feet of positive head. The rate of exfiltration shall not exceed 200 gallons per inch of pipe diameter per linear mile per day.*
      ii. *Air tests shall conform to ASTM F1417, Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low Pressure Air.*
2. *Force Mains*
   a. *Force mains shall be pressure and leak tested in accordance with AWWA standard C600, AWWA Standard for Installation of Ductile–Iron Water Mains and Their Appurtenances.*
3. *Manholes*
   a. *Manholes shall be air tested in accordance with ASTM C1244, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.*
4. *A designated Portage Utility Service Department employee shall witness all leakage and deflection tests. At least 24 hours notice shall be required. Video tapes or digital video files shall be submitted to the Portage Utility Service Department and Portage Field Forces for review and approval.*

1.5 Separation of Sanitary Sewers from Water Mains
1. *Sanitary sewers shall not be located within ten (10) feet of any existing or proposed water mains, when measured horizontally from the outside edge of the sanitary sewer to the outside edge of any existing and proposed water mains.*
2. *If the sanitary sewers and water mains must cross, the sanitary sewers and water mains must be separated by a minimum of 18–inches as measured vertically from the outside edge of the sanitary sewer to the outside edge of the water main for a distance of at least ten (10) feet.*
3. *No manhole shall be placed within eight (8) feet of a water main as measured from the outside edge of the manhole to the outside edge of the water main.*

Section 2: Storm Sewers

2.1 General
1. *Drainage systems shall be designed to conform to the guidelines set forth in Stormwater Technical Guide.*

2.2 Materials
1. *Storm sewer pipe placed within the influence of the road (45° angle from the back of curb).*
   a. *Reinforced concrete manufactured in accordance with ASTM C–76.*
2. *Alternate storm sewer pipe when not placed under pavement or curbs.*
   a. *Reinforced concrete manufactured in accordance with ASTM C–76.*
   b. *High Density Polyethylene (HDPE) manufactured in accordance with AASHTO M294 type S with an elastomeric rubber seal meeting ASTM F477.*
   c. *Other materials approved by the City Engineer.*
3. *Manholes*
   a. *Manholes shall be constructed of pre–cast concrete sections in accordance with ASTM C478, Standard Specification for Pre–cast Reinforced Concrete Manhole Sections. Manhole lids shall be stamped "STORM". Manhole to pipe connections shall be gasketed.*

2.3 Installation
1. *Continuous and uniform bedding shall be provided in the trench along the entire length of the pipe. Pipe shall not be installed deeper than one (1) foot below the static water level. Dewatering shall be required for soils with higher static water levels. Hand dig bell holes.*
2. *The pipe shall be installed per the attached detail.*
3. *The minimum diameter of storm sewers shall be 12–inches.*
4. *Storm sewers shall be designed and constructed, when flowing full, with slopes that result in average flow velocities of not less than two (2) feet per second.*

2.4 Lot Drainage
1. *Lots shall be sloped as to drain surface water away from the house and into common swales and to the rear yard drains.*
2. *Lots shall be graded to comply with IRC R401.3 – grade away from the foundation walls and shall fall a minimum of 6–inches within the first 10–feet.*
3. *Developer shall install rear yard drains and final grade, vegetate and protect the rear yard drainage easements prior to the final acceptance of the infrastructure by the City of Portage Board of Public Works and Safety.*
4. *Rear yard inlets shall be spaced so that every lot has direct access to an inlet.*

2.5 Erosion Control
1. *Erosion control measures shall conform to the Indiana Stormwater Quality Manual and the Indiana Construction Stormwater General Permit (CSGP). Areas where over 1 acre of land is disturbed, must complete a Storm Water Pollution Prevention Plan. The plan must be inspected by developer throughout construction.*
2. *Land alterations, including regrading, which strip the land of vegetation, shall be accomplished in a manner that minimizes erosion or the addition of sediments to natural and manmade drainage ways. This will reduce the impact on adjacent properties and water quality of receiving water. Whenever feasible, natural vegetation shall be retained, protected and supplemented.*
3. *Sediment controls should be installed whenever runoff from disturbed portions of the parcel will leave the parcel. Sediment controls may include vegetative buffer strips, filter barriers, sediment basins, debris basins or silt traps.*
4. *Any flow from a disturbed parcel should pass through a filter barrier or sediment basin before entering a storm drain inlet.*
5. *Gravel construction entrances are to be installed prior to the beginning construction. Access to the project is restricted to this drive.*

Section 3: Roadways

3.1 General
1. *All asphalt materials shall be manufactured in an INDOT certified HMA plant in accordance with ITM 583. All materials and construction shall comply with the latest edition of the INDOT Standard Specifications.*
2. *Developers and Contractors are directed to the City of Portage Municipal Code for roadway design criteria.*
3. *Subgrade*
   a. *The pavement subgrade shall consist of undisturbed in–situ soils which are adequately drained, contain no sort of yielding soils, have not been disturbed by the movement of heavy equipment and contain no improperly filled holes or trenches.*
   b. *The subgrade shall be compacted to 95% dry density and shall be roll tested using a fully loaded tri–axel or semi–trailer. The City Engineer shall approve the subgrade prior to the installation of the subbase.*
4. *Subbase*
   a. *Shall be Indiana #53 compacted aggregate.*
   b. *Subbase being placed on nongranular subgrade shall be placed on a geotabric material approved by the City Engineer prior to it's placement.*
   c. *The subbase shall be roll tested using a fully loaded tri–axel or semi–trailer. The City Engineer shall approve the subgrade prior to the installation of the subbase.*
   d. *In lieu of placing the standard pavement section, soil tests may be taken by an approved Geotechnical Engineer and pavement sections may be designed specifically for that location. The Geotechnical Engineer shall certify the pavement design and certify that it was installed to his requirements prior to acceptance by the City of Portage Board of Public Works and Safety.*
5. *Asphalt Pavements*
   a. *Shall be of the thickness specified in the Standard Details.*
   b. *Shall not be placed on frozen subbase.*
   c. *Asphalt binder shall not be placed when the temperature is expected to be below 32 degrees.*
   d. *Asphalt surface shall not be placed when the temperature is expected to be below 45 degrees.*
   e. *Tack coat shall be placed if the binder course has been driven on.*
6. *Binder Course*
   a. *Binder course shall be placed level with the rim of the casting. Prior to placement of surface course an adjusting ring shall be placed to raise structure to final grade.*
7. *Chemically Stabilized Roads*
   a. *Are only allowed if authorized by the City Engineer. Chemically stabilized roads should be installed to City Sandards without a reduction in aggregate asphalt thickness.*

or

8. *Perforated Under Drain*
   a. *Shall be installed as shown on detail "SECTION UNDER DRAIN"*
   b. *Under Drain shall be installed 50' on either side of an inlet in a road sag.*
   c. *Ends shall be cored into catch basin or inlet. The other end shall be capped.*
   d. *Drains shall be installed with geotextiles as shown.*
   e. *Curb Drains are required for all curbed roads including stabilized roads.*

Section 4: Governing Specifications

4.1 General
1. *Unless otherwise provided by specifications of a specific project, the latest revision of the following documents shall apply to all work performed and material specified for use in all improvements:*
   a. *Indiana Department of Transportation Standard Specifications that is the current revision at time of construction.*
   b. *City of Portage Municipal Code*
   c. *City of Portage Ordinance 92–S – Drainage Ordinance*
   d. *Great Lakes – Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers*
   e. *327 IAC Article 3. Wastewater Treatment Facilities; Issuance of Permits; Construction and Permit Requirements*
   f. *American Water Works Association*
   g. *American Society of Testing and Materials*
   h. *Indiana Storm Water Quality Manual*
   i. *ADDAG – Americans with Disabilities Act (ADA) Accessibility Guidelines*
   j. *PROWAG – Public Rights–of–Way Accessibility Guidelines*

Section 5: Lighting

5.1 General Requirements
1. *The design and installation of lighting systems shall be in accordance using AASHTO's Informational Guide to Roadway Lighting. All installation of all lighting system appurtenances shall be in accordance with Section 807 of the INDOT Standard Specifications Manual. Lighting plans shall be approved by the Board of Works and shall be warranted for 2 years. In addition, the design shall meet the following criteria:*
   a. *Foundations shall meet the requirements of the Indiana Department of Transportation (INDOT), be certified by an Indiana Licensed professional engineer, be made of reinforced concrete and include grounding.*
   b. *Wires are to be placed in conduit in 1 ¼" minimum conduit and be installed at a minimum of 2 feet deep.*
   c. *Grounding wire shall be placed in conduit in the foundation*
   d. *All wires shall be minimum #4 XHHW*
   e. *Lighting services shall be either INDOT Type I or Type II depending on application. Type I services shall be installed in a "C" type cabinet with pedestal, cast base and INDOT foundation. Type II services shall be installed in an "M" type cabinet and mounted on an INDOT foundation. The cabinet shall be sized to account for future expansion of the lighting system.*
   f. *Street light handholes shall be placed as needed. Castings shall be marked appropriately.*
   g. *Photoeye control shall be placed atop the street light pole closest to the lighting control cabinet, not in the cabinet itself. Spare wire shall be installed between control panel and photo cell.*
   h. *The lighting service disconnect shall be installed at the NIPSCO transformer location.*
   i. *Street light poles shall be be 30–feet in height and shall be made of aluminum. Wood poles acceptable where approved by Public Works.*
   j. *Poles shall be leveled and plumbed with leveling nuts.*
   k. *Design plans shall be submitted to the Department of Planning and Community Development for approval. Installation shall not take place prior to approval.*
   l. *As–built drawings are to be provided after placement.*
   m. *NIPSCO shall be contacted to determine the cost per year of the fixture.*
   n. *Staggered locations are preferred. Spacing shall be as consistent as possible while making arrangements for drive cuts.*

Street Lighting to meet NIPSCO specification or a City approved NIPSCO replacement model.

Luminaries shall be LED and meet the NIPSCO and City of Portage approved manufacturer's list on sheet.

Street light Luminaire brackets shall be 2'6" to 25' depending on application. Brackets shall be an aluminum alloy. Brackets shall be Class D for 6' to 8' length rating assuming 80 mph winds increased by 1.25 gust factor. City of Portage requires at least a 6' or 8' bracket on most streets. Bracket shall be in Accordance with NIPSCO typical models and specifications.

Cabinets shall be INDOT type M or G as indicated.

Referenced Typical Indiana Department of Transportation Details – Current Revision – https://www.in.gov/dot/div/contracts/standards/drawings/

Standard Drawing: *No. E 807–LTWR–01 – Lighting Wiring Details*
No. E 807–LTWR–02 – Lighting Wiring Details
No. E 807–LTWR–03 – Lighting Wiring Details
No. E 807–LTSP–03 – Light Service Point Details
No. E 807–LTSP–04 – Light Service Point Details
No. E 807–LTSP–04 – Light Service Point Details
No. E 805–SGCF–02 – Controller Cabinet Foundation Type M
No. E 805–SGCF–03 – Signal Pedestal Foundation Type A
No. E 805–SGCF–04 – Signal Handhole, Type I Concrete
No. E 805–SGCF–06 – Signal Handhole, Type II Polymer Concrete

Section 6: Pot holing

6.1 General
1. *Potholing is defined as exposing and verifying the location of existing utilities at locations as directed.*
2. *All utilities must be located prior to making pavement cuts. The City of Portage must be notified 48 hours before start of work.*
3. *All excavations for utility locates, unless otherwise approved by the City of Portage, shall be made by the pot holing method using vac–trucks. All pot holing locates shall meet the following requirements:*
   a. *Locate potholes shall not be placed within the wheel track of a travel lanes.*
   b. *All locate potholes in the pavement section shall be cored with a circular coring saw with a maximum diameter of twenty four (24") inches, otherwise, asphalt or concrete pavement cut repairs apply. The plug shall be carefully removed without causing damage.*
   c. *Excavations for potholes shall be backfilled with INDOT No. 8's in accordance with INDOT 211.03.1 C or flowable fill is required for hole less than 10 inches in diameter.*
   d. *Native material removed shall not be used to backfill the pothole.*
   e. *Initial locate potholes may be temporarily repaired, meeting all applicable safety requirements for no more than thirty (30) days unless additional time is authorized by the City in writing.*

CHARLES W. THOMPSON III REGISTERED STATE OF INDIANA PROFESSIONAL ENGINEER 11100657

D. ANDREW JAMISON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISED OCTOBER 24, 2025

CITY OF PORTAGE, INDIANA
STANDARD DETAILS
PAGE 2 OF 2

6070 CENTRAL AVENUE
PORTAGE, INDIANA 46368
PHONE: 219-762-4204
FAX: 219-764-5749

APPROVED BY THE PORTAGE SANITARY BOARD
NOVEMBER 13, 2025

APPROVED BY THE PORTAGE STORMWATER MANAGEMENT BOARD
NOVEMBER 13, 2025

APPROVED BY THE PORTAGE BOARD OF PUBLIC WORKS AND SAFETY
OCTOBER 28, 2025

CITY OF Portage INDIANA

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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

FANNING HOWEY

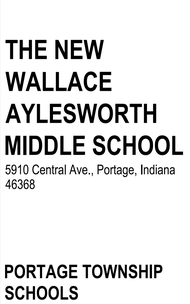
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204

CIVIL ENGINEER

LANDSCAPE ARCHITECT

JPS CONSULTING ENGINEERS, LLC

317-617-4270 WWW.JPSCE.COM
11 Municipal Drive, Suite 300, Fishers, Indiana 46038



KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

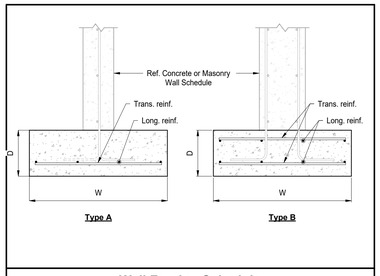
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	ADDENDUM 3	11-18-2025

CITY OF PORTAGE DETAILS

C701

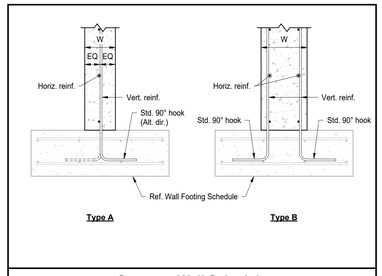
JPS Consulting Engineers - K:\Civil Projects\2024\24JPCSE81 Portage Township Schools - Willowcreek Middle School\Drawings\C700.dwg November 14, 2025 - 2:55 PM TJones



Type A **Type B**

Wall Footing Schedule

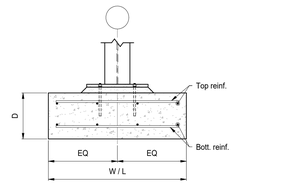
Mark	Size		Reinforcing		Type	Notes
	Width (W)	Depth (D)	Longitudinal	Transverse		
WF36	3'-0"	1'-6"	(4) - #6	#6 @ 1'-0" spa.	A	
WF60	5'-0"	1'-6"	(6) - #6	#6 @ 1'-0" spa.	A	
WF60a	5'-0"	1'-6"	(4) - #6	#6 @ 1'-6" spa.	B	
WF72	6'-0"	1'-6"	(7) - #6	#6 @ 1'-0" spa.	B	
WF84	7'-0"	1'-6"	(8) - #6	#6 @ 1'-0" spa.	A	
WF132	11'-0"	1'-6"	(12) - #6	#6 @ 1'-0" spa.	A	



Type A **Type B**

Concrete Wall Schedule

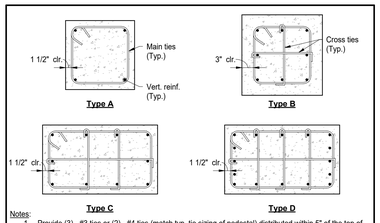
Mark	Width (W)	Reinforcing		Type	Notes
		Horizontal	Vertical		
CW7	7"	#4 @ 1'-6" spa.	#4 @ 1'-6" spa.	A	
CW8	8"	#5 @ 1'-0" spa.	#5 @ 1'-0" spa.	A	
CW12	1'-0"	#5 @ 1'-0" spa.	#5 @ 1'-0" spa.	B	
CW16	1'-4"	#5 @ 1'-0" spa.	#5 @ 1'-0" spa.	B	



Notes:
1. Ref. typical details for additional information.

Column Footing Schedule

Mark	Size			Reinforcing		Notes
	Length	Width	Depth	Bottom	Top	
F3	3'-0"	3'-0"	1'-6"	(3) - #6 e.w.		
F4	4'-0"	4'-0"	1'-6"	(4) - #6 e.w.		
F5	5'-0"	5'-0"	1'-6"	(5) - #6 e.w.		
F6	6'-0"	6'-0"	1'-6"	(7) - #6 e.w.		
F6c	6'-0"	6'-0"	1'-0"	(5) - #6 e.w.		
F7	7'-0"	7'-0"	1'-6"	(8) - #6 e.w.		
F8	8'-0"	8'-0"	1'-6"	(9) - #6 e.w.		
F9	9'-0"	9'-0"	1'-6"	(13) - #6 e.w.		
F10	10'-0"	10'-0"	1'-6"	(14) - #6 e.w.		
F11	11'-0"	11'-0"	1'-6"	(15) - #6 e.w.		
F12	12'-0"	12'-0"	1'-6"	(17) - #6 e.w.		
F13	13'-0"	13'-0"	1'-6"	(18) - #6 e.w.		
F13a	13'-0"	10'-0"	1'-6"	#6 @ 1'-0" spa. e.w.		
F14a	14'-0"	11'-0"	1'-6"	#6 @ 1'-0" spa. e.w.		
F15	15'-0"	15'-0"	1'-6"	(21) - #6 e.w.		
F15a	15'-0"	8'-0"	1'-6"	#6 @ 1'-0" spa. e.w.		
F17	17'-0"	17'-0"	1'-6"	(23) - #6 e.w.		
F17a	17'-0"	9'-0"	1'-6"	#6 @ 9" spa. e.w.		
F17b	17'-0"	11'-0"	1'-6"	#6 @ 1'-0" spa. e.w.		
F20a	20'-0"	13'-0"	1'-6"	#6 @ 9" spa. e.w.		
F21a	21'-0"	11'-0"	1'-6"	#6 @ 9" spa. e.w.		
F23a	23'-0"	13'-0"	1'-6"	#6 @ 9" spa. e.w.		



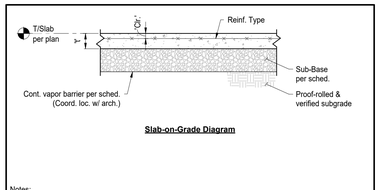
Type A **Type B**

Type C **Type D**

Notes:
1. Provide (3) - #3 ties or (2) - #4 ties (match typ. tie sizing of pedestal) distributed within 5" of the top of the pedestal. Provide ties @ spa. indicated in schedule for remainder of pedestal height.
2. Cross ties to match size & spa. of main ties.
3. Vert. reinf. to be spaced equally around perimeter of pedestal UNO (vert. bars not to exceed 6" spa.).
4. All vert. reinf. shall either be cross tied or be directly adjacent to a vert. bar that is cross tied.

Pedestal Schedule

Mark	Size		Offset		Reinforcing			Notes
	Length	Width	L1	W1	Type	Vert.	Ties	
P16	1'-4"	1'-4"	0"	0"	A	(4) - #6	#4 @ 1'-0" spa.	
P18	1'-6"	1'-6"	0"	0"	A	(4) - #6	#4 @ 1'-0" spa.	
P20	1'-8"	1'-8"	0"	0"	B	(6) - #5	#4 @ 0'-10" spa.	Tie side cvr. = 1 1/2"
P30	2'-6"	2'-6"	0"	0"	B	(8) - #7	#4 @ 1'-0" spa.	



Slab-on-Grade Diagram

Notes:
1. Locate WWF in upper 1/3rd of slab. Support on bolsters, chairs, or conc. bricks.
2. Fabric shall be supplied in flat sheets and lapped a minimum of one space, plus 2 inches.
3. Use of nylon or polypropylene fiber in lieu of WWF as a secondary reinforcement is not permissible UNO.
4. See plans, notes & specifications for additional requirements such as finish, jointing, curing, etc.

Slab-on-Grade Schedule

Mark	Thickness (t)	Reinforcing		Sub-Base	Notes
		Type	Cover (Clr.)		
SOG4	4"	WWF 6x6-W1.4xW1.4	1 1/4"	6" compacted drainage fill	

Concrete Schedule

Class	28-Day Compressive Strength	Air Content	Concrete Placement	Notes
A	3,000 psi	Optional	Footings	Water reducing admixture required.
B	3,500 psi	4.5% ±1.5%	Foundation walls & pedestals	Normal-weight concrete. High-range water reducing admixture required.
C	4,000 psi	0% to 3%	Interior slabs-on-grade Gathering Stair	Mid-range water reducing admixture required.
D	4,000 psi	5.0% ±1.5%	Exterior concrete exposed to freezing	Mid-range water reducing admixture required.
F	3,500 psi	0% to 3%	Concrete Toppings	

Notes:
1. Any concrete not indicated in the schedule shall be Class C.
2. Include an air-entraining admixture in mix designs for concrete exposed to freezing & thawing during service, and for concrete exposed to cold weather during construction, before attaining its required 28-day compressive strength.

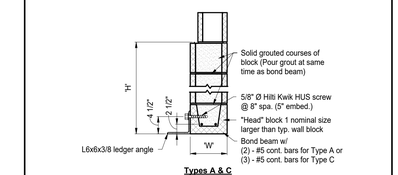
Concrete Reinforcing Steel Lap Splice Charts

Bar Size	Horizontal Foundation Bottom Bar Splice Lengths		Vertical Bar Splice Lengths		Horizontal Bar Splice Lengths	
	Splice Length		Splice Length		Splice Length	
	f'_c = 3,000 psi	f'_c = 4,000 psi	f'_c = 3,000 psi	f'_c = 4,000 psi	f'_c = 3,000 psi	f'_c = 4,000 psi
#4	1'-1"	1'-0"	1'-6"	1'-3"	1'-11"	1'-8"
#5	1'-7"	1'-5"	2'-2"	1'-11"	2'-10"	2'-5"
#6	2'-3"	1'-11"	3'-0"	2'-7"	3'-10"	3'-4"
#7	3'-7"	3'-1"	4'-10"	4'-2"	8'-1"	5'-5"
#8	4'-6"	3'-11"	6'-0"	5'-2"	10'-1"	6'-9"
#9	5'-7"	4'-10"	6'-11"	5'-10"	11'-5"	7'-8"
#10	6'-7"	5'-9"	7'-6"	6'-6"	12'-8"	8'-6"
#11	7'-10"	6'-10"	8'-3"	7'-2"	13'-11"	9'-4"

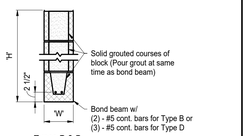
Notes:
1. Applies only to fndn. bott. reinf. w/ <1'-0" of conc. cast beneath the bars.
2. Min. conc. cover (side, bott. or top) shall be at least 1 1/2" for #5 & smaller & 2" for #6 & larger.
3. Min. center-to-center spacing of parallel bars shall be 6".

Notes:
1. Min. conc. cover (side, bott. or top) shall be the larger of 1" or d_b.
2. Min. center-to-center spacing of parallel bars shall be 4 1/2".
3. Typ. UNO on plans.

Notes:
1. Min. conc. cover (side, bott. or top) shall be the larger of 1" or d_b.
2. Min. center-to-center spacing of parallel bars shall be 4 1/2".
3. Applies to all horiz. bars except bott. layer fndn. reinf. w/ <1'-0" of conc. cast beneath the bars UNO on plans.



Types A & C



Types B & D

Notes:
1. 'W' and 'H' dimensions for Type A and Type B lintels are nominal dimensions.
2. All lintels bear 8" onto supporting walls, UNO.
3. All steel lintels and shelf angles in exterior walls shall be galvanized.
4. Bottom plates shall extend the full-length of the lintel, including bearing length, UNO.
5. At CMU infill (soaps) at steel lintels, provide metal anchorage at every course @ 1'-4" spa. to tie CMU to steel.
6. Provide the following loose angle lintels for brick/masonry veneer openings, except where shelf angles are used (Ref Arch. drawings for veneer masonry types & locations. Max. 8'-0" of supported brick above):
   a. L3 1/2x3 1/2x5/16 for openings less than 4'-0" wide.
   b. L6x3 1/2x5/16 (LLV) for openings from 4'-0" to < 6'-8" wide.
   c. L6x3 1/2x3/8 (LLV) for openings from 6'-8" to < 12'-8" wide.

Lintel Schedule

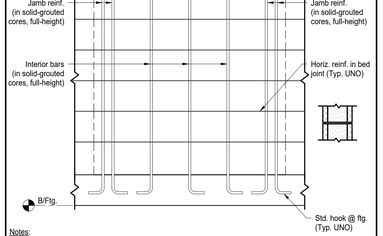
Mark	CMU Size (W X H)	Type	Notes
L1	10x8	A	
L2	10x16	A	
L3	10x24	A	
L4	8x8	B	Openings in CMU partition walls less than 8'-0" wide
L5	8x16	B	Openings in CMU partition walls from 8'-0" to < 12'-4" wide.
L6	14x16	C	
L8	12x8	D	
L9	12x16	D	
L10	12x24	D	
L11	8x24	B	Openings in CMU partition walls from 12'-4" to < 19'-4" wide.

Notes:
1. See the structural drawings, architectural drawings & specifications for required horizontal (bond beam and joint) reinforcement and required additional vertical reinforcement.
2. Provide matching hooked dowels into the foundation for all vertical reinforcement. Grout solid all cells containing vertical reinforcement.



Masonry Wall Reinforcement Schedule

Mark	CMU Size	Vert. Reinf.	Notes
MW8	8"	#5 @ 4'-0" spa.	
MW8a	8"	#5 @ 2'-0" spa.	
MW8b	8"	#5 @ 2'-0" spa.	Fully grouted
MW12	12"	#6 @ 2'-8" spa.	



Notes:
1. See plan sheets for shearwall locations.
2. Where multiple end anchors are required, place @ 8" spa. in solid grouted cores.
3. Where shearwall requirements differ from general requirements indicated elsewhere, the more stringent requirements shall apply.
4. Use bond beam lintels for all openings within or tying into shearwalls UNO.

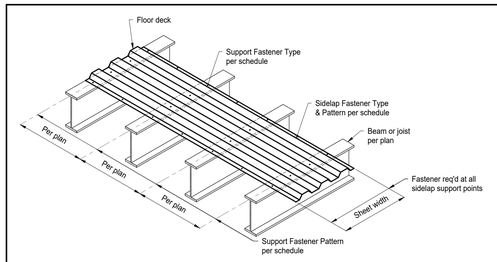
CMU Shearwall Schedule

Mark	CMU Size	Reinforcing			Notes
		Jamb	Interior Bars	Horiz.	
SW8	8"	(1) - #5	#5 @ 4'-0" spa.	9 ga. wire @ 1'-4" spa.	
SW8a	8"	(2) - #5	#5 @ 2'-8" spa.	9 ga. wire @ 1'-4" spa.	
SW8b	8"	(3) - #5	#5 @ 4'-0" spa.	9 ga. wire @ 1'-4" spa.	
SW8c	8"	(1) - #5	#5 @ 4'-0" spa.	9 ga. wire @ 1'-4" spa.	Fully grouted
SW12	1'-0"	(1) - #6	#6 @ 2'-8" spa.	9 ga. wire @ 1'-4" spa.	

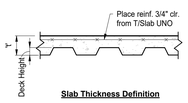
Masonry Reinforcing Steel Lap Splice Chart

Bar Size	Minimum Lap Splice based on:															
	f'_m = 1,500 psi						f'_m = 2,000 psi						f'_m = 2,500 psi			
	Bars Centered in Grouted Cells				Clear Cover		Bars Centered in Grouted Cells				Clear Cover		Bars Centered in Grouted Cells				Clear Cover	
	6" CMU	8" CMU	10" CMU	12" CMU	1 1/2"	2"	6" CMU	8" CMU	10" CMU	12" CMU	1 1/2"	2"	6" CMU	8" CMU	10" CMU	12" CMU	1 1/2"	2"
#3	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	1'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-0"
#4	1'-8"	1'-3"	1'-0"	1'-0"	2'-10"	2'-2"	1'-6"	1'-1"	1'-0"	1'-0"	2'-6"	1'-10"	1'-4"	1'-0"	1'-0"	1'-0"	2'-2"	1'-8"
#5	2'-8"	1'-11"	1'-6"	1'-3"	3'-9"	3'-4"	2'-4"	1'-8"	1'-4"	1'-1"	3'-9"	2'-11"	2'-1"	1'-6"	1'-2"	1'-0"	3'-5"	2'-7"
#6	4'-6"	3'-7"	2'-10"	2'-4"	4'-6"	4'-6"	4'-5"	3'-2"	2'-5"	2'-0"	4'-6"	4'-6"	3'-11"	2'-10"	2'-2"	1'-9"	4'-6"	4'-6"
#7	NP	5'-0"	3'-10"	3'-2"	5'-3"	5'-3"	NP	4'-4"	3'-4"	2'-9"	5'-3"	5'-3"	NP	3'-11"	3'-0"	2'-5"	5'-3"	5'-3"
#8	NP	6'-0"	5'-11"	4'-9"	6'-0"	6'-0"	NP	6'-0"	5'-1"	4'-2"	6'-0"	6'-0"	NP	5'-11"	4'-7"	3'-9"	6'-0"	6'-0"
#9	NP	NP	6'-9"	6'-1"	6'-9"	6'-9"	NP	NP	6'-6"	5'-4"	6'-9"	6'-9"	NP	NP	5'-10"	4'-9"	6'-9"	6'-9"

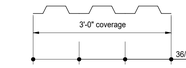
Notes:
1. Chart is based on ASTM A615, Grade 60 reinforcement (f_y = 60,000 psi).
2. One bar per grouted cell for vertical bars.
3. Clear spacing between bars shall be greater than or equal to the clear cover.
4. NP = Not Permitted.



Fastener Pattern Diagram



Slab Thickness Definition

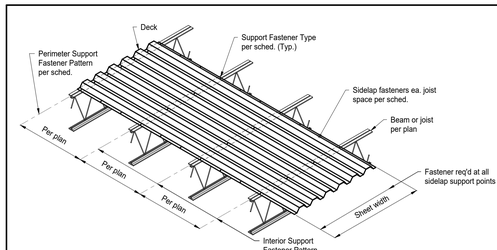


Support Fastener Pattern Definition

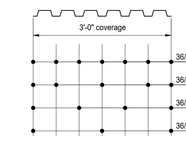
Notes:
1. Concrete to be normal-weight UNO.
2. Fasten through multiple sheets at all end and side laps.
3. End laps shall occur only at support points.
4. Deck shall be installed in minimum three span condition UNO.
5. Where sidelap fasteners are not noted, provide the following minimum attachments:
   a. For deck spans ≤ 6'-0", provide one sidelap fastener at mid-span of each joint or beam space.
   b. For deck spans > 6'-0", provide sidelap fasteners at 3'-0" max. spa.
6. See Framing Plan for slab locations & framing spacing.

Slab-on-Deck Schedule

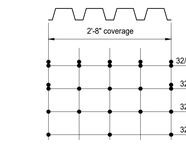
Mark	Deck				Slab		Attachment				Notes
	Height	Gauge	Type	Finish	Thickness (t)	Reinforcing	Support Fastener Type	Support Fastener Pattern	Sidelap Fastener Type	Sidelap Fastener Pattern	
SOD1	1 1/2"	20 ga.	1.5VL	Galv.	4 1/2"	WWF 6x6-W1.4xW1.4	5/8" puddle welds	36/4	#10 screws	1'-0" spa.	Gr. 50 steel



Deck Fastener Pattern Diagram



Support Fastener Pattern Definition

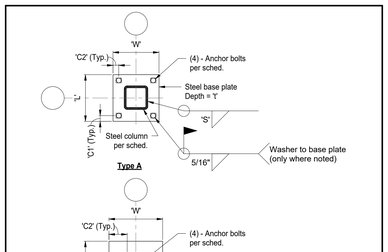


Support Fastener Pattern Definition

Notes:
1. Fasten through multiple sheets at all end and side laps.
2. End laps shall occur only at support points.
3. Deck shall be installed in minimum 3-span condition UNO.

Deck Schedule

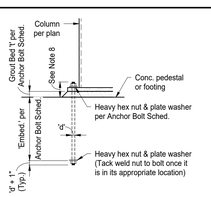
Mark	Deck T	Gauge	Type	Finish	Support Fastener Type	Perimeter Support Fastener Pattern	Interior Support Fastener Pattern	Sidelap Fastener Type	Sidelap Fastener Pattern	Notes
D1	1 1/2"	22 ga.	Type B Deck	Galv.	5/8" puddle welds	36/4	36/4	#10 screws	1'-0" spa.	Gr. 50 steel
D2	3"	20 ga.	Type NLA Deck	Galv.	5/8" puddle welds	32/3	32/3	#10 screws	1'-0" spa.	Gr. 50 steel



Base Plate Schedule

Mark	Type	Length (L)	Width (W)	Depth (t)	Edge Dist. (C1)	Edge Dist. (C2)	Weld Size (S)	Anchor Bolt	Notes
BP1	A	1'-0"	1'-0"	1 1/4"	1 1/2"	1 1/2"	1/4"	AB1	
BP2	A	0'-11"	0'-11"	3/4"	1 1/2"	1 1/2"	1/4"	AB1	
BP3	A	1'-2"	1'-0"	1 1/4"	1 1/2"	1 1/2"	1/4"	AB1	
BP5	B	1'-4"	0'-10"	1"	4"	1 1/2"	1/4"	AB1	
BP6	A	1'-4"	1'-4"	1"	1 1/2"	1 1/2"	1/4"	AB1	
BP7	B	1'-4"	0'-10"	1"	4"	1 1/2"	1/4"	AB2	
BP8	A	1'-6"	1'-6"	3/4"	1 1/2"	1 1/2"	1/4"	AB1	Weld washer to base plate
BP9	B	1'-2"	1'-2"	1"	4"	4"	1/4"	AB1	
BP10	B	1'-0"	1'-0"	1"	3 1/2"	3 1/2"	1/4"	AB1	
BP11	A	1'-0"	1'-0"	1 1/4"	1 1/2"	1 1/2"	1/4"	AB2	
BP12	A	0'-10"	1'-0"	1 1/4"	1 1/2"	1 1/2"	1/4"	AB1	

Notes:
1. Ref. Anchor Bolt Schedule for additional information.



Notes:
1. Location of anchor bolts must not vary more than 1/8" o.c. of any two bolts within an anchor bolt group.
2. Hold max. deviation of 1/4" o.c. of adjacent anchor bolt groups.
3. Hold elev. of the top of the anchor bolts to ±1/2".
4. Hold max. deviation of 1/4" from the center of any anchor bolt group to the established column line through that group.
5. Refer to the AISC code of Standard Practice for additional information.
6. It is the Contractor's responsibility to provide sufficient temp. support of column base plates using leveling plates, leveling nuts/washers or steel shims (or combination thereof) prior to placement and curing of non-shrink grout.
7. Grout bed shall be packed with non-shrink non-metallic grout (Ref. specifications where available).
8. Anchor bolts shall project above conc. pedestal or footing surface a sufficient length such that the anchor bolt nut will be fully engaged, at a minimum. Contractor shall consider applicable installation tolerances and materials (grout thickness, base plate thickness, plate washers, etc.) when determining anchor bolt projection length. When column base is encased in concrete, a minimum 1 1/2" cover shall be provided over the top of the anchor bolts. Contractor shall trim tops of anchor bolts as required to attain minimum cover while maintaining full engagement of anchor bolt nut.

Anchor Bolt Schedule

Mark	Anchor Bolts		Washers		Grout Bed Thickness (t)	Base Plate Hole Dia.	Remarks
	Dia. (d)	Embed.	Size (Min.)	Thickness (Min.)			
AB1	3/4"	9"	2"	3/8"	2"	1 5/16"	
AB2	1"	12"	3"	3/8"	2"	1 7/8"	

Notes:
1. Washers may be round or square.

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TRISTAN M. LEWIS REGISTERED No. PE10100188 STATE OF IND IANA PROFESSIONAL ENGINEER

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PROJECT NUMBER: 223047.01

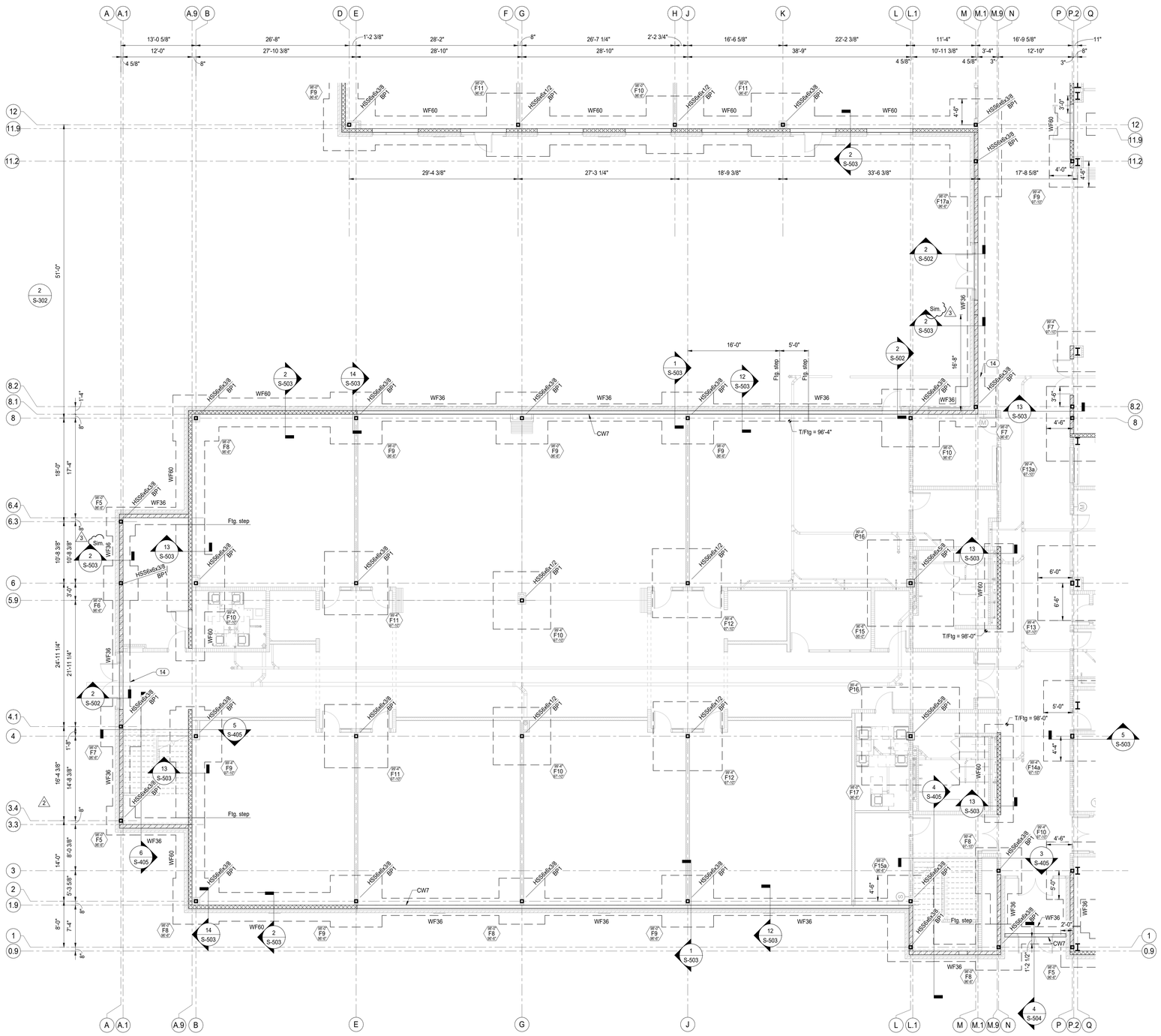
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
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SCHEDULES

S-008

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1 Foundation Plan - Unit A
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Flg. @ Int. Walls = 99'-4"
   c. T/Flg. @ Ext. Walls = 98'-0"
   d. T/Flg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail 18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502. (2)
11. Reduce transverse reinf. spa. = 9". (2)
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from tflg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501 .

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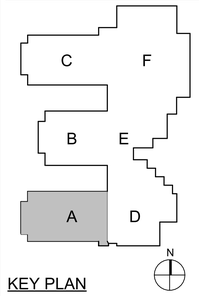
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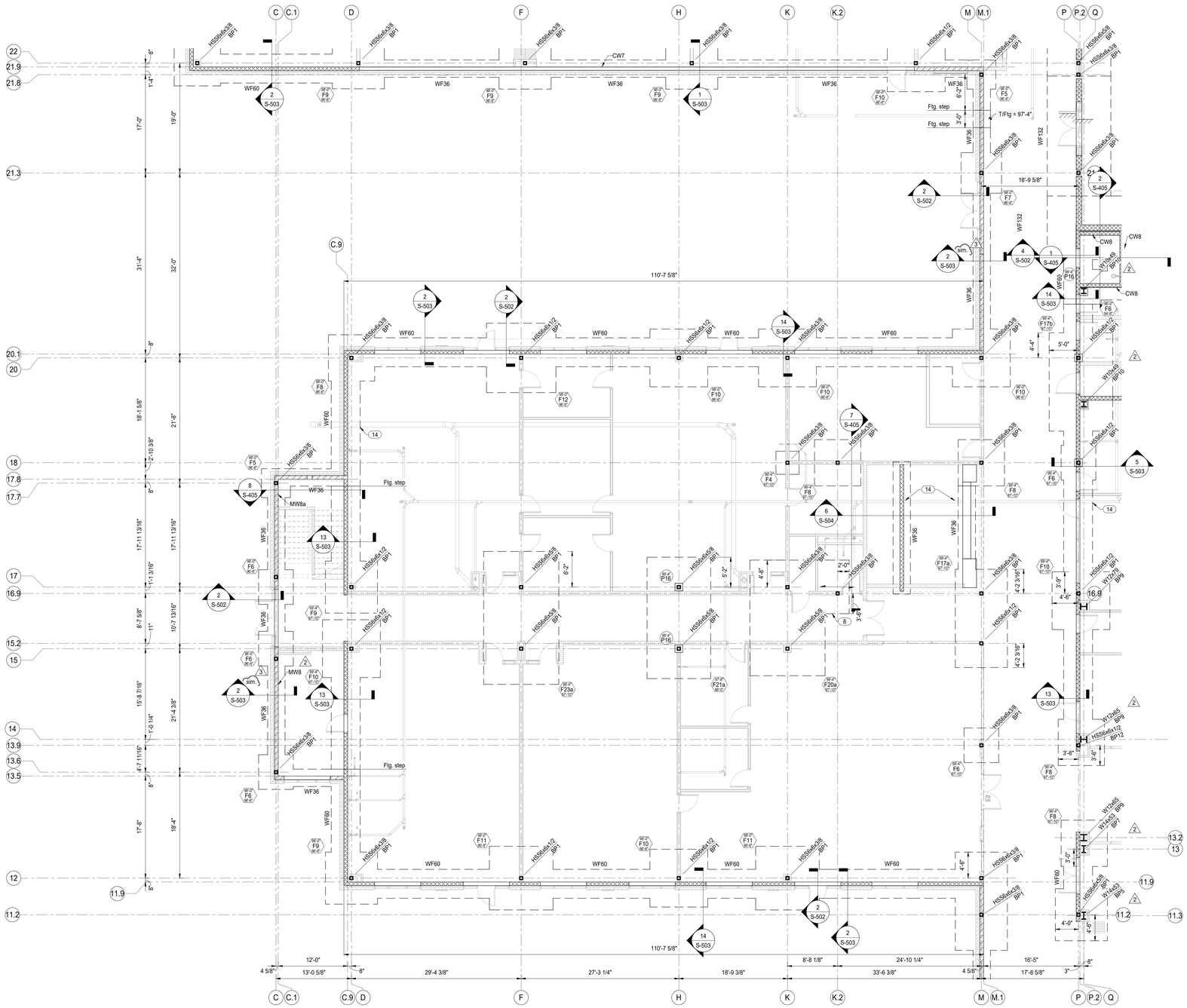
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2	Addendum #2	11-11-2025
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FOUNDATION PLAN - UNIT A

S-10A

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1 Foundation Plan - Unit B
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS)
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Ftg. @ Int. Walls = 99'-4"
   c. T/Ftg. @ Ext. Walls = 98'-0"
   d. T/Ftg. @ Concessions = 97'-1 5/16" 2
7. Conc. pad per Detail1\S-501 .
8. Match adjacent footing thickness and reinf.
9. Contruction shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 2
11. Reduce transverse reinf. spa. = 9"
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from tftg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501.

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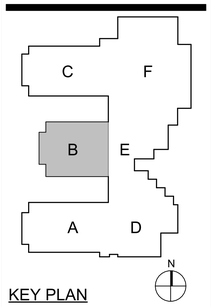
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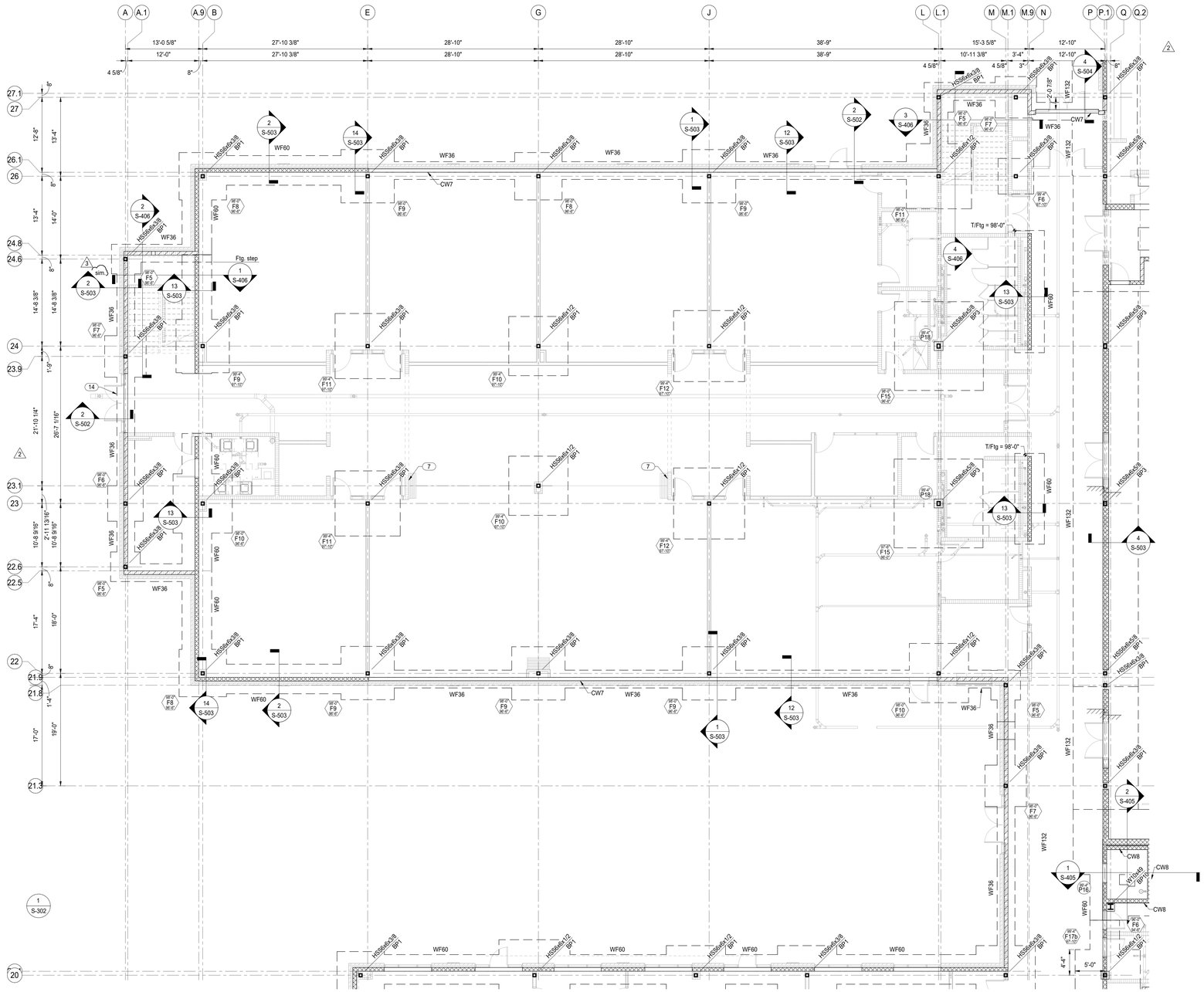
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
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FOUNDATION PLAN - UNIT B

S-10B

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1 Foundation Plan - Unit C
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Ftg. @ Int. Walls = 99'-4"
   c. T/Ftg. @ Ext. Walls = 98'-0"
   d. T/Ftg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 . (2)
11. Reduce transverse reinf. spa. = 9".
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from t/ftg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501.

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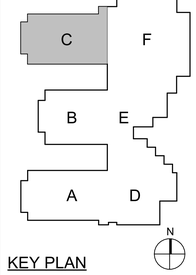
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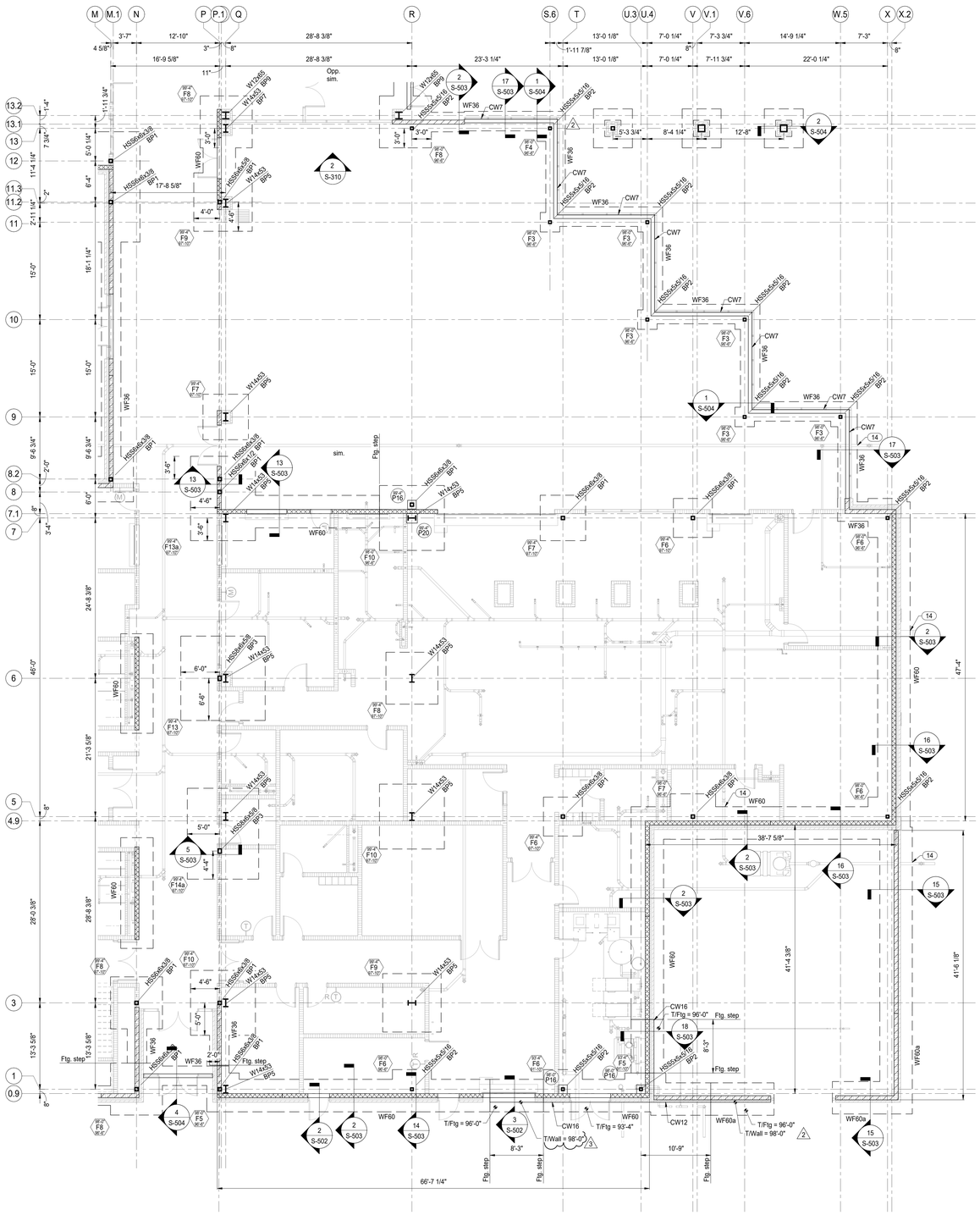
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FOUNDATION PLAN - UNIT C

S-10C

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1 Foundation Plan - Unit D
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
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6. Typical Elevations (UNO):
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   b. T/Flg. @ Int. Walls = 99'-4"
   c. T/Flg. @ Ext. Walls = 98'-0"
   d. T/Flg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 . (2)
11. Reduce transverse reinf. spa. = 9".
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from t/flg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501 .

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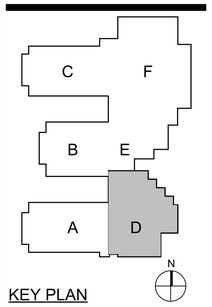
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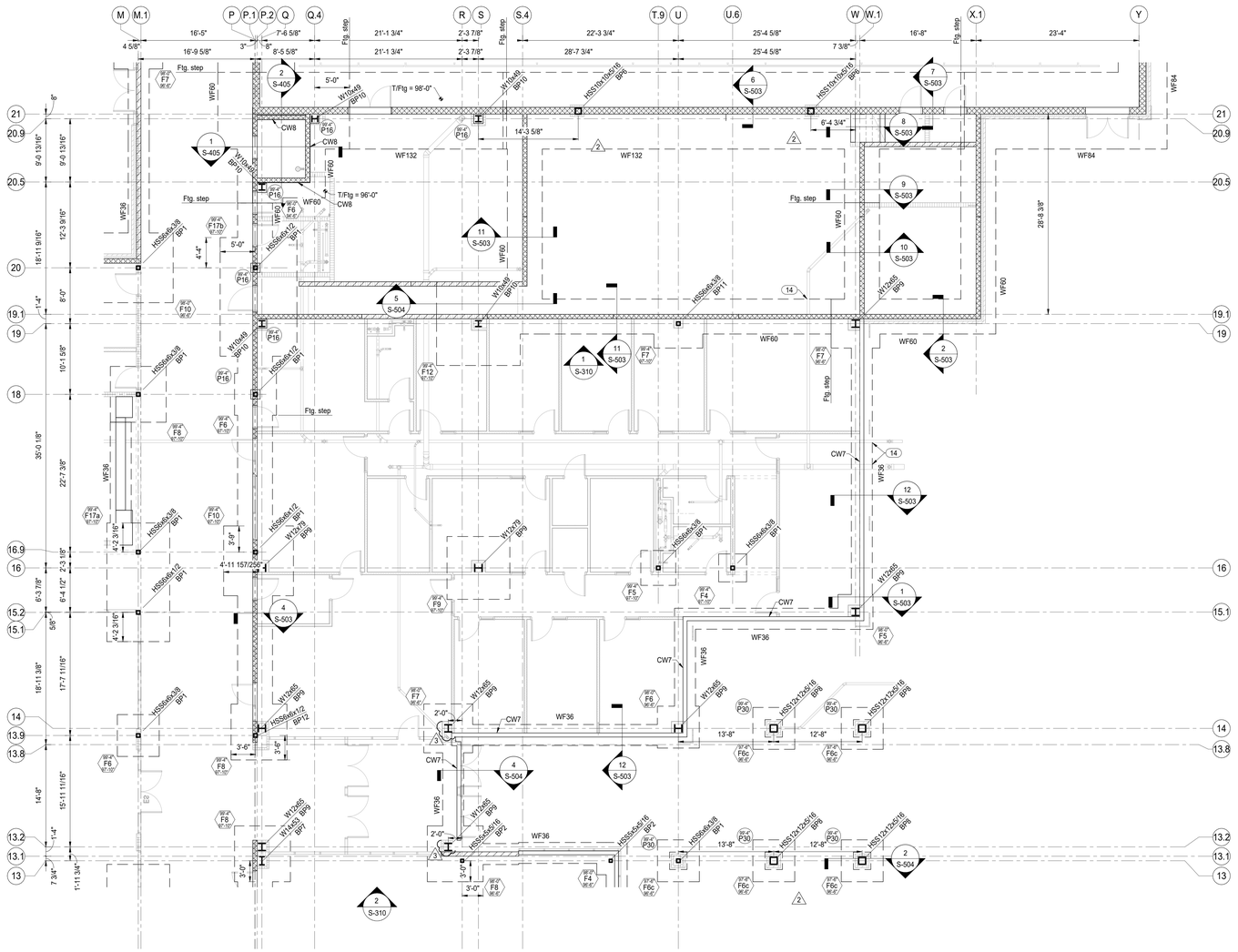
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FOUNDATION PLAN - UNIT D

S-10D

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1 Foundation Plan - Unit E
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
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5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Ftg. @ Int. Walls = 99'-4"
   c. T/Ftg. @ Ext. Walls = 98'-0"
   d. T/Ftg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail 18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 . (2)
11. Reduce transverse reinf. spa. = 9".
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from t/ftg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501 .

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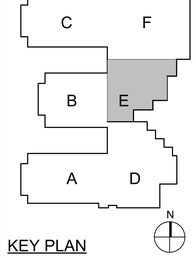
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TROY A. HOWEY REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

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PROJECT NUMBER: 223047.01

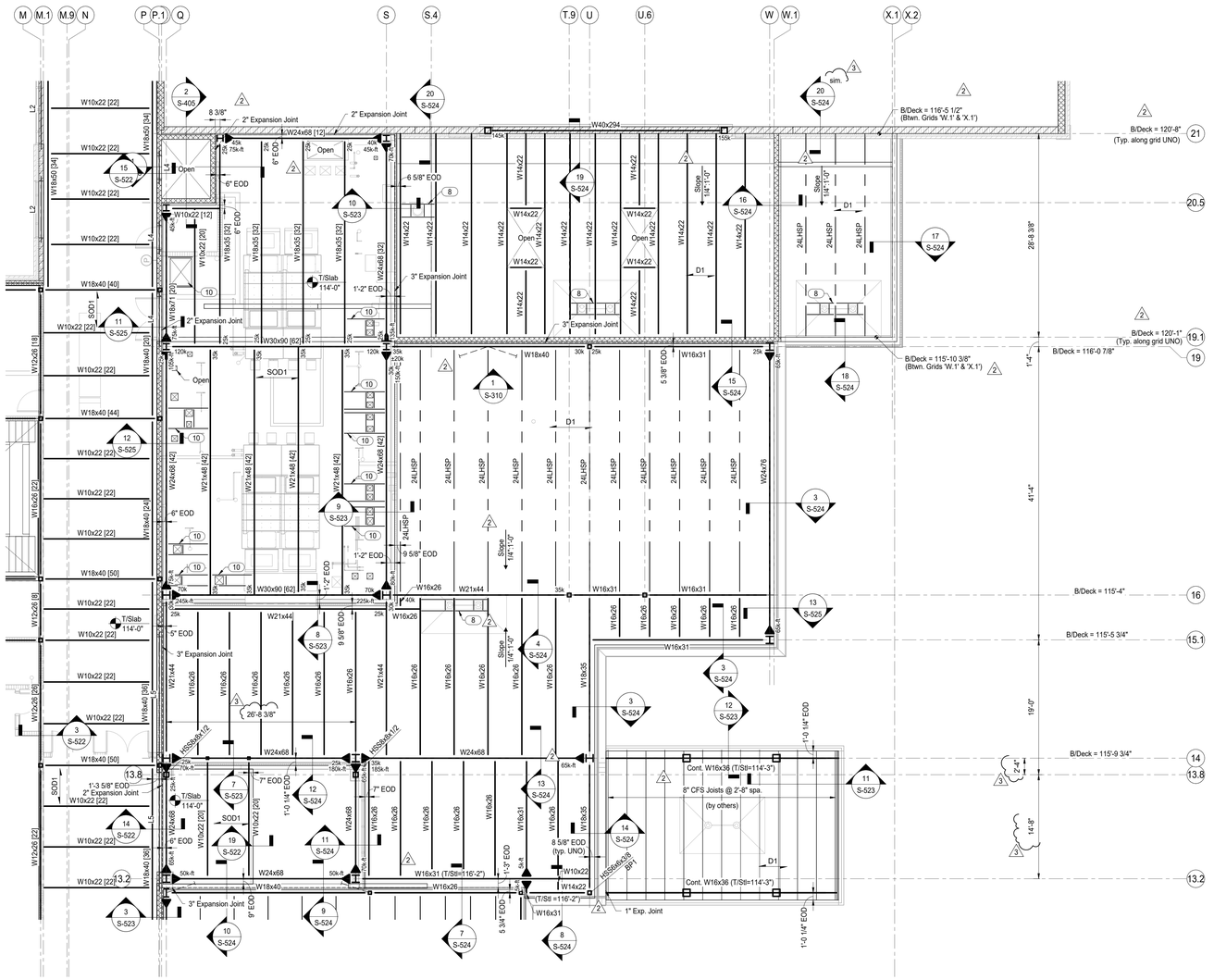
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REV. NO. (2)	DESCRIPTION	DATE
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FOUNDATION PLAN - UNIT E

S-10E

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1 Second Floor Framing Plan - Unit E
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 111'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Provide framing around floor penetrations per Detail 2/S-521.
11. Beam bears on CMU as shown. Ref. details17/S-510 & 10/S-521 for additional information regarding the bearing connection requirements.
12. Typical Elevations (UNO):
    a. T/Steel @ SOD = 113'-7 1/2"
    b. T/Steel @ HC12+2 = 112'-10"
13. Conc. pad per Detail 18/S-501.
14. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.
15. Chennel to beam top flange conn. per detail 6/S-526

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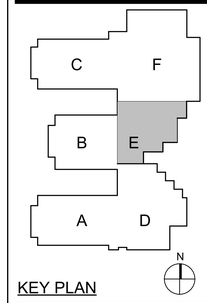
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REGISTERED
No. PE10100188
STATE OF INDIANA
PROFESSIONAL ENGINEER

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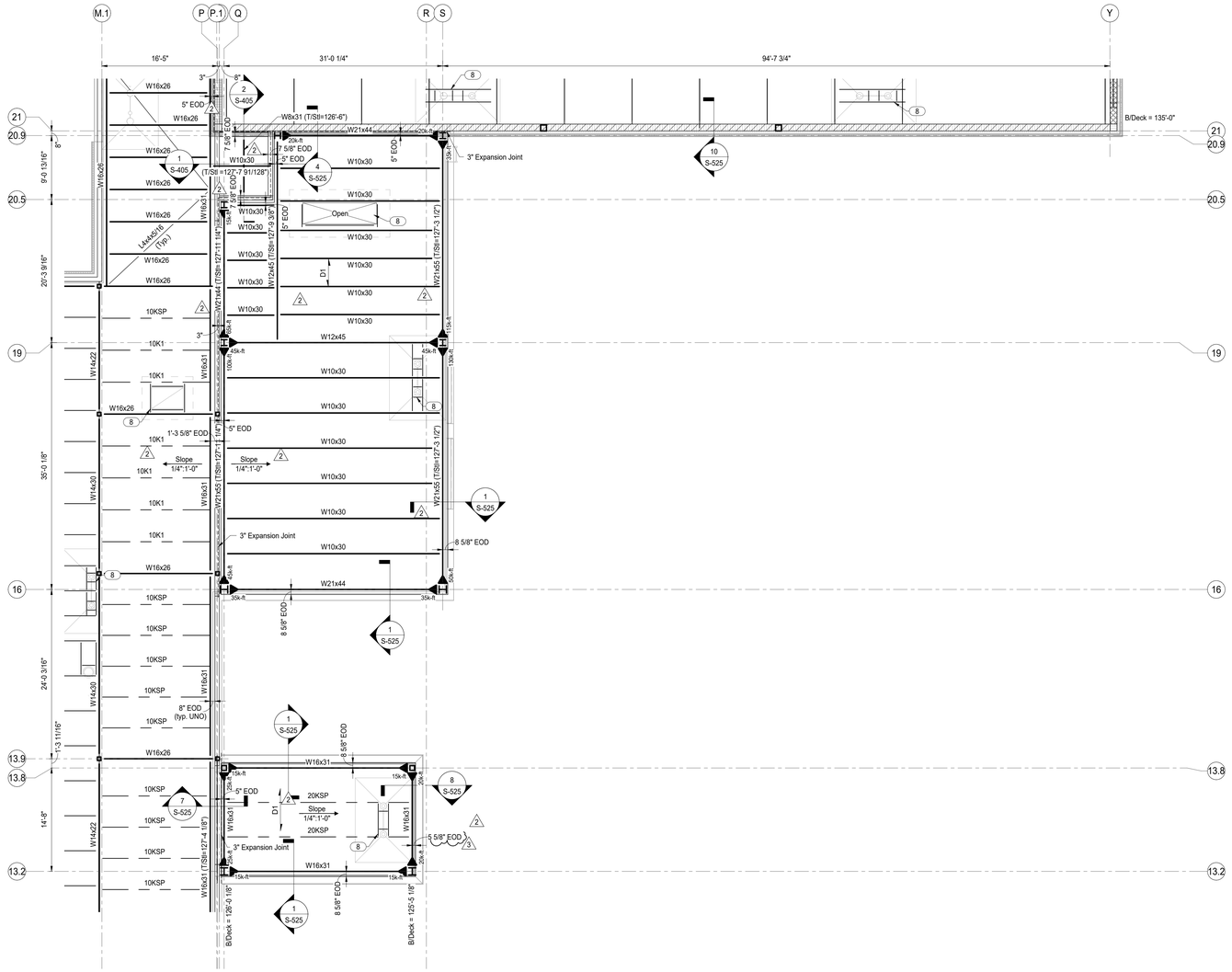
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SECOND FLOOR FRAMING PLAN - UNIT E

S-12E

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1 Roof Framing Plan - Unit E
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 125'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Beam bears on CMU. Ref. detail 10/S-521 and 17/S-510 for additional information regarding the bearing connection requirements.
11. Roof curb support (ref. detail 19/S-521).
12. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.

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PORTAGE TOWNSHIP SCHOOLS

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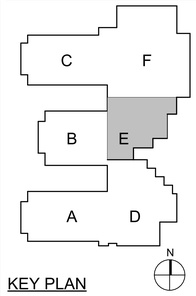
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KEY PLAN

Construction Documents

TROY A. MAYHEW REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

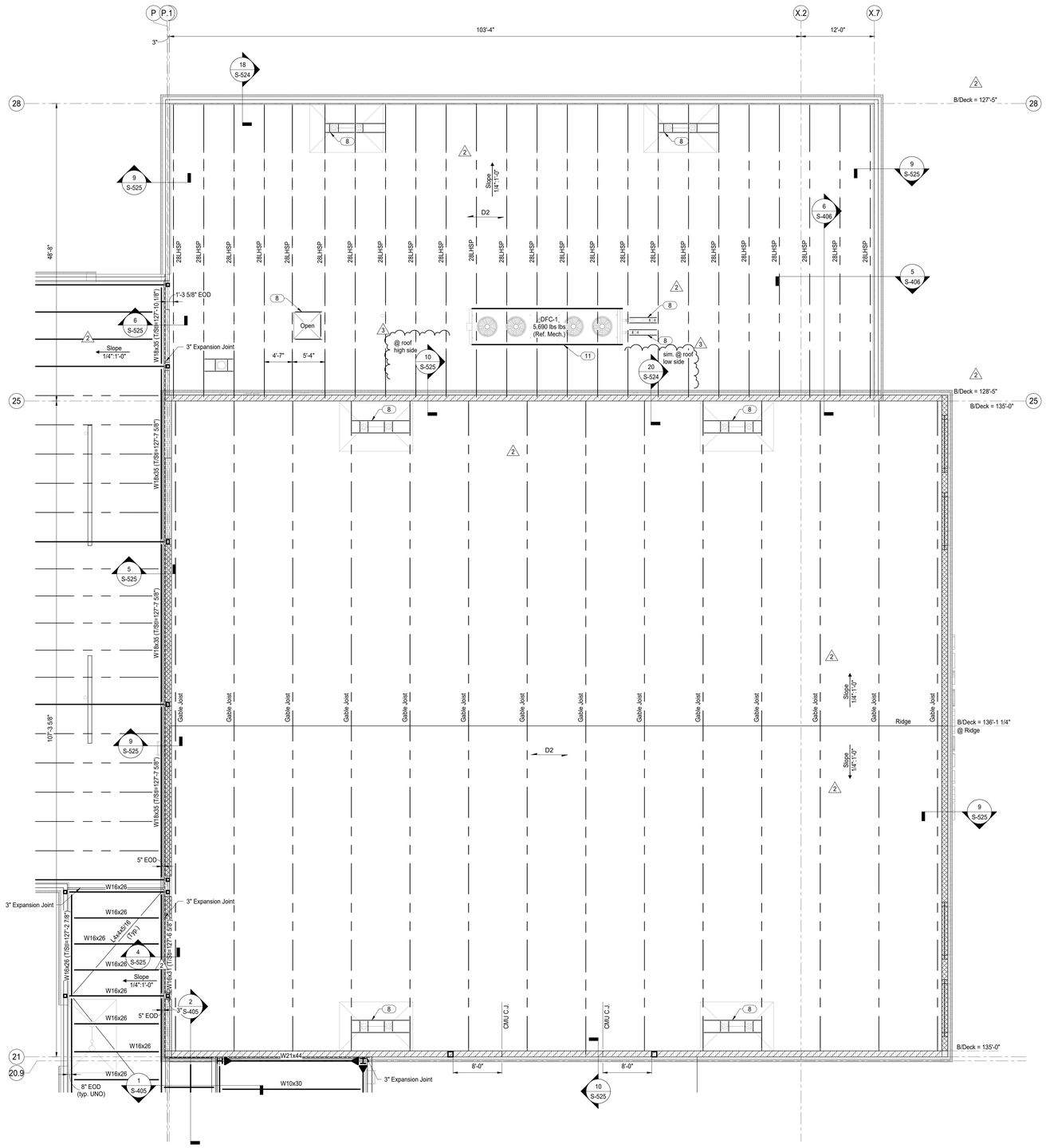
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

ROOF FRAMING PLAN - UNIT E

S-13E

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1 Roof Framing Plan - Unit F
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 125'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Beam bears on CMU. Ref. detail 10/S-521 and 17/S-510 for additional information regarding the bearing connection requirements.
11. Roof curb support (ref. detail 19/S-521).
12. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.

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PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

FANNING HOWEY

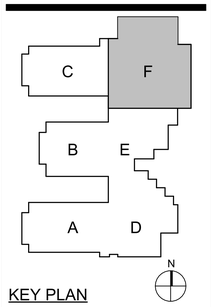
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KEY PLAN

Construction Documents



DRAWN BY: LWT

PROJECT NUMBER: 223047.01

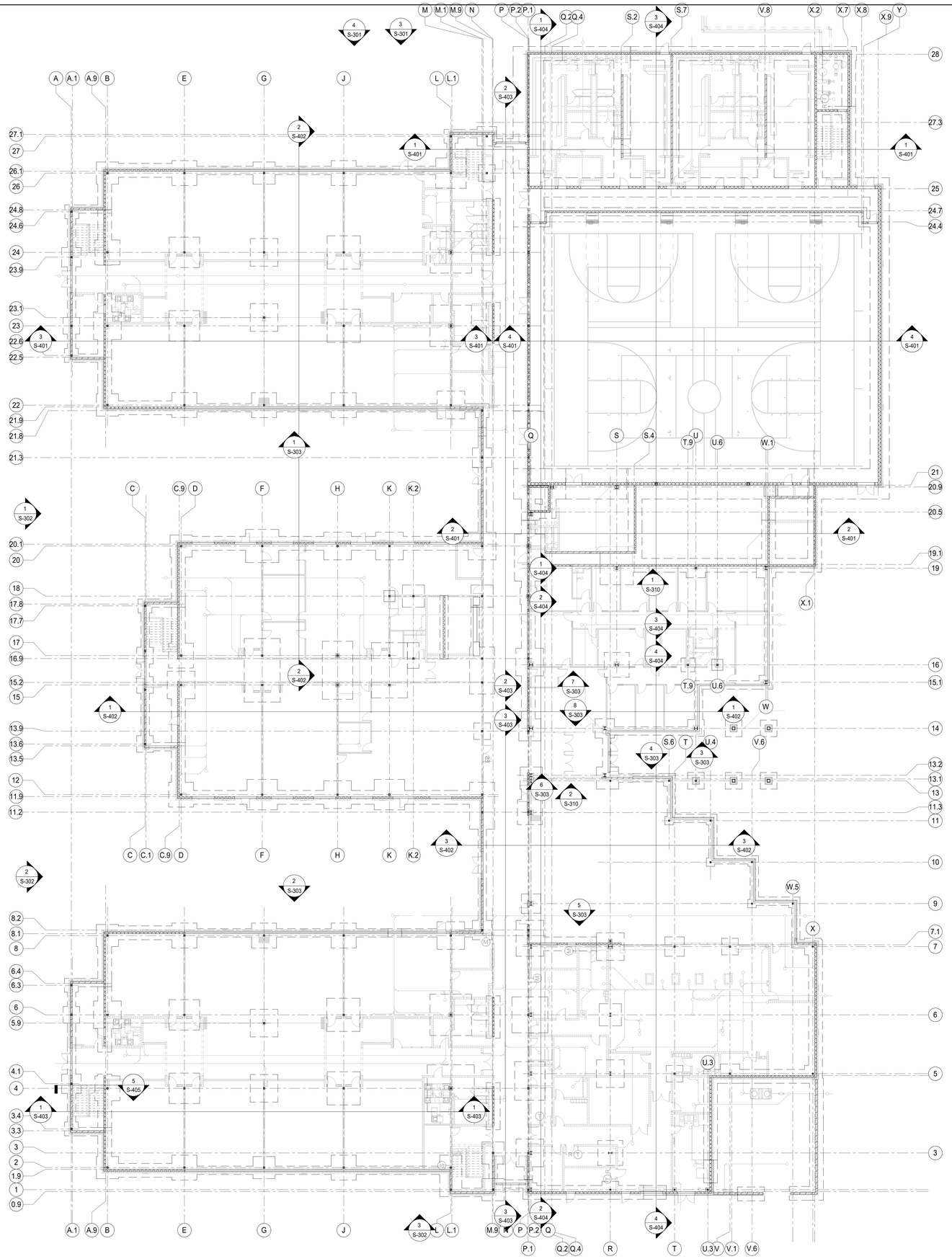
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
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3	Addendum #3	11-18-2025

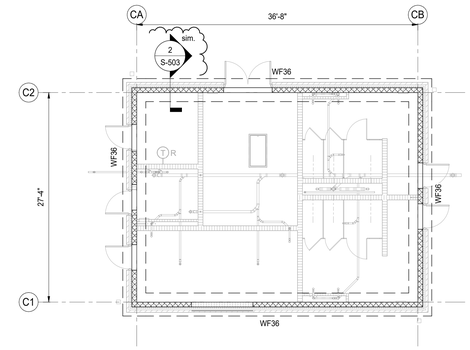
ROOF FRAMING PLAN - UNIT F

S-13F

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1 Overall Foundation plan
Scale: 1/16" = 1'-0"



2 Foundation Plan - Concessions
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Ftg. @ Int. Walls = 99'-4"
   c. T/Ftg. @ Ext. Walls = 98'-0"
   d. T/Ftg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail 18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 . (2)
11. Reduce transiverse reinf. spa. = 9".
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from t/ftg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501.

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PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

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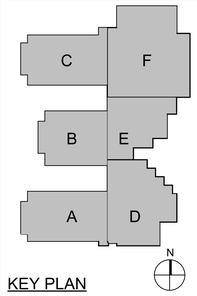
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KEY PLAN

Construction Documents

TROY A. MADER
REGISTERED
No. PE10100188
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

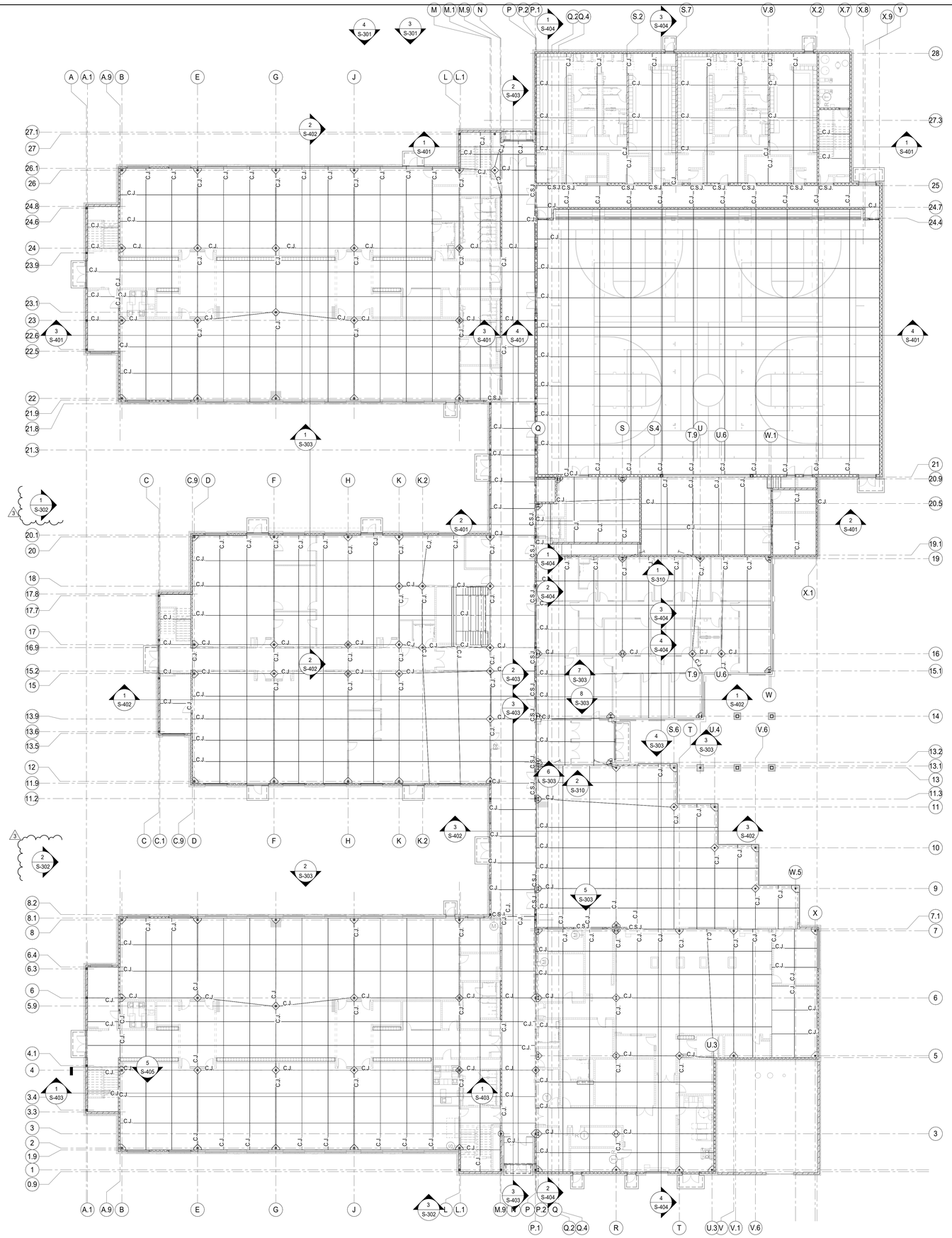
PROJECT ISSUE DATE: October 28, 2025

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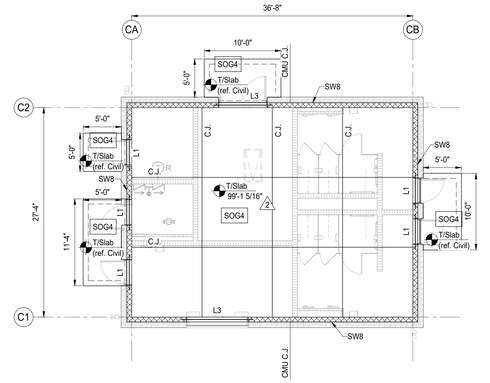
OVERALL FOUNDATION PLAN

S-100

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1 Overall Slab-On-Grade plan
Scale: 1/16" = 1'-0"



2 Slab-on-Grade Plan - Concessions
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Typical Elevations (UNO):
   a. T/Slab = 100'-0"
   b. T/Ftg. @ Int. Walls = 99'-4"
   c. T/Ftg. @ Ext. Walls = 98'-0"
   d. T/Ftg. @ Concessions = 97'-1 5/16" (2)
7. Conc. pad per Detail18/S-501 .
8. Match adjacent footing thickness and reinf.
9. Contractor shall fully grout the CMU wall from the door opening edge to the corner of the wall, full height.
10. Locker bench per detail 12/S-502 . (2)
11. Reduce transiverse reinf. spa. = 9".
12. Provide top. reinf. to match size and spa. of bott. reinf. @ 1-1/2" clr. from t/ftg.
13. Provide (16) - #6 longitudinal bars top and bott.
14. Pipe pen. per Detail 4/S-501.

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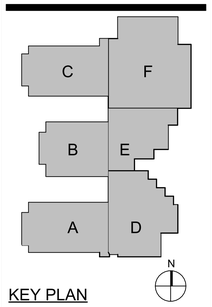
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DRAWN BY: LWT

PROJECT NUMBER: 223047.01

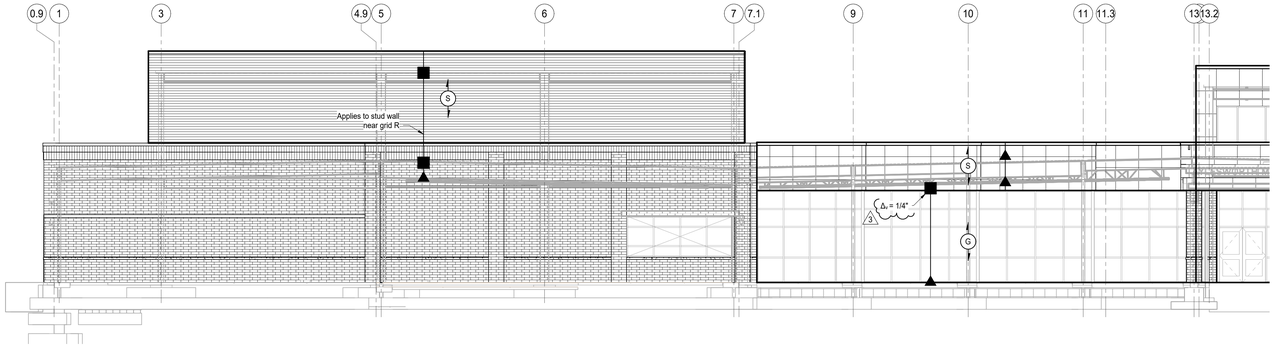
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3	Addendum #3	11-18-2025

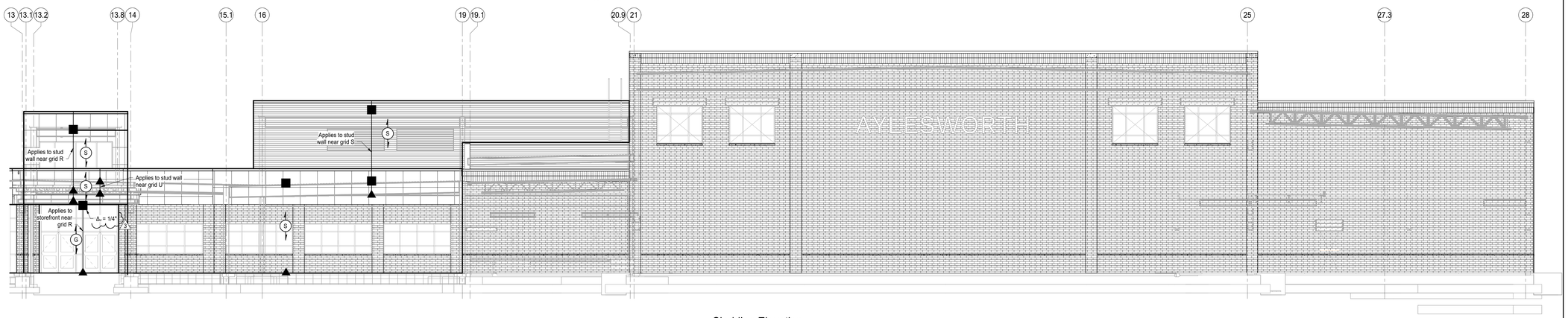
OVERALL SLAB-ON-GRADE PLAN

S-101

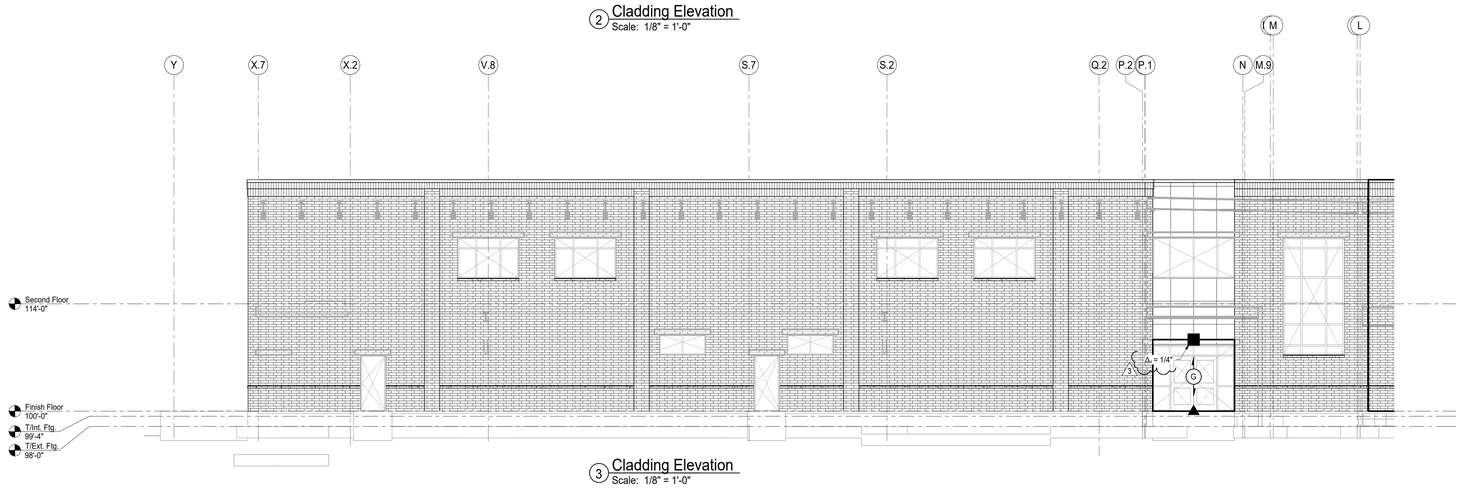
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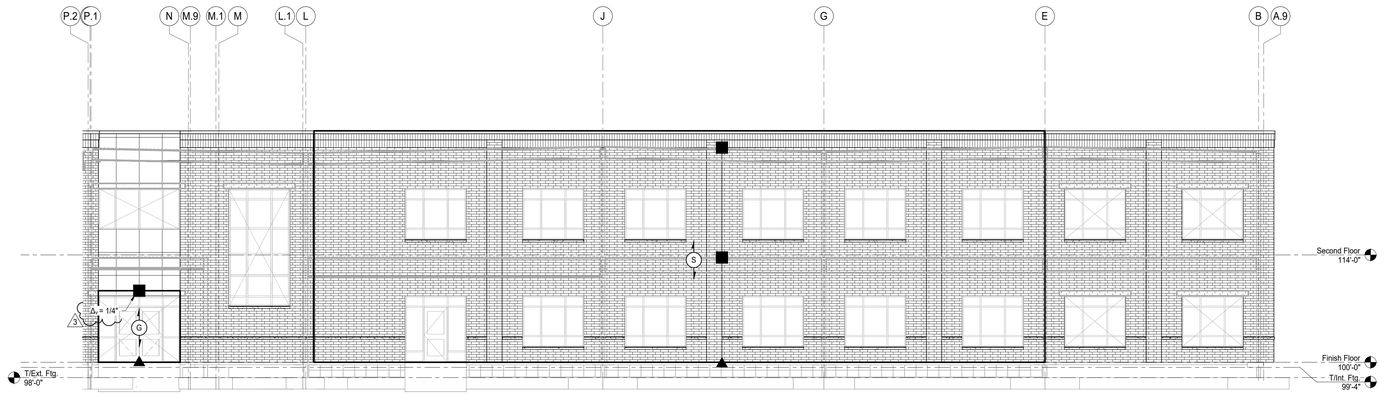
1 Cladding Elevation
Scale: 1/8" = 1'-0"



2 Cladding Elevation
Scale: 1/8" = 1'-0"



3 Cladding Elevation
Scale: 1/8" = 1'-0"



4 Cladding Elevation
Scale: 1/8" = 1'-0"

Cladding Backup Criteria Legend:

- ▲ Dead load and lateral connection to primary structure, cladding backup or other cladding system. Dead load connection design by Contractor, including any additional misc. steel required but not shown on structural plans.
- ■ Lateral tie-back only accommodates structural deflections indicated on elevations. Lateral connection design by Contractor.
- ○ Indicates direction of span for cladding & cladding backup for wind and seismic loads. See sheet S001 and specifications for design loads and performance criteria.
- (G) Glass/glazing/curtain wall/storefront cladding system (performance specified). See specifications for additional performance design criteria & sheet S001 for loading criteria. Connections to structure must accommodate indicated movements of the structure.
- (S) Light gauge metal stud cladding backup system. See specifications for additional performance design criteria & sheet S001 for load criteria. Connections to structure must be able to accommodate indicated movements of the structure.
- $\triangle_v$ Indicates the amount of vertical deflection of the primary or secondary structure to be accommodated by the cladding system and its attachments.
- $\triangle_h$ Indicates the amount of horizontal out-of-plane deflection to be accommodated on the cladding system and its attachments

Cladding & Cladding Backup Criteria Notes:

1. This drawing indicates the support conditions and provides design criteria for performance specified cladding components and cladding backup systems.
2. Cladding Contractor shall engineer, furnish & install any misc. steel and embeds that are required to support their system.
3. All cladding and cladding component connections to the structural system must accomodate building movements indicated on this drawing.
4. Each Cladding Engineer must coordinate reactions on their system from other cladding systems.
5. See loading diagrams for wind pressure design parameters.
6. 42% of ultimate level design pressure may be used for deflection calculations due to wind loads per IBC2012, Table 1604.3, Footnote F.
7. Regions near all discontinuities including corners, soffits & parapets shall be designed for Zone 5 pressures per figure 30.6-1 (ASCE 7-10).
8. Metal stud framing to accept vertical and lateral loads from window systems. Additional cold-formed plates & angles required for window and stone sill support are to be engineered and supplied by cold-formed metal framing supplier (See Arch. plans for additional information).
9. Design metal stud backup with no greater than H/360 (3/8" max.) out-of-plane deflection for non-masonry cladding systems and H/600 out-of-plane deflection for brick cladding. Design metal stud headers over openings with no greater than L/600 (1/4" max.) in-plane vertical deflection.

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Construction Documents

TROY A. MAGNUS REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

CLADDING ELEVATIONS

S-301

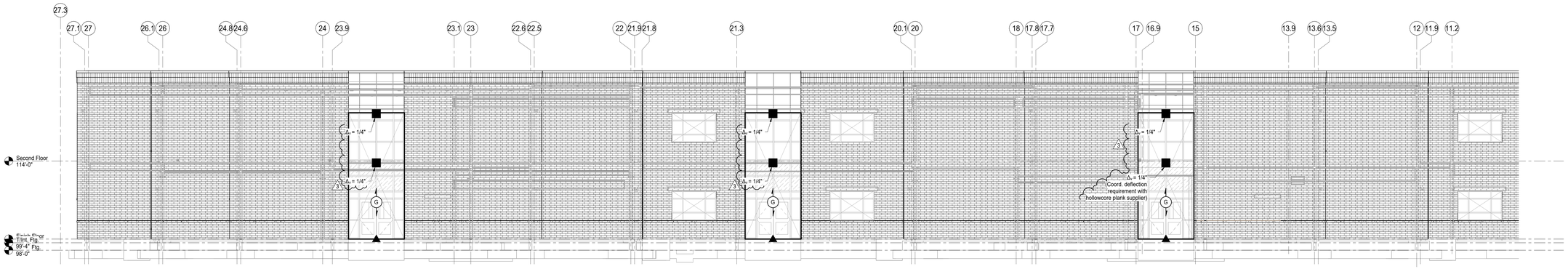
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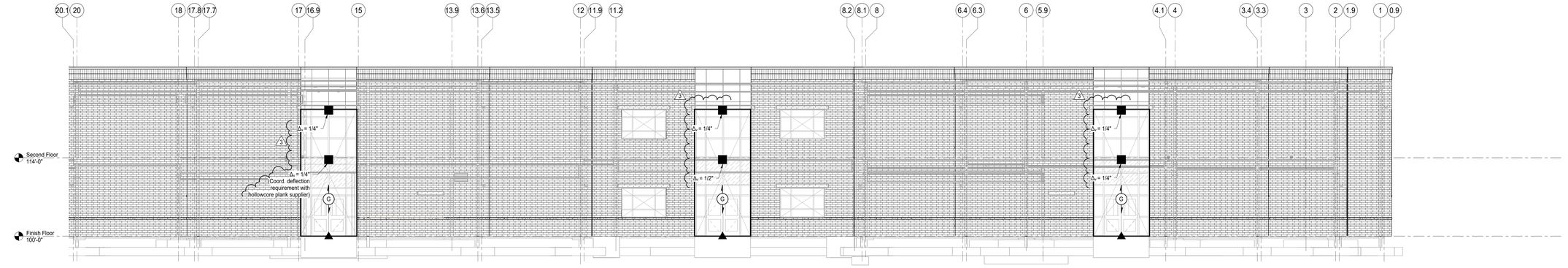
- ▲ Dead load and lateral connection to primary structure, cladding backup or other cladding system. Dead load connection design by Contractor, including any additional misc. steel required but not shown on structural plans.
- ■ Lateral tie-back only accommodates structural deflections indicated on elevations. Lateral connection design by Contractor.
- ○ Indicates direction of span for cladding & cladding backup for wind and seismic loads. See sheet S001 and specifications for design loads and performance criteria.
- (G) Glass/glazing/curtain wall/storefront cladding system (performance specified). See specifications for additional performance design criteria & sheet S001 for loading criteria. Connections to structure must accommodate indicated movements of the structure.
- (S) Light gauge metal stud cladding backup system. See specifications for additional performance design criteria & sheet S001 for load criteria. Connections to structure must be able to accommodate indicated movements of the structure.
- △v Indicates the amount of vertical deflection of the primary or secondary structure to be accommodated by the cladding system and its attachments.
- △h Indicates the amount of horizontal out-of-plane deflection to be accommodated on the cladding system and its attachments

Cladding & Cladding Backup Criteria Notes:

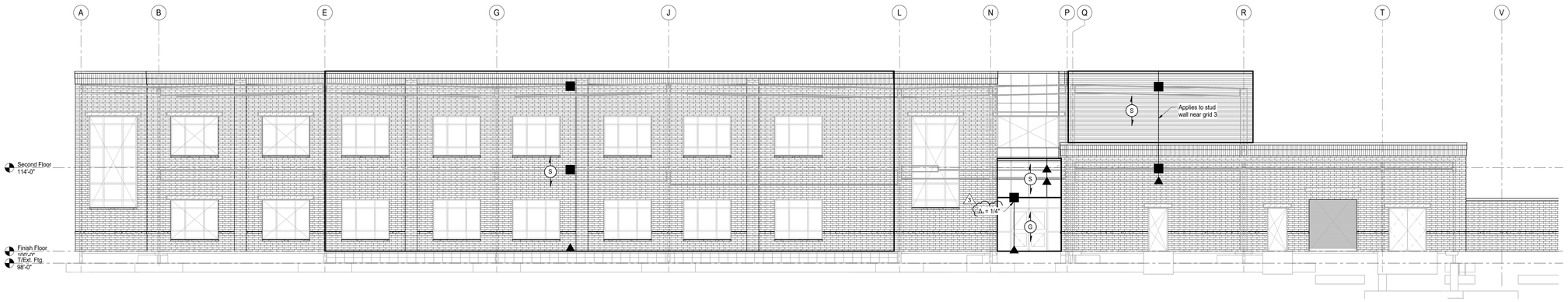
1. This drawing indicates the support conditions and provides design criteria for performance specified cladding components and cladding backup systems.
2. Cladding Contractor shall engineer, furnish & install any misc. steel and embeds that are required to support their system.
3. All cladding and cladding component connections to the structural system must accomodate building movements indicated on this drawing.
4. Each Cladding Engineer must coordinate reactions on their system from other cladding systems.
5. See loading diagrams for wind pressure design parameters.
6. 42% of ultimate level design pressure may be used for deflection calculations due to wind loads per IBC2012, Table 1604.3, Footnote F.
7. Regions near all discontinuities including corners, soffits & parapets shall be designed for Zone 5 pressures per figure 30.6-1 (ASCE 7-10).
8. Metal stud framing to accept vertical and lateral loads from window systems. Additional cold-formed plates & angles required for window and stone sill support are to be engineered and supplied by cold-formed metal framing supplier (See Arch. plans for additional information).
9. Design metal stud backup with no greater than H/360 (3/8" max.) out-of-plane deflection for non-masonry cladding systems and H/600 out-of-plane deflection for brick cladding. Design metal stud headers over openings with no greater than L/600 (1/4" max.) in-plane vertical deflection.



1 Cladding Elevation
Scale: 1/8" = 1'-0"



2 Cladding Elevation
Scale: 1/8" = 1'-0"



3 Cladding Elevation
Scale: 1/8" = 1'-0"

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Construction Documents

TROY A. MAGNUS REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

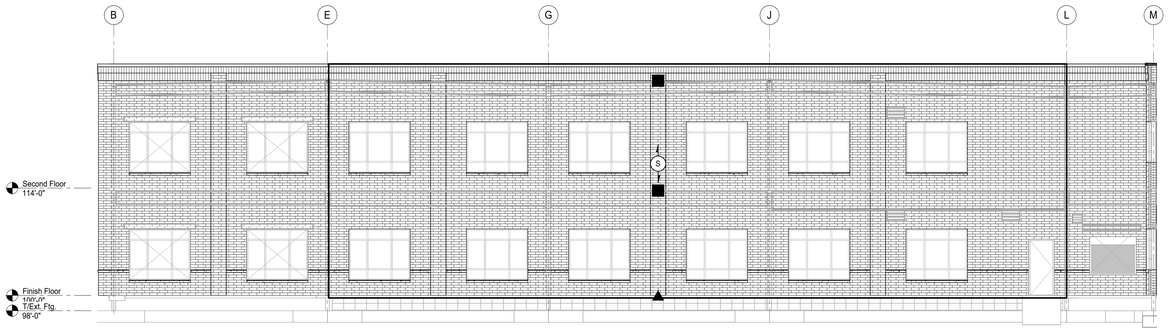
PROJECT ISSUE DATE: October 28, 2025

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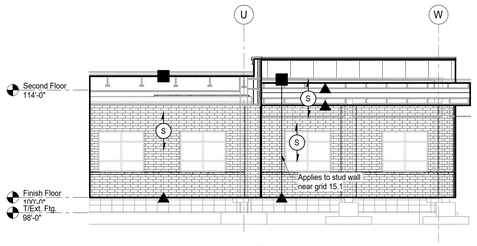
CLADDING ELEVATIONS

S-302

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1 Cladding Elevation
Scale: 1/8" = 1'-0"



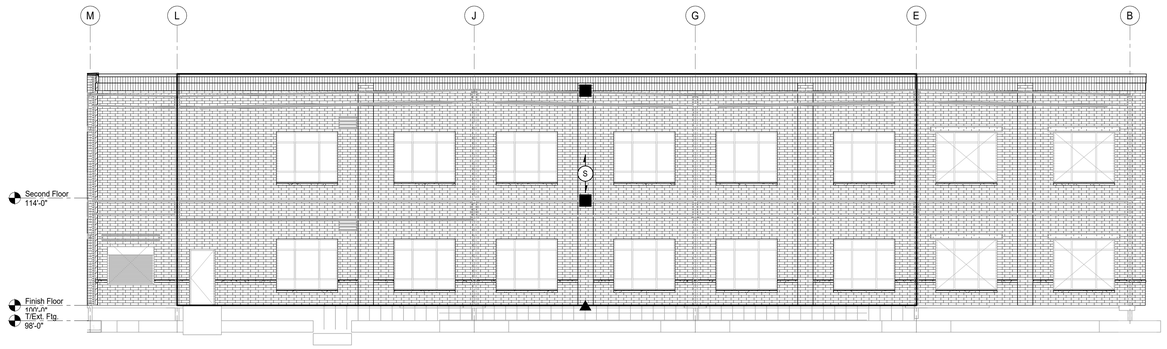
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Cladding Backup Criteria Legend

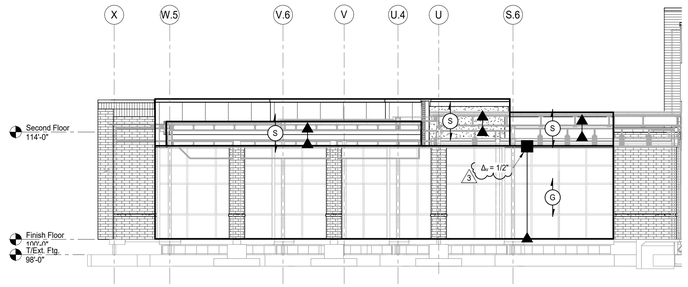
- Dead load and lateral connection to primary structure, cladding backup or other cladding system. Dead load connection design by Contractor, including any additional misc. steel required but not shown on structural plans.
- Lateral tie-back only accommodates structural deflections indicated on elevations. Lateral connection design by Contractor.
- Indicates direction of span for cladding & cladding backup for wind and seismic loads. See sheet S001 and specifications for design loads and performance criteria.
- G — Glass/glazing/curtain wall/store front cladding system (performance specified). See specifications for additional performance design criteria & sheet S001 for loading criteria. Connections to structure must accommodate indicated movements of the structure.
- S — Light gauge metal stud cladding backup system. See specifications for additional performance design criteria & sheet S001 for load criteria. Connections to structure must be able to accommodate indicated movements of the structure.
- Δ_v — Indicates the amount of vertical deflection of the primary or secondary structure to be accommodated by the cladding system and its attachments.
- Δ_h — Indicates the amount of horizontal out-of-plane deflection to be accommodated on the cladding system and its attachments

Cladding & Cladding Backup Criteria Notes:

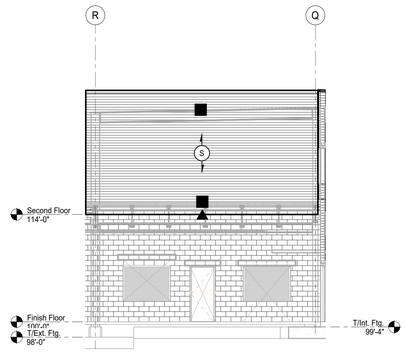
1. This drawing indicates the support conditions and provides design criteria for performance specified cladding components and cladding backup systems.
2. Cladding Contractor shall engineer, furnish & install any misc. steel and embeds that are required to support their system.
3. All cladding and cladding component connections to the structural system must accomodate building movements indicated on this drawing.
4. Each Cladding Engineer must coordinate reactions on their system from other cladding systems.
5. See loading diagrams for wind pressure design parameters.
6. 42% of ultimate level design pressure may be used for deflection calculations due to wind loads per IBC2012, Table 1604.3, Footnote F.
7. Regions near all discontinuities including corners, soffits & parapets shall be designed for Zone 5 pressures per figure 30.6-1 (ASCE 7-10).
8. Metal stud framing to accept vertical and lateral loads from window systems. Additional cold-formed plates & angles required for window and stone sill support are to be engineered and supplied by cold-formed metal framing supplier (See Arch. plans for additional information).
9. Design metal stud backup with no greater than H/360 (3/8" max.) out-of-plane deflection for non-masonry cladding systems and H/600 out-of-plane deflection for brick cladding. Design metal stud headers over openings with no greater than L/600 (1/4" max.) in-plane vertical deflection.



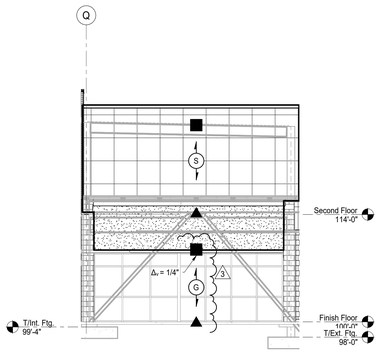
2 Cladding Elevation
Scale: 1/8" = 1'-0"



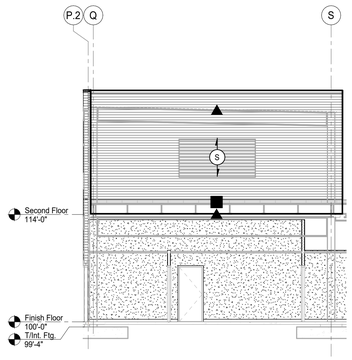
4 Cladding Elevation
Scale: 1/8" = 1'-0"



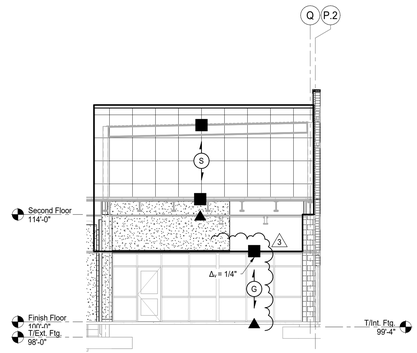
5 Cladding Elevation
Scale: 1/8" = 1'-0"



6 Cladding Elevation
Scale: 1/8" = 1'-0"



7 Cladding Elevation
Scale: 1/8" = 1'-0"



8 Cladding Elevation
Scale: 1/8" = 1'-0"

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www.MagnusEng.com

Construction Documents

TROY A. WALDEN REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
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3	Addendum #3	11-18-2025

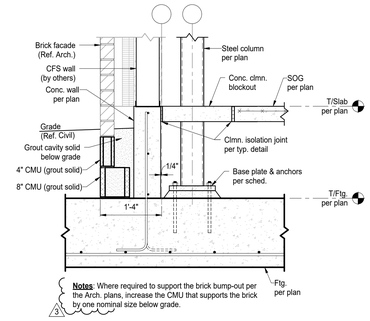
CLADDING ELEVATIONS

2

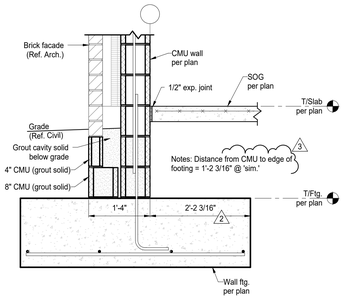
S-303

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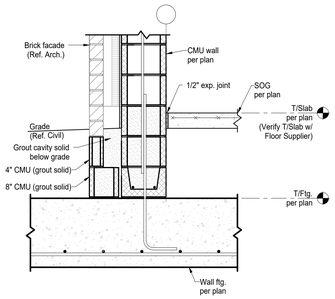
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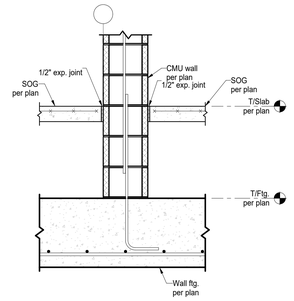
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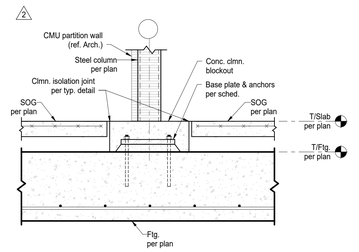
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Scale: 3/4" = 1'-0"



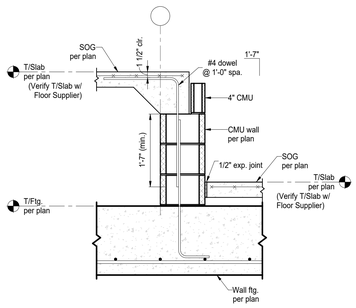
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Scale: 3/4" = 1'-0"



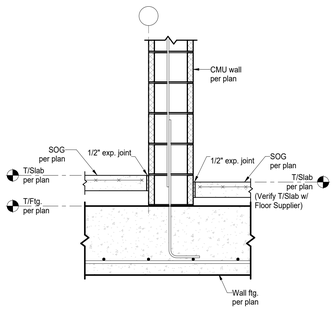
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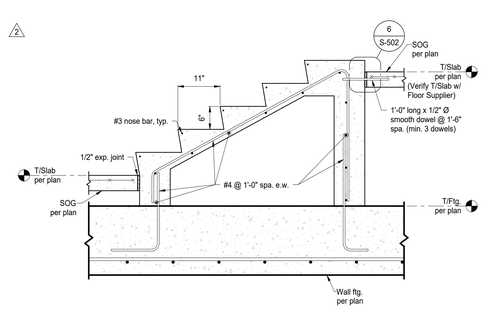
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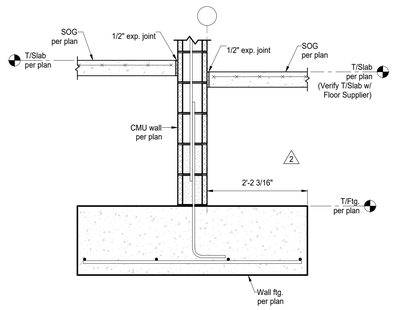
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Scale: 3/4" = 1'-0"



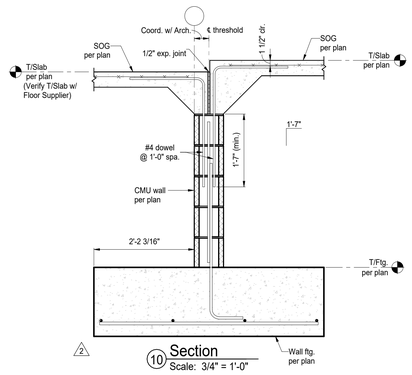
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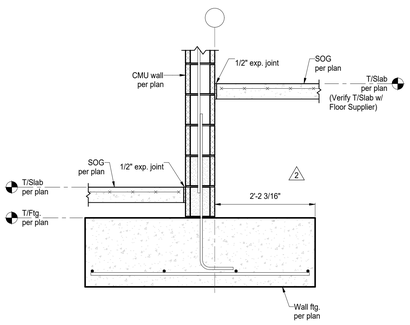
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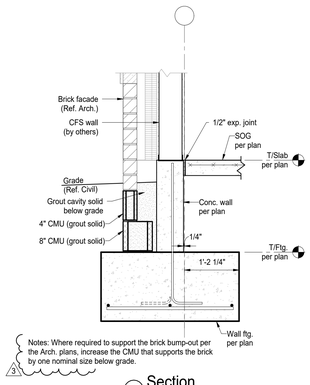
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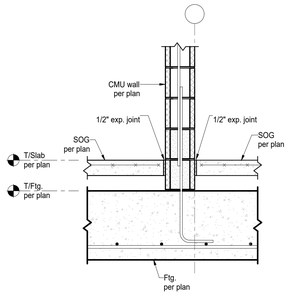
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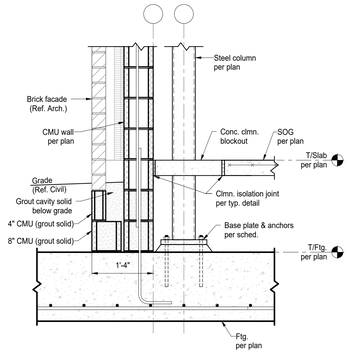
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Scale: 3/4" = 1'-0"



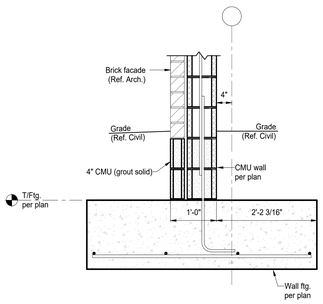
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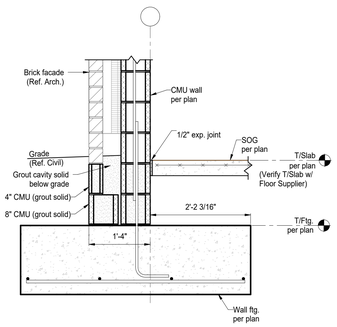
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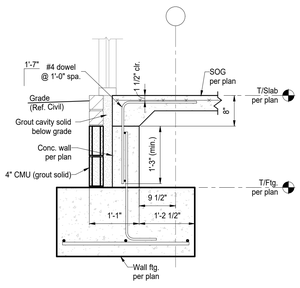
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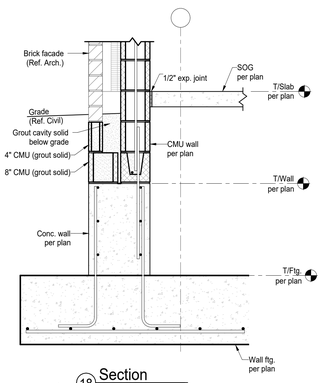
15 Section
Scale: 3/4" = 1'-0"



16 Section
Scale: 3/4" = 1'-0"



17 Section
Scale: 3/4" = 1'-0"



18 Section
Scale: 3/4" = 1'-0"

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Construction Documents

TROY A. MALDEN
REGISTERED
No. PE10100188
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

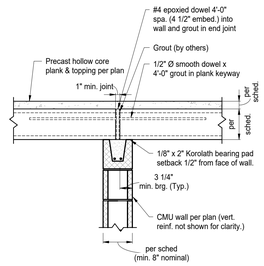
PROJECT ISSUE DATE: October 28, 2025

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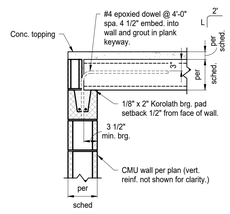
FOUNDATION/CONC. DETAILS

S-503

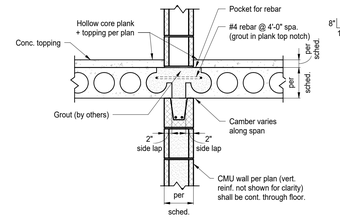
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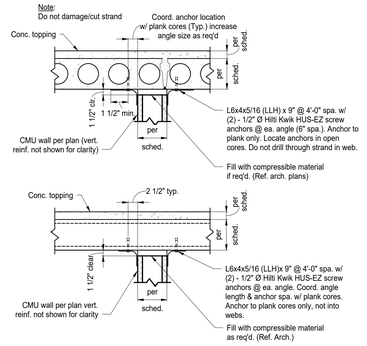
1 Hollow Core Plank Brg. on CMU Wall from Both Sides
Scale: N.T.S.



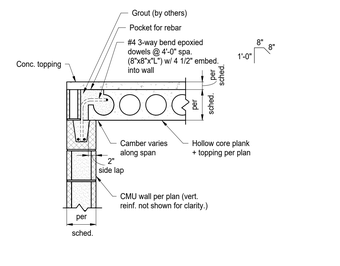
2 Hollow Core Plank Brg. on CMU Wall from One Side
Scale: N.T.S.



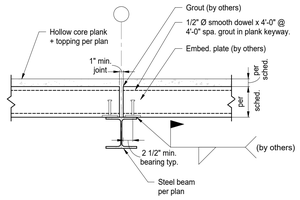
3 Hollow Core Plank Sidelap on CMU Wall from Both Sides
Scale: N.T.S.



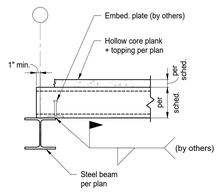
4 CMU Partition Wall @ Hollow Core Plank
Scale: N.T.S.



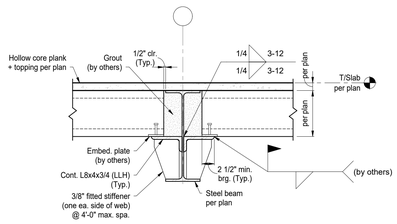
5 Plank Sidelap @ CMU Wall - Rebar Down
Scale: N.T.S.



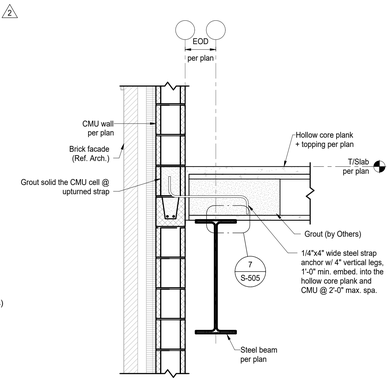
6 Hollow Core Plank Brg. on Steel Beam from Both Sides
Scale: N.T.S.



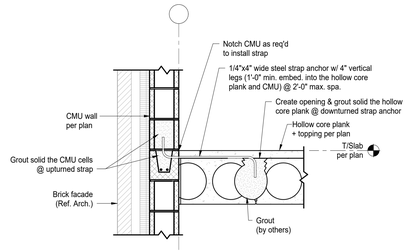
7 Hollow Core Plank Brg. on Steel Beam from One Side
Scale: N.T.S.



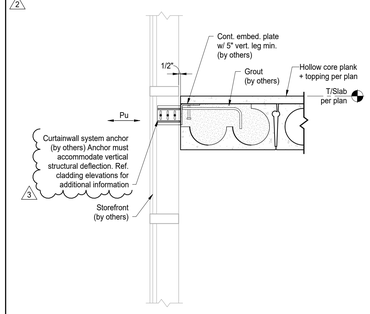
8 Hollow Core Plank Brg. on Steel Beam from Both Sides w/ Shelf Angles
Scale: N.T.S.



9 Section
Scale: 3/4" = 1'-0"

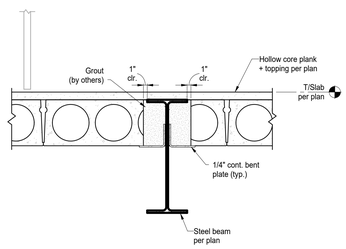


10 Section
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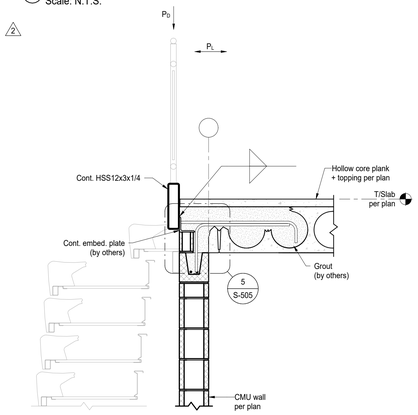


Notes:
1. Embed. plate shall be designed for a force (Pu) of ± 1.5 kips (LRFD) considering all applicable limit states.
2. ± designation indicates a force that can occur in either direction.

11 Section
Scale: 3/4" = 1'-0"

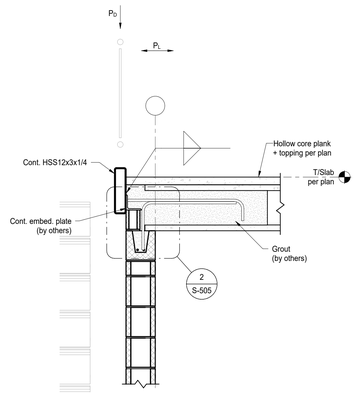


12 Section
Scale: 3/4" = 1'-0"



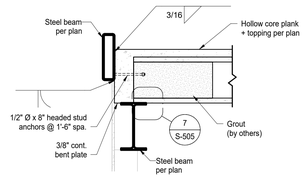
Notes:
1. Embed. plate shall be designed for the following forces considering all applicable limit states:
   a. PD = Self weight of the guardrail system.
   b. PL = 200 lbs applied in any direction at any point along the top rail.
   c. PL = 50 plf applied in any direction along the top rail. This load need not be applied simultaneously w/ load 1b.
2. The above provided loads are service level dead and live loads, and shall be factored as necessary for strength level design.

13 Section
Scale: 3/4" = 1'-0"



Notes:
1. Embed. plate shall be designed for the following forces considering all applicable limit states:
   a. PD = Self weight of the guardrail system.
   b. PL = 200 lbs applied in any direction at any point along the top rail.
   c. PL = 50 plf applied in any direction along the top rail. This load need not be applied simultaneously w/ load 1b.
2. The above provided loads are service level dead and live loads, and shall be factored as necessary for strength level design.

14 Section
Scale: 3/4" = 1'-0"



15 Section
Scale: 3/4" = 1'-0"

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Construction Documents

TROY A. MILDER REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

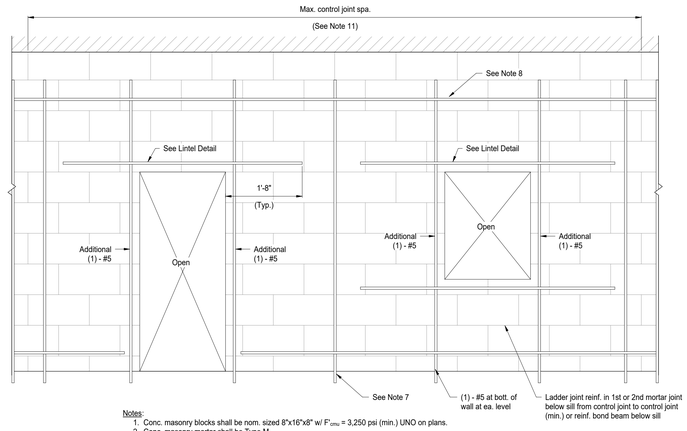
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
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3	Addendum #3	11-18-2025

TYP. HOLLOW CORE PLANK DETAILS

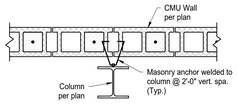
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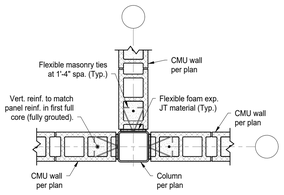


Notes:
1. Conc. masonry blocks shall be nom. sized 8"x16"x8" w/ F'_{cmu} = 3,250 psi (min.) UNO on plans.
2. Conc. masonry mortar shall be Type M.
3. Conc. masonry grout shall be F'_g = 1,900 (min.) & greater than masonry assembly compressive strength f'_m = 2,500 psi (min.).
4. Reinf. steel shall be ASTM A615 w/ F'_y = 60 ksi (min.).
5. Reinf. shown is typ. at all CMU walls UNO on plans.
6. Horiz. Reinf.: Provide 9 gauge horiz. joint reinf. @ 1'-4" spa. Lap splice horiz. joint reinf. 75 dia. of side rods or 1'-1" (min.).
7. Vert. Reinf.: Provide vert. reinf. as noted on drawings & at opening jambs. Provide min. #5 reinf. @ 4'-0" spa. in all walls, including the CMU partition walls. Lap splice vert. reinf. per masonry wall reinf. lap splice schedule. See Typ. Load-Bearing CMU Wall Const. detail for other requirements. (3)
8. Provide horiz. bond beams w/ (2) - #5's cont. at tops of walls and along horiz. length, at any elev. of points of struct. attachment, misc. steel anchorage, or other component or equip. connections. Coord. as req'd w/ Arch. and MEP drawings.
9. Masonry walls (including those portions separating windows or doors) that are ≤ 4'-0" long and ≥ 2'-8" tall must have (2) - #5 bars placed in each end cell and have all cells fully grouted at least to the height of the lintel.
10. All masonry walls shall be constructed of normal weight blocks UNO.
11. Control joints shall be typ. spaced at the lesser of 1.5 times the height of the wall or 25'-0" but as far from lintels as possible within the max. spacing. In addition, control joints shall be placed at locations of stress concentration as follows:
    a. At changes in wall height.
    b. At change in wall thickness, such as at pipe and duct chases and pilasters.
    c. At (above) movement joints in foundations and floors.
    d. At (above and below) movement joints in roofs and floors that bear on a wall.
    e. Adjacent to corners of walls or intersections within a distance equal to half the typical control joint spacing.

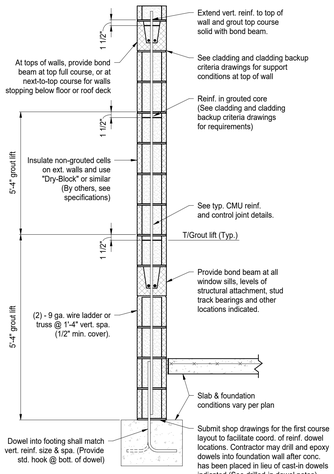
1 Typ. CMU Wall
Scale: N.T.S.



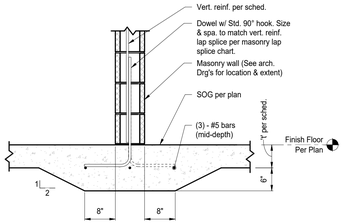
5 Typ. CMU Tie
Scale: N.T.S.



6 Typ. Column Tie
Scale: N.T.S.

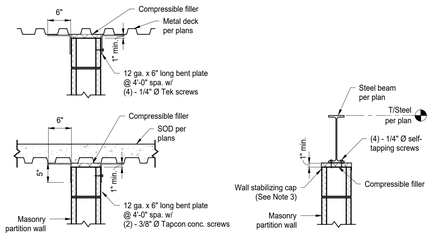


2 Typ. Load-Bearing CMU Wall Const.
Scale: N.T.S.



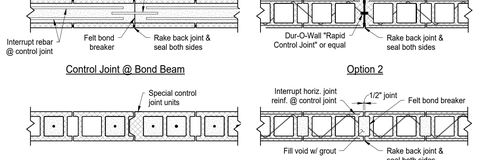
Notes:
1. Provide thickened slab under masonry wall not supported by a ftg.
2. At contractor's option: provide straight dowels instead of hooked dowels. Drill & epoxy 6" into conc. slab. Match vert. bar size & spacing.

3 Typ. Thickened Slab @ CMU Partition Wall
Scale: N.T.S.

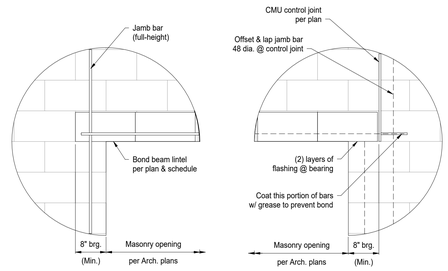


Notes:
1. Provide bent plate clip angles on all int. non-load bearing masonry partition walls. Ref. Arch. plans for location of all masonry partition walls.
2. Bent plate clips may be eliminated if all of the following conditions are met:
    a. Length of wall between perp. intersecting walls is less than the following:
        - 15'-0" for 6" CMU
        - 20'-0" for 8" CMU
        - 22'-0" for 10" CMU
        - 25'-0" for 12" CMU
    b. Wall and intersection have properly installed (9 ga.) truss type horiz. joint reinf. @ 1'-4" spa.
3. Wall stabilizing cap: Prefab. 12 ga. channel.
   Manufacturers and Products
    a. Heckman Building Products - 420 CAP
    b. Hohmann and Barnard Inc. - PTA422
    c. Wirebond - 4310 Partition Top Anchor

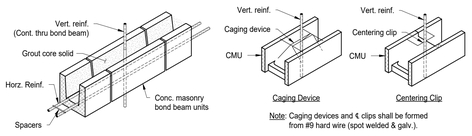
4 Typ. CMU Partition Wall
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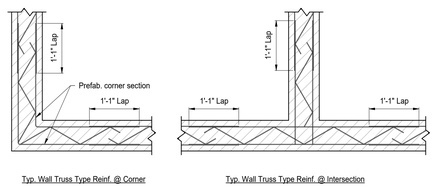


7 Typ. CMU Control Joint Options
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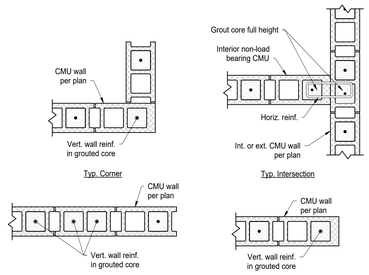


8 CMU Lintel Bearing
Scale: N.T.S.



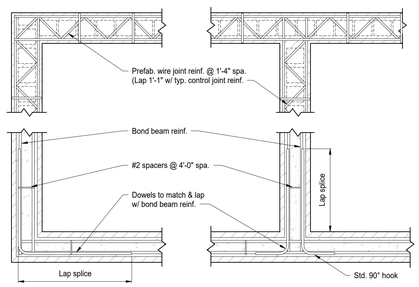


9 Typ. CMU Wall Reinf.
Scale: N.T.S.



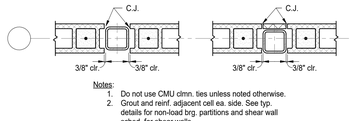
Notes:
1. Reinf. shown in addition to reinf. shown on plans and special details.
2. Reinf. to be same size as adjacent wall reinf. indicated on plans.
3. Typ. details apply to all ext. walls, int. load bearing walls & all walls scheduled to be reinforced.
4. See Typ. Steel Beam Brg. on Masonry detail for additional requirements.

10 Typ. Vert. CMU Wall Reinf.
Scale: N.T.S.



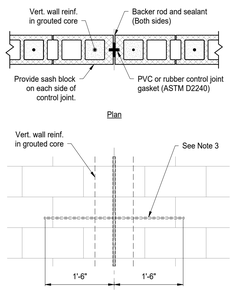
Notes:
1. Provide tension lap splice for all bond beam reinf. UNO. (Ref. schedule)

11 Typ. CMU Wall Bond Beam Reinf.
Scale: N.T.S.



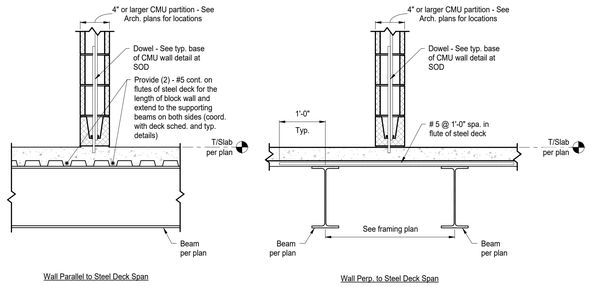
Notes:
1. Do not use CMU clmn. ties unless noted otherwise.
2. Grout and reinf. adjacent cell ea. side. See typ. details for non-load brg. partitions and shear wall sched. for shear walls.

12 Typ. CMU Control Joints @ Steel Column
Scale: N.T.S.



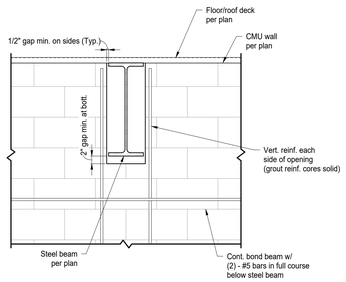
Notes:
1. Bond beam reinf. shall not be applied within 8'-0" of control joint.
2. Horiz. joint reinf. shall be discontinuous at control joint.
3. Bond beam reinf. shall be continuous through control joints at floor and roof levels. Bond beam reinf. shall be interrupted at control joints at other locations (wrap with mastic to create bond break at control joint).

13 Typ. CMU Wall Control Joint
Scale: N.T.S.

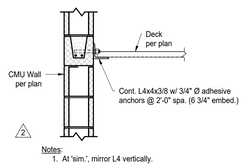


Notes:
1. These details are applicable only when wall is laterally braced at top. See typ. CMU wall details for lateral bracing.
2. Slab reinf. not req'd. if centerline of CMU wall is less than 6" from centerline of beam parallel to wall.

14 Typ. Composite Steel Deck Under CMU Partition Wall
Scale: N.T.S.

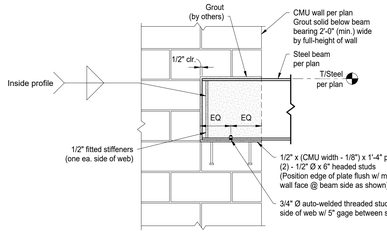


15 Beam Pen. Through Non-Load Brg. CMU Wall
Scale: N.T.S.

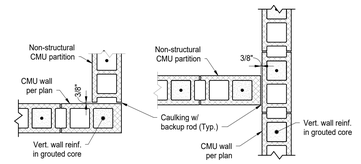


Notes:
1. At 'sim.', mirror L4 vertically.

16 Typ. Ledger @ CMU Wall
Scale: N.T.S.



17 Typ. Beam Bearing on Parallel Masonry
Scale: N.T.S.



18 Typ. CMU Control Joints @ Non-Structural Partitions
Scale: N.T.S.

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DRAWN BY: LWT

PROJECT NUMBER: 223047.01

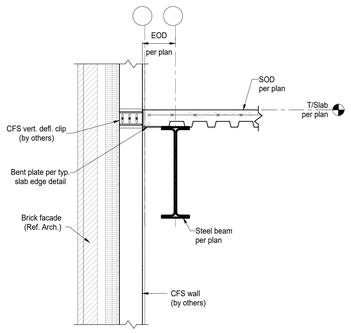
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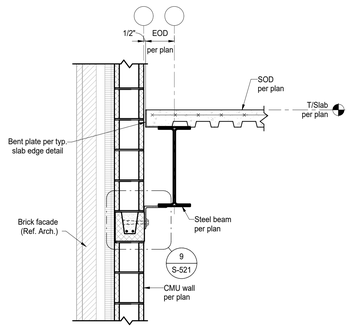
TYP. MASONRY DETAILS

S-510

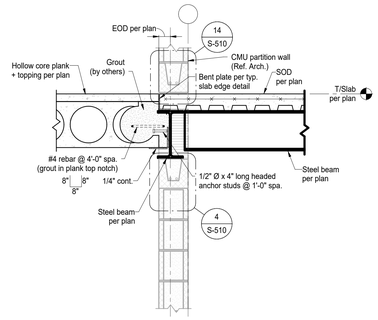
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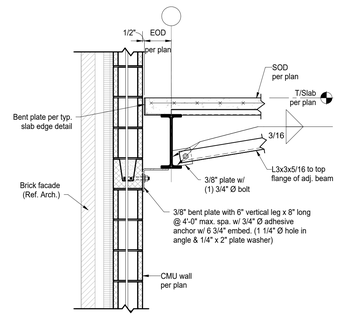
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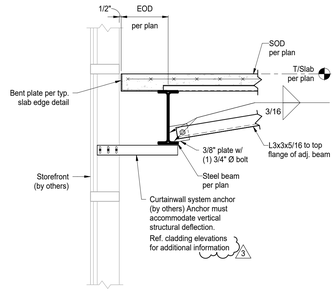


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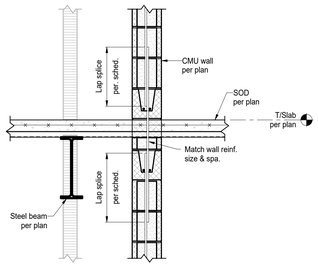
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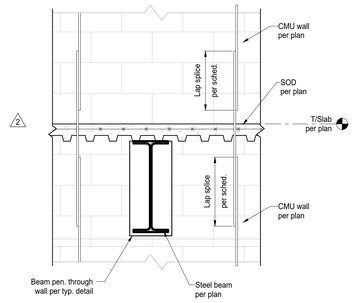


Notes: No L3 kickers req'd @ 'sim.'

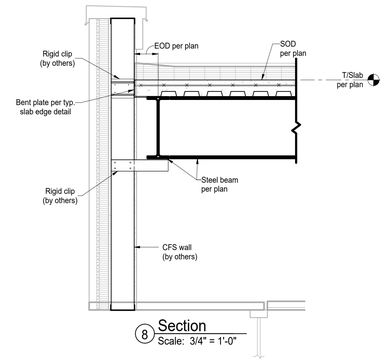
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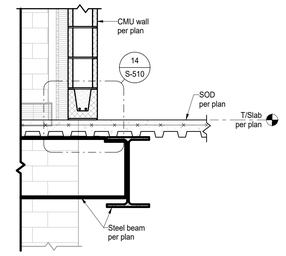
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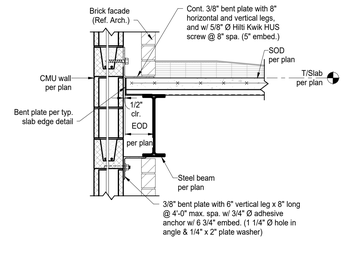
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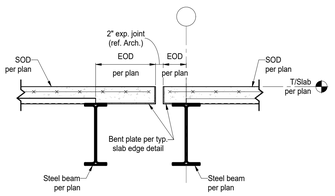
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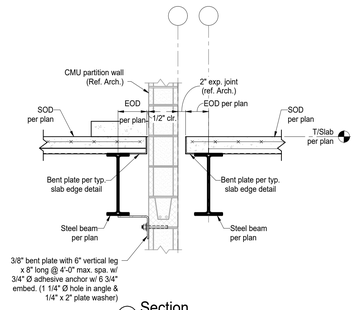
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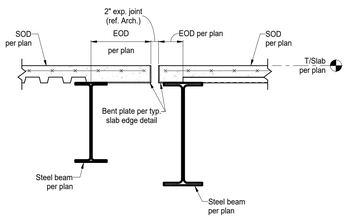
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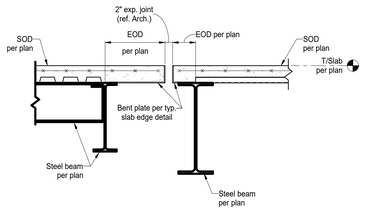
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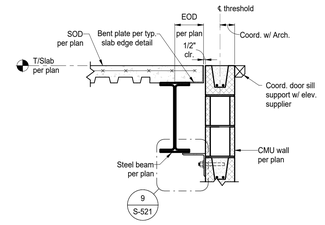
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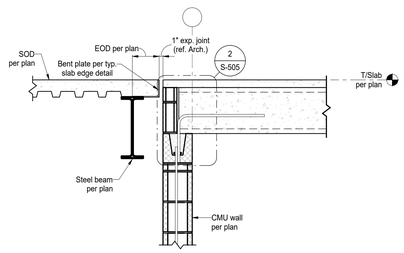
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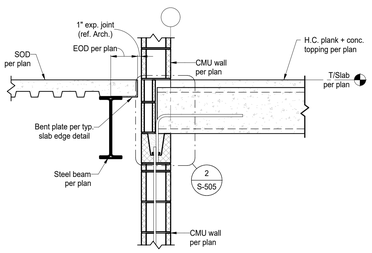
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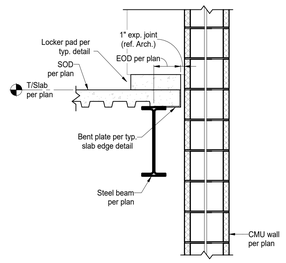
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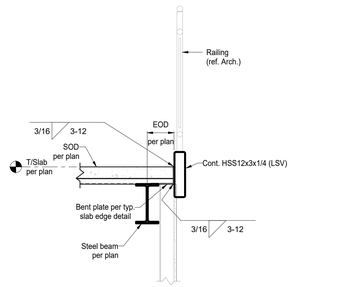
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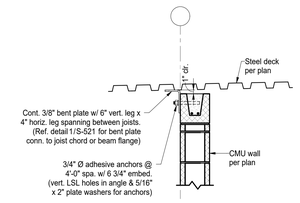
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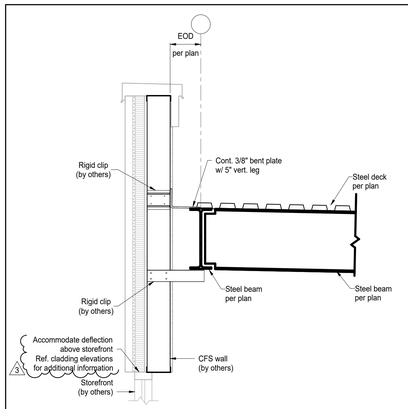
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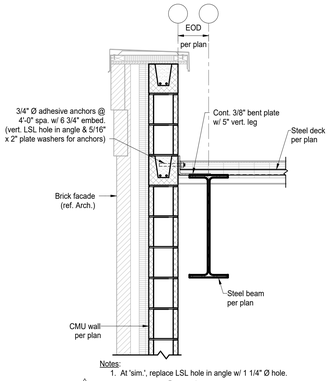
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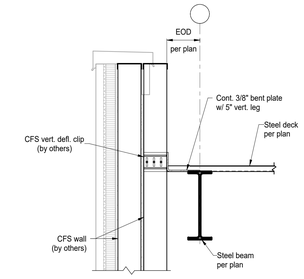
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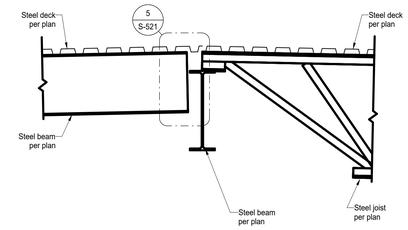
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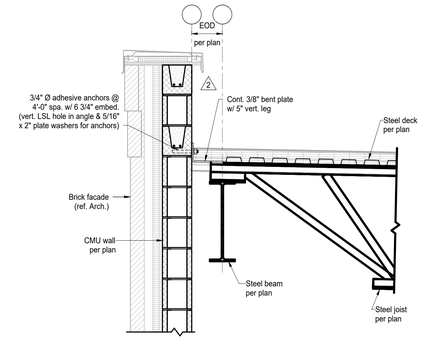
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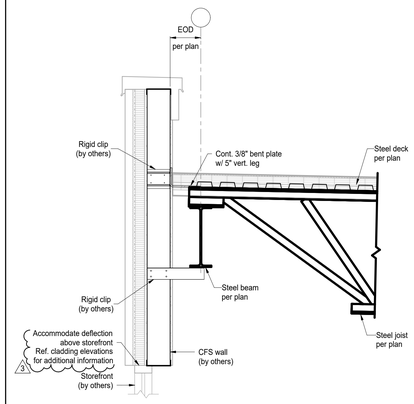
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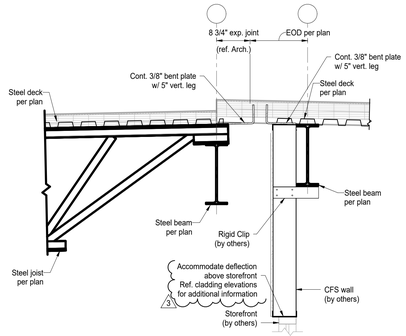
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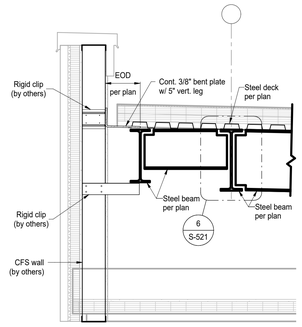
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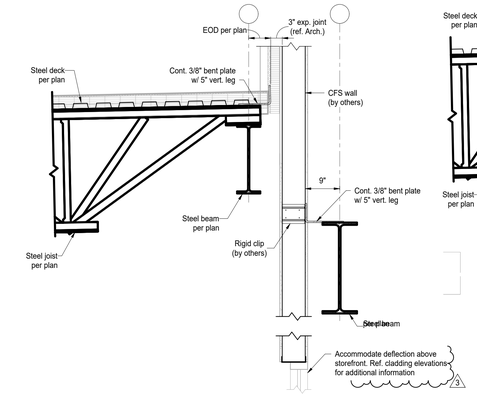
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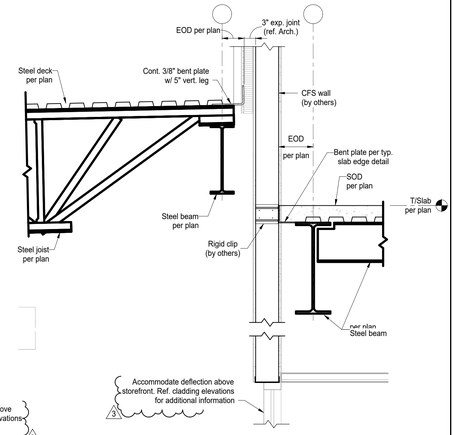
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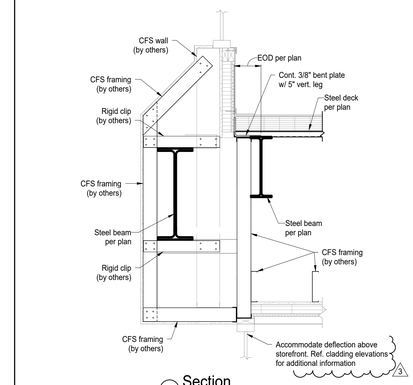
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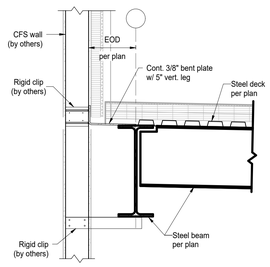
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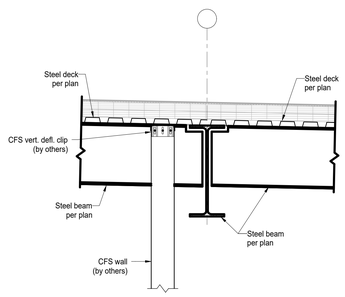
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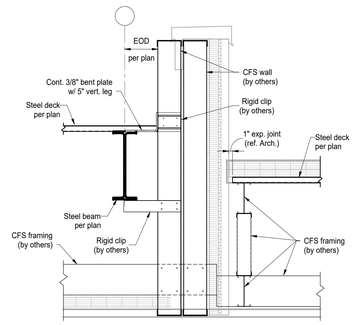
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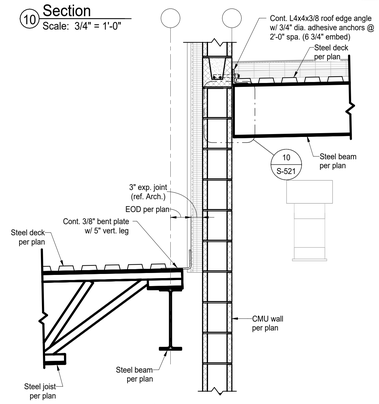
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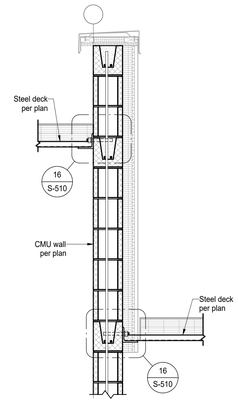
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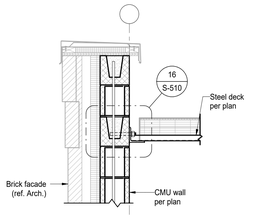
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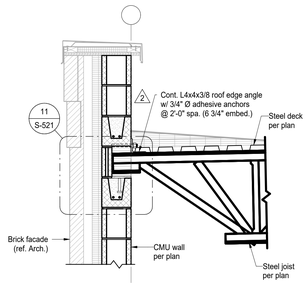
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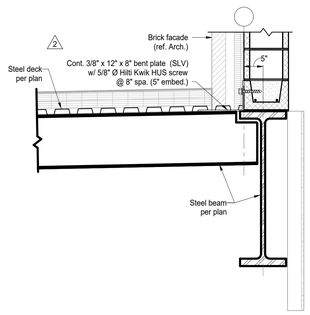
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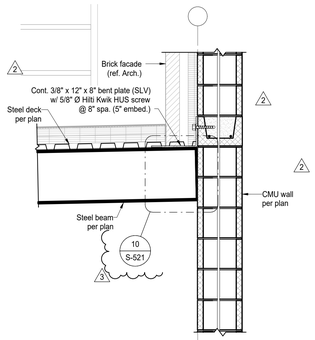
17 Section
Scale: 3/4" = 1'-0"



18 Section
Scale: 3/4" = 1'-0"



19 Section
Scale: 3/4" = 1'-0"



Notes: Steel joist in lieu of steel beam @ 'sim.', Refer to detail 11/S-521 for joist bearing conn.

20 Section
Scale: 3/4" = 1'-0"

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MAGNUS ENGINEERING

STRENGTH | TRUST | COMMITMENT

1415 Lincolnway West, Ste D, Osceola, IN 46561
contactus@MagnusEng.com
www.MagnusEng.com

Construction Documents

TROY A. MALDEN
REGISTERED
No. PE10100188
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

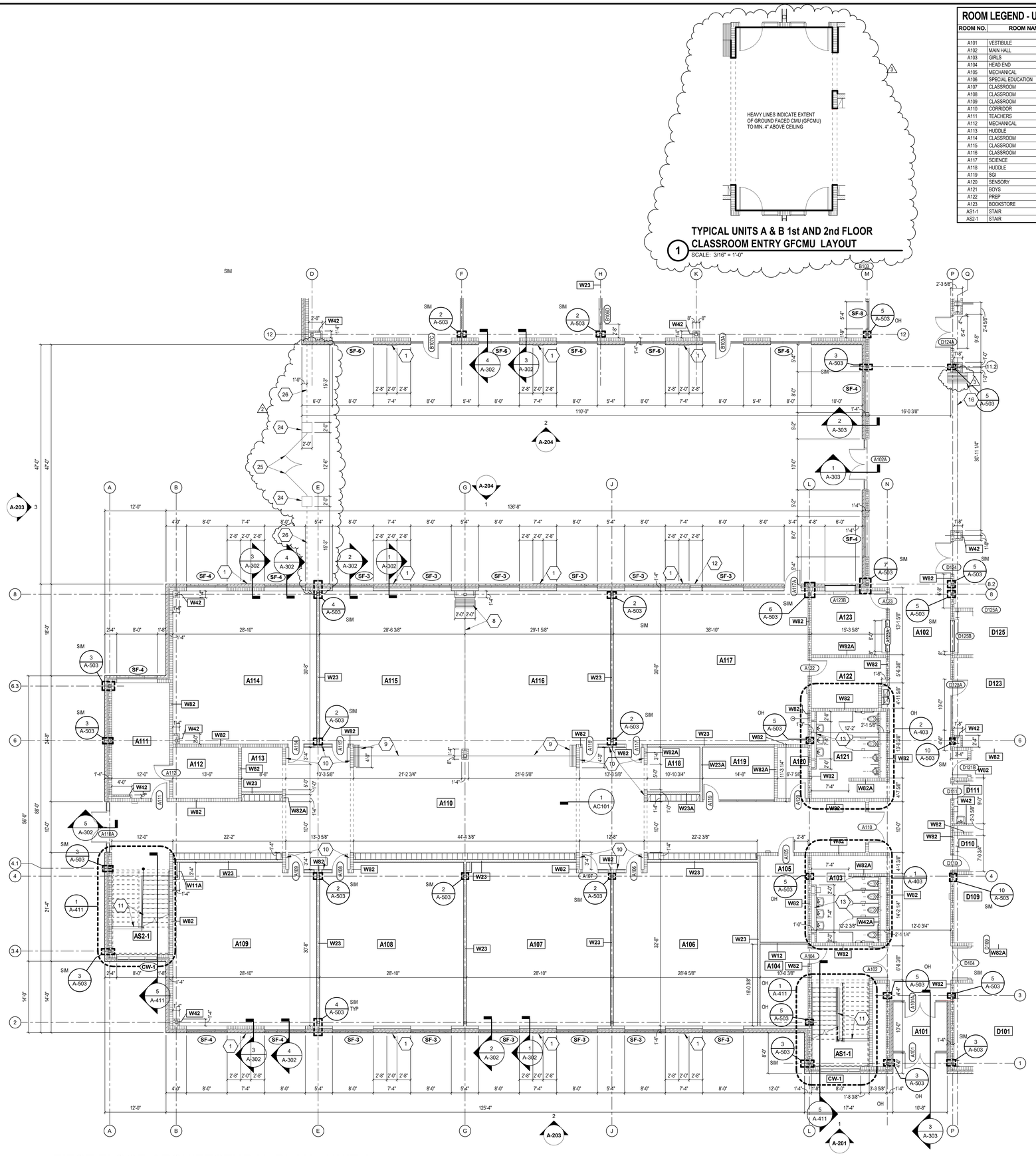
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

STEEL FRAMING DETAILS

S-524

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FIRST FLOOR ARCHITECTURAL PLAN - UNIT A

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

ROOM LEGEND - UNIT A FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1,968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2,370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1,148 SF
A118	HUDDLE	90 SF
A119	SGI	147 SF
A120	SENSORY	60 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE. EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
J. REFER TO FINISH PLANS AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
L. REFER TO MASTER/CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN KEYNOTES

X

W### INDICATES WALL TYPE. REFER TO DRAWING A-100 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

1. 1 1/2" BRICK BUMP-OUT
2. 1 LAYER OF 5/8" GWB ADHERED TO CMU TO 4" ABOVE CEILING
3. LADDER AND ROOF HATCH (D105) APPROX. 15'-8" TALL (VERIFY). SEE 4-AR102.
4. LOCK BOX
5. AUTO DOOR OPERATOR ACTUATOR
6. LADDER AND ROOF HATCH (D201) APPROX. 14'-4" TALL (VERIFY). SEE 4-AR102.
7. LADDER AND ROOF HATCH (F202) APPROX. 14'-8" TALL (VERIFY). SEE 4-AR102.
8. OPERABLE (FOLDING PANEL) PARTITION - SEE 4-AC102
9. OPERABLE (FOLDING PANEL) PARTITION - SEE 5-AC102
10. GROUND FACE CMU (GFCMU) FINISH ON CORRIDOR / HUDDLE SIDE. AT THE JAMBS OF OPERABLE WALL AND HUDDLE SIDE, THE GFCMU CAN BE 2 WYTHES OF MASONRY TO HAVE FINISHES AT BOTH SIDES. THE GFCMU IS PAINTED CMU AT INTERIOR SIDES OF CLASSROOMS. SEE 1-A11A.
11. 8" CMU WALLS UNDER STAIR. SEE ENLARGED STAIR PLAN.
12. MECHANICAL LOUVER - SEE BUILDING ELEVATIONS
13. LAVATORY SHELF - SEE SHEET A-401
14. DECORATIVE METAL FENCING GATE
15. STAINLESS STEEL COUNTER ON TOP OF CMU - 3'-2" H X 4'-0" D X 2'-11" W
16. OPERABLE GLASS PANEL PARTITION (CENTER STACK, PAIRED PANEL) - SEE 6-AC102
17. PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS, DISSIMILAR MATERIALS, AND AT INTERSECTION OF WALL TO ROOF DECK, BOTH SIDES OF WALL, FOR FULL PERIMETER OF WALLS.
18. SEE ROOF PLAN FOR STAGE SMOKE VENTS
19. GUARDRAIL GATE. VERIFY EXACT LOCATION AND WIDTH WITH BLEACHER INSTALLER. GATE IS TO BE CENTERED ON BLEACHER AISLE.
20. FLOOR TO FLOOR EXPANSION JOINT COVER
21. FLOOR TO WALL EXPANSION JOINT COVER
22. NOTCH SOLID SURFACE SILL TO ACCOMMODATE COLUMN ENCLOSURE WALL
23. 5/8" GWB ON 3 5/8" METAL STUDS FROM STOREFRONT SILL TO HEAD
24. MASONRY FENCE POST - SEE 13-A-11H
25. ORNAMENTAL METAL GATE - SEE DOOR HARDWARE SET #43 IN SPEC SECTION 087100 FOR LOCKSET.
26. 8'-0" TALL ORNAMENTAL FENCING
27. TOP OF WALL BELOW CLOSURE - SEE SETAIL 16-A503.
28. 8" CMU 9'-4" WITH 6" CMU ABOVE TO UNDERSIDE OF SECOND FLOOR. NORTH FACE OF 4" CMU TO ALIGN WITH EDGE OF SECOND FLOOR SLAB ABOVE AND FROM COLUMN AT LINE K.2 TO ADJACENT WALL TO THE EAST. SEE GATHERING STAIR CLOSURE DETAIL ON SHEET A503.

NOTE

SOME COLUMN LINES AND REFERENCES HAVE BEEN OMITTED FROM THE FLOOR PLANS FOR CLARITY. SEE STRUCTURAL DRAWINGS FOR COMPLETE COLUMN LINE GRIDS

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

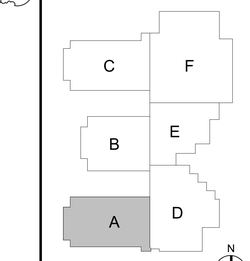
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

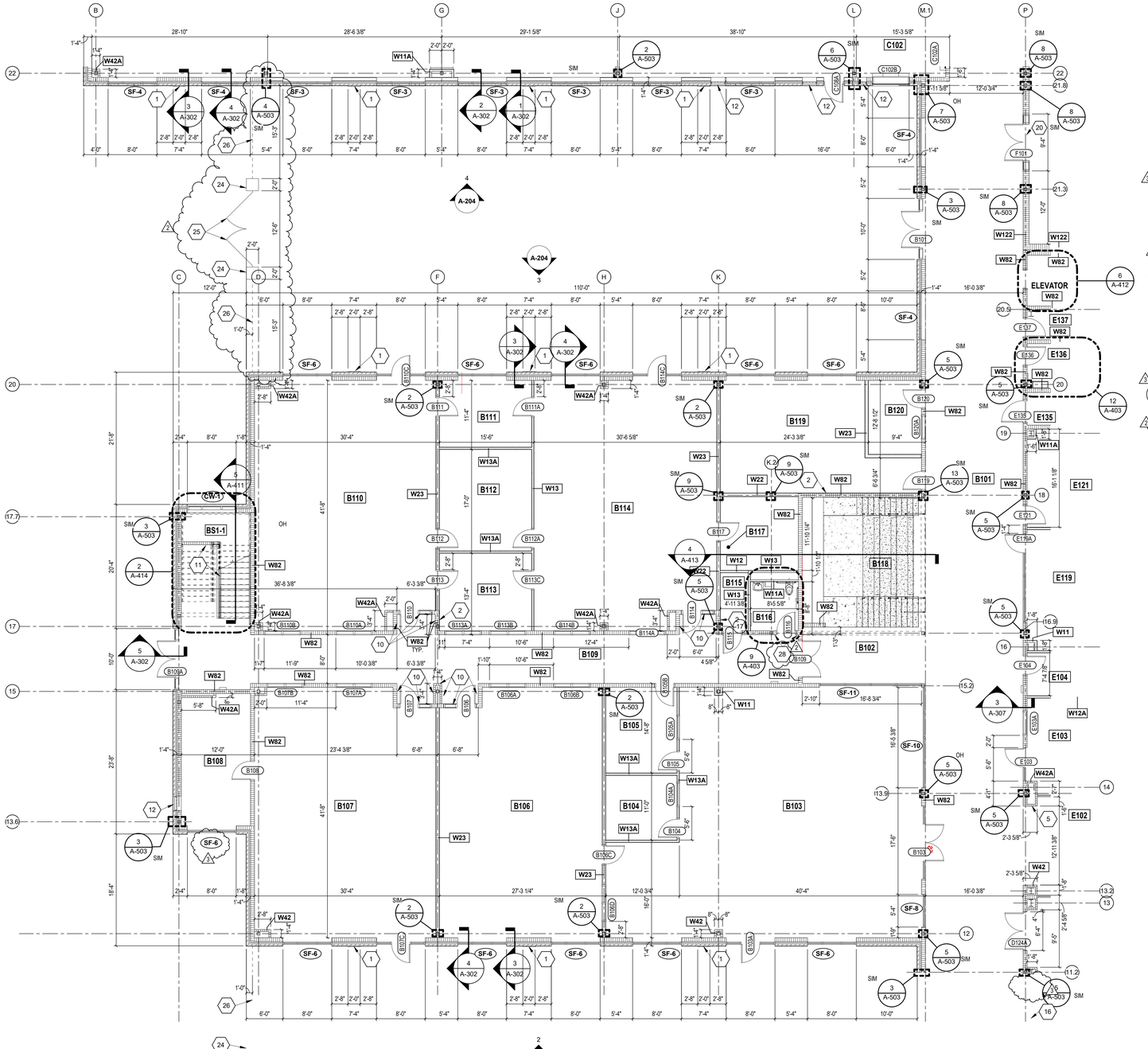
FIRST FLOOR ARCHITECTURE PLAN - UNIT A

A-11A

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ROOM LEGEND - UNIT B FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2,209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1,827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1,071 SF
B107	ART	1,190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1,187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1,198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF



FIRST FLOOR ARCHITECTURAL PLAN - UNIT B

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
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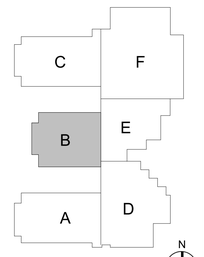
PORTAGE TOWNSHIP SCHOOLS

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KEY PLAN

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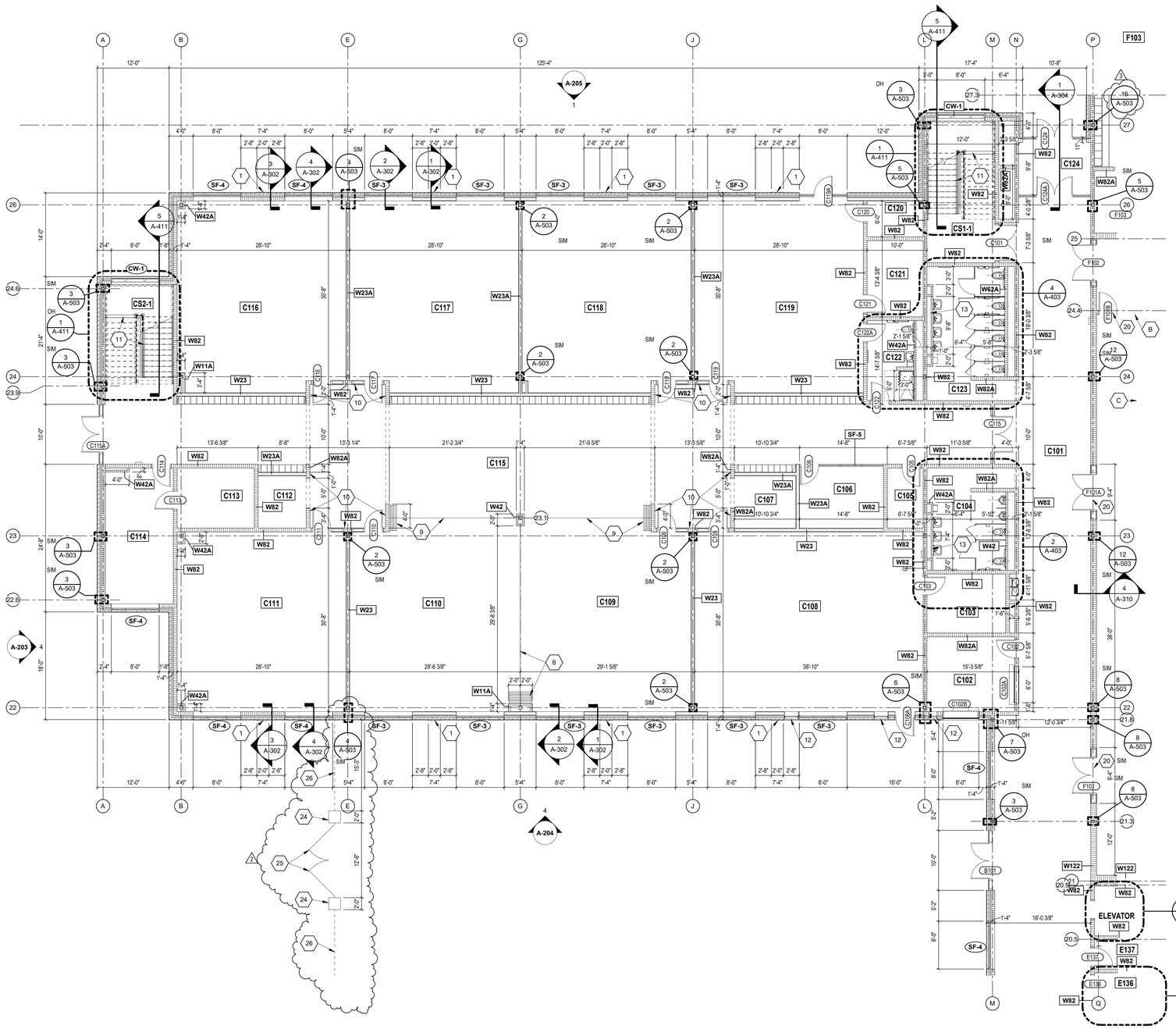
FIRST FLOOR ARCHITECTURE PLAN - UNIT B

A-11B

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11/18/2025 7:34:08 AM

ROOM LEGEND - UNIT C FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
C101	MAIN HALL	1,111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1,147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2,370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
CS2-1	STAIR	220 SF



FIRST FLOOR ARCHITECTURAL PLAN - UNIT C

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
D. ALL INTERIOR MASONRY WALLS S THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE. EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
J. REFER TO FINISH PLANS AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
L. REFER TO MASTER/CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN KEYNOTES

X

W#### INDICATES WALL TYPE. REFER TO DRAWING A-100 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

1. 1 1/2" BRICK BUMP-OUT
2. 1 LAYER OF 5/8" GWB ADHERED TO CMU TO 4" ABOVE CEILING
3. LADDER AND ROOF HATCH (D105) APPROX. 15'-8" TALL (VERIFY). SEE 4-AR102.
4. LOCK BOX
5. AUTO DOOR OPERATOR ACTUATOR
6. LADDER AND ROOF HATCH (D201) APPROX. 14'-4" TALL (VERIFY). SEE 4-AR102.
7. LADDER AND ROOF HATCH (F202) APPROX. 14'-8" TALL (VERIFY). SEE 4-AR102.
8. OPERABLE (FOLDING PANEL) PARTITION - SEE 4-AC102
9. OPERABLE (FOLDING PANEL) PARTITION - SEE 5-AC102
10. GROUND FACE CMU (GFCMU) FINISH ON CORRIDOR / HUDDLE SIDE. AT THE JAMBS OF OPERABLE WALL AND HUDDLE SIDE, THE GFCMU CAN BE 2 WYTHES OF MASONRY TO HAVE FINISHES AT BOTH SIDES. THE GFCMU IS PAINTED CMU AT INTERIOR SIDES OF CLASSROOMS. SEE 1-A11A
11. 8" CMU WALLS UNDER STAIR. SEE ENLARGED STAIR PLAN.
12. MECHANICAL LOUVER - SEE BUILDING ELEVATIONS
13. LAVATORY SHELF - SEE SHEET A-401
14. DECORATIVE METAL FENCING GATE
15. STAINLESS STEEL COUNTER ON TOP OF CMU - 3'-2" H X 4'-0" D X 2'-11" W
16. OPERABLE GLASS PANEL PARTITION (CENTER STACK, PAIRED PANEL) - SEE 6-AC102
17. PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS, DISSIMILAR MATERIALS, AND AT INTERSECTION OF WALL TO ROOF DECK, BOTH SIDES OF WALL, FOR FULL PERIMETER OF WALLS.
18. SEE ROOF PLAN FOR STAGE SMOKE VENTS
19. GUARDRAIL GATE. VERIFY EXACT LOCATION AND WIDTH WITH BLEACHER INSTALLER. GATE IS TO BE CENTERED ON BLEACHER AISLE.
20. FLOOR TO FLOOR EXPANSION JOINT COVER
21. FLOOR TO WALL EXPANSION JOINT COVER
22. NOTCH SOLID SURFACE SILL TO ACCOMMODATE COLUMN ENCLOSURE WALL
23. 5/8" GWB ON 3 5/8" METAL STUDS FROM STOREFRONT SILL TO HEAD
24. MASONRY FENCE POST - SEE 13-A-11H
25. ORNAMENTAL METAL GATE - SEE DOOR HARDWARE SET #43 IN SPEC SECTION 087100 FOR LOCKSET.
26. 8'-0" TALL ORNAMENTAL FENCING
27. TOP OF WALL BELOW CLOSURE - SEE SETAIL 16-A503.
28. 8" CMU 9'-4" WITH 6" CMU ABOVE TO UNDERSIDE OF SECOND FLOOR. NORTH FACE OF 4" CMU TO ALIGN WITH EDGE OF SECOND FLOOR SLAB ABOVE AND FROM COLUMN AT LINE K.2 TO ADJACENT WALL TO THE EAST. SEE GATHERING STAIR CLOSURE DETAIL ON SHEET A503.

NOTE

SOME COLUMN LINES AND REFERENCES HAVE BEEN OMITTED FROM THE FLOOR PLANS FOR CLARITY. SEE STRUCTURAL DRAWINGS FOR COMPLETE COLUMN LINE GRIDS

VERIFICATION NOTE

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

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5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

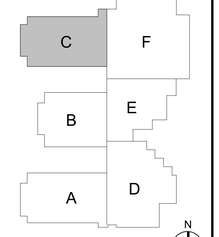
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ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

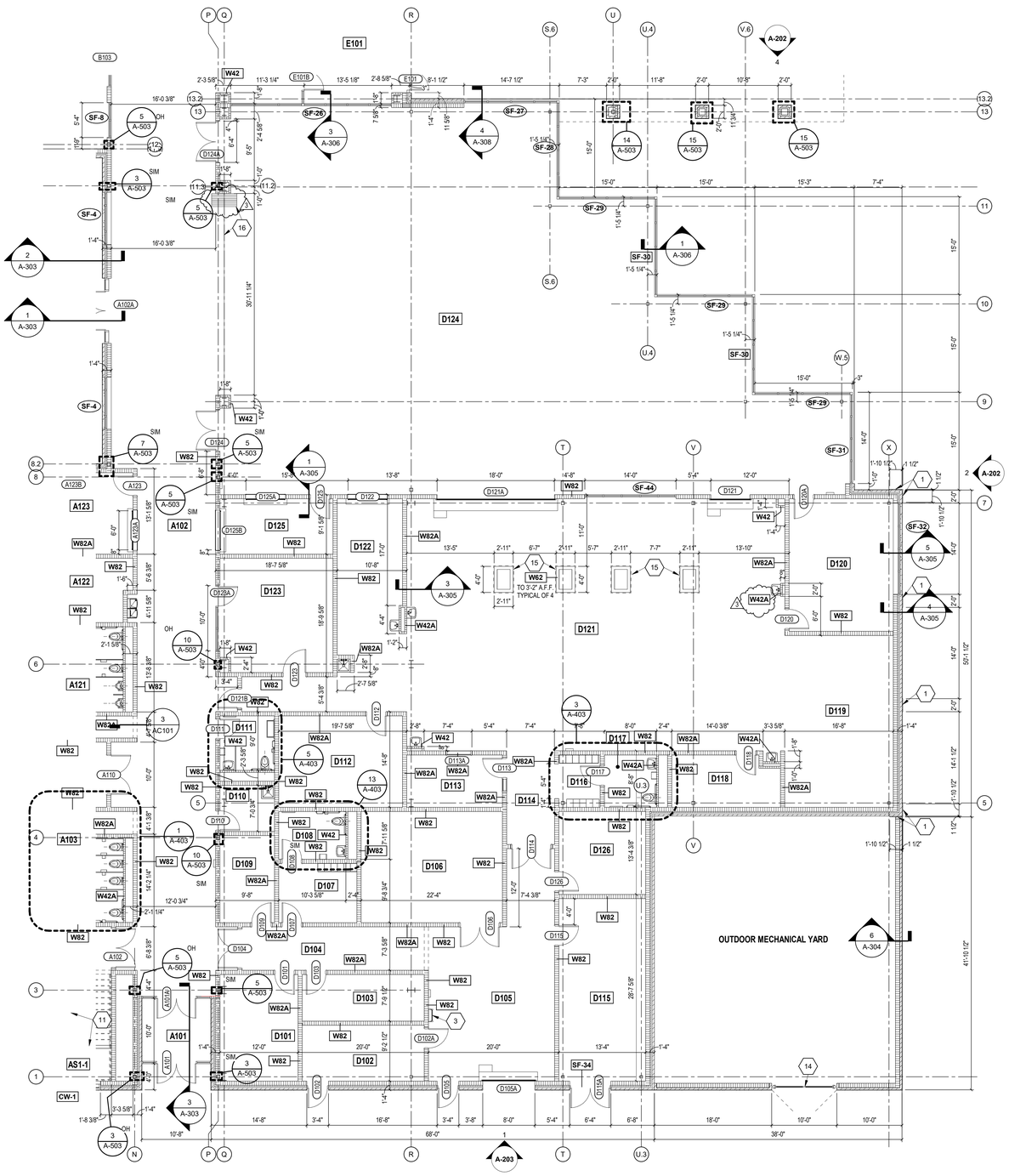
FIRST FLOOR ARCHITECTURE PLAN - UNIT C

A-11C

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ROOM LEGEND - UNIT D FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2,365 SF
D122	DISHWASHING	240 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4,442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF



FIRST FLOOR ARCHITECTURAL PLAN - UNIT D

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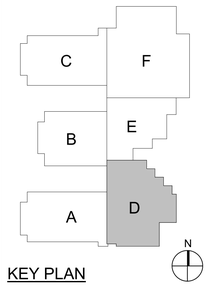
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KEY PLAN

Construction Documents

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PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

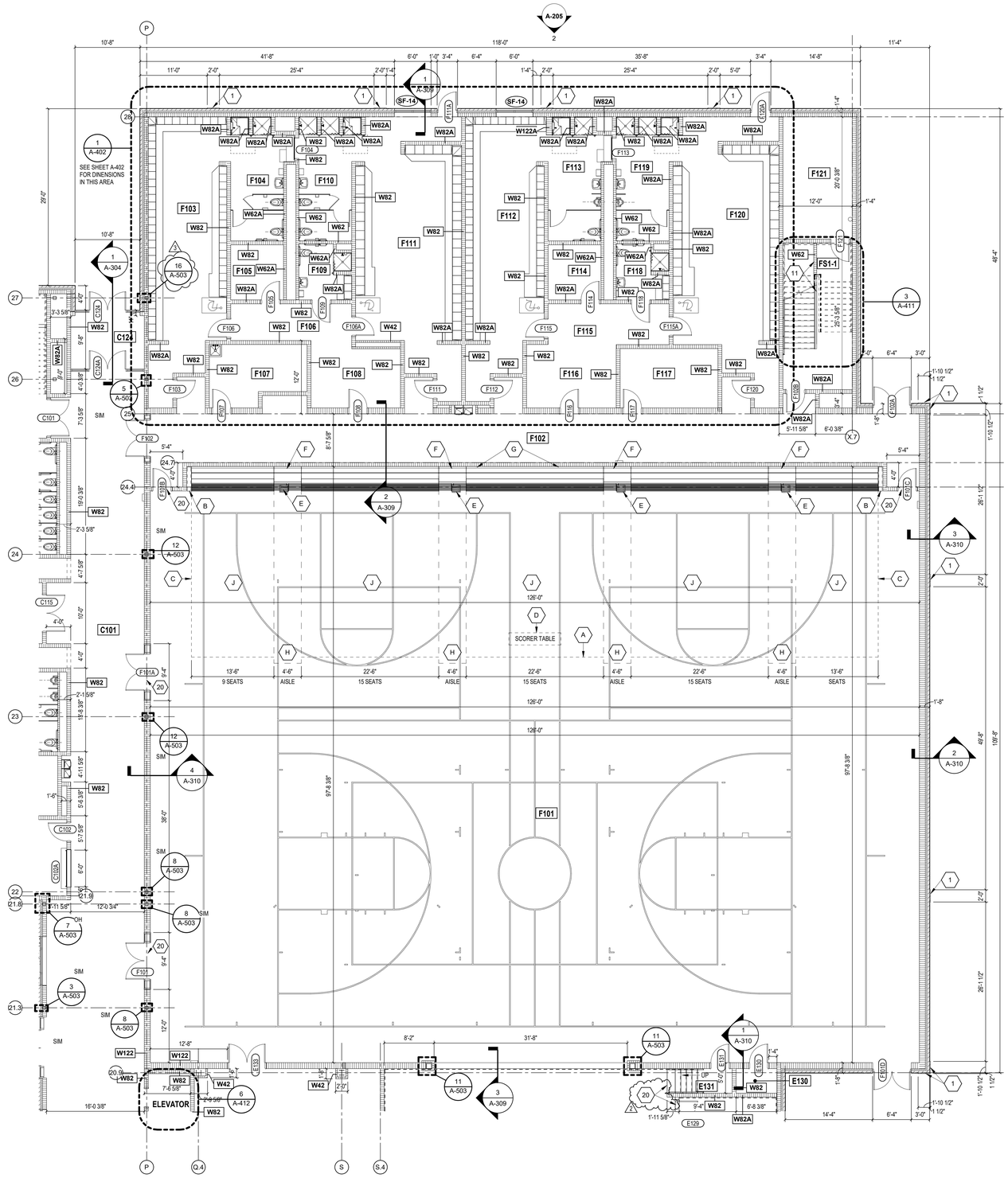
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

FIRST FLOOR ARCHITECTURE PLAN - UNIT D

A-11D

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ROOM LEGEND - UNIT F FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
F101	GYMNASIUM	12,261 SF
F102	CORRIDOR	1,209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

BLEACHER GENERAL NOTES

- ROWS: 10
- SEATS: 1008
- WHEELCHAIR LOCATIONS: 10 - ALL RECOVERABLE
- AISLES: 4 AT 4'-6" WIDE
- ROW SPACING: 24"
- RISE: 9 5/8"
- WALL ATTACHED
- OPERATION: INTEGRAL POWER

BLEACHER KEYNOTES

A. EXTENT OF BLEACHERS IN OPEN POSITION
B. PROVIDE SELF-STORING END RAILS
C. PROVIDE END CURTAINS
D. PROVIDE SCORERS TABLE
E. PROVIDE SELF-CLOSING MID AISLE HANDRAILS (FULL HEIGHT)
F. TOP OF DECK IS AT 12'-11 1/8" WITH ONE SEAT BY BLEACHER MANUFACTURER TO BALCONY. SEE SHEET A-413 FOR GATE IN BALCONY GUARDRAIL.
G. PROVIDE SPACER AT BACK OF BLEACHERS TO ACCOMMODATE STEEL TUBE / RAILING SUPPORT SEE WALL SECTION INDICATED.
H. FRONT / BOTTOM STEP TO FOLD BACK INTO BLEACHERS
J. REFER TO BLEACHER ELEVATION FOR SEATING GRAPHICS AND COLORS.

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PORTAGE TOWNSHIP SCHOOLS

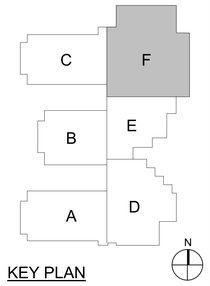
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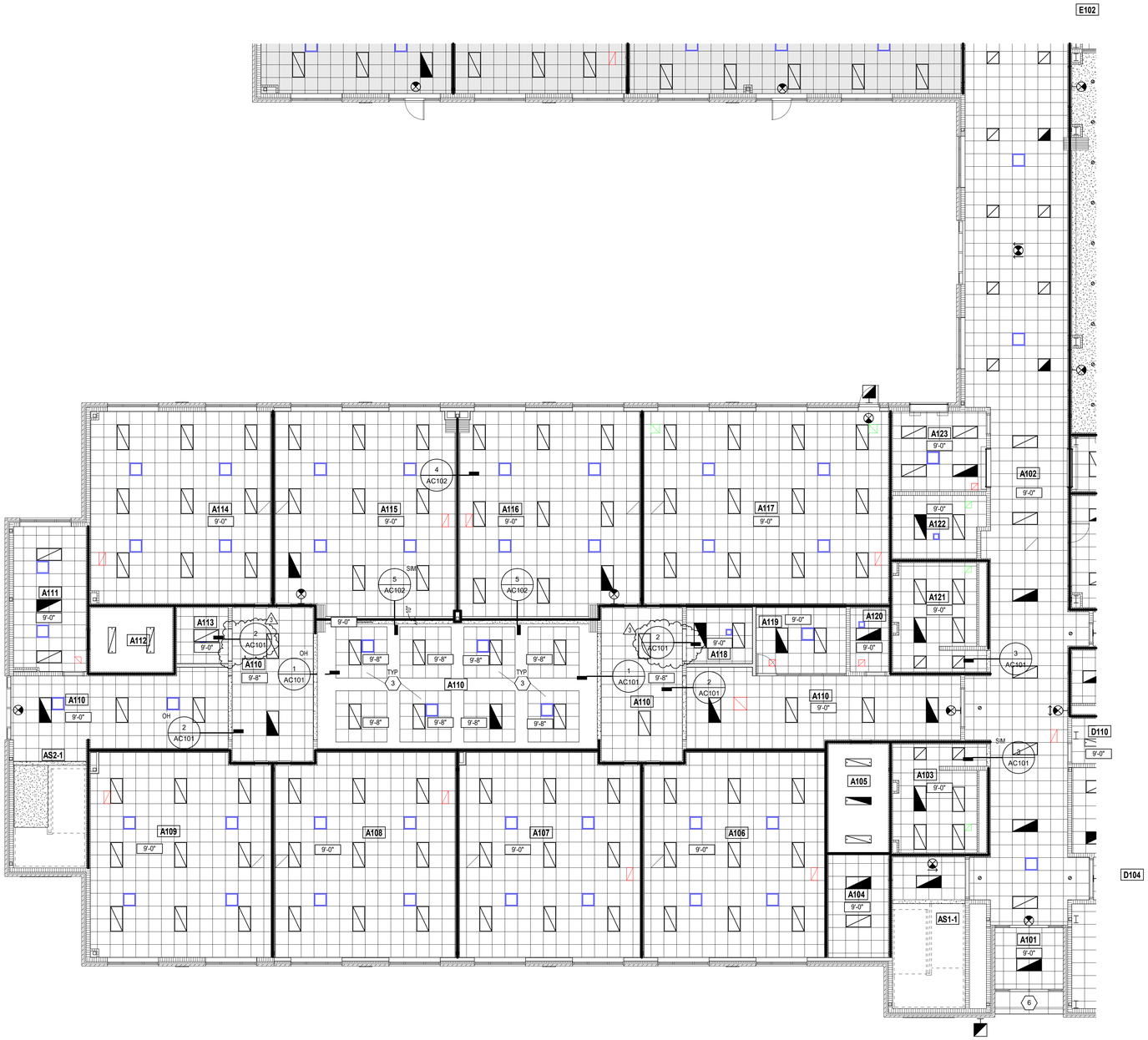
FIRST FLOOR ARCHITECTURE PLAN - UNIT F

A-11F

1 FIRST FLOOR ARCHITECTURAL PLAN - UNIT F

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

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FIRST FLOOR CEILING PLAN - UNIT A

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. CMU WALL ABOVE - BOTTOM OF LINTEL AT 7'-4"
2. INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11F
3. 4" HIGH PERIMETER TRIM AROUND LAY-IN CEILING CLOUD. TYPICAL FOR ALL CAFETERIA/ ACADEMIC CLOUDS.
4. PROVIDE CLOSURE TRIM BETWEEN ACT AND FOOD SERVICE COOLER / FREEZER
5. CUBICLE CURTAIN TRACK - SEE EQUIPMENT DRAWINGS
6. METAL PLATE SOFFIT - 3' X 3'
7. 4'-0"x4'-0" OPENING IN CEILING DIRECTLY UNDER ROOF HATCH
8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

ROOM LEGEND - UNIT A FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1,968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2,370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1,148 SF
A118	HUDDLE	90 SF
A119	SGI	147 SF
A120	SENSORY	60 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF

REFLECTED CEILING PLAN LEGEND

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

VERIFICATION NOTE

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

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PORTAGE TOWNSHIP SCHOOLS

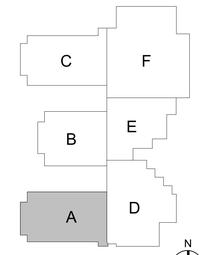
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: AME

PROJECT NUMBER: 223047.01

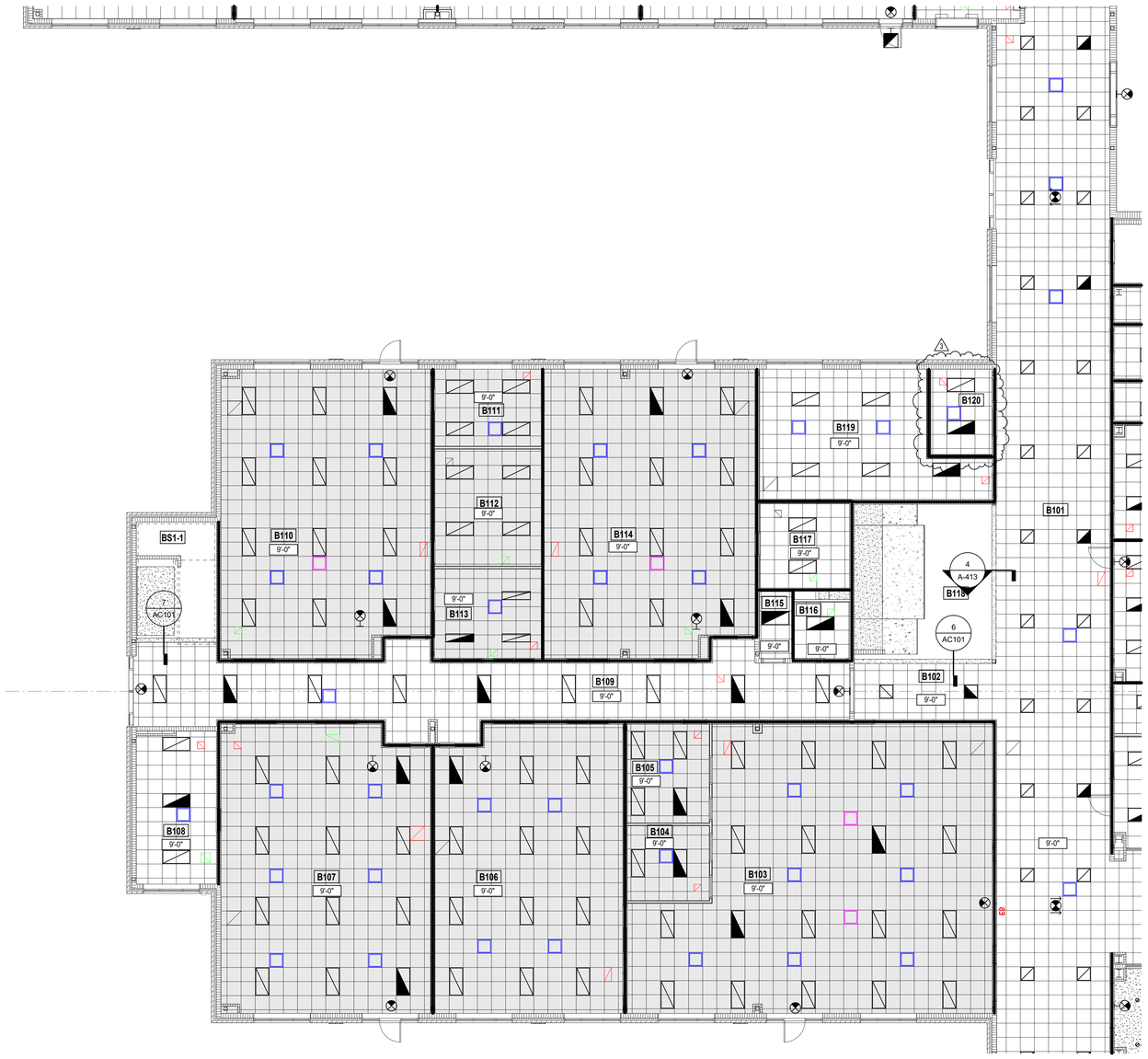
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

FIRST FLOOR REFLECTED CEILING PLAN - UNIT A

AC11A

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FIRST FLOOR CEILING PLAN - UNIT B

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. CMU WALL ABOVE - BOTTOM OF LINTEL AT 7'-4"
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3. 4" HIGH PERIMETER TRIM AROUND LAY-IN CEILING CLOUD. TYPICAL FOR ALL CAFETERIA/ ACADEMIC CLOUDS.
4. PROVIDE CLOSURE TRIM BETWEEN ACT AND FOOD SERVICE COOLER / FREEZER
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6. METAL PLATE SOFFIT - 3' X 3'
7. 4'-0"x4'-0" OPENING IN CEILING DIRECTLY UNDER ROOF HATCH
8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

SHADED AREA INDICATES WHERE 2" THICK SPRAYED ACOUSTIC INSULATION IS TO BE APPLIED TO UNDERSIDE OF SECOND FLOOR FLOOR DECK

ROOM LEGEND - UNIT B FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2,209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1,827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1,071 SF
B107	ART	1,190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1,187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1,198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF

REFLECTED CEILING PLAN LEGEND

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

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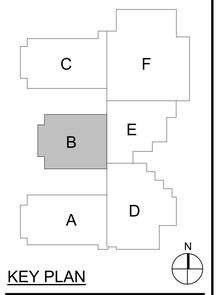
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: DRAWN BY: AME

PROJECT NUMBER: 223047.01

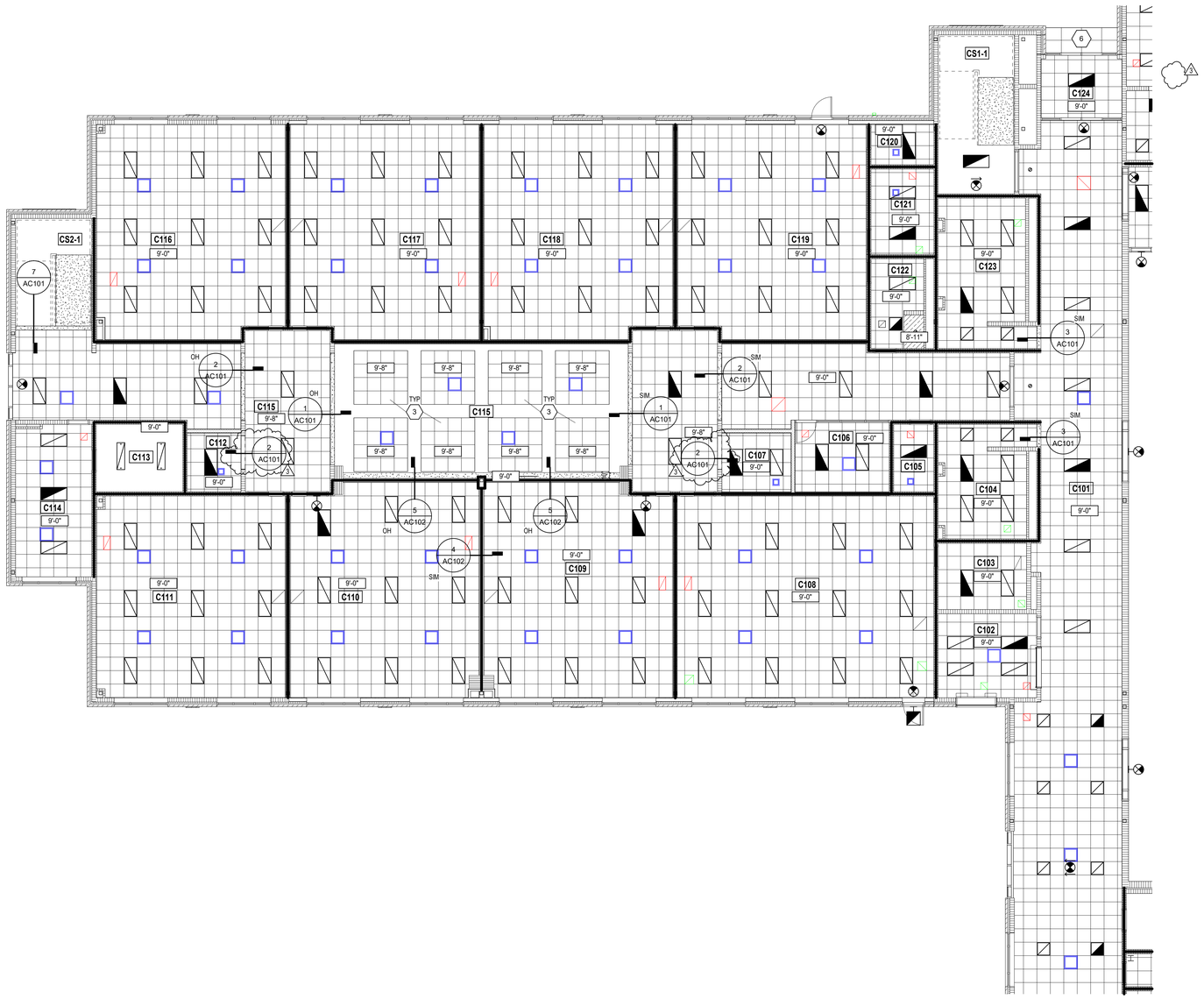
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

FIRST FLOOR REFLECTED CEILING PLAN - UNIT B

AC11B

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FIRST FLOOR CEILING PLAN - UNIT C

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

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1. CMU WALL ABOVE - BOTTOM OF LINTEL AT 7'-4"
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8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

ROOM LEGEND - UNIT C FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
C101	MAIN HALL	1,111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1,147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2,370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
CS2-1	STAIR	220 SF

REFLECTED CEILING PLAN LEGEND

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- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
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- M — MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
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- W — WIRELESS ACCESS POINT (WAP)
- CJ — CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- S — SOUND REINFORCEMENT SPEAKER
- H — FIRE ALARM HEAT DETECTOR
- F — FIRE ALARM HORN STROBE
- FS — FIRE ALARM SPEAKER STROBE
- FV — FIRE ALARM STROBE
- P — FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
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- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

VERIFICATION NOTE

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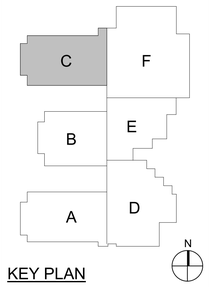
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: DRAWN BY: AME

PROJECT NUMBER: 223047.01

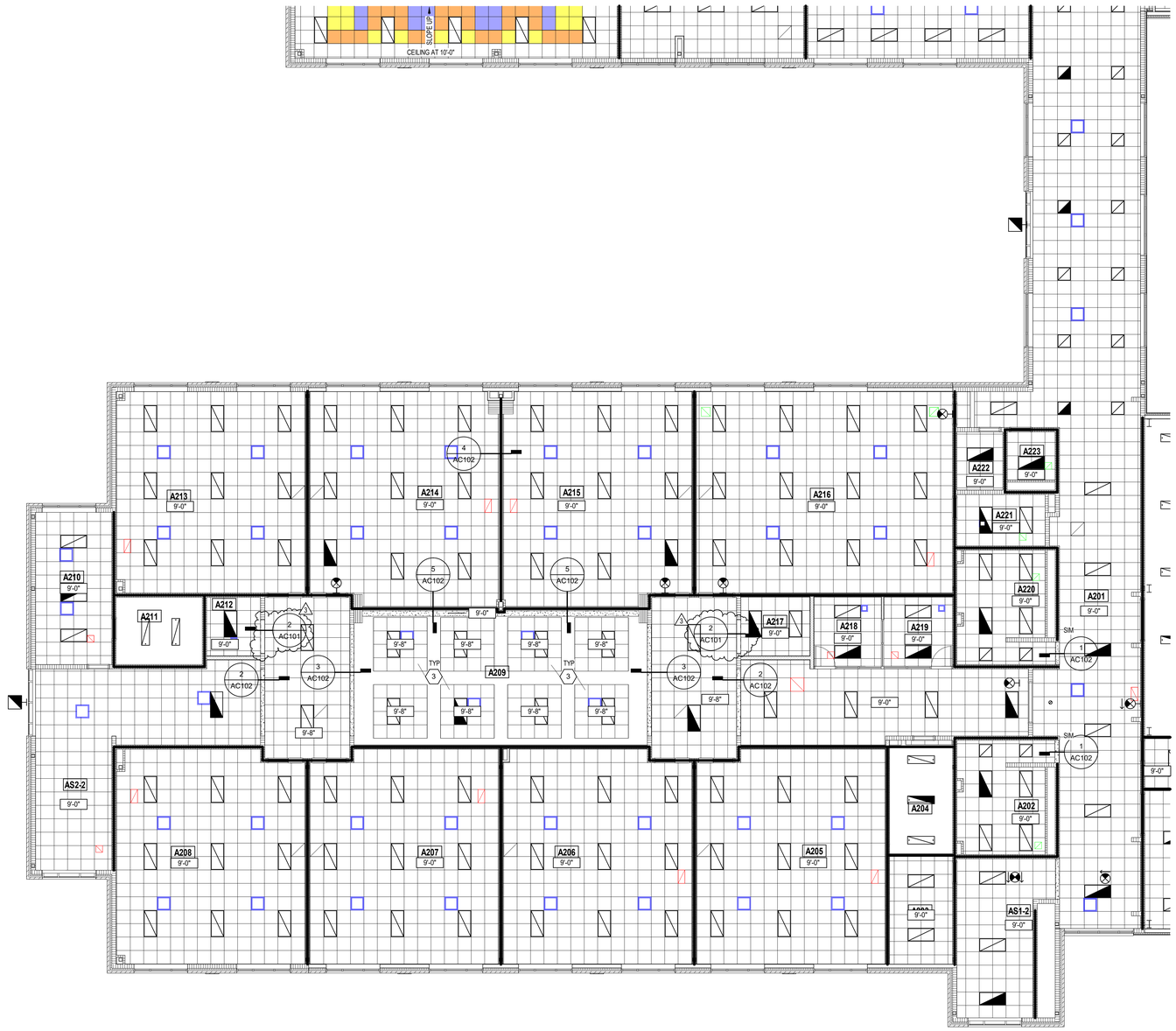
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

FIRST FLOOR REFLECTED CEILING PLAN - UNIT C

AC11C

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SECOND FLOOR CEILING PLAN - UNIT A

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. CMU WALL ABOVE - BOTTOM OF LINTEL AT 7'-4"
2. INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11F
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5. CUBICLE CURTAIN TRACK - SEE EQUIPMENT DRAWINGS
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7. 4'-0"x4'-0" OPENING IN CEILING DIRECTLY UNDER ROOF HATCH
8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

ROOM LEGEND - UNIT A SECOND...

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1,885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	891 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2,366 SF
A210	TEACHERS	258 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1,147 SF
A217	HUDDLE	93 SF
A218	SGI	107 SF
A219	SGI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
AS2-2	STAIR	227 SF

REFLECTED CEILING PLAN LEGEND

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PORTAGE TOWNSHIP SCHOOLS

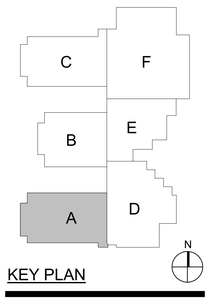
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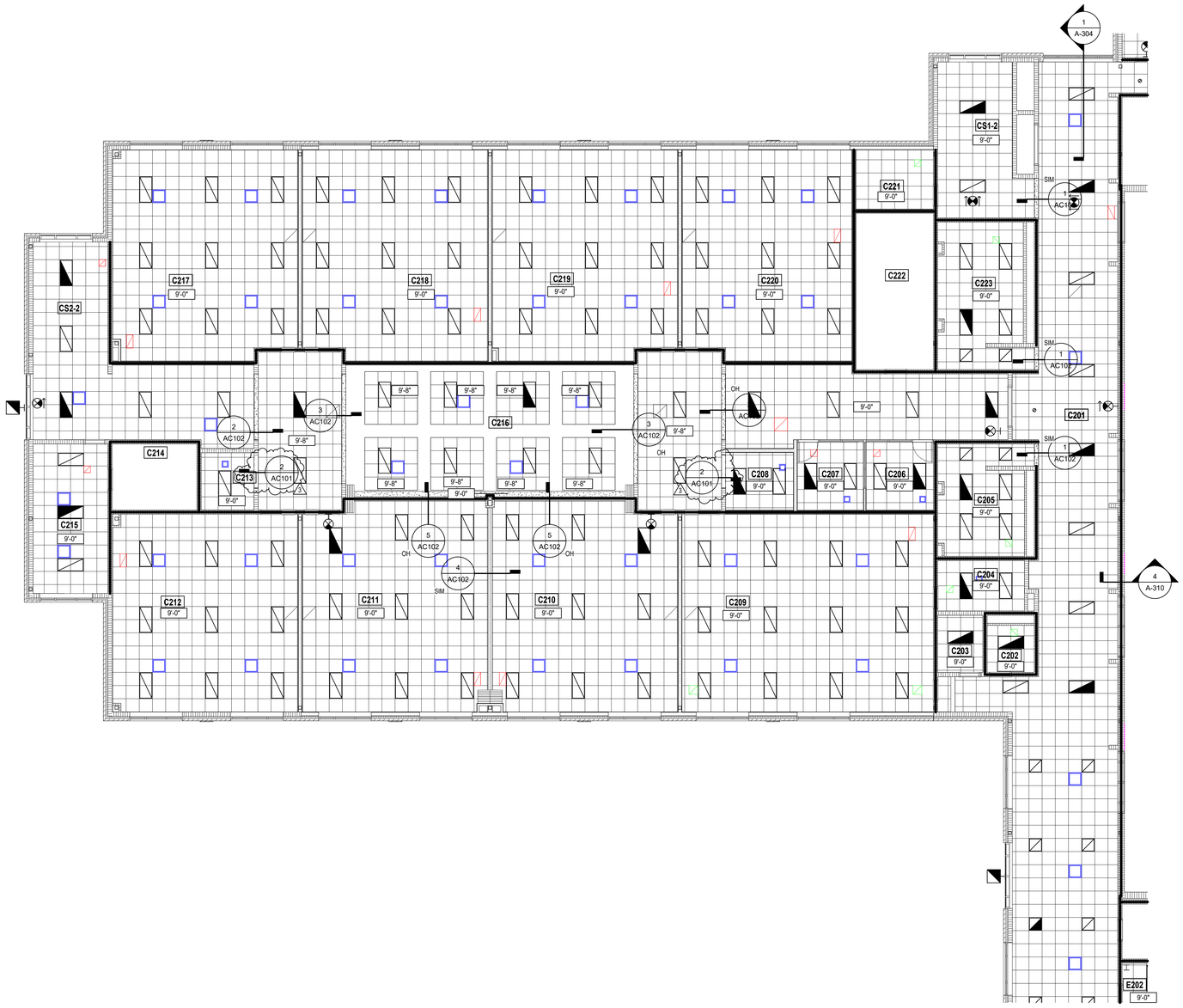
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

SECOND FLOOR REFLECTED CEILING PLAN - UNIT A

AC12A

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SECOND FLOOR CEILING PLAN - UNIT C

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

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8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

ROOM LEGEND - UNIT C SECOND...

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C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1,147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2,369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF

REFLECTED CEILING PLAN LEGEND

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

VERIFICATION NOTE

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

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

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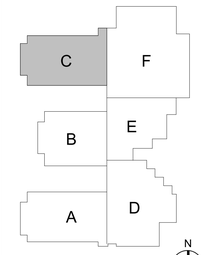
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

PROJECT NUMBER: 223047.01

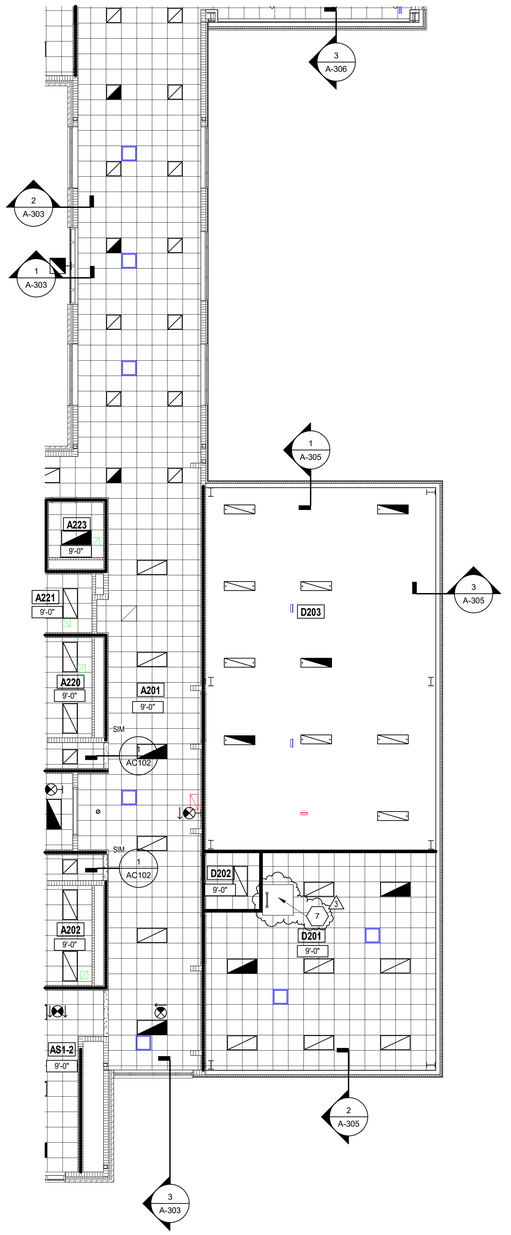
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

SECOND FLOOR REFLECTED CEILING PLAN - UNIT C

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SECOND FLOOR CEILING PLAN - UNIT D

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

REFLECTED CEILING PLAN NOTES

A. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. CMU WALL ABOVE - BOTTOM OF LINTEL AT 7'-4"
2. INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11F
3. 4" HIGH PERIMETER TRIM AROUND LAY-IN CEILING CLOUD. TYPICAL FOR ALL CAFETERIA/ ACADEMIC CLOUDS.
4. PROVIDE CLOSURE TRIM BETWEEN ACT AND FOOD SERVICE COOLER / FREEZER
5. CUBICLE CURTAIN TRACK - SEE EQUIPMENT DRAWINGS
6. METAL PLATE SOFFIT - 3' X 3'
7. 4'-0"x4'-0" OPENING IN CEILING DIRECTLY UNDER ROOF HATCH
8. CMU WALL ABOVE - BOTTOM OF LINTEL AT 8'-8" A.F.F.

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A201	B200	UPPER MAIN HALL	1,885 SF
A202	B206	GIRLS	217 SF
A209	C200	COLLABORATION	2,366 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
B201	B200	UPPER MAIN HALL	398 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1,131 SF
D201	B207	STORAGE	6,048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1,413 SF

REFLECTED CEILING PLAN LEGEND

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- XX'-XX" — INDICATES CEILING HEIGHT
- X1 XX'-XX" — INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
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- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
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- M — MOTION DETECTOR
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- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) / EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
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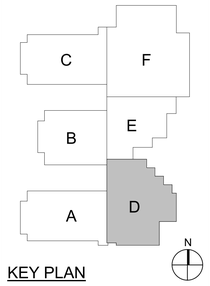
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: DRAWN BY: AME

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

SECOND FLOOR REFLECTED CEILING PLAN - UNIT D

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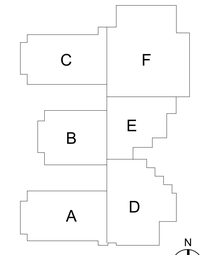
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PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: Author

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

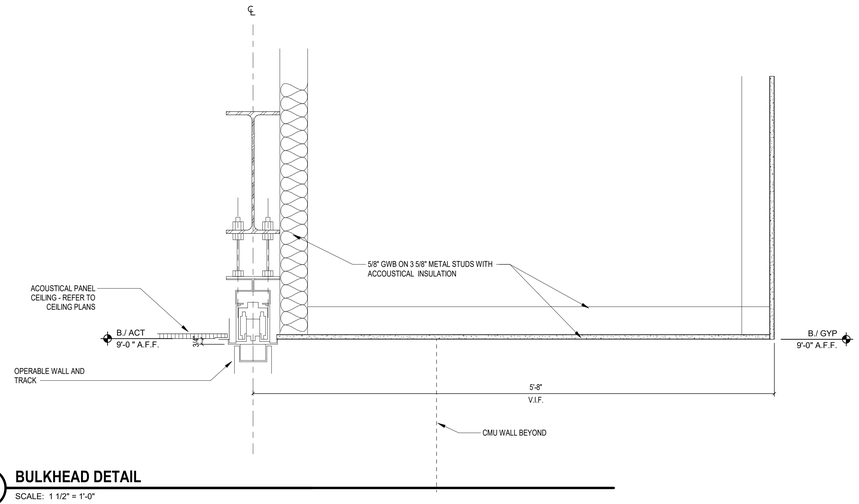
REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

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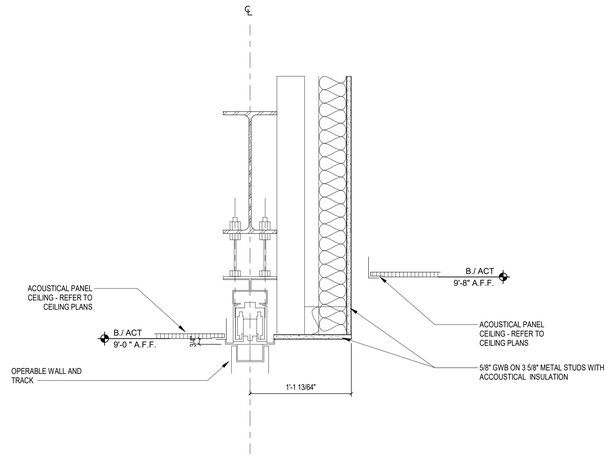
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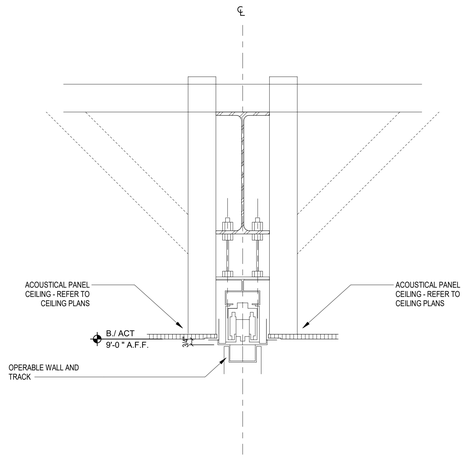
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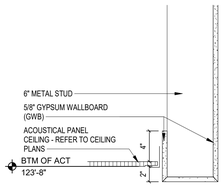
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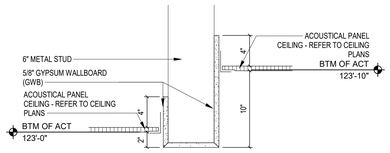
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SCALE: 1 1/2" = 1'-0"



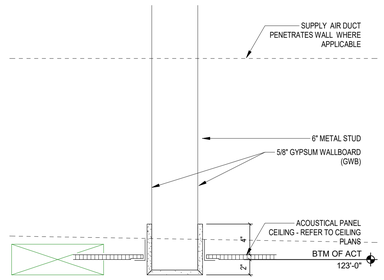
4 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



3 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"

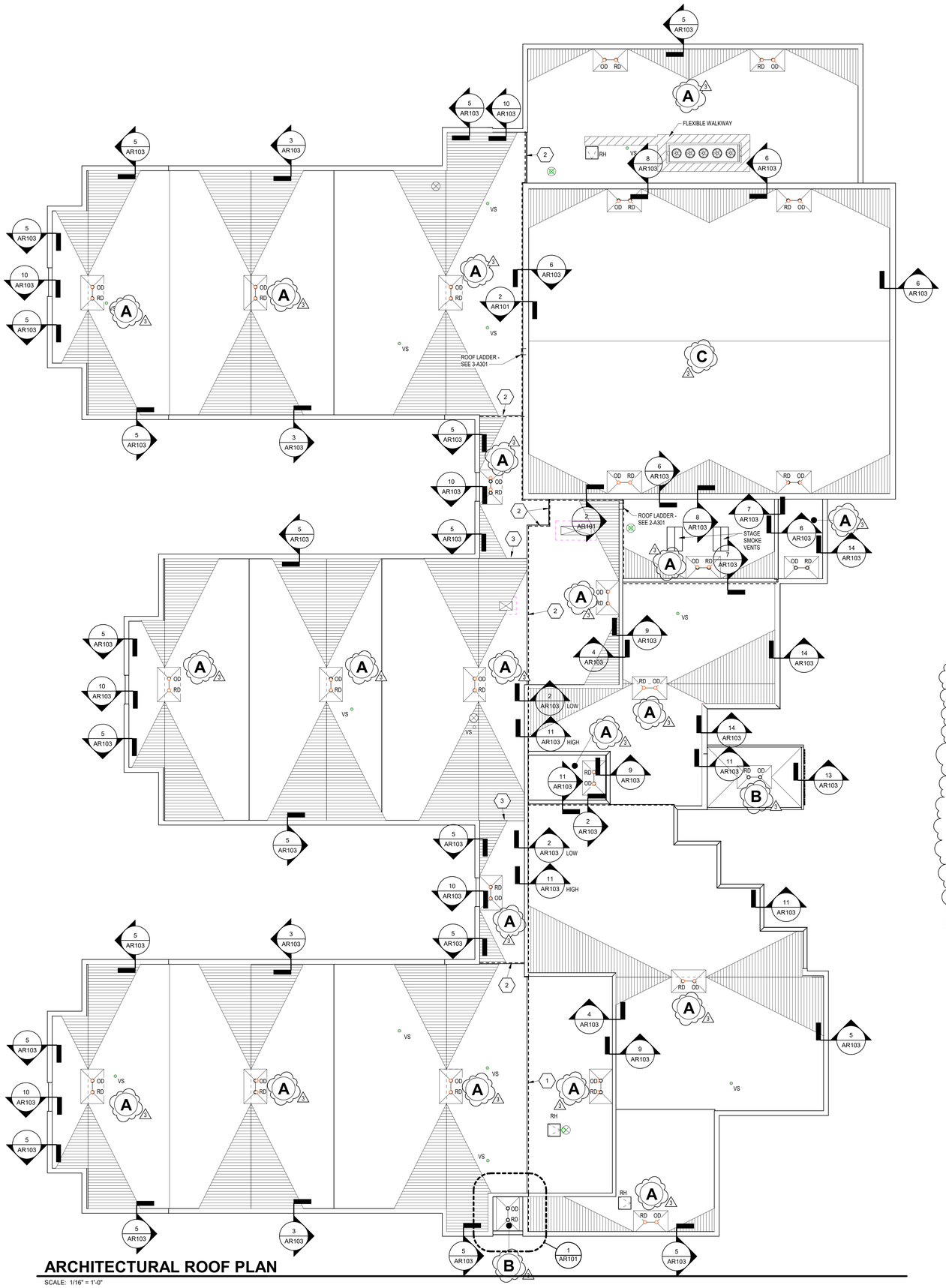


2 BULKHEAD DETAIL
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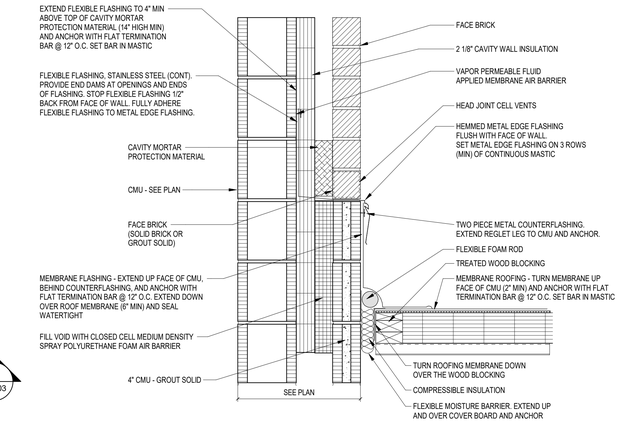
1 BULKHEAD DETAIL
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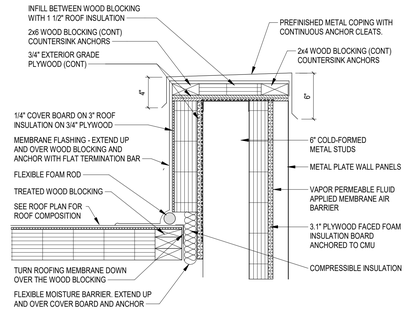
ARCHITECTURAL ROOF PLAN

SCALE: 1/16" = 1'-0"



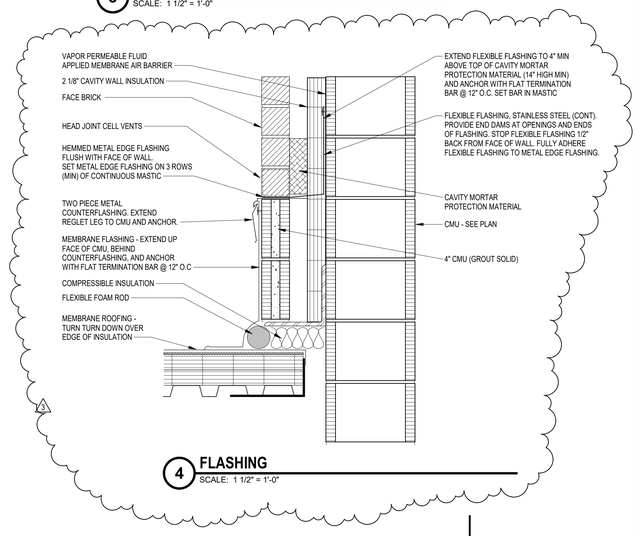
2 EXPANSION JOINT / FLASHING

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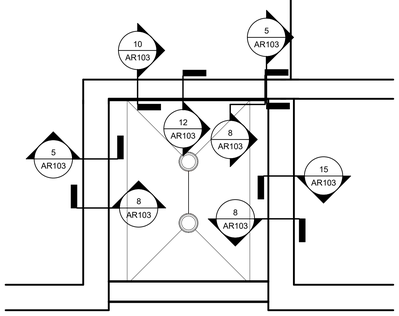
3 EEXPANSION JOINT / COPING

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



4 FLASHING

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



1 ROOF PLAN - ENLARGED UNIT A

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

ROOF PLAN GENERAL NOTES

A. ALL DETAILS SHOWN ARE FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE ROOF INSTALLER, AND SHALL MEET APPROVAL OF ROOF MANUFACTURER.

B. ALL DETAIL MODIFICATIONS MUST HAVE SHOP DRAWINGS APPROVAL. CONTRACTOR SHALL INSPECT AND VERIFY ALL EXISTING FIELD CONDITIONS, CLEARANCES, AND DIMENSIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT ARCHITECT BEFORE PROCEEDING WITH ANY FURTHER WORK.

C. OPENINGS IN ROOF WILL BE CUT BY ROOF CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF OPENING IN ROOF WITH ROOF CONTRACTOR. CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ROOF CONTRACTOR.

D. PROVIDE FLASHING AND SADDLES FOR ALL EQUIPMENT PROVIDED UNDER MECHANICAL.

E. SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPE TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO INSURE POSITIVE SLOPE.

F. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS, AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE ROOF CONTRACTOR SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS, AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY.

G. MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.

ROOF PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. ROOF EXPANSION JOINT - SEE 5-AR102
2. ROOF EXPANSION JOINT - SEE 10-AR102
3. ROOF AREA DIVIDER CURB - SEE 11-AR102

ROOF TYPES

(X)

A. ROOFING MEMBRANE SYSTEM (ADHERED) ON 1/4" COVER BOARD ON ROOF INSULATION (4" BASE) ON VAPOR RETARDER ON SLOPING METAL ROOF DECK.

B. ROOFING MEMBRANE SYSTEM (ADHERED) ON 1/4" COVER BOARD ON TAPERED ROOF INSULATION (1/4"/FT) ON VAPOR RETARDER ON FLAT METAL ROOF DECK.

C. ROOFING MEMBRANE SYSTEM (ADHERED) ON 1/4" COVER BOARD ON ROOF INSULATION (4" BASE) ON VAPOR RETARDER ON SUBSTRATE BOARD SLOPING ACOUSTICAL METAL ROOF DECK.

ROOF PLAN LEGEND

- 12'-0" (UNO) / 12'-0" (UNO): INDICATES ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). (FLASH IN ACCORDANCE WITH ROOF MEMBRANE MANUFACTURER'S RECOMMENDATION.) REFER TO DETAIL 1-AR102
- VS: INDICATES VENT STACK - REFER TO PLUMBING DRAWINGS AND 9-AR102
- INDICATES MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS AND ?-A2.??
- INDICATES ROOF SADDLE - REFER TO PROJECT MANUAL.
- INDICATES EXPANSION JOINT - REFER TO ROOF PLAN AND WALL SECTIONS.
- RH: ROOF HATCH AND LADDER - SEE FLOOR PLANS AND 4-AR102
- DS: INDICATES METAL DOWNSPOUT. REFER TO ROOF PLAN AND BUILDING ELEVATIONS FOR LOCATIONS
- INDICATES WALKWAY PADS -REFER TO PROJECT MANUAL
- INDICATES ICE AND WATER SHIELD MEMBRANE FLASHING -REFER TO PROJECT MANUAL

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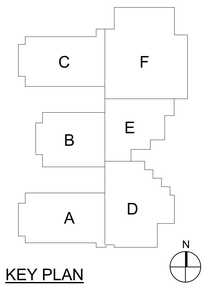
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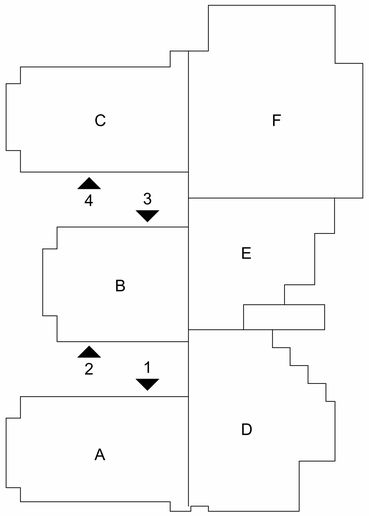
PROJECT ISSUE DATE: October 28, 2025

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3	Addendum #3	11-18-2025

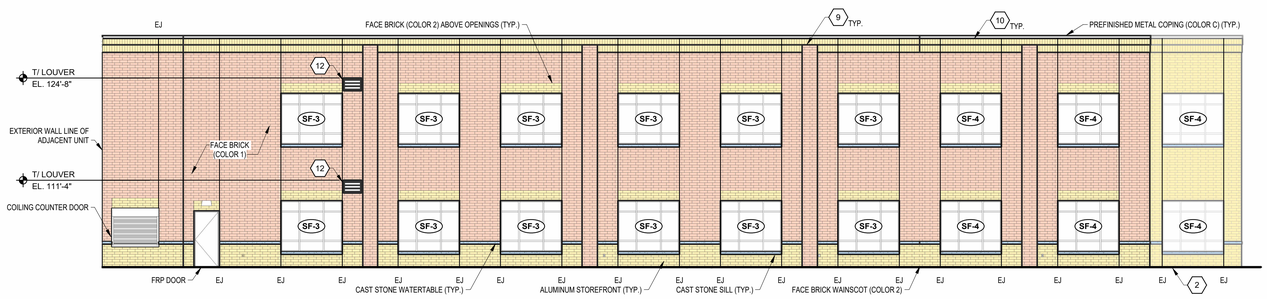
ROOF PLAN

AR101

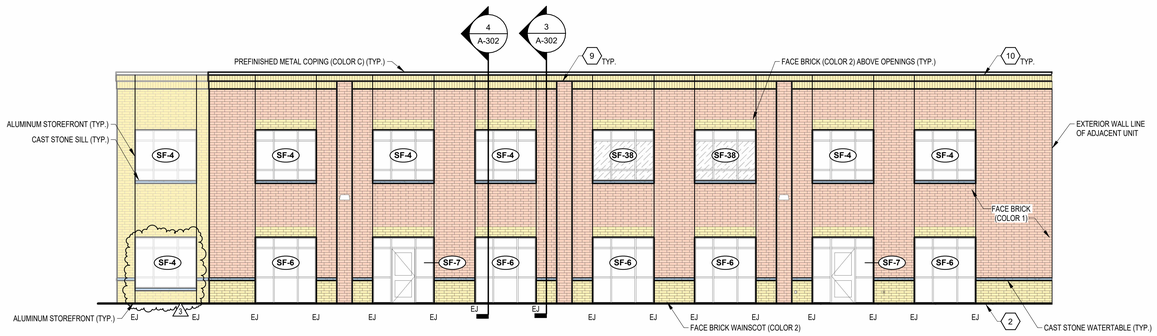
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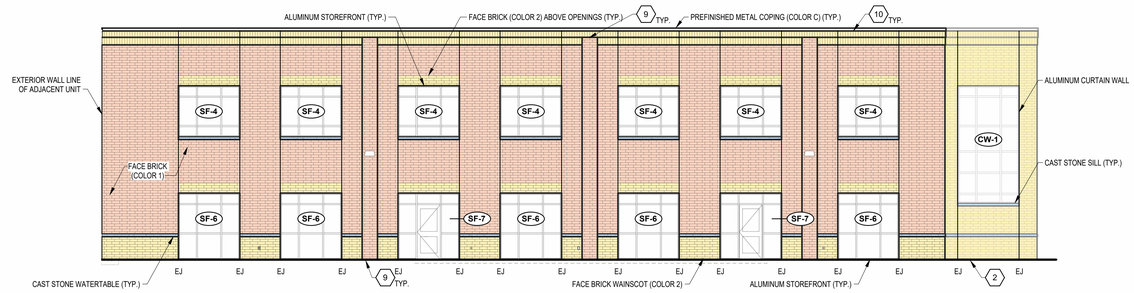
KEY PLAN N



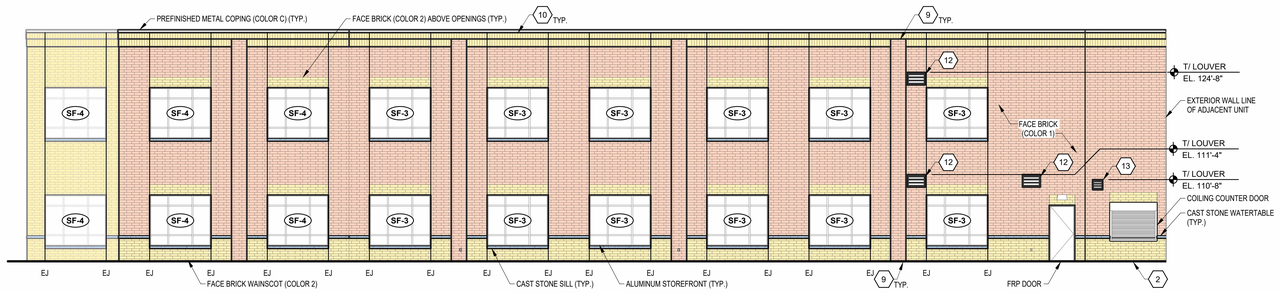
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SCALE: 1/8" = 1'-0"



2 **UNIT B - SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



3 **UNIT B - NORTH ELEVATION**
SCALE: 1/8" = 1'-0"



4 **UNIT C - SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"

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ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.
B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
D. SEALANT COLOR TO MATCH ADJACENT BRICK COLORS.
E. THE PREFINISHED METAL COPINGS SHALL HAVE A TOTAL OF FOUR COLORS. TWO MATCHING THE METAL COLORS AND TWO MATCHING THE BRICK COLORS. REFER TO ELEVATIONS FOR LOCATIONS.
F. UNLESS NOTED OTHERWISE, BRICK IS TO BE UTILITY SIZE (NOMINAL 4"x4"x12")

ELEVATION KEYNOTES

X

1. BRICK / METAL PLATE WALL PANEL JOINT (TYP.)
2. GRADE. REFER TO SITE DRAWINGS
3. MASONRY SCREEN WALL
4. PROVIDE TRANSPARENT GLAZING AT STOREFRONT LOCATION
5. ROOF LINE
6. ILLUMINATED SCHOOL LOGO
   A. 14-4" x 6'-0"
7. BACKLIGHT BUILDING LETTERS
   A. FONT: WORK SANS
   B. HEIGHT: 3'-0"
   C. COLOR: TBD
8. BACKLIGHT BUILDING LETTERS
   A. FONT: WORK SANS
   B. HEIGHT: 0'-10"
   C. COLOR: TBD
9. FACE BRICK PILASTER (COLOR 1) WITH BRICK OFFSET. REFER TO PLANS
10. FACE BRICK SOLDIER COURSE (COLOR 2) WITH BRICK OFFSETS. REFER TO WALL SECTIONS
11. SPANDREL GLASS. REFER TO CURTAIN WALL ELEVATIONS
12. MECHANICAL LOUVER TYPE #1 - SEE SHEET A-602. LOUVER COLOR TO MATCH ADJACENT BRICK
13. MECHANICAL LOUVER TYPE #2 - SEE SHEET A-602. LOUVER COLOR TO MATCH ADJACENT BRICK
14. MECHANICAL LOUVER TYPE #3 - SEE SHEET A-602. LOUVER COLOR TO MATCH ADJACENT METAL PANELS
15. MECHANICAL LOUVER TYPE #4 - SEE SHEET A-602. LOUVER COLOR TO MATCH ADJACENT METAL PANELS
16. VERTICAL REVEAL TRIM PER METAL PANEL SIDING MANUFACTURER
17. PREFORMED OUTSIDE CORNER PER METAL PANEL SIDING MANUFACTURER

ELEVATION LEGEND

FACE BRICK (COLOR 1)

FACE BRICK (COLOR 2)

CAST STONE WATERTABLE AND SILL (COLOR 3)

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

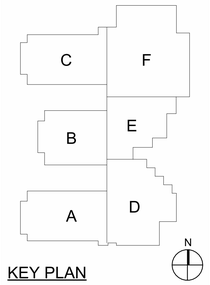
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: MNZ

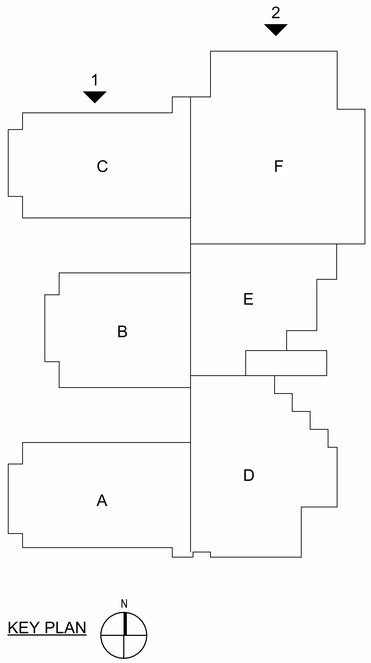
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PROJECT ISSUE DATE: October 28, 2025

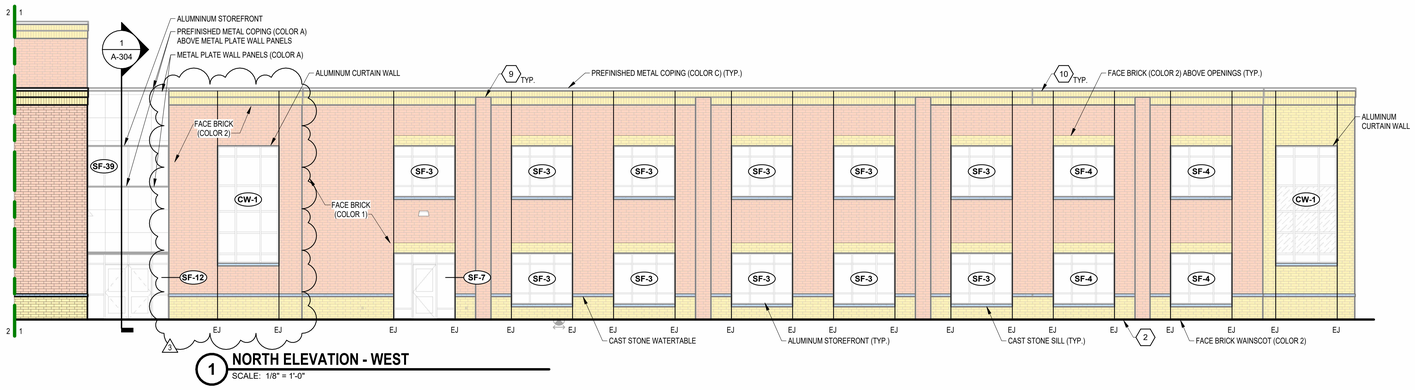
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3	Addendum #3	11-18-2025

BUILDING ELEVATIONS

A-204

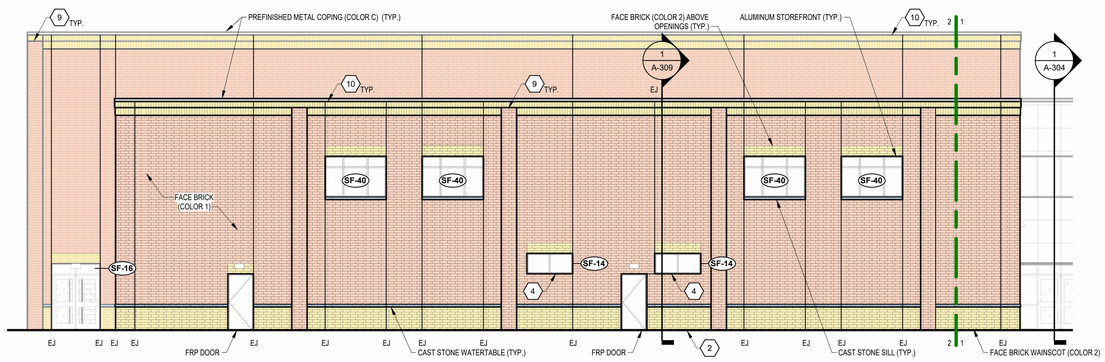


KEY PLAN



1 NORTH ELEVATION - WEST

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



2 NORTH ELEVATION - EAST

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

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.
B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
D. SEALANT COLOR TO MATCH ADJACENT BRICK COLORS.
E. THE PREFINISHED METAL COPINGS SHALL HAVE A TOTAL OF FOUR COLORS. TWO MATCHING THE METAL COLORS AND TWO MATCHING THE BRICK COLORS. REFER TO ELEVATIONS FOR LOCATIONS.
F. UNLESS NOTED OTHERWISE, BRICK IS TO BE UTILITY SIZE (NOMINAL 4"x4"x12")

ELEVATION KEYNOTES

X

1. BRICK / METAL PLATE WALL PANEL JOINT (TYP.)
2. GRADE. REFER TO SITE DRAWINGS
3. MASONRY SCREEN WALL
4. PROVIDE TRANSPARENT GLAZING AT STOREFRONT LOCATION
5. ROOF LINE
6. ILLUMINATED SCHOOL LOGO
   A. 14-4" x 6'-0"
7. BACKLIGHT BUILDING LETTERS
   A. FONT: WORK SANS
   B. HEIGHT: 3'-0"
   C. COLOR: TBD
8. BACKLIGHT BUILDING LETTERS
   A. FONT: WORK SANS
   B. HEIGHT: 0'-10"
   C. COLOR: TBD
9. FACE BRICK PILASTER (COLOR 1) WITH BRICK OFFSET. REFER TO PLANS
10. FACE BRICK SOLDIER COURSE (COLOR 2) WITH BRICK OFFSETS. REFER TO WALL SECTIONS
11. SPANDREL GLASS. REFER TO CURTAIN WALL ELEVATIONS
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ELEVATION LEGEND

- FACE BRICK (COLOR 1)
- FACE BRICK (COLOR 2)
- CAST STONE WATERTABLE AND SILL (COLOR 3)

VERIFICATION NOTE

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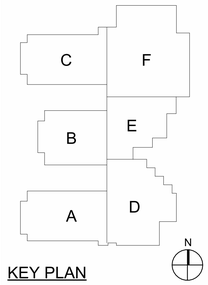
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ARCHITECT

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

PROJECT MANAGER: MKS

DRAWN BY: MNZ

PROJECT NUMBER: 223047.01

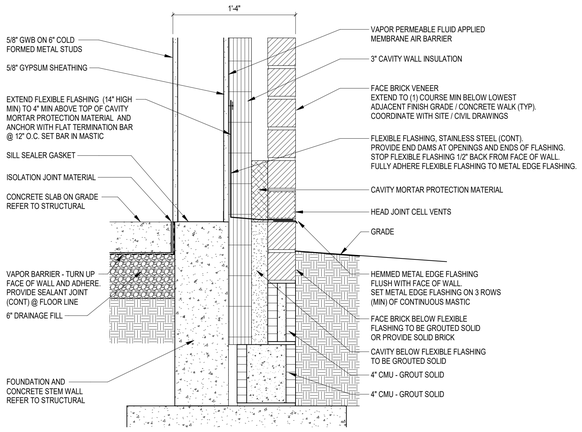
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

BUILDING ELEVATIONS

A-205

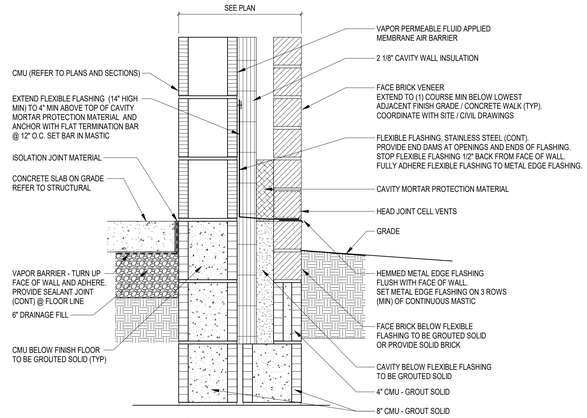
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NOTE:
REFER TO STRUCTURAL DRAWINGS FOR FOUNDATIONS AND ADDITIONAL NOTES AND DIMENSIONS

ALL FLEXIBLE FLASHINGS TO BE INSPECTED, VERIFIED AND DOCUMENTED WITH PHOTOGRAPHS PRIOR TO CONTINUING WITH WALL CONSTRUCTION

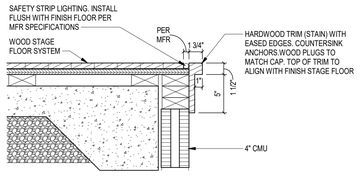
4 BASE FLASHING stud wall
SCALE: 1 1/2" = 1'-0"



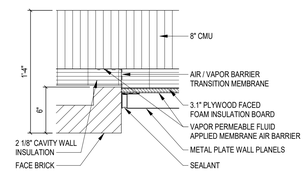
NOTE:
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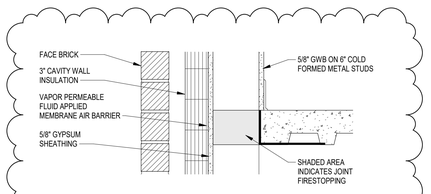
1 BASE FLASHING masonry wall
SCALE: 1 1/2" = 1'-0"



5 STAGE EDGE
SCALE: 1 1/2" = 1'-0"

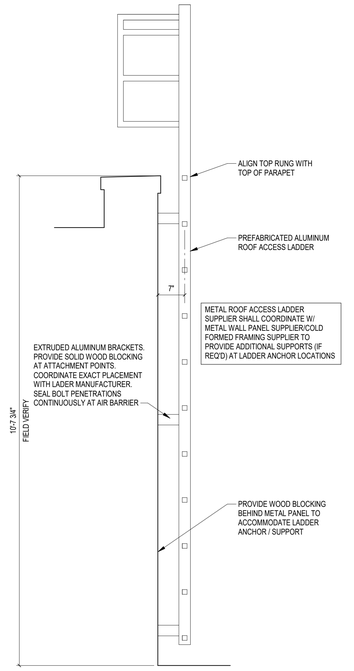


6 EXTERIOR METAL PLATE TO BRCK JOINT
SCALE: 1 1/2" = 1'-0"

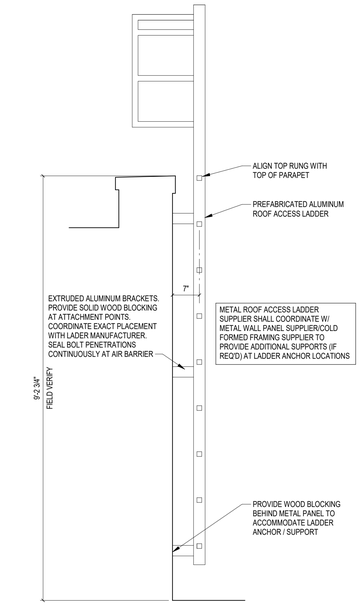


TYPICAL AT ALL SECOND FLOOR LEVEL FLOOR JOINTS AT COLD-FORMED STUD EXTERIOR WALL

7 TYPICAL FLOOR TO WALL JOINT
SCALE: 1 1/2" = 1'-0"



3 ROOF LADDER
SCALE: 3/4" = 1'-0"



2 ROOF LADDER
SCALE: 3/4" = 1'-0"

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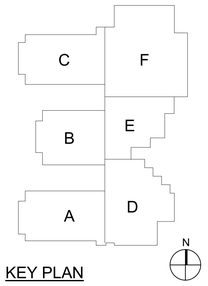
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

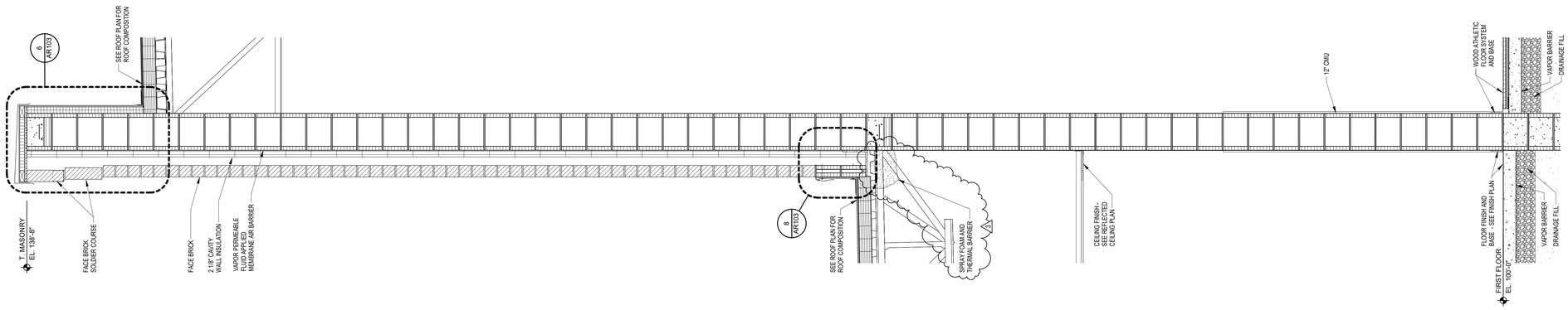
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3	Addendum #3	11-18-2025

WALL SECTIONS

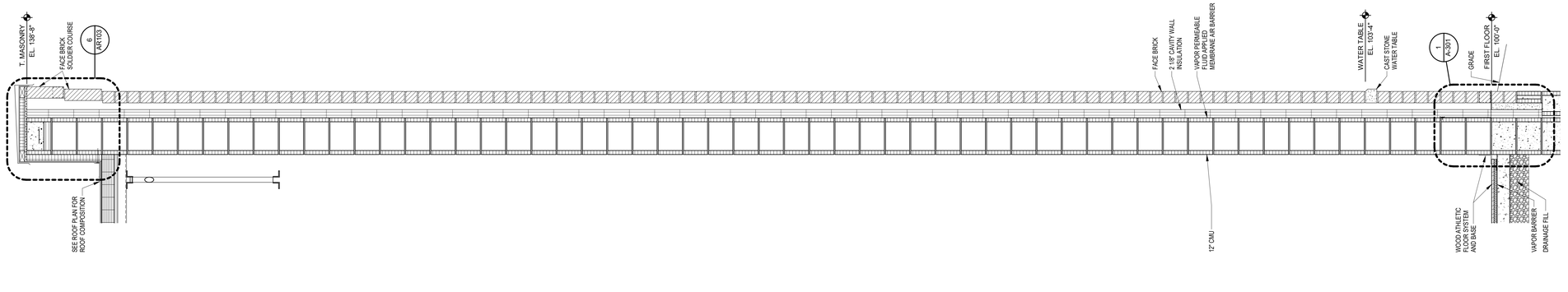
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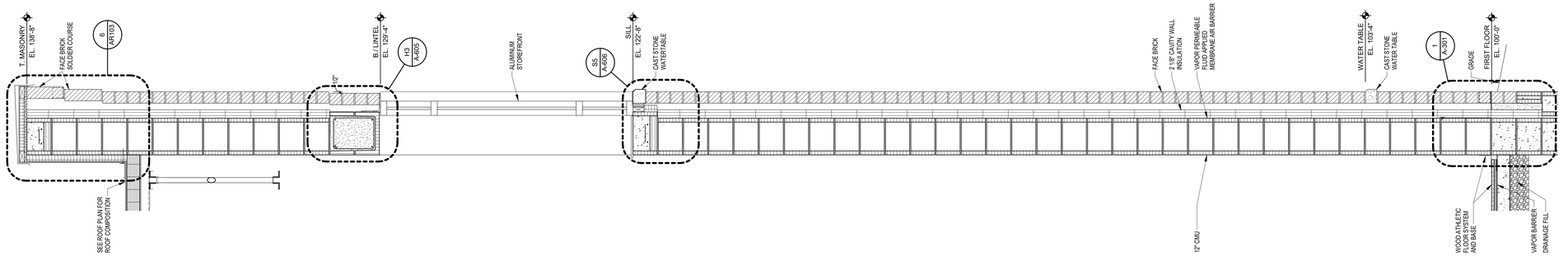
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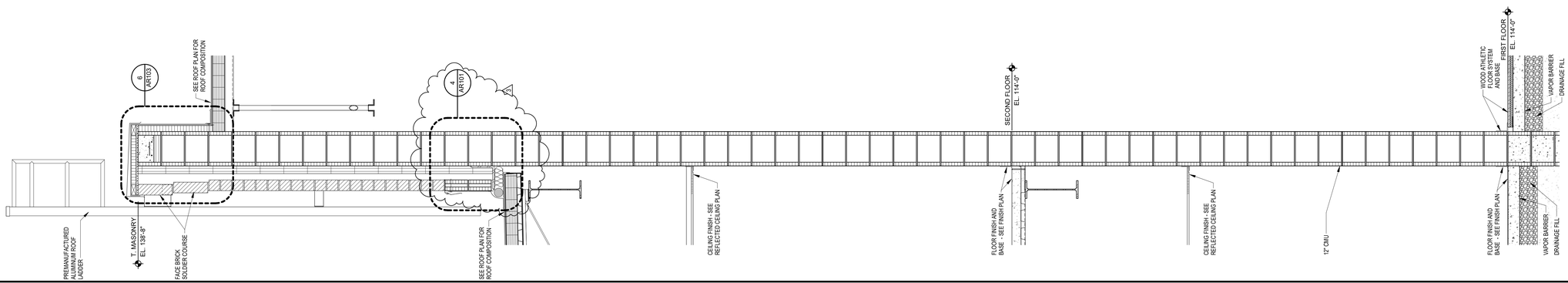
1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"

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The New Wallace Aylesworth Middle School

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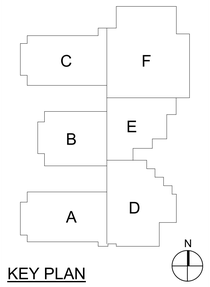
PORTAGE TOWNSHIP SCHOOLS

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KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: rlg

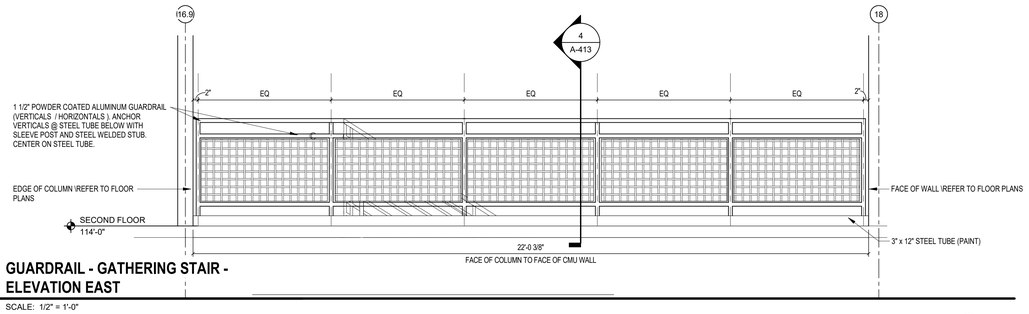
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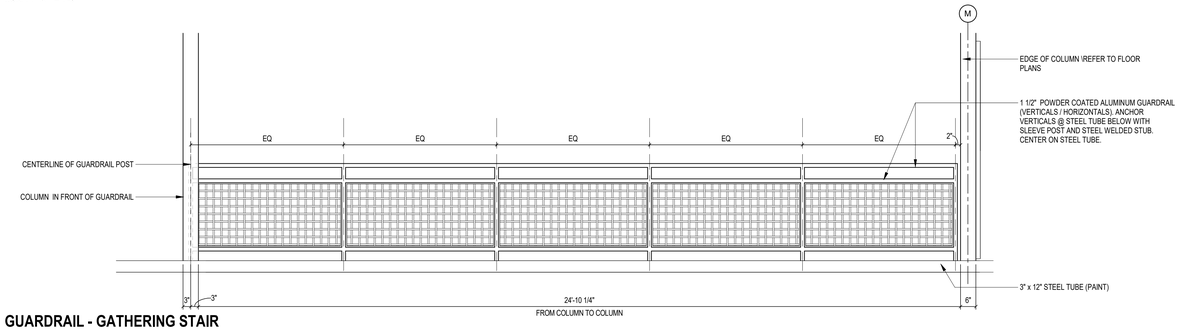
WALL SECTIONS

A-310



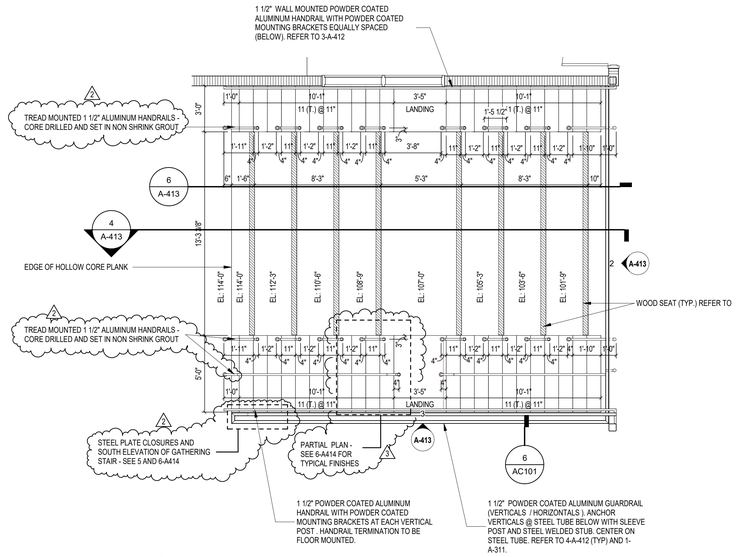
2 GUARDRAIL - GATHERING STAIR - ELEVATION EAST

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



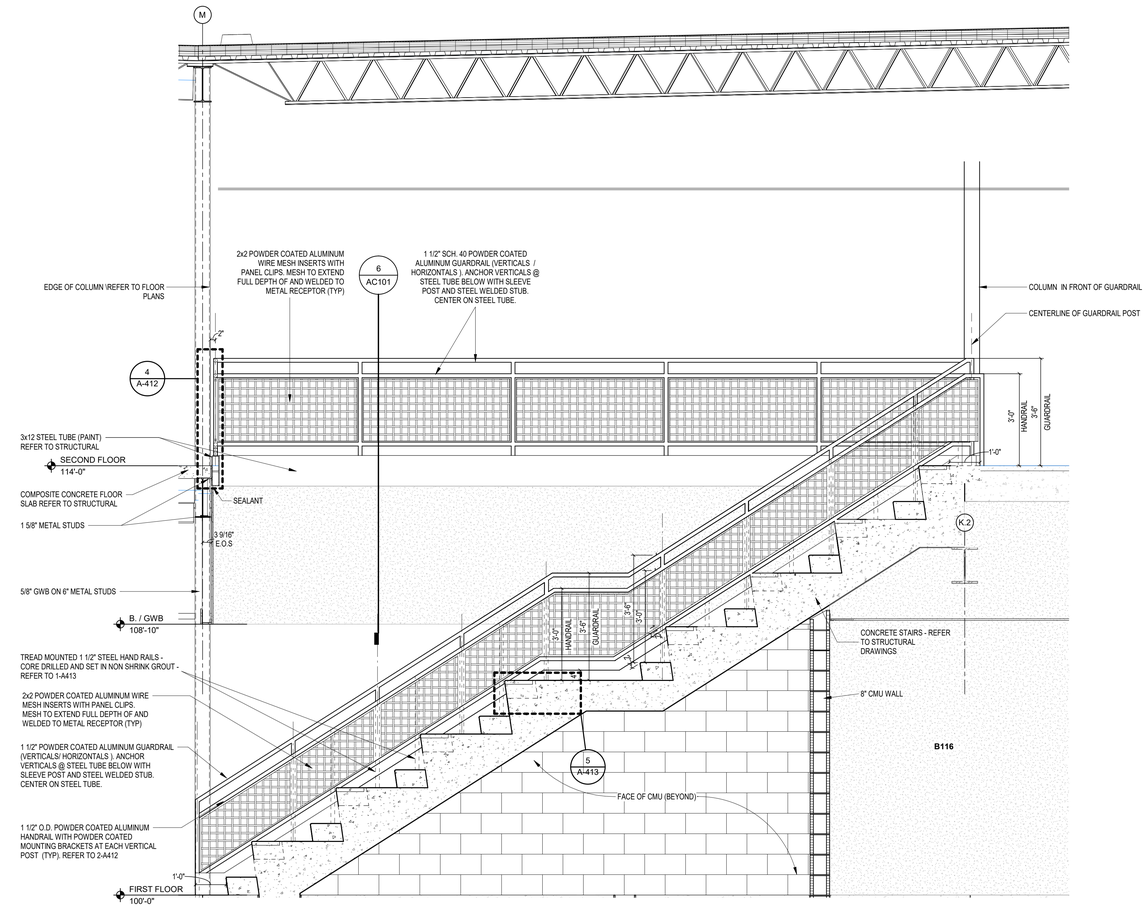
3 GUARDRAIL - GATHERING STAIR ELEVATION SOUTH

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



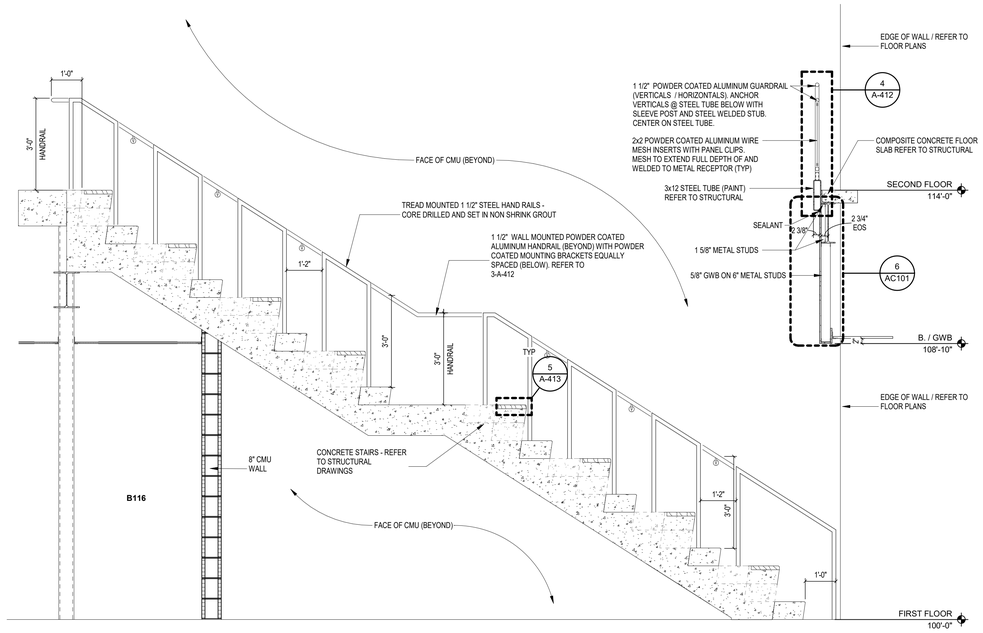
1 ENLARGED PLAN - B113 - GATHERING STAIR - SECOND FLOOR

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



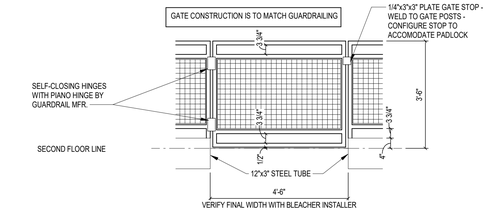
4 STAIR SECTION - GATHERING STAIR

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



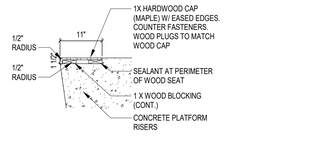
6 STAIR SECTION - GATHERING STAIR

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



7 GYM BALCONY GATE ELEVATION

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



5 GATHERING STAIR WOOD SEAT

SCALE: 3/4" = 1'-0"

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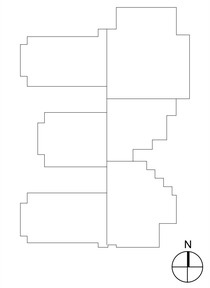
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DRAWN BY: AME

PROJECT NUMBER: 223047.01

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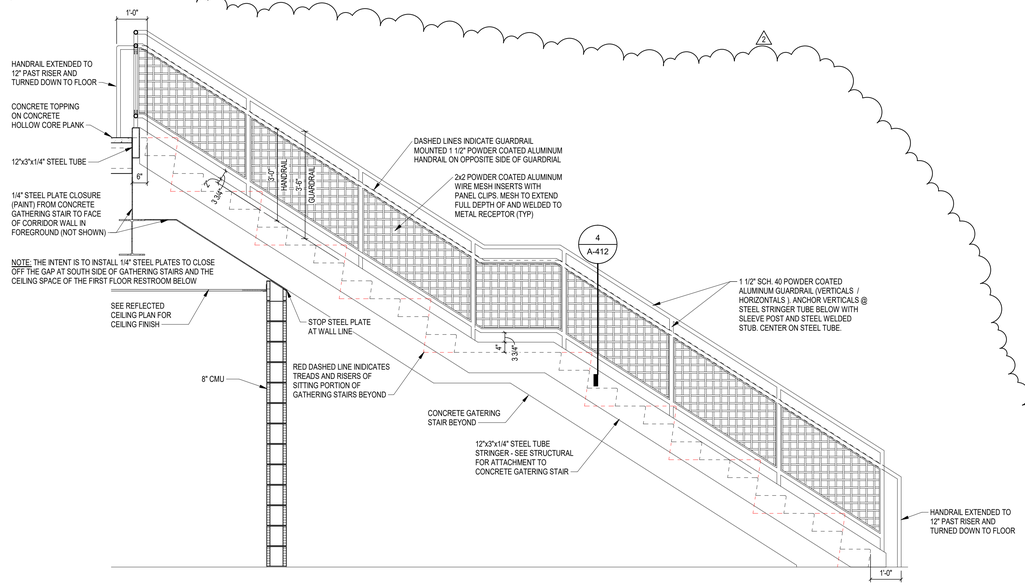
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2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025

VERTICAL CIRCULATION

A-413

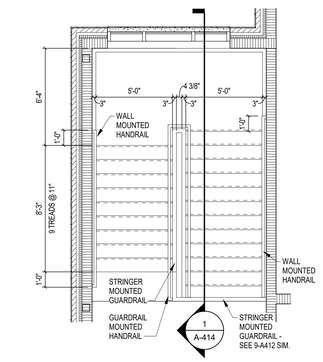
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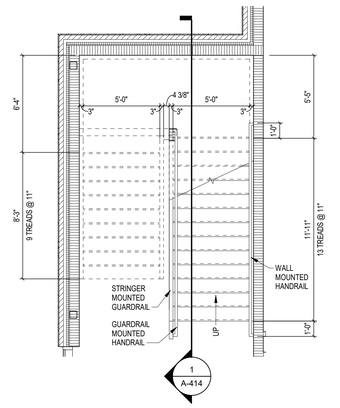
4 SECTION - ELEVATION (SOUTH END OF GATHERING STAIR)

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



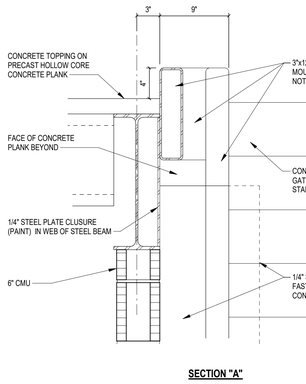
3 STAIR BS1 - SECOND FLOOR

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

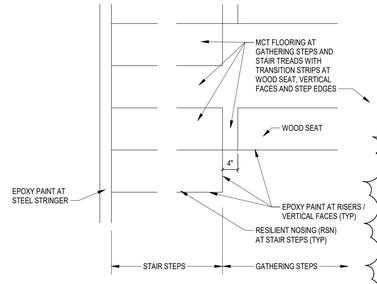


2 STAIR BS1 - FIRST FLOOR

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

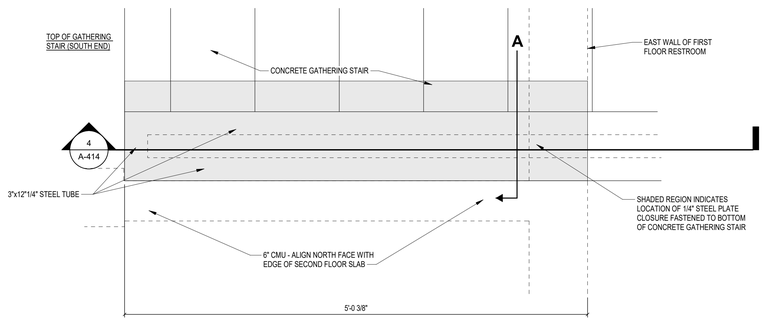


SECTION "A"



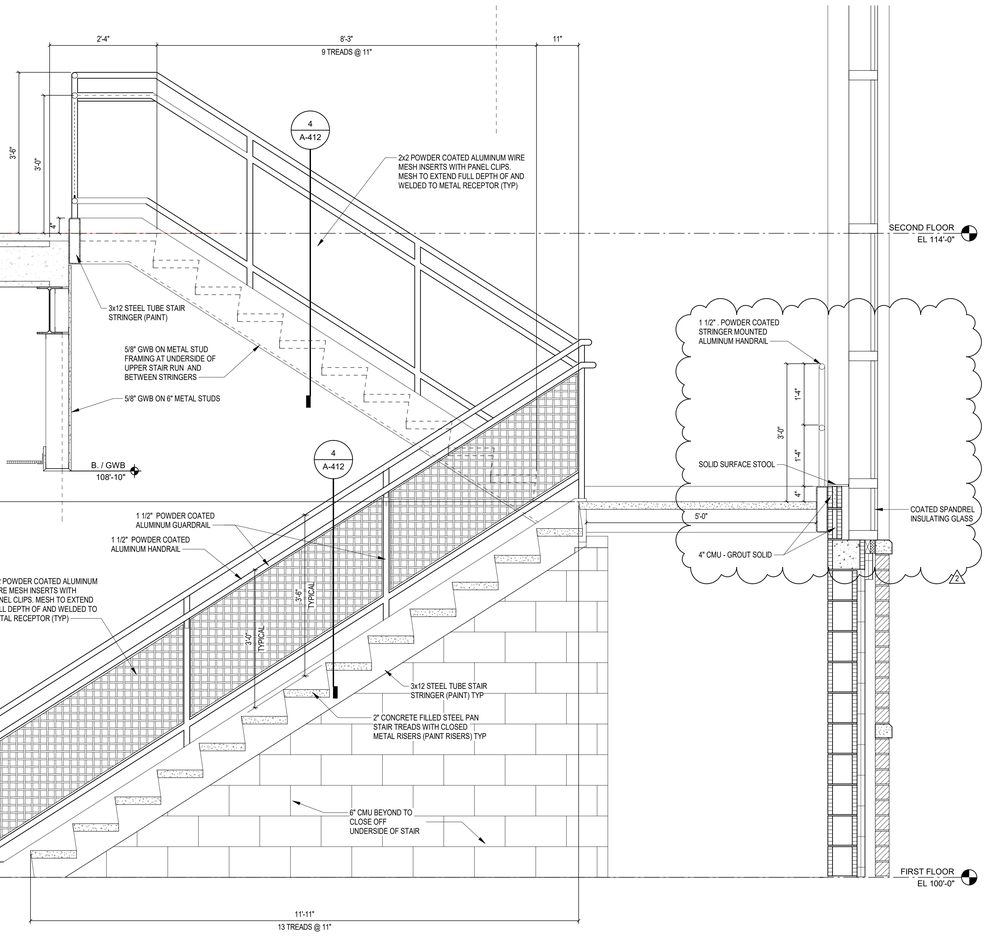
6 GATHERING STAIR FINISHES

SCALE: 3/4" = 1'-0"



5 GATHERING STAIR CLOSURE

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



1 SECTION - STAIR BS1

SCALE: 3/4" = 1'-0"

The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

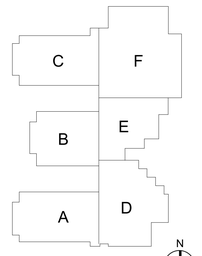
PORTAGE TOWNSHIP SCHOOLS

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025

VERTICAL CIRCULATION

A-414

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

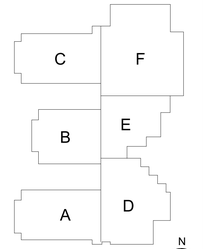
PORTAGE TOWNSHIP SCHOOLS

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Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: DRAWN BY: AME

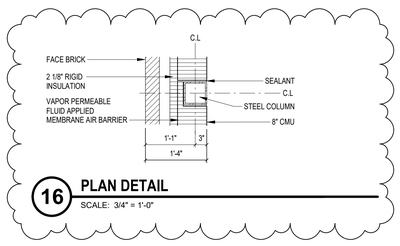
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

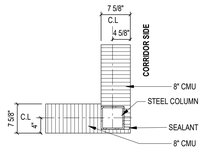
REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

FLOOR PLAN DETAILS

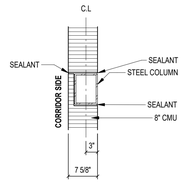
A-503



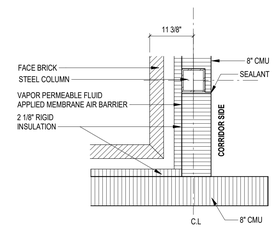
16 PLAN DETAIL
SCALE: 3/4" = 1'-0"



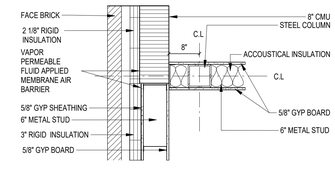
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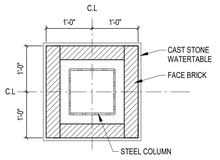
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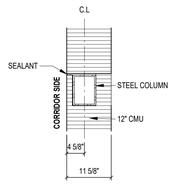
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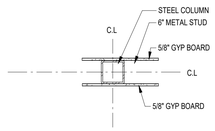
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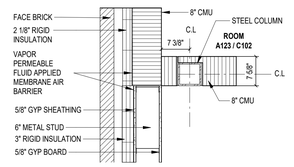
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SCALE: 3/4" = 1'-0"



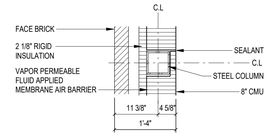
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SCALE: 3/4" = 1'-0"



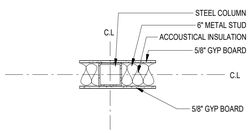
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SCALE: 3/4" = 1'-0"



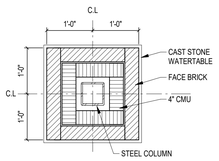
6 PLAN DETAIL
SCALE: 3/4" = 1'-0"



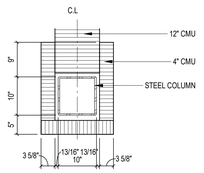
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SCALE: 3/4" = 1'-0"



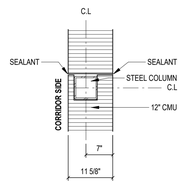
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SCALE: 3/4" = 1'-0"



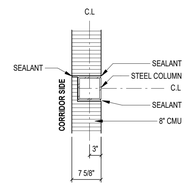
14 PLAN DETAIL
SCALE: 3/4" = 1'-0"



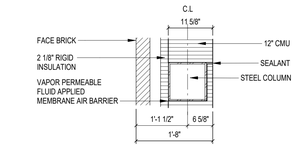
11 PLAN DETAIL
SCALE: 3/4" = 1'-0"



8 PLAN DETAIL
SCALE: 3/4" = 1'-0"



5 PLAN DETAIL
SCALE: 3/4" = 1'-0"



1 PLAN DETAIL
SCALE: 3/4" = 1'-0"

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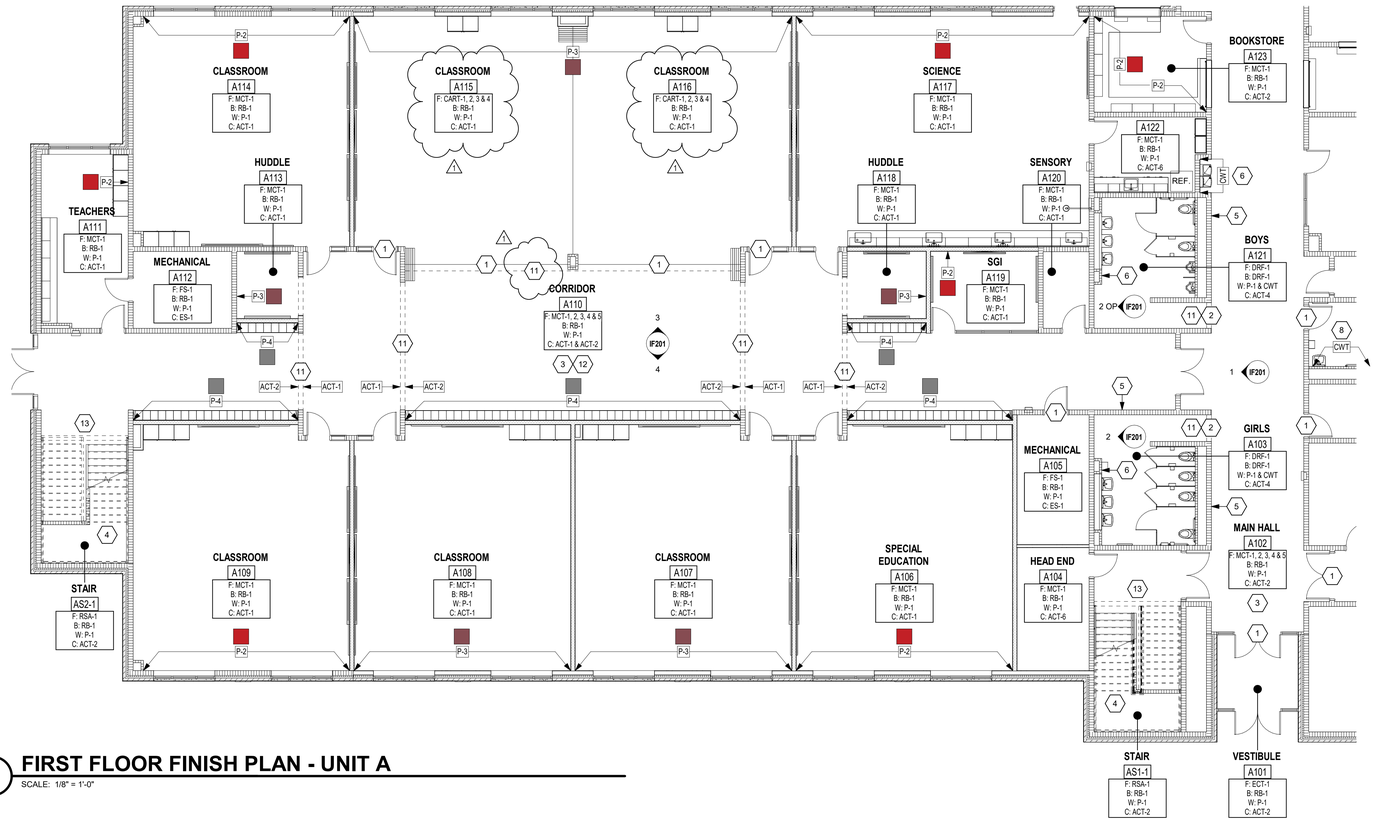
DOOR AND FRAME SCHEDULE

DOOR MARK	DOORS		FRAME			DETAILS			FIRE RATING	HARDWARE		STC RATING	REMARKS
	DOOR SIZE (WxH)	DOOR TYPE	FRAME MATERIAL	FRAME ELEVATION	JAMB DEPTH	HEAD	JAMB	SILL		SET NO.	KEYSIDE ROOM		
C216	PR 3'-0" x 7'-2"	N WD	HM	HM-2	8 3/4"	H1	J1	-		64	C201		ELECTRONIC ACCESS
C217	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	C216		ELECTRONIC ACCESS
C218	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	C216		ELECTRONIC ACCESS
C219	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	C216		ELECTRONIC ACCESS
C220	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	C216		ELECTRONIC ACCESS
C221	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	CS1-2		
C222	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		27	C216		
C224	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		37	C201		
D101	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		15	D104		
D102	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		47	EXT		ELECTRONIC ACCESS
D102A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		49	D105		
D103	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		15	D104		
D104	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		62	A102		ELECTRONIC ACCESS
D105	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		47	EXT		ELECTRONIC ACCESS
D105A	8'-0" x 8'-8"	OHCD	STL	-	2"	H23	J23	S23		69	EXT		MOTORIZED - INSULATED
D106	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		16	D105		
D107	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		03	D104		
D108	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		07	D107		
D109	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		10	D104		
D110	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		29	A102		
D111	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		39	A102		ELECTRONIC ACCESS
D112	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		14	D121		
D113	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		10	D114		
D113A			HM	HM-4	8 3/4"	H1	J1	S1		BL	D121		
D114	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		62	D105		ELECTRONIC ACCESS
D115	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		14	D105		
D115A	PR 3'-0" x 7'-2"	F FRP	AL	SF-34	4 1/2"	H3	J3	T1		35	EXT		ELECTRONIC ACCESS
D117	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		08	D116		
D118	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		17	D121		
D120	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		13	D121		
D120A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	D124		ELECTRONIC ACCESS
D121	6'-0" x 8'-0"	OHCG	AL	-	2"	H22	J22	-		69	D121		MOTORIZED
D121A	18'-0" x 8'-0"	OHCG	AL	-	2"	H22	J22	-		69	D121		MOTORIZED
D121B	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	A102		ELECTRONIC ACCESS
D122	6'-0" x 4'-8"	CCD	STL	-	2"	H22	J22	S22		69	D122		MOTORIZED - UNINSULATED
D123	3'-6" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		12	D121		
D123A	3'-0" x 7'-2"	FGAL2	AL	SF-33	4 1/2"	H7	J7	S4		20	A102		ELECTRONIC ACCESS
D124	PR 3'-0" x 7'-2"	FGAL2	AL	SF-34	4 1/2"	H7	J7	-		61	A102		ELECTRONIC ACCESS
D124A	PR 3'-0" x 7'-2"	FGAL2	AL	SF-34	4 1/2"	H7	J7	-		61	A102		ELECTRONIC ACCESS
D125	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		15	D124		ELECTRONIC ACCESS
D125A	6'-0" x 4'-8"	CCD	STL	-	2"	H22	J22	S22		69	D125		MOTORIZED - UNINSULATED
D125B	6'-0" x 4'-8"	CCD	STL	-	2"	H22	J22	S22		69	D125		MOTORIZED - UNINSULATED
D126	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		15	D105		
D201	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		32	A201		ELECTRONIC ACCESS
D202	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		29	A201		
D203	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		37	A201		
E101	PR 3'-0" x 7'-2"	FGAL2	AL		4 1/2"	H4 SIM	J3,J4 SIM	T1,T2		58	EXT		
E101A	PR 3'-0" x 7'-2"	FGAL2	AL		4 1/2"	H4 SIM	J3,J4 SIM	T1,T2		57	EXT		ELECTRONIC ACCESS - AUTO DOOR OPENER
E101B	PR 3'-0" x 7'-2"	FGAL2	AL	SF-24	4 1/2"	H5 SIM.	J10	S4		55	E101		
E101C	PR 3'-0" x 7'-2"	FGAL2	AL	SF-24	4 1/2"	H5 SIM.	J10	S4		56	E101		ELECTRONIC ACCESS - AUTO DOOR OPENER
E103	3'-0" x 7'-2"	FGAL2	AL	SF-22	4 1/2"	H7	J7	S4		40	B101		ELECTRONIC ACCESS
E103A			HM	HM-4	8 3/4"	H1	J1	-		BL	B101		
E104	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	B101		ELECTRONIC ACCESS
E104A	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		02	E104		
E105	3'-0" x 7'-2"	FGAL2	AL	SF-25	4 1/2"	H5,H11	J6,J10,J14	S4		19	E101		ELECTRONIC ACCESS
E105A	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		44	E105		ELECTRONIC ACCESS
E106	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E109		
E107	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E109		
E108	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E109		
E110	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E109		
E110A			HM	HM-8	5 3/4"	H2	J2	S2		BL	E110		
E110B	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E112	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		09	E109		
E113	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		09	E120		
E114	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	H3		10	E109		
E115	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		21	E109		ELECTRONIC ACCESS
E116	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		28	E120		
E117	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E109		
E117A	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E118	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	E120		ELECTRONIC ACCESS
E119	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	E105		ELECTRONIC ACCESS
E119A	3'-0" x 7'-2"	FGAL2	AL	SF-21	4 1/2"	H7	J7	S4		41	B101		ELECTRONIC ACCESS
E119B	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		44	E105		ELECTRONIC ACCESS
E119C			HM	HM-4	5 3/4"	H2	J2	S2		BL	E121		
E121	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	B101		ELECTRONIC ACCESS
E121A	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	E120		
E122	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		07	E121		
E123	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E124	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E125	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E126	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		10	E120		
E127	3'-0" x 7'-2"	F WD	HM	HM-3	5 3/4"	H2	J2	S3		22	E120		ELECTRONIC ACCESS
E128	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	S8	20 MIN.	36	E132		ELECTRONIC ACCESS
E129	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	S8	20 MIN.	26	E132		ELECTRONIC ACCESS
E130	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		28	F101		
E131	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-	20 MIN.	60	F101		
E133	PR 3'-0" x 7'-2"	F WD	HM	HM-2	1'-0 3/4"	H1	J1	-		33	F101		ELECTRONIC ACCESS
E135	3'-6" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-	20 MIN.	48	B101		ELECTRONIC ACCESS
E136	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		11	B101		
E137	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		29	B101		
E201	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		37	B202		
E202	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	B202		
F101	PR 3'-0" x 7'-2"	N WD	HM	HM-10	1'-0 3/4"	H1	J1	S3		63	B101		ELECTRONIC ACCESS
F101A	PR 3'-0" x 7'-2"	N WD	HM	HM-10	1'-0 3/4"	H1	J1	S3		63	C101		ELECTRONIC ACCESS
F101B	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F101C	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F101D	PR 3'-0" x 7'-2"	FGAL2	AL	SF-10	4 1/2"	H3	J3	T1 SIM		59	EXT		ELECTRONIC ACCESS
F102	PR 3'-0" x 7'-2"	N WD	HM	HM-11	1'-0 3/4"	H1	J1	-		64	C101		ELECTRONIC ACCESS
F102A	PR 3'-0" x 7'-2"	FGAL2	AL	SF-10	4 1/2"	H3	J3	T1		59	EXT		ELECTRONIC ACCESS
F102B	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F103	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F104	3'-4" x 8'-0"	OHCD	STL	-	2"	H22	J22	-		69	F104		MOTORIZED - UNINSULATED
F105	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		18	F106		
F106	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		06	F103		
F106A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		06	F111		
F107	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		29	F102		
F108	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		20	F102		ELECTRONIC ACCESS
F109	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		08	F106		
F111	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F111A	3'-0" x 7'-2"	F FRP	AL	SF-43	4 1/2"	H3	J3	T1		47	EXT		ELECTRONIC ACCESS
F112	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F113	3'-4" x 8'-0"	OHCD	STL	-	2"	H22	J22	-		69	F113		MOTORIZED - UNINSULATED
F114	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		18	F115		
F115	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		06	F112		
F115A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		06	F120		
F116	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		20	F102		ELECTRONIC ACCESS
F117	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		22	F102		ELECTRONIC ACCESS
F118	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		08	F115		
F120	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	F102		ELECTRONIC ACCESS
F120A	3'-0" x 7'-2"	F FRP	AL	SF-43	4 1/2"	H3	J3	T1		47	EXT		ELECTRONIC ACCESS
F121	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		30	FS1-1		
F201	PR 3'-0" x 7'-2"	N WD	HM	HM-10	1'-0 3/4"	H1	J1	-		64	C201		ELECTRONIC ACCESS
F201A	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		51	FS1-2		
F201B			HM	HM-9	1'-0 3/4"	H1	J1	S1		BL	B202		
F201C			HM	HM-9	1'-0 3/4"	H1	J1	S1		BL	C201		
F201D			HM	HM-9	1'-0 3/4"	H1	J1	S1		BL	C201		
F202	PR 3'-0" x 7'-2"	F WD	HM	HM-2	1'-0 3/4"	H1	J1	-		37	F201		
F203	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		44	C201		ELECTRONIC ACCESS
F203A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		42	F204		ELECTRONIC ACCESS
F204	PR 3'-0" x 7'-2"	F WD	HM	HM-2	1'-0 3/4"	H1	J1	-		63	F201		ELECTRONIC ACCESS
F204A			HM	HM-8	1'-0 3/4"	H1	J1	S1		BL	F201		
F204B			HM	HM-8	1'-0 3/4"	H1	J1	S1		BL	F201		
F204C	3'-0" x 7'-2"	F WD	HM	HM-1	1'-0 3/4"	H1	J1	-		52	F201		
F205	3'-6" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		21	F204		ELECTRONIC ACCESS
F206	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	F204		
G101	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		25	EXT		ELECTRONIC ACCESS
G101A	8'-0" x 5'-0"	OHCD	STL	-	2"	H21	J21	S21		68	G101		MANUAL - INSULATED
G102	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		31	EXT		
G103	PR 3'-0" x 7'-2"	F FRP	AL	SF-34	4 1/2"	H3	J3	T1		38	EXT		
G104	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		05	EXT		
G105	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		05	EXT		
G106	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1		54	EXT		
H101	3'-0" x 7'-2"	F FRP			5 3/4"					25			PRESSBOX DOORS - ELECTRONIC ACCESS
H101A	3'-0" x 7'-2"	F FRP			5 3/4"					25			PRESSBOX DOORS - ELECTRONIC ACCESS

NOTE: ALL OHCD, OHCG AND CCD DOORS ARE TO BE STEEL EXCEPT OHCD F104 AND OHCD F113 WHICH ARE TO BE ALUMINUM

DOOR AND FRAME SCHEDULE

DOOR MARK	DOORS		FRAME			DETAILS			FIRE RATING	HARDWARE		STC RATING	REMARKS
	DOOR SIZE (WxH)	DOOR TYPE	FRAME MATERIAL	FRAME ELEVATION	JAMB DEPTH	HEAD	JAMB	SILL		SET NO.	KEYSIDE ROOM		
A101	PR 3'-0" x 7'-2"	FGAL2	AL	SF-1	4 1/2"	H4	J4	T2		59	EXT		ELECTRONIC ACCESS
A101A	PR 3'-0" x 7'-2"	FGAL2	AL	SF-2	4 1/2"	H5	J5	-		04	A101		
A102	PR 3'-0" x 7'-2"	F WD	HM	HM-2	8 3/4"	H1	J1	-		64	A102		ELECTRONIC ACCESS
A102A	PR 3'-0" x 7'-2"	FGAL2	AL	CW-2	4 1/2"	H6	J3	T1,T2		59	EXT		ELECTRONIC ACCESS
A104	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		24	AS1-1		ELECTRONIC ACCESS
A105	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	A110		
A106	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A110		ELECTRONIC ACCESS
A107	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A110		ELECTRONIC ACCESS
A108	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A110		ELECTRONIC ACCESS
A109	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A110		ELECTRONIC ACCESS
A110	PR 3'-0" x 7'-2"	N WD	HM	HM-2	8 3/4"	H1	J1	-		64	A102		ELECTRONIC ACCESS
A110A	PR 3'-0" x 7'-2"	FGAL2	AL	CW-2	4 1/2"	H6	J3 SIM	T2		59	EXT		ELECTRONIC ACCESS
A111	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A110		ELECTRONIC ACCESS
A112	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	A111		
A114	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A110		ELECTRONIC ACCESS
A115	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A110		ELECTRONIC ACCESS
A116	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A110		ELECTRONIC ACCESS
A117	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A110		ELECTRONIC ACCESS
A117A	3'-0" x 7'-2"	F FRP	AL	SF-15	4 1/2"	H3	J3	T1,T2		47	EXT		ELECTRONIC ACCESS
A119	3'-0" x 7'-2"	FGAL2	AL	SF-5	4 1/2"	H5	J6	S4		22	A110		ELECTRONIC ACCESS
A120	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A110		ELECTRONIC ACCESS
A122	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A117		ELECTRONIC ACCESS
A123	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A102		ELECTRONIC ACCESS
A123A	6'-0" x 4'-8"	CCD	STL	-	2"	H22	J22	S22		68	A123		MANUAL - UNINSULATED
A123B	6'-0" x 5'-0"	CCD	STL	-	2"	H21	J21	S21		68	A123		MANUAL - INSULATED
A203	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		24	AS1-2		ELECTRONIC ACCESS
A204	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	A209		
A205	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A209		ELECTRONIC ACCESS
A206	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A209		ELECTRONIC ACCESS
A207	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A209		ELECTRONIC ACCESS
A208	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A209		ELECTRONIC ACCESS
A209	PR 3'-0" x 7'-2"	N WD	HM	HM-2	8 3/4"	H1	J1	-		64	A201		ELECTRONIC ACCESS
A210	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A209		ELECTRONIC ACCESS
A211	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		28	A210		
A213	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		24	A209		ELECTRONIC ACCESS
A214	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A209		ELECTRONIC ACCESS
A215	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A209		ELECTRONIC ACCESS
A216	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	A209		ELECTRONIC ACCESS
A216A	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		52	A201		
A218	3'-0" x 7'-2"	FGAL2	AL	SF-36	4 1/2"	H5	J6,J10	S4		22	A209		ELECTRONIC ACCESS
A219	3'-0" x 7'-2"	FGAL2	AL	SF-36	4 1/2"	H5	J6,J10	S4		22	A209		ELECTRONIC ACCESS
A221	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A216		ELECTRONIC ACCESS
A222	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	A201		ELECTRONIC ACCESS
A223	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		39	A201		ELECTRONIC ACCESS
B101	PR 3'-0" x 7'-2"	FGAL2	AL	CW-2	4 1/2"	H6	J3	T1,T2		59	EXT		ELECTRONIC ACCESS
B103	PR 3'-0" x 7'-2"	FGAL2	AL	SF-9	4 1/2"	H5	J7	S4		61	B101		ELECTRONIC ACCESS
B103A	3'-0" x 7'-2"	FGAL2	AL	SF-7	4 1/2"	H3	J3	T1,T2		46	EXT		ELECTRONIC ACCESS
B104	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	B103		ELECTRONIC ACCESS
B104A			HM	HM-4	5 3/4"	H2	J2	S2		BL	B103		
B105	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	B103		ELECTRONIC ACCESS
B105A			HM	HM-4	5 3/4"	H2	J2	S2		BL	B103		
B105B	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		22	B109		ELECTRONIC ACCESS
B106	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	B109		ELECTRONIC ACCESS
B106A			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B106B			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B106C	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/8"	H2	J2	-		44	B103		ELECTRONIC ACCESS
B106D			HM	HM-5	8 3/8"	H2	J2	S1		BL	B106		
B107	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	B109		ELECTRONIC ACCESS
B107A			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B107B			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B107C	3'-0" x 7'-2"	FGAL2	AL	SF-7	4 1/2"	H3	J3	T1,T2		46	EXT		ELECTRONIC ACCESS
B108	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/4"	H1	J1	-		21	B107		ELECTRONIC ACCESS
B109	PR 3'-0" x 7'-2"	N WD	HM	HM-2	8 3/4"	H1	J1	-		64	B102		ELECTRONIC ACCESS
B109A	PR 3'-0" x 7'-2"	FGAL2	AL	CW-2	4 1/2"	H6	J3 SIM	T1,T2		59	EXT		ELECTRONIC ACCESS
B110	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	B109		ELECTRONIC ACCESS
B110A			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B110B			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B110C	3'-0" x 7'-2"	FGAL2	AL	SF-7	4 1/2"	H3	J3	T1,T2		46	EXT		ELECTRONIC ACCESS
B111	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/8"	H2	J2	-		21	B110		ELECTRONIC ACCESS
B111A	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		21	B114		ELECTRONIC ACCESS
B112	3'-0" x 7'-2"	F WD	HM	HM-1	8 3/8"	H2	J2	-		22	B110		ELECTRONIC ACCESS
B112A	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		22	B114		ELECTRONIC ACCESS
B113	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/8"	H2	J2	-		21	B110		ELECTRONIC ACCESS
B113A			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B113B			HM	HM-5	8 3/4"	H1	J1	S1		BL	B109		
B113C	3'-0" x 7'-2"	F WD	HM	HM-1	5 3/4"	H2	J2	-		21	B114		ELECTRONIC ACCESS
B114	3'-0" x 7'-2"	F WD	HM	HM-3	8 3/4"	H1	J1	S3		44	B109		ELECTRONIC ACCESS
B114A			HM



1 FIRST FLOOR FINISH PLAN - UNIT A

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE P-13 AND IF-14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Avenue
Portage, IN 46368

PORTAGE TOWNSHIP SCHOOLS

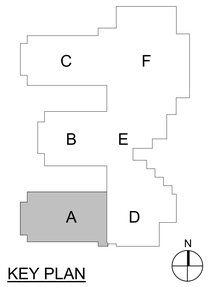
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

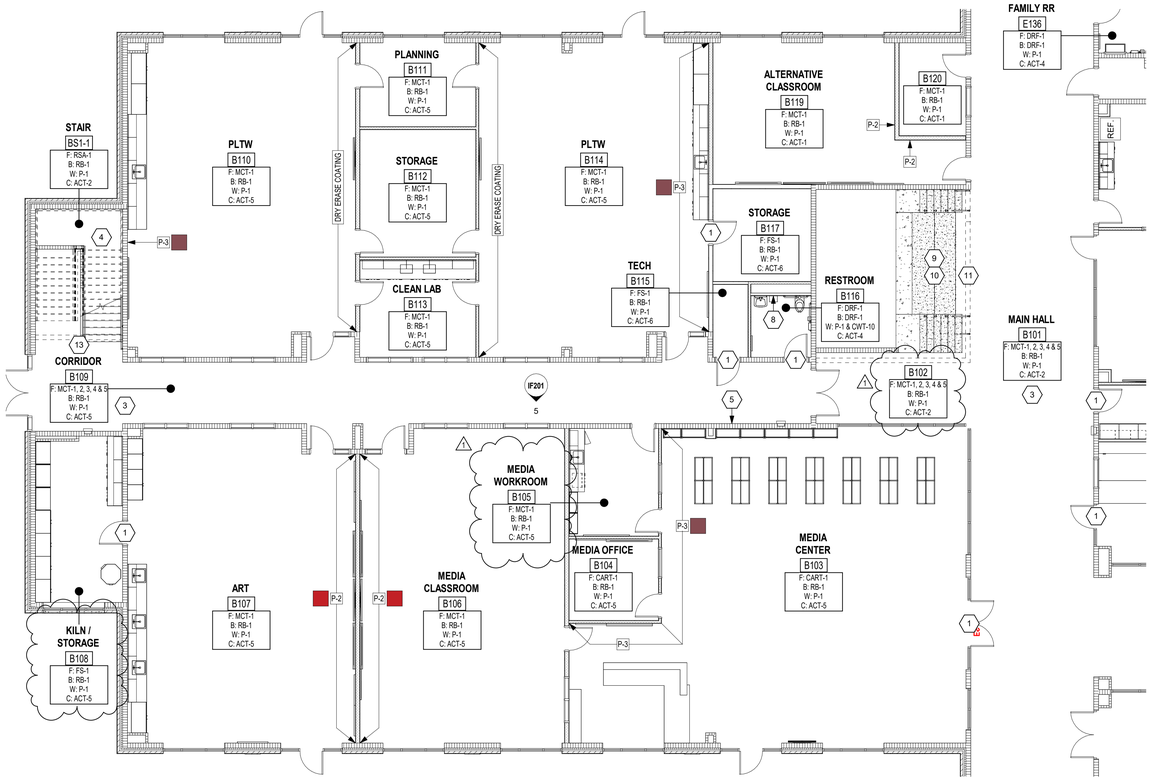
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT A

IF11A

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1 FIRST FLOOR FINISH PLAN - UNIT B

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE F-13 AND IF-1 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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

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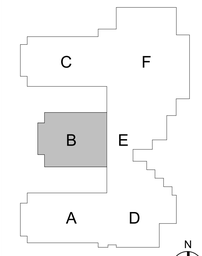
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KEY PLAN

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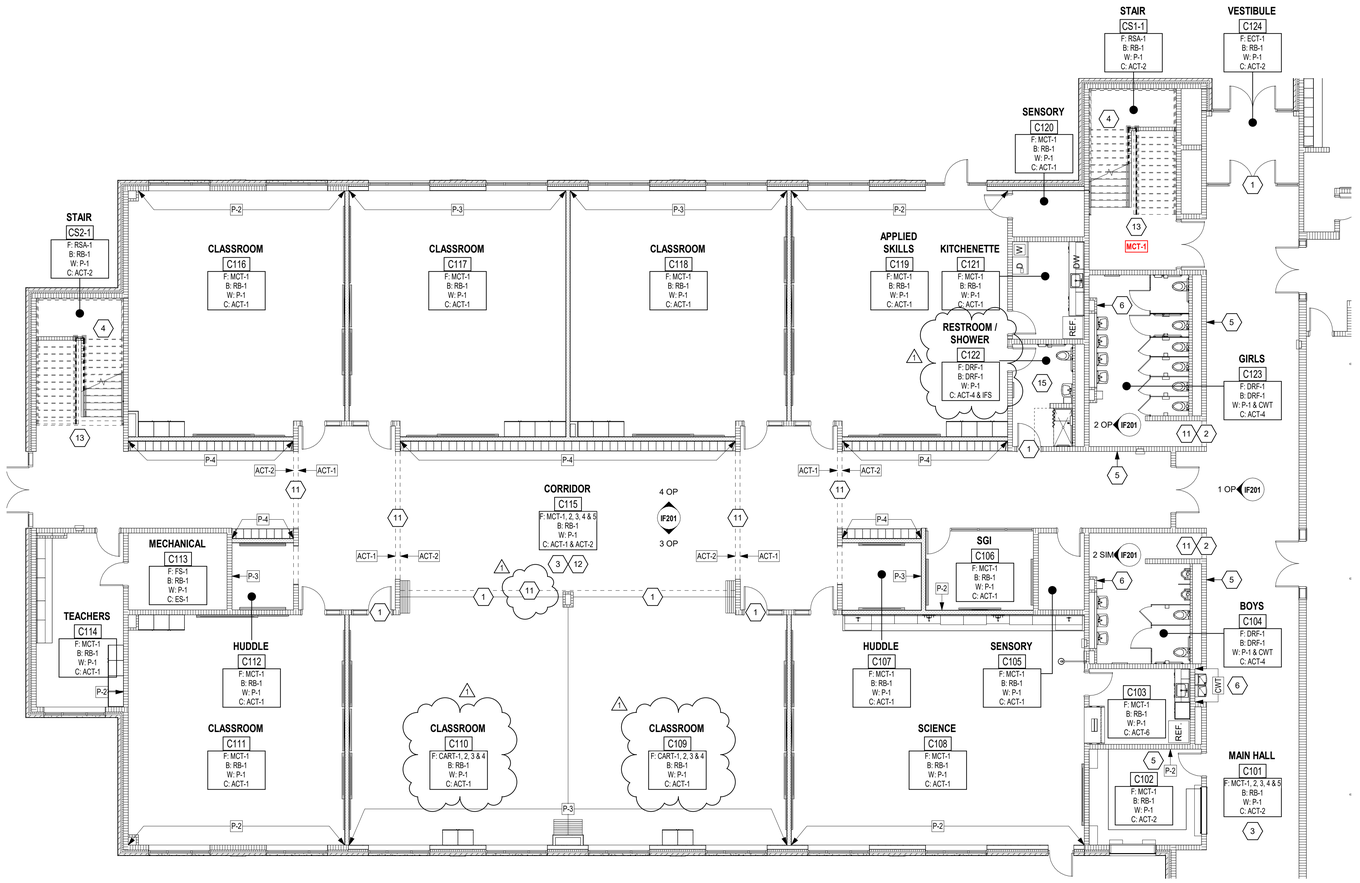
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT B

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1 FIRST FLOOR FINISH PLAN - UNIT C

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE P-13 AND IF-1 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

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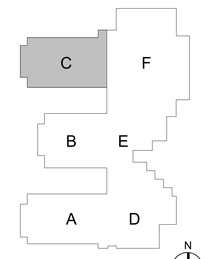
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KEY PLAN



PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

VERIFICATION NOTE

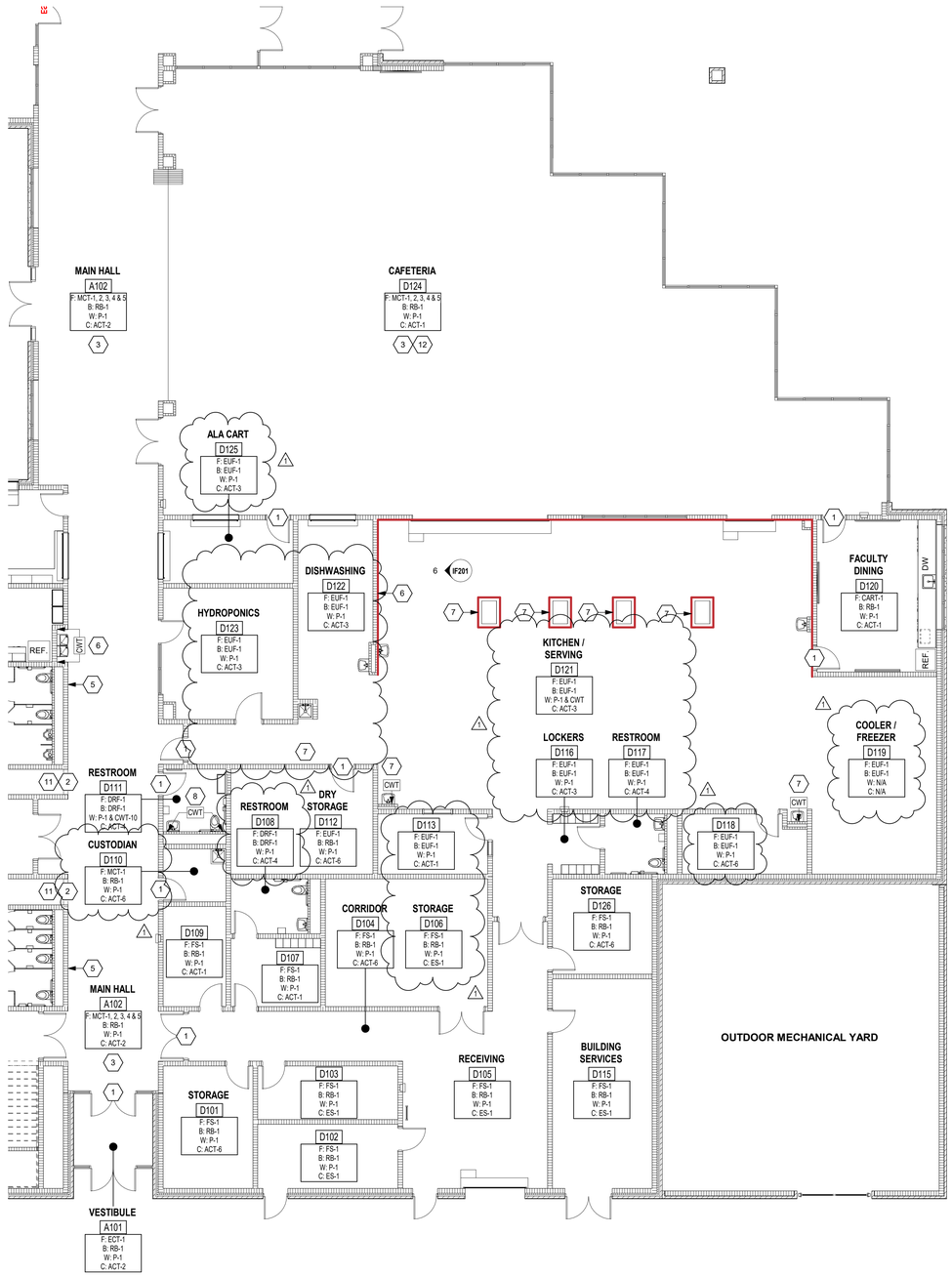
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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

FIRST FLOOR FINISH PLAN - UNIT C

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1 **FIRST FLOOR FINISH PLAN - UNIT D**

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF-13 AND IF-14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO RCP ELECTRICAL CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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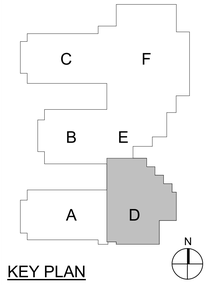
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KEY PLAN

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

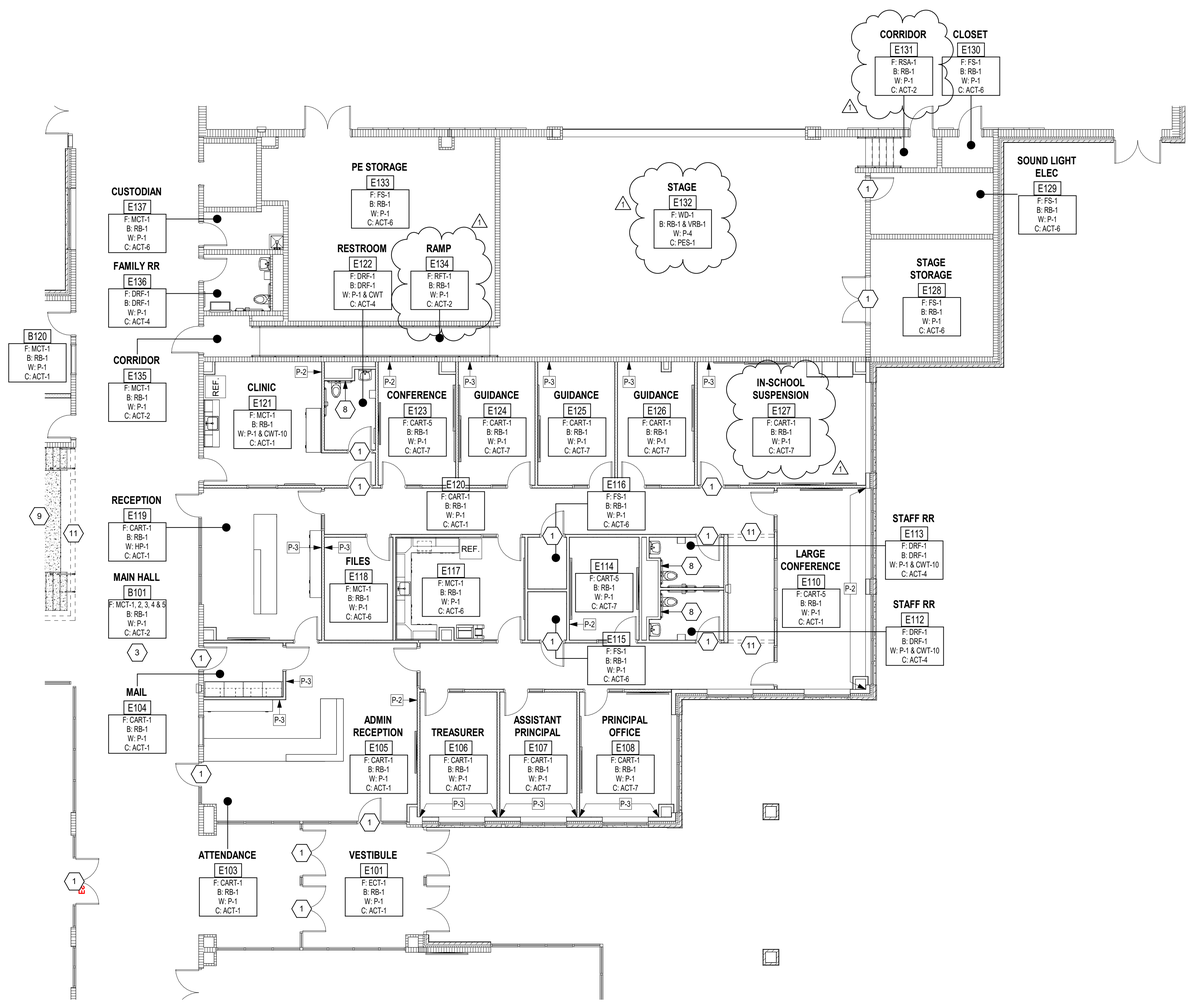
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT D

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1 FIRST FLOOR FINISH PLAN - UNIT E

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO OTHER ELECTRICAL CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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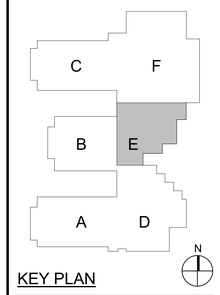
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KEY PLAN

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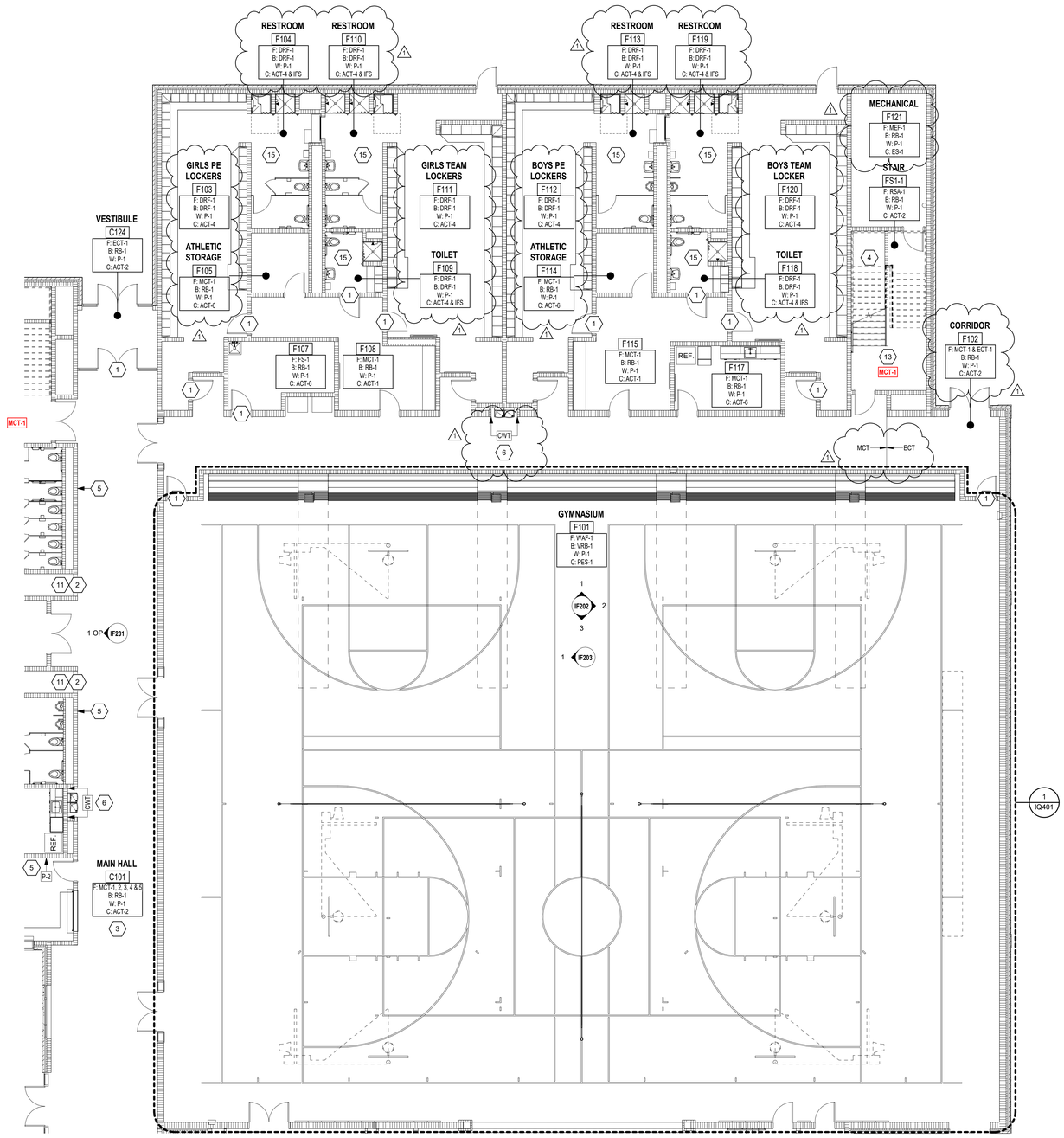
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT E

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1 FIRST FLOOR FINISH PLAN - UNIT F

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF-13 AND IF-14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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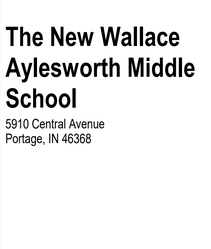
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KEY PLAN

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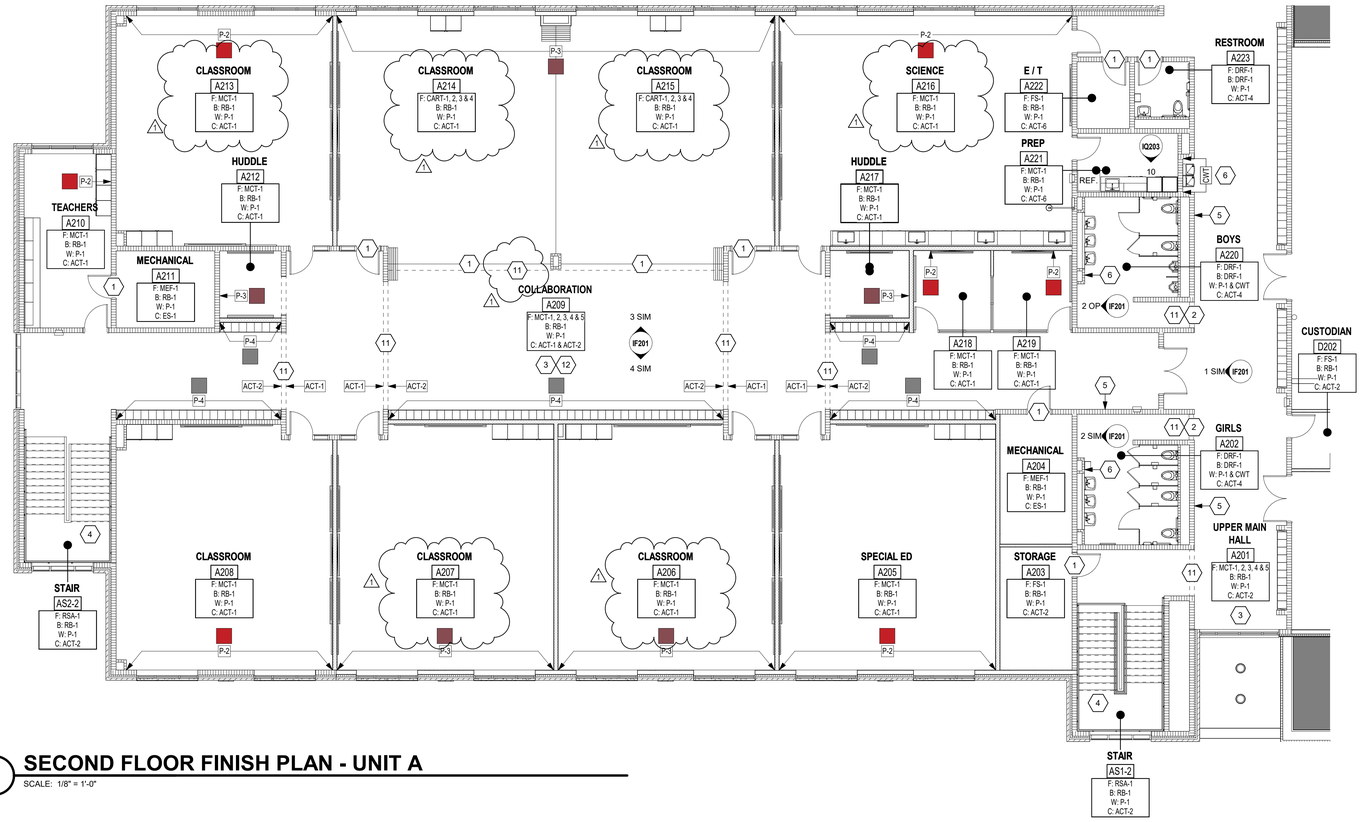
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT F

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1 SECOND FLOOR FINISH PLAN - UNIT A

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE P-13 AND IF-1 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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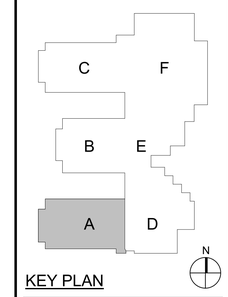
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KEY PLAN

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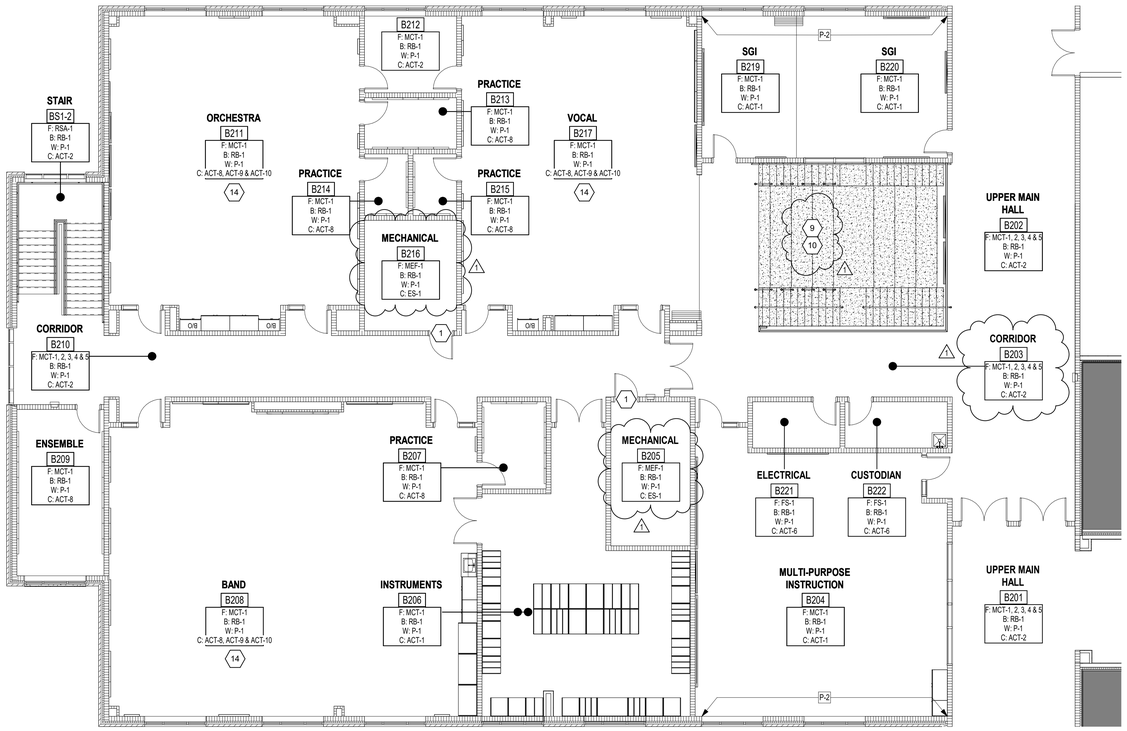
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
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SECOND FLOOR FINISH PLAN - UNIT A

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1 SECOND FLOOR FINISH PLAN - UNIT B

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE F-13 AND IF-1 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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

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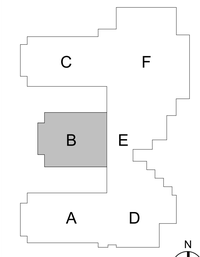
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KEY PLAN

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

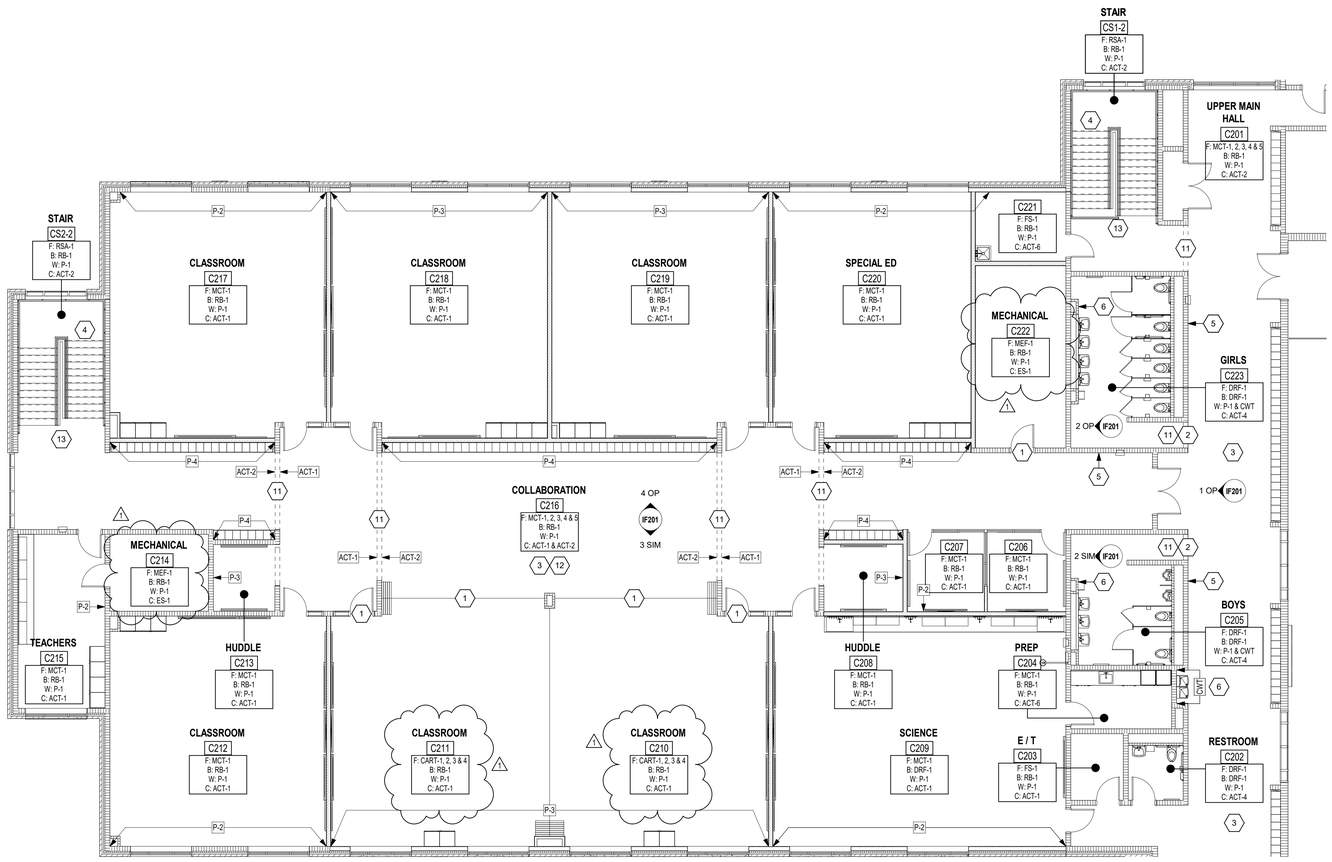
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/10/2025

SECOND FLOOR FINISH PLAN - UNIT B

IF12B

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1 SECOND FLOOR FINISH PLAN - UNIT C

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE P-13 AND IF-14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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

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

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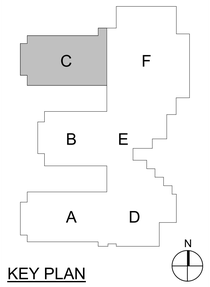
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KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

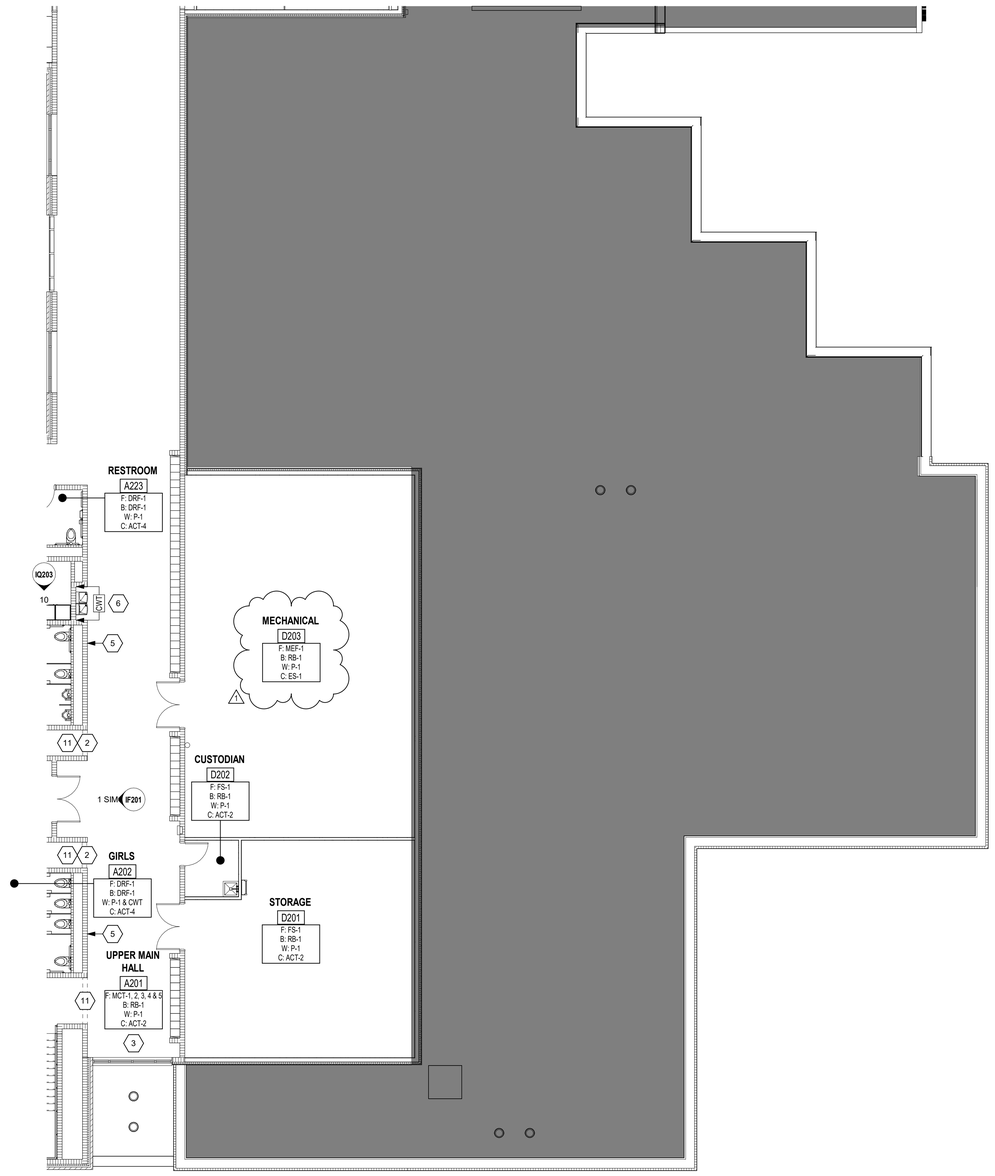
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/10/2025

SECOND FLOOR FINISH PLAN - UNIT C

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1 SECOND FLOOR FINISH PLAN - UNIT D

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE FP-13 AND IF-14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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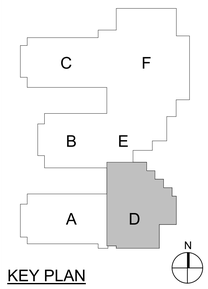
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KEY PLAN

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

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

SECOND FLOOR FINISH PLAN - UNIT D

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1 **SECOND FLOOR FINISH PLAN - UNIT E**

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE F-13 AND IF-1 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-5.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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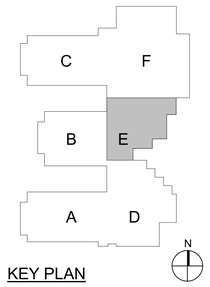
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KEY PLAN

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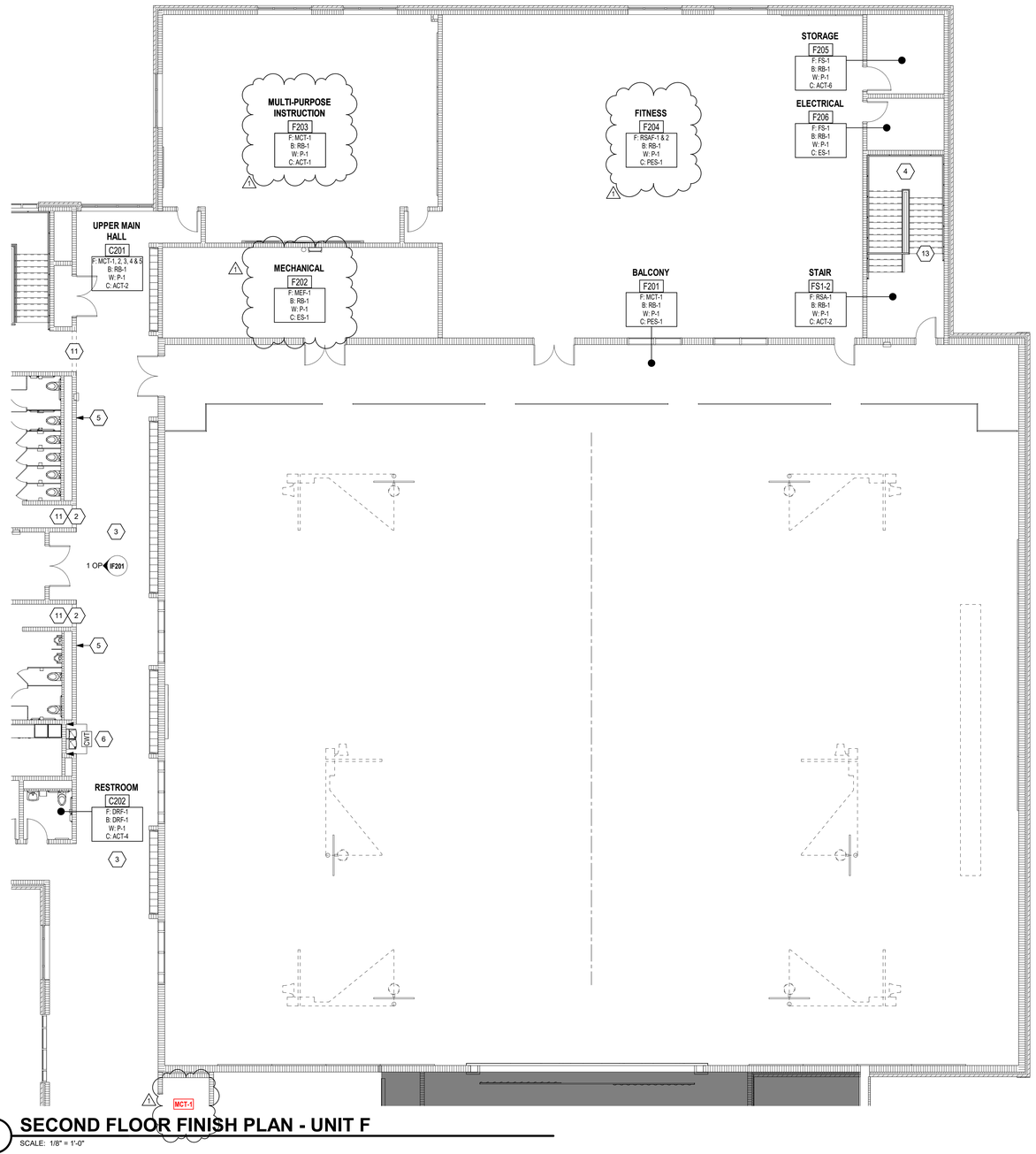
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/10/2025

SECOND FLOOR FINISH PLAN - UNIT E

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1 **SECOND FLOOR FINISH PLAN - UNIT F**

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL COLUMNS TO RECIEVE PT-4, UNLESS OTHERWISE NOTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE I.F.13 AND IF.14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION.
7. INSTALL CWT-9. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
8. INSTALL CWT-10 ON WET WALL. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. WB PAINT BELOW STAIRS TO BE PT-9.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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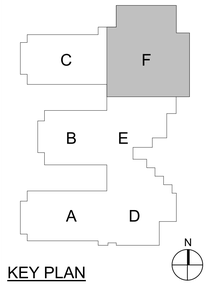
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KEY PLAN

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

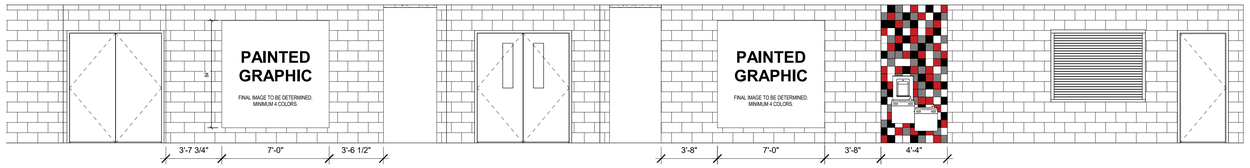
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

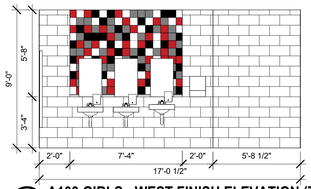
SECOND FLOOR FINISH PLAN - UNIT F

IF12F

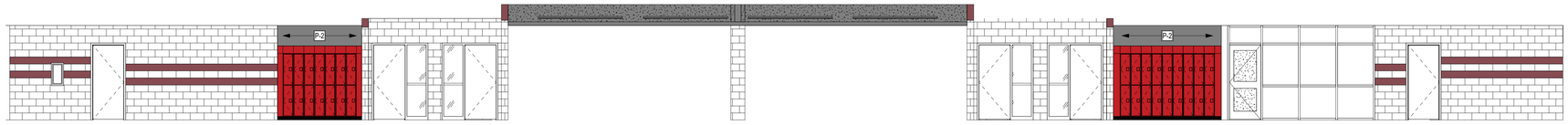
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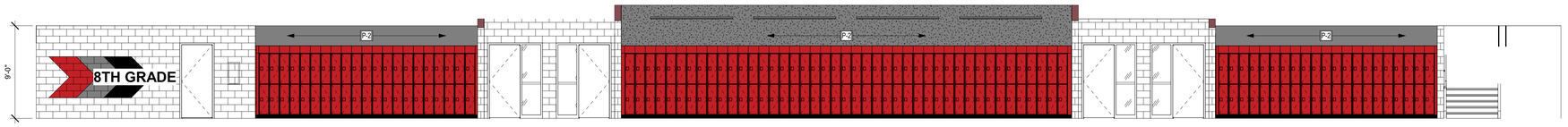
1 **A102 MAIN HALL - WEST FINISH ELEVATION**
SCALE: 1/4" = 1'-0"



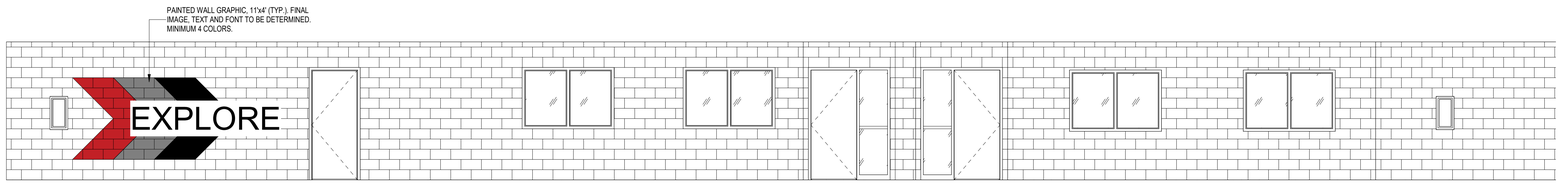
2 **A103 GIRLS - WEST FINISH ELEVATION (TYP.)**
SCALE: 1/4" = 1'-0"



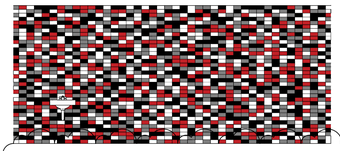
3 **A110 CORRIDOR - NORTH FINISH ELEVATION**
SCALE: 3/16" = 1'-0"



4 **A110 CORRIDOR - SOUTH FINISH ELEVATION**
SCALE: 3/16" = 1'-0"



5 **B109 CORRIDOR - SOUTH FINISH ELEVATION**
SCALE: 1/4" = 1'-0"



6 **D124 CAFETERIA - TYPICAL TILE ELEVATION**
SCALE: 1/4" = 1'-0"
*RANDOM PATTERN, (25/25/25/25) ELEVATION TYPICAL FOR ALL WALLS HIGHLIGHTED ON IF11D.

INTERIOR ELEVATION NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. PLASTIC LAMINATE CASEWORK, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. SOLID SURFACE COUNTERTOP, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. RESIN COUNTERTOP WITH INTEGRAL SINKS, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
6. SINGLE UNIT DISPLAY BOARD, SEE EQUIPMENT PLANS AND AQ-601 FOR DETAILS.
7. TV MONITOR

VERIFICATION NOTE

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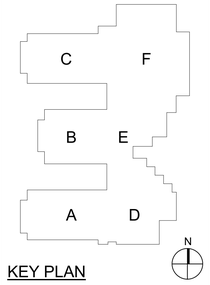
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KEY PLAN

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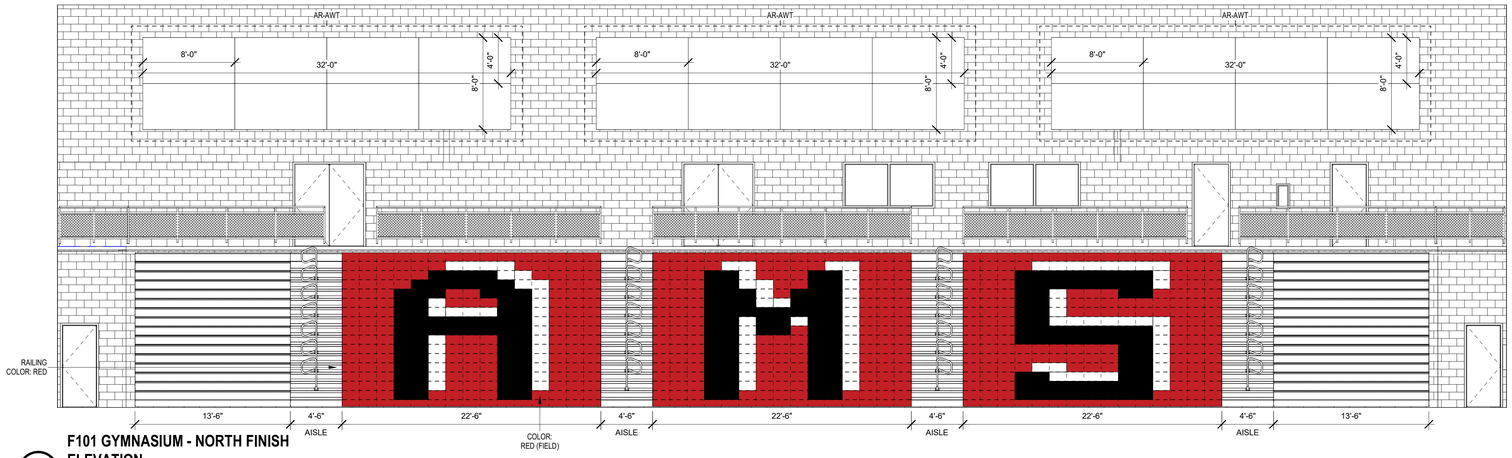
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

INTERIOR FINISH ELEVATIONS

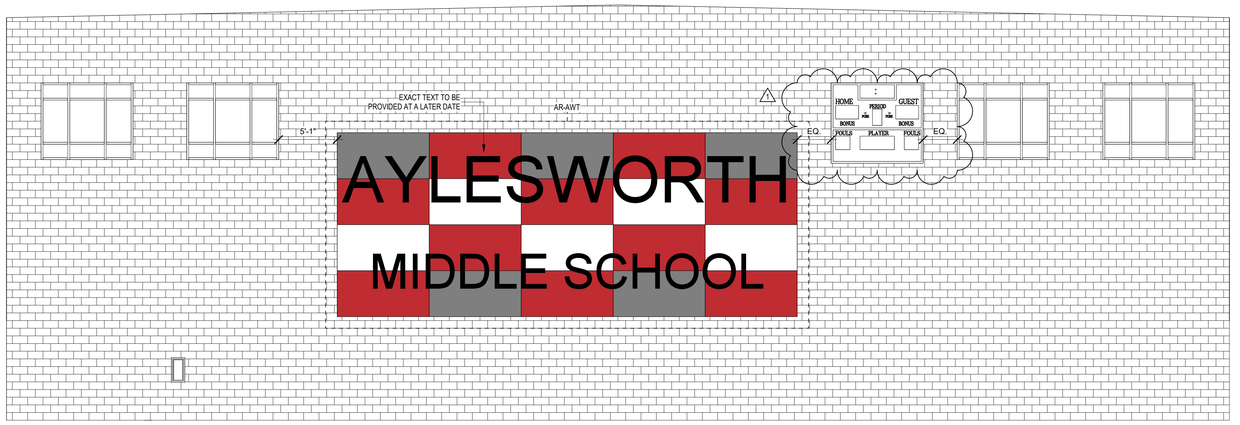
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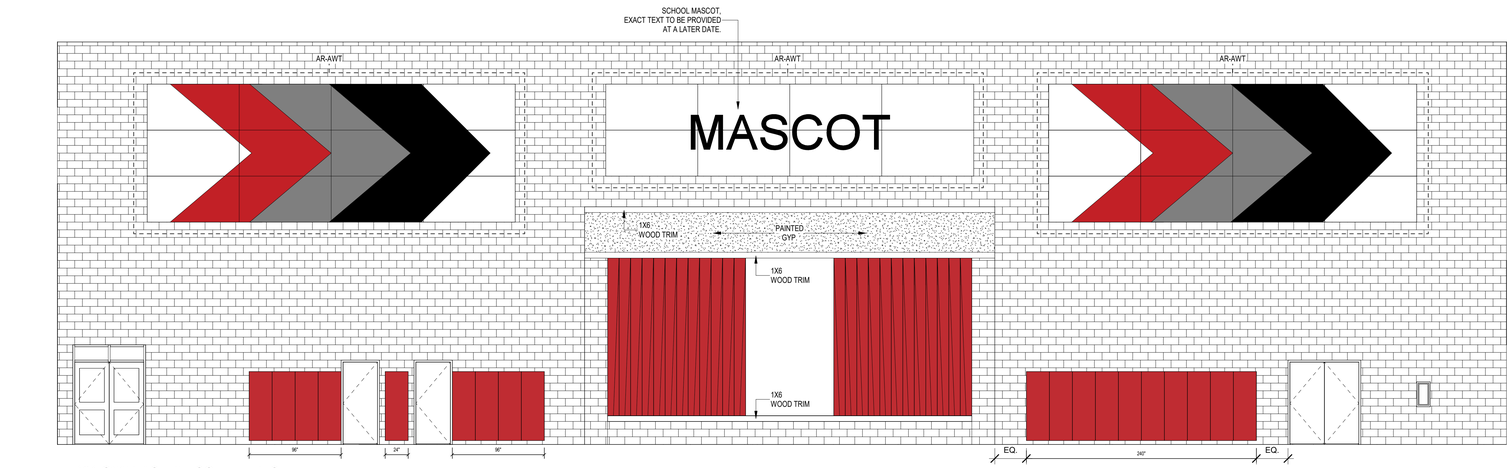
F101 GYMNASIUM - NORTH FINISH ELEVATION

1 SCALE: 3/16" = 1'-0"



F101 GYMNASIUM - EAST FINISH ELEVATION

2 SCALE: 3/16" = 1'-0"



F101 GYMNASIUM - SOUTH FINISH ELEVATION

3 SCALE: 3/16" = 1'-0"

INTERIOR ELEVATION NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. PLASTIC LAMINATE CASEWORK, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. SOLID SURFACE COUNTERTOP, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. RESIN COUNTERTOP WITH INTEGRAL SINKS, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
6. SINGLE UNIT DISPLAY BOARD, SEE EQUIPMENT PLANS AND AQ-601 FOR DETAILS.
7. TV MONITOR

VERIFICATION NOTE

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

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

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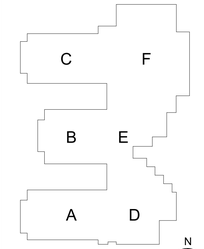
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KEY PLAN



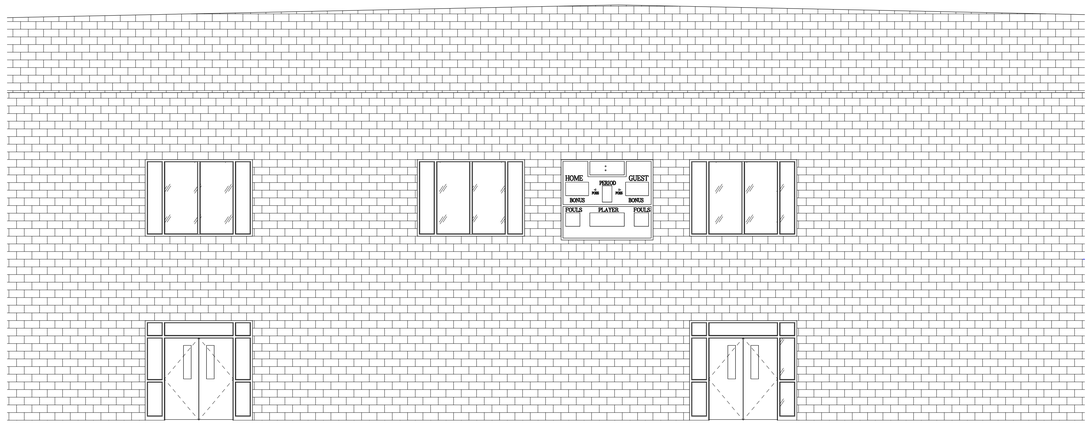
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1	Addendum #3	11/18/2025

INTERIOR FINISH ELEVATIONS

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F101 GYMNASIUM - WEST FINISH ELEVATION

1 SCALE: 3/16" = 1'-0"

INTERIOR ELEVATION NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. PLASTIC LAMINATE CASEWORK, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. SOLID SURFACE COUNTERTOP, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. RESIN COUNTERTOP WITH INTEGRAL SINKS, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
6. SINGLE UNIT DISPLAY BOARD, SEE EQUIPMENT PLANS AND AQ-601 FOR DETAILS.
7. TV MONITOR

VERIFICATION NOTE

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

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

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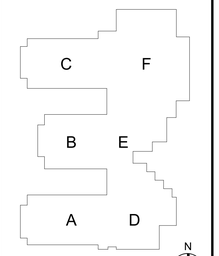
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KEY PLAN



PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE

INTERIOR FINISH ELEVATIONS

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LIST OF FINISHES

WALL FINISHES

ABUSE RESISTANT - ACOUSTICAL WALL TILES

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
AR-AWT-1	REFER TO SPECIFICATIONS	SEE ELEVATIONS FOR PAINT SELECTIONS

ACOUSTIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
AWT-1	DESIGNTEX	TO BE SELECTED
AWT-2	DESIGNTEX	TO BE SELECTED
AWT-3	DESIGNTEX	TO BE SELECTED
AWT-4	DESIGNTEX	TO BE SELECTED
AWT-5	DESIGNTEX	TO BE SELECTED

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
CWT-1	DALTILE - COLOR WHEEL	ARCTIC WHITE 0190 / 6"x6"
CWT-2	DALTILE - COLOR WHEEL	CURRANT SH17 / 6"x6"
CWT-3	DALTILE - COLOR WHEEL	CHALKBOARD 0180 / 6"x6"
CWT-4	DALTILE - COLOR WHEEL	BLACK K111 / 6"x6"
CWT-5 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	ARCTIC WHITE 0190 / 3"x6"
CWT-6 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	CURRANT SH17 / 3"x6"
CWT-7 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	CHALKBOARD 0180 / 3"x6"
CWT-8 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	BLACK K111 / 3"x6"
CWT-9 (KITCHEN / SERVING)	DALTILE - SHOWSCAPE	CURRANT SH17 / 12"x24"
CWT-10	DALTILE - SHOWSCAPE	COLOR TO BE DECIDED / 12"X24"

IMPACT-RESISTANT WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
IRWC-1	CS ACROVYN / WALL COVERING	TO BE SELECTED / .060" THICK
IRWC-2	CS ACROVYN / WALL COVERING	TO BE SELECTED / .060" THICK
IRWC-3	CS ACROVYN / WALL COVERING	TO BE SELECTED / .060" THICK

PAINT

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	SHERWIN WILLIAMS	TO BE SELECTED
P-2 (RED ACCENT)	SHERWIN WILLIAMS	TO BE SELECTED
P-3 (MAROON ACCENT)	SHERWIN WILLIAMS	SUN DRIED TOMATO SW7585
P-4 (GRAY ACCENT)	SHERWIN WILLIAMS	GRIZZLE GRAY SW7068
P-5 (DOOR AND WINDOW FRAMES)	SHERWIN WILLIAMS	BLACK MAGIC SW6991
P-6 (CEILING)	SHERWIN WILLIAMS	TO BE SELECTED

CEILING FINISHES

ACOUSTICAL CEILING TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
ACT-1 (FCLASSROOM)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-2 (CORRIDOR)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-3 (KITCHEN)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-4 (RESTROOMS)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-5 (VESTIBULES)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-6 (STORAGE)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-7 (OFFICES)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-8 (MUSIC ABS)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-9 (MUSIC REF)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-10 (MUSIC DIF)	REFER TO SPECIFICATIONS	OFFSET PYRAMIDAL DIFFUSOR

GYPSUM WALLBOARD CEILING AND BULKHEADS

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION

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

PAINTED EXPOSED STRUCTURE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION

PES - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR PAINT TYPE AND HEIGHT.

MISCELLANEOUS FINISHES

CORNER GUARDS

8'-2" HIGH, MOUNT AT 4" AFF.

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
CG-1	REFER TO SPECIFICATIONS	TO BE SELECTED

INTERIOR WOOD DOORS AND TRIM

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION

- REFER TO SPECFICATIONS, STAINED TO MATCH WILSONART: GOLDEN SHORES TEAK.
- PROVIDE WOOD STAIN SAMPLES FOR VERIFICATION.

GROUT

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
GT-1	REFER TO SPECIFICATIONS	MATCH: MAPEI - AVALANCHE 38

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
CART-1 (ALL OVER)	MANNINGTON - LIMINAL SPACE: INCLINATION	CRYPTIC 11601 / 12x36
CART-2 (ACCENT)	MANNINGTON - COLOR ANCHOR II	POPPY 73013 / 12x36
CART-3 (ACCENT)	MANNINGTON - COLOR ANCHOR II	BEETROOT 74017 / 12x36
CART-4 (ACCENT)	MANNINGTON - EXCHANGE 2: TRANSMIT	OPERATOR 14148 / 24x24
CART-5 (ADMIN ACCENT)	MANNINGTON - SPIN REMIX: RPM RMX	ZYDECO 73228 / 12x36

- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- INSTALLATION METHOD OF CART- 1, 2, 3 & 5 TILE IS TO BE VERTICAL ASHLAR. CART-4 IS TO BE QUARTER TURN.
- SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

DECORATIVE RESINOUS FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
DRF-1	REFER TO SPECIFICATIONS	MATCH SHERWIN WILLIAMS RESUFLOR TOPCOAT METALLIC IN ANGEL WING AND LIQUID PENDANT.

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
ECT-1	MANNINGTON - STEP UP II	OBSIDIAN 989 / 24x24

- INSTALLATION METHOD OF ALL ENTRANCE CARPET TILE IS TO BE QUARTER TURN.

FLOOR SEALER

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
FS-1	REFER TO SPECIFICATIONS	CLEAR

FLUID APPLIED CEMENTITIOUS URETHANE FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
EUF-1	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD - TO BE SELECTED

LUXURY VINYL TILE (ALTERNATE)

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
LVT-1	MANNINGTON - AMTICO SIGNATURE: STONE	TEMPUS EMBRACE (AR0STE30) / 12x24
LVT-2 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: ABSTRACT	BANGKOK (ARIACF59) / 12x24
LVT-3 (ACCENT)	MANNINGTON - COLOR ANCHOR: GROOVE	RHUBARB PIE (C102) / 12x24
LVT-4 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: STONE	TEMPUS PAUSE (TE37) / 12x24
LVT-5 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: STONE	GRAPHITE SLATE (AR0SSL23) / 12x24

RESILIENT TILE FLOORING (LINOLEUM FLOORING)

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
MCT-1	FORBO MARMOLEUM	EIGER T2629 / 33.3CMx33.3CMx2.0MM
MCT-2 (ACCENT)	FORBO MARMOLEUM	BLEECKERSTREET 3127 / 33.3CMx33.3CMx2.0MM
MCT-3 (ACCENT)	FORBO MARMOLEUM	BURGANDY 3276 / 33.3CMx33.3CMx2.0MM
MCT-4 (ACCENT)	FORBO MARMOLEUM	GRAPHITE T3048 / 33.3CMx33.3CMx2.0MM
MCT-5 (ACCENT)	FORBO MARMOLEUM	BLACK 2939 / 33.3CMx33.3CMx2.0MM

RESILIENT TREADS & RISERS / RESILIENT STAIR ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RSA-1	JOHNSONITE-TARKETT COLORS SPLASH INTEGRATED TREAD AND RISER	TO BE SELECTED - DIAMOND PATTERN VICNNTR - GRIT TAPE COLOR TO BE SELECTED

RUBBER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RFT-1	JOHNSONITE-TARKETT COLORS SPLASH INTEGRATED TREAD AND RISER	BLACK - RAISED SQUARE PATTERN VICNNTR - GRIT TAPE COLOR TO BE SELECTED

RUBBER SHEET ATHLETIC FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RSAF-1	REFER TO SPECIFICATIONS	MATCH MONDO DARK GREY L06
RSAF-1	REFER TO SPECIFICATIONS	MATCH MONDO RED L41

WOOD ATHLETIC FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
WAF-1	REFER TO SPECIFICATIONS	TO BE SELECTED

WOOD FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
WD-1	REFER TO SPECIFICATIONS	TO BE SELECTED

BASE MATERIALS

CERAMIC TILE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CTB-1	DALTILE - COLOR WHEEL: COVE BASE	BLACK K111

DECORATIVE RESINOUS FLOORING (INTEGRAL COVE BASE)

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
DRF-1	MATCH DRF-1 FLOORING	MATCH DRF-1 FLOORING

RESILIENT BASE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RB-1	JOHNSONITE-TARKETT	BLACK B 40

MATERIAL & FINISH GENERAL NOTES

GENERAL
A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (IF SERIES) FOR MATERIALS, PATTERNS AND COLORS.
B. REFER TO IQ601 FOR ADDITIONAL FINISHES NOT NOTED HERE.
C. ELEVATOR CAB TO BE WILSONART: HANDSPUN PEARL (5033-38), WITH CARPET TILE, CART-1, FLOORING.

FLOORING
A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.
E. COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING INSTALLER.
F. REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.
G. PROVIDE RSA ON ALL STAIRS. REFER TO FINISH PLANS FOR MATERIAL/COLOR TO BE INSTALLED.
H. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

WALL BASE
A. ALL RB BASE TO BE COVED.
B. PROVIDE PREFORMED BASE TO MATCH 1"RADIUS AT ALL LOCATIONS WHERE BASE COVERS MASONRY BULLNOSE. REFER TO FINISH SCHEDULE FOR BASE MATERIAL TYPE. TYPICAL AT ALL LOCATIONS. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT & STAIN
A. PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. PAINT ONCE MOCK-UP CLASSROOM TO RECEIVE ARCHITECT'S APPROVAL PRIOR TO ORDERING PAINT FOR THE ENTIRE BUILDING.

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
C. ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.22 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
D. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
E. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
F. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.223 (EPOXY-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
G. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.224 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
H. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #9.211 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
I. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
J. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
K. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
L. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.
M. ALL WALLS ARE TO RECEIVE AN EGGSHELL FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.

PAINT COLOR GENERAL NOTES

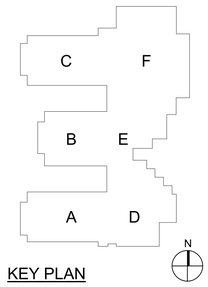
A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P-5.
C. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
D. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
E. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-6 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES TO BE PAINTED P-5 UNLESS OTHERWISE NOTED.
G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.

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PORTAGE TOWNSHIP SCHOOLS

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KEY PLAN



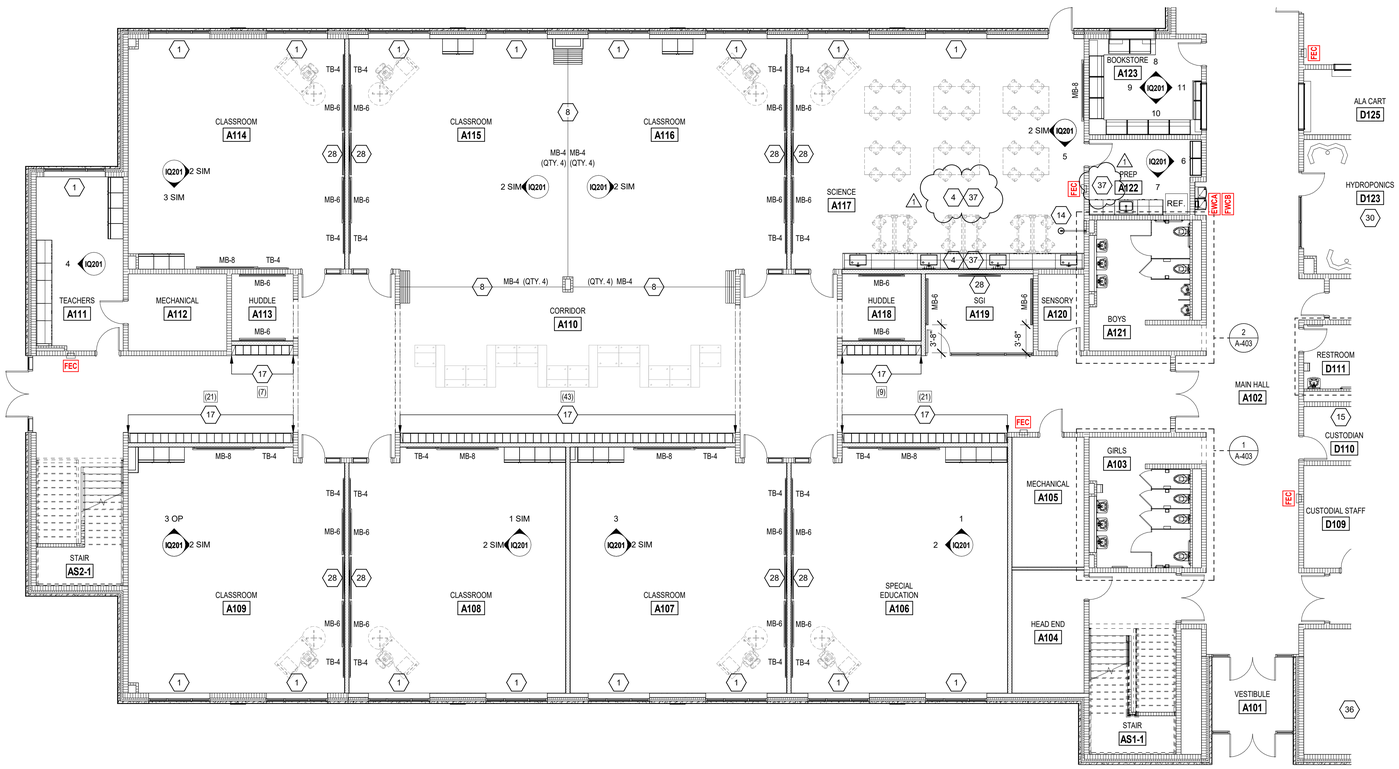
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LIST OF FINISHES

IF601

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1 FIRST FLOOR EQUIPMENT PLAN - UNIT A

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTIITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE, BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx30"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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

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

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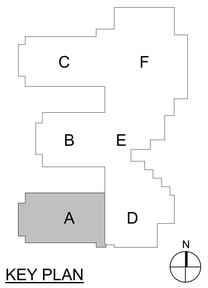
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ARCHITECT

FANNING HOWEY

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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN



PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

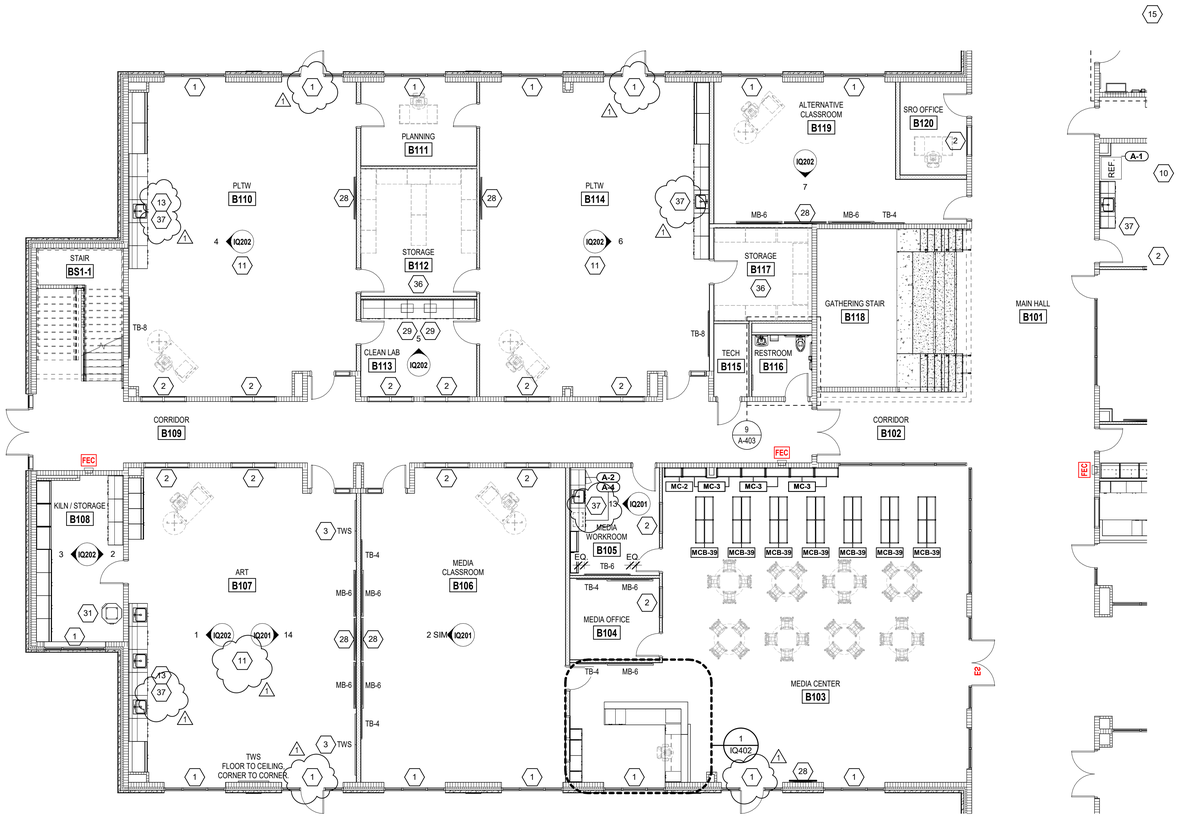
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT A

IQ11A

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1 FIRST FLOOR EQUIPMENT PLAN - UNIT B

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMIEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE. BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES. SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
    SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
    A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
    B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
    C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS. ACCESSORIES, ETC.
    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
    H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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

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

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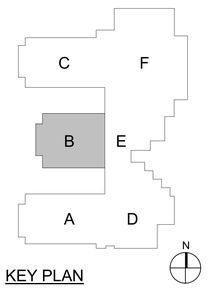
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ARCHITECT

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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800181 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

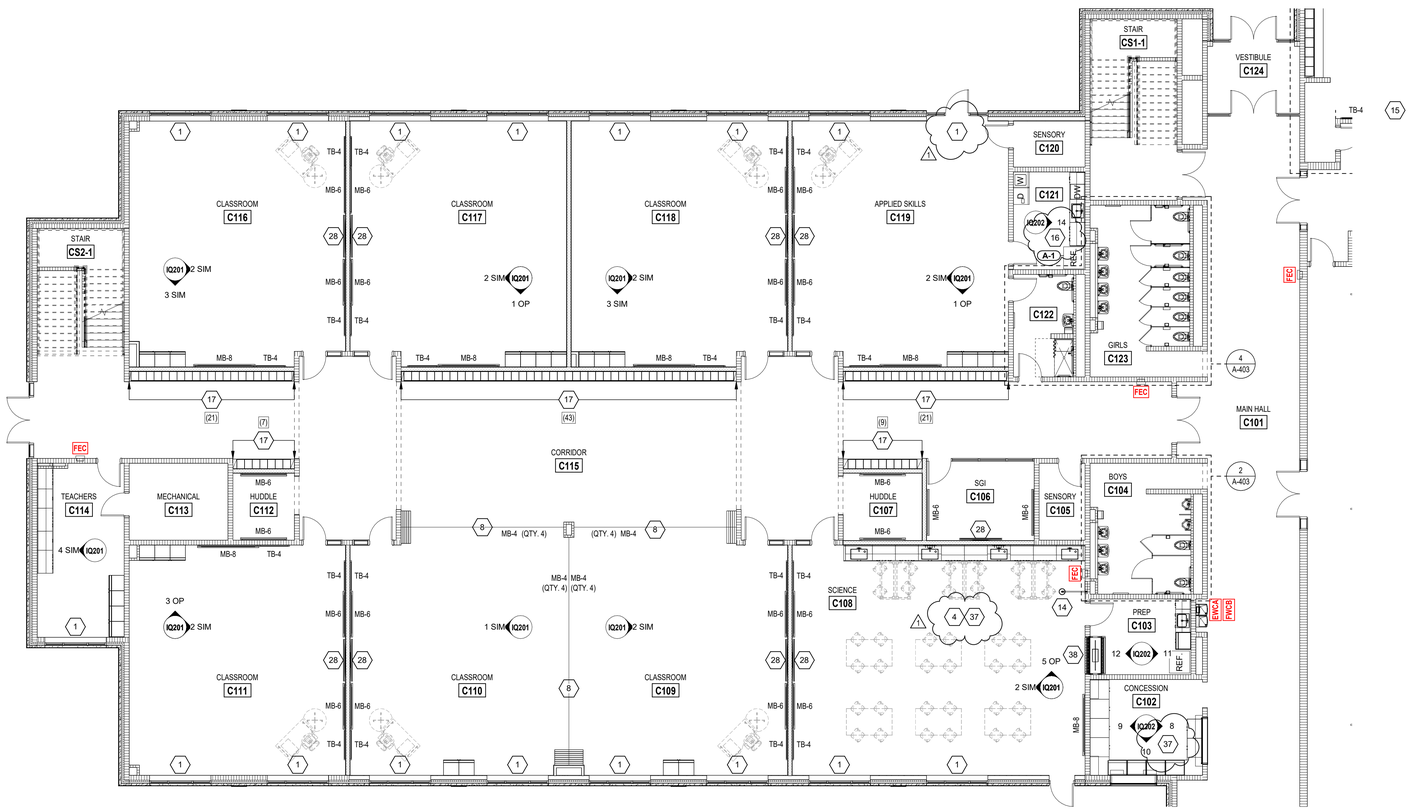
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT B

IQ11B

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1 FIRST FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
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24. SCORING TABLE. BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
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31. ELECTRICAL KILN
    SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

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    A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
    B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
    C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
    H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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

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

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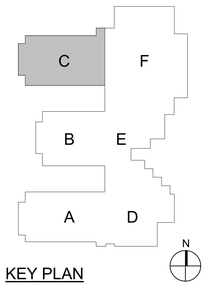
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PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

(317) 848-0966 WWW.FHAI.COM
350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

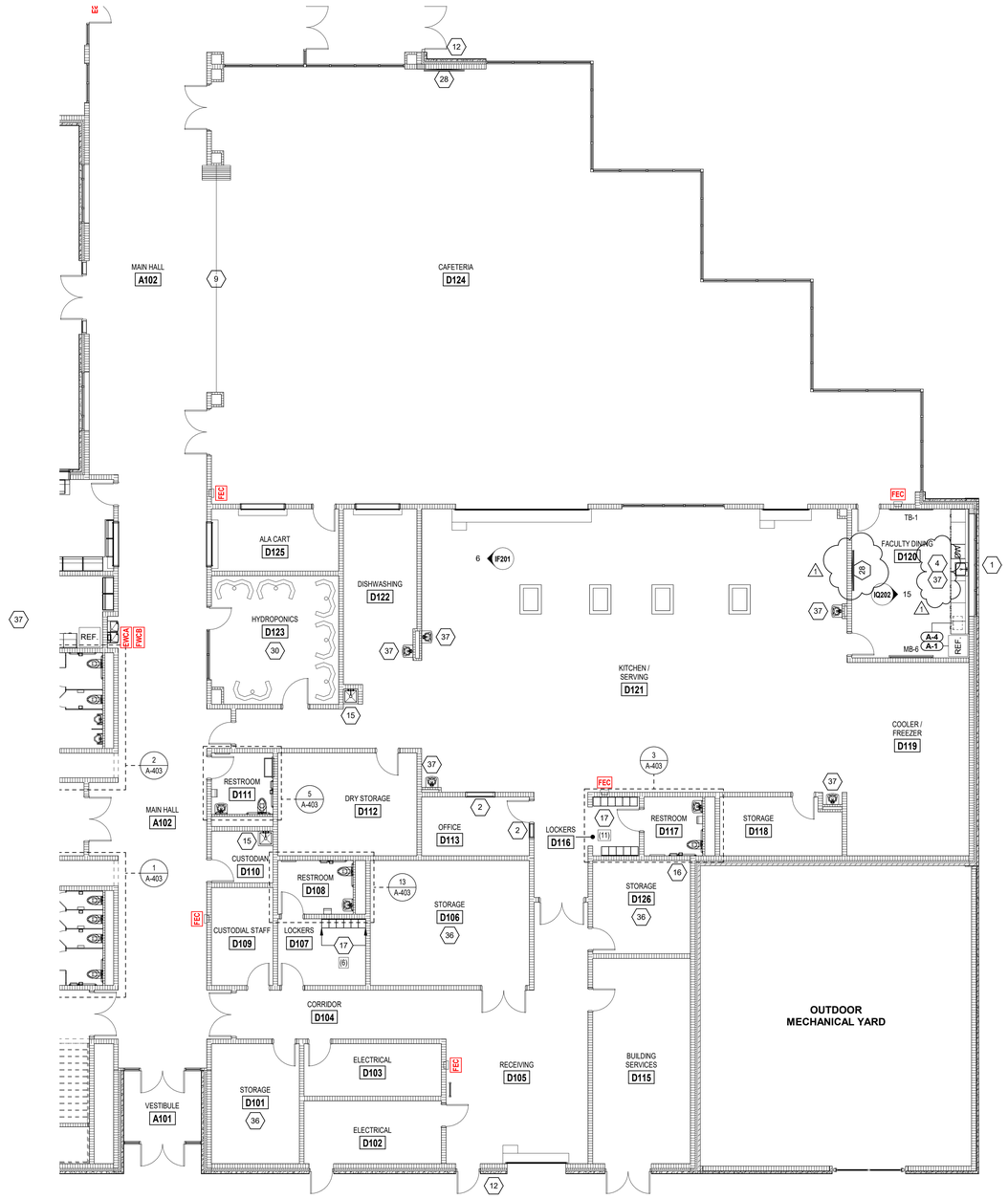
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT C

IQ11C

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1 FIRST FLOOR EQUIPMENT PLAN - UNIT D

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMIEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE. BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES. SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC.
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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

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

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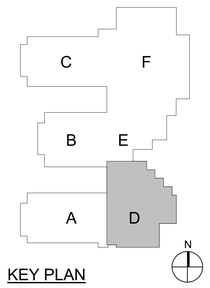
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ARCHITECT

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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

PAUL A. MILLER REGISTERED No. AR10900161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

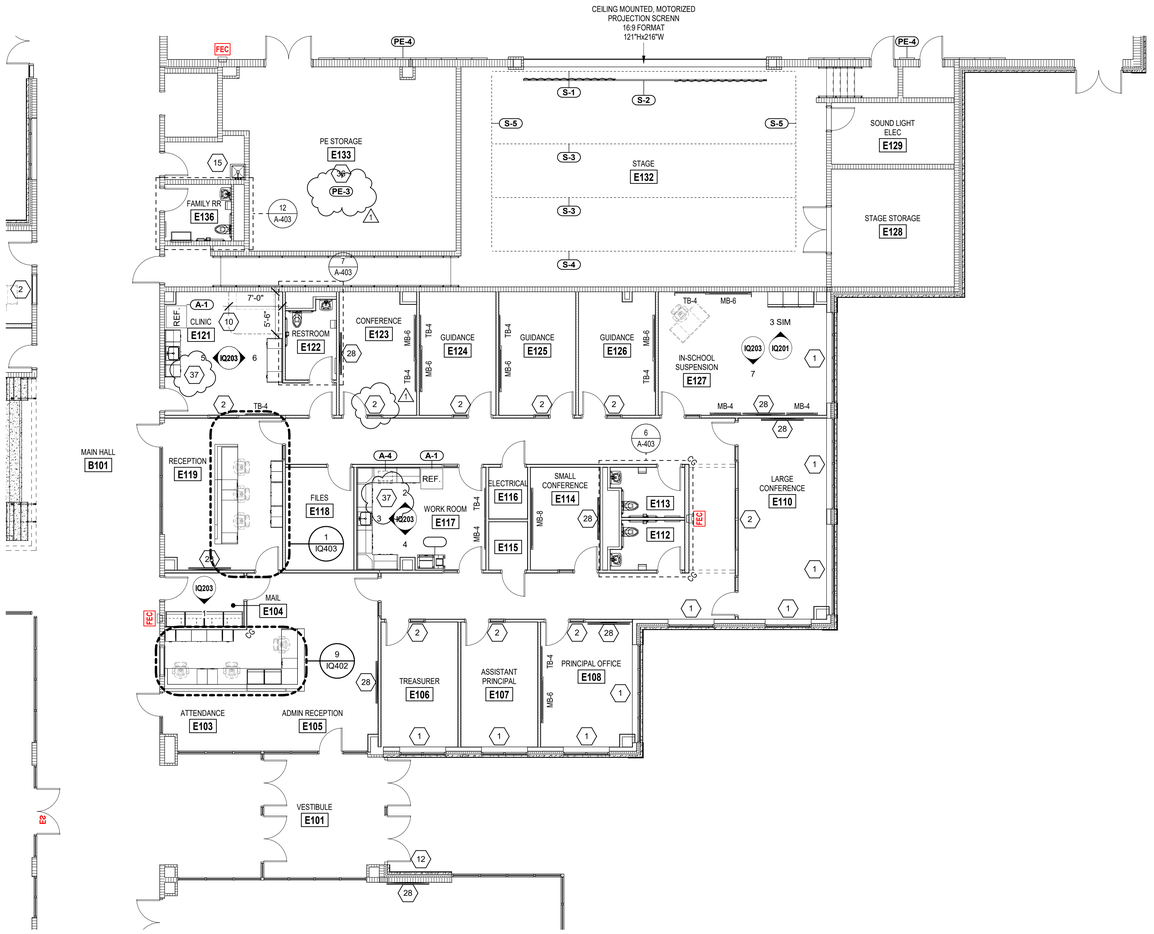
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT D

IQ11D

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1 FIRST FLOOR EQUIPMENT PLAN - UNIT E

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

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12. KNOX BOX TO BE PROVIDED HERE.
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22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
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27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

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D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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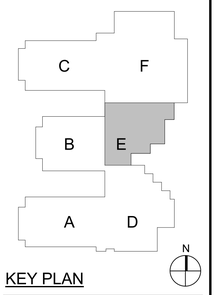
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KEY PLAN



PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

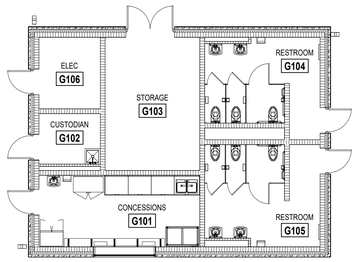
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT E

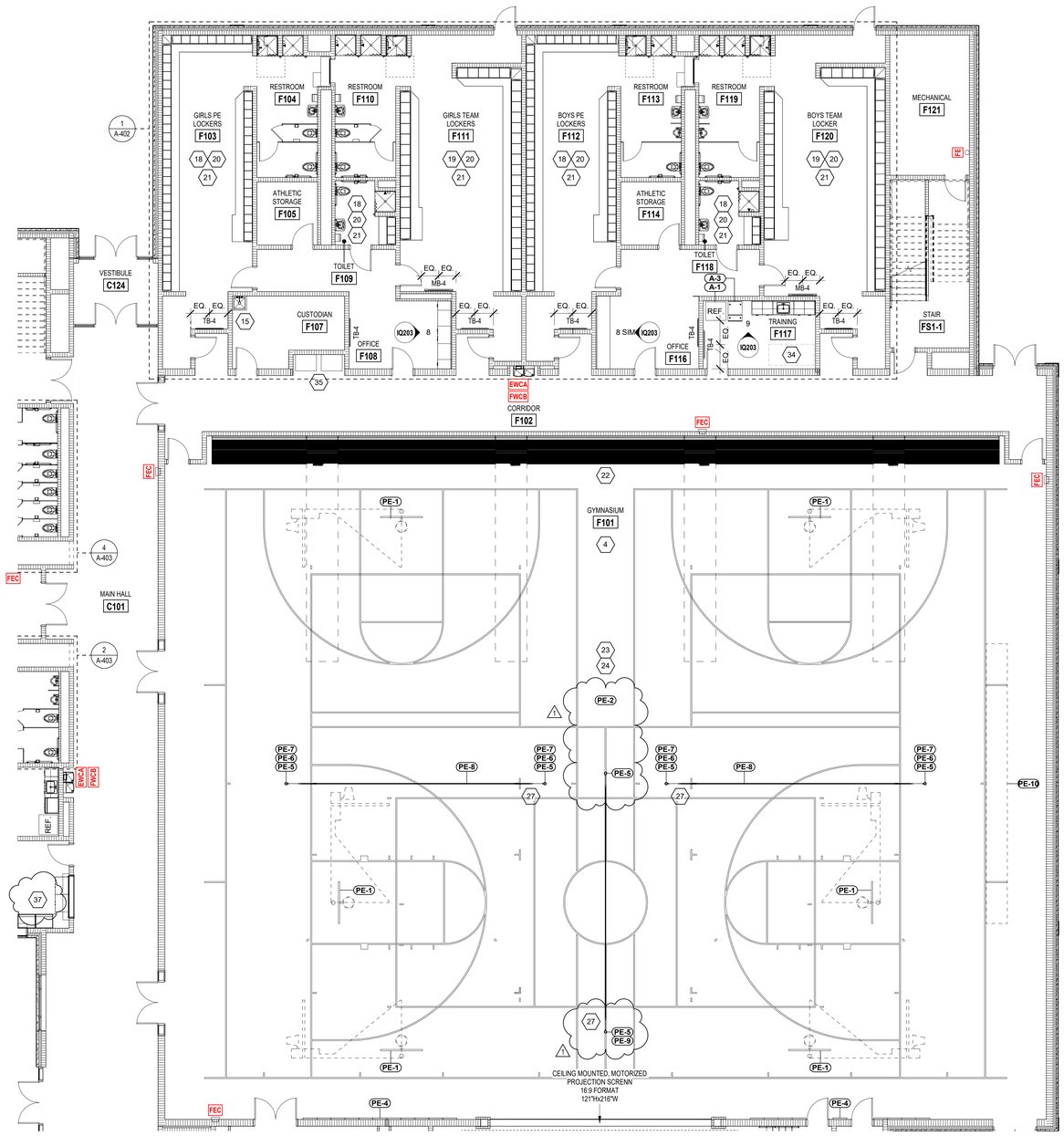
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2 FIRST FLOOR EQUIPMENT PLAN - UNIT H

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



1 FIRST FLOOR EQUIPMENT PLAN - UNIT F

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

EQUIPMENT GENERAL NOTES

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B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

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EQUIPMENT NOTES

(X)

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EQUIPMENT

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    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
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    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
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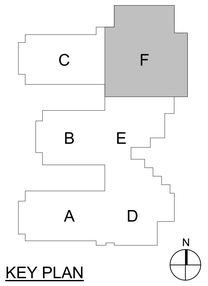
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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

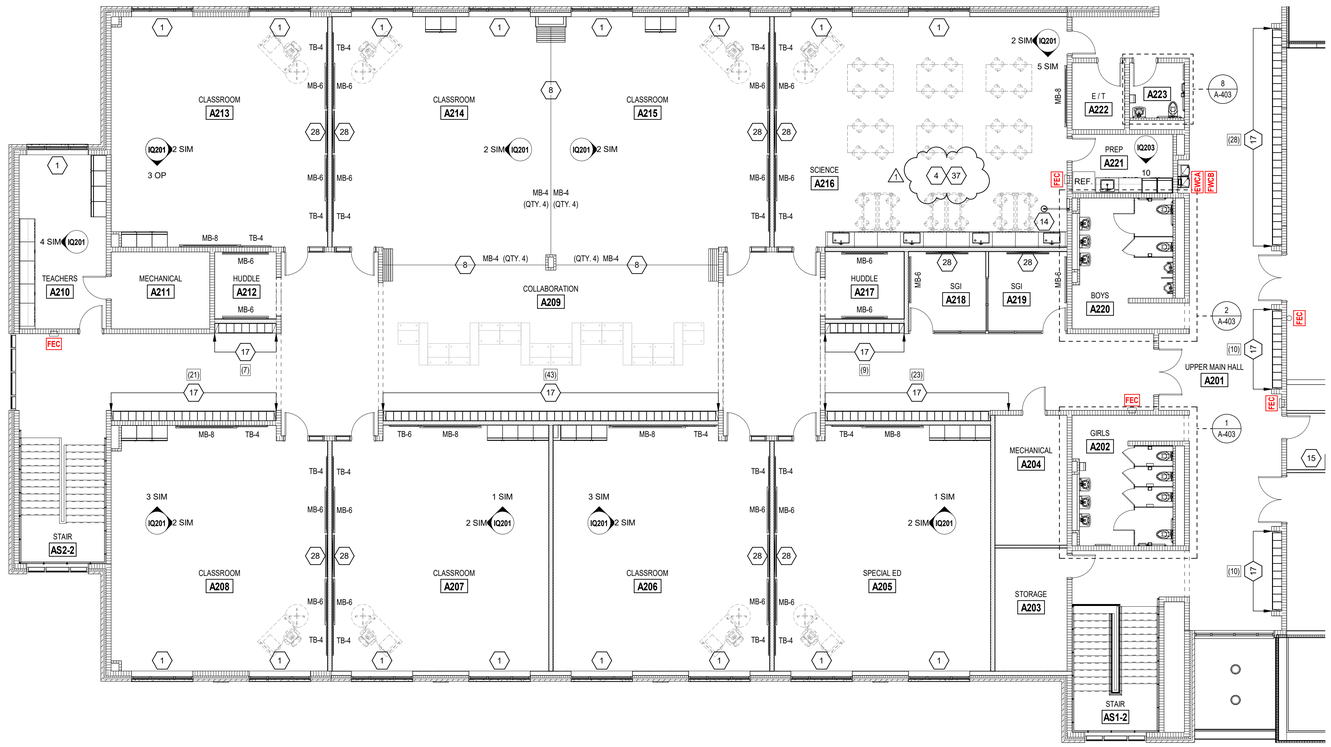
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT F

IQ11F

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1 SECOND FLOOR EQUIPMENT PLAN - UNIT A

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE, BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Avenue
Portage, IN 46368

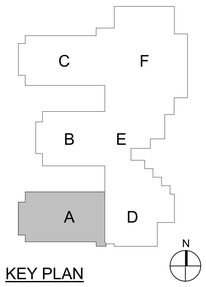
PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

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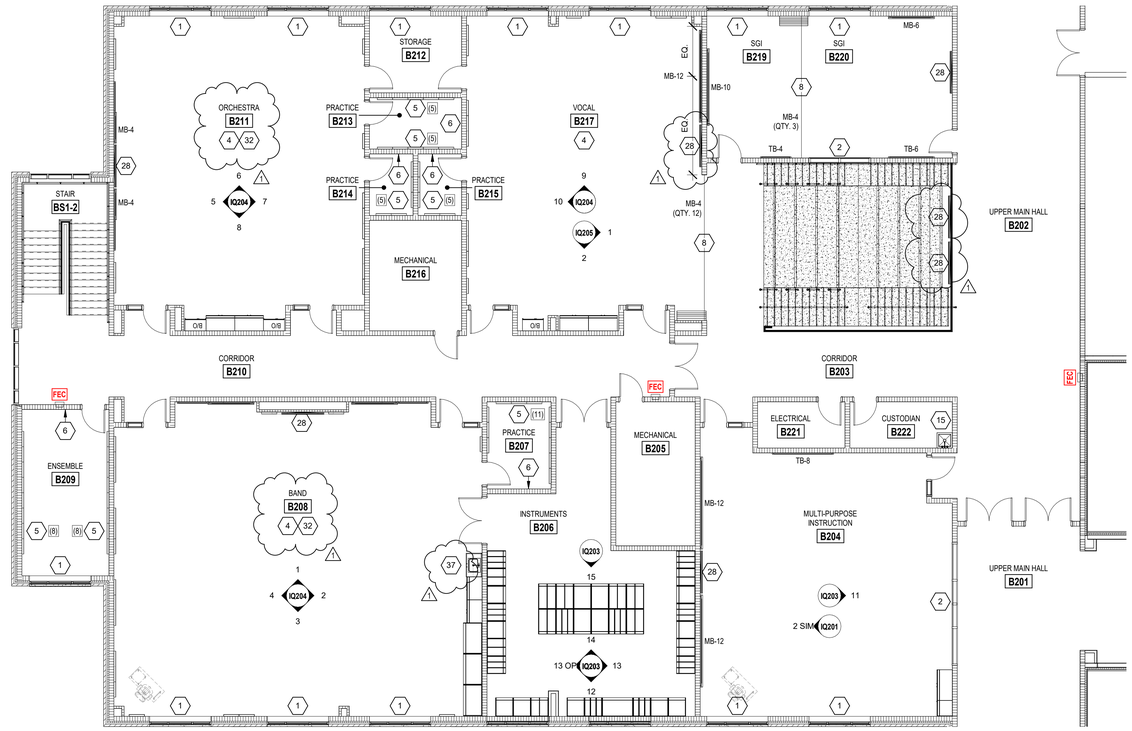
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SECOND FLOOR EQUIPMENT PLAN - UNIT A

IQ12A

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1 SECOND FLOOR EQUIPMENT PLAN - UNIT B

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

EQUIPMENT GENERAL NOTES

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D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

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K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

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1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
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EQUIPMENT

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    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
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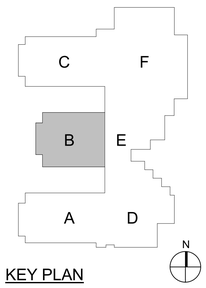
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KEY PLAN



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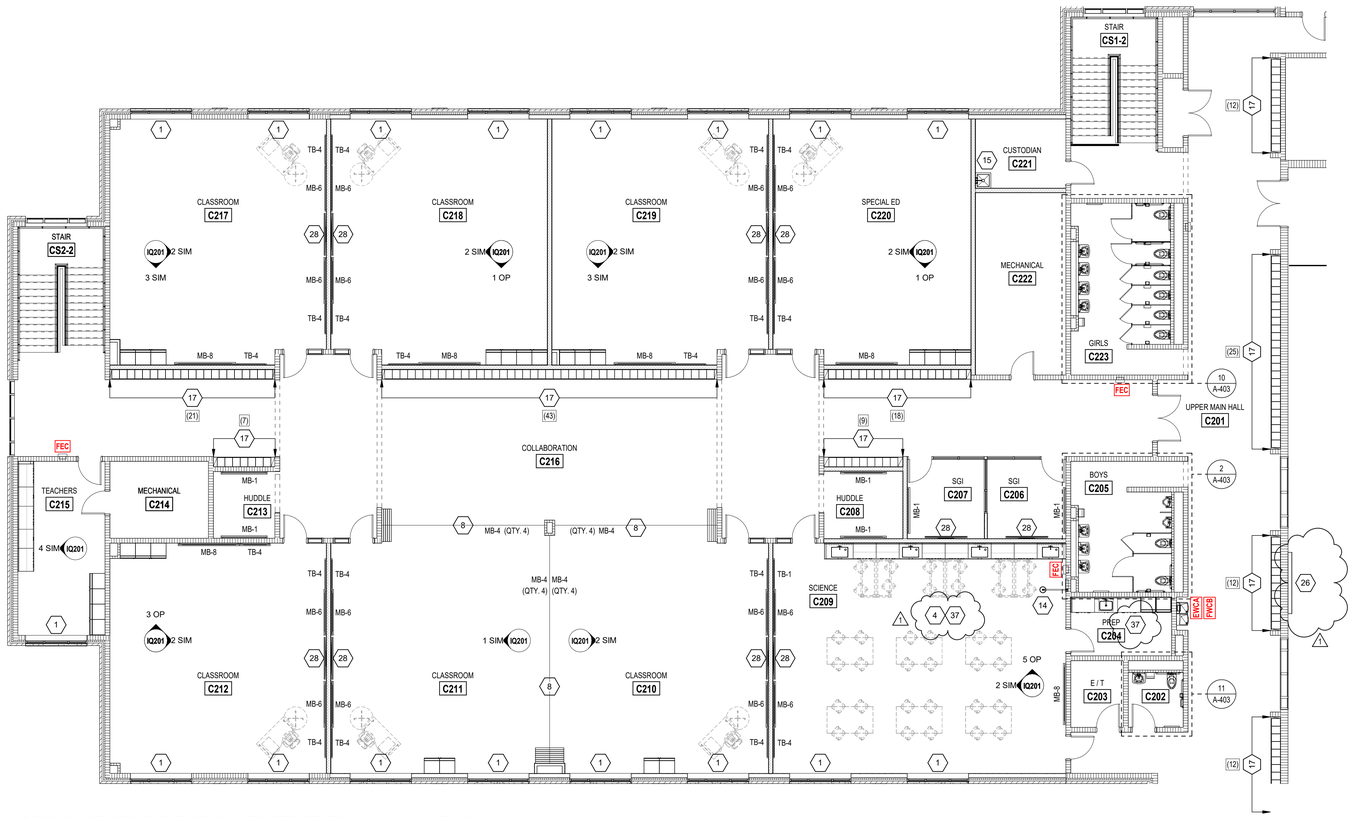
PROJECT ISSUE DATE: October 28, 2025

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1	Addendum #3	11/18/2025

SECOND FLOOR EQUIPMENT PLAN - UNIT B

IQ12B

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1 SECOND FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

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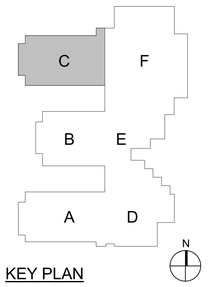
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350 East New York Street, Suite 300, Indianapolis, Indiana 46204



KEY PLAN

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

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

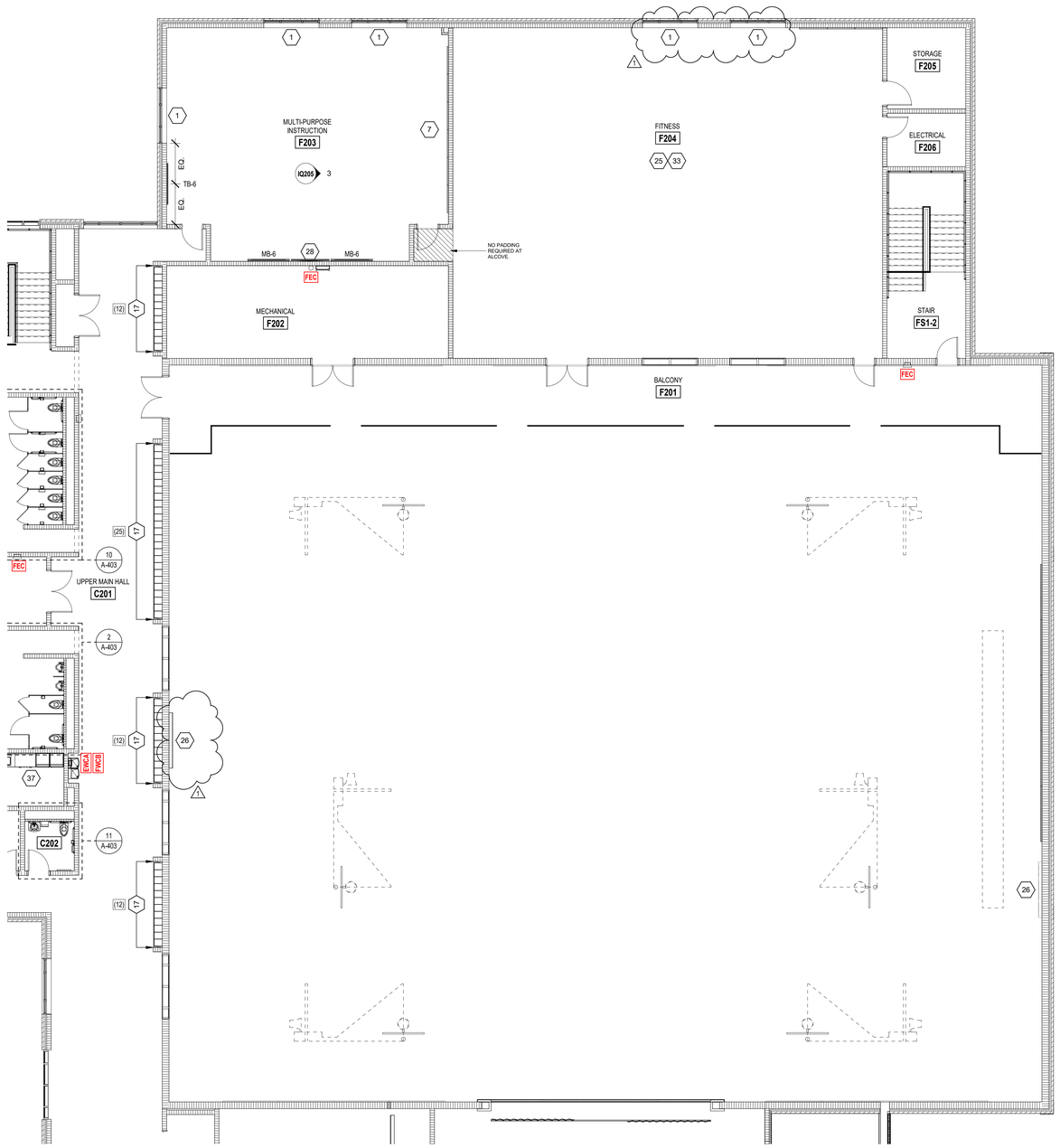
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

SECOND FLOOR EQUIPMENT PLAN - UNIT C

IQ12C

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1 SECOND FLOOR EQUIPMENT PLAN - UNIT F

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMIEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" D. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM, SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE. BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

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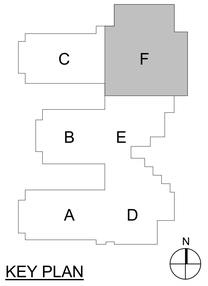
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KEY PLAN



PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

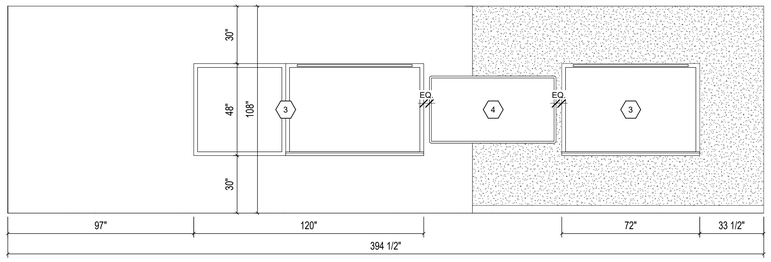
PROJECT ISSUE DATE: October 28, 2025

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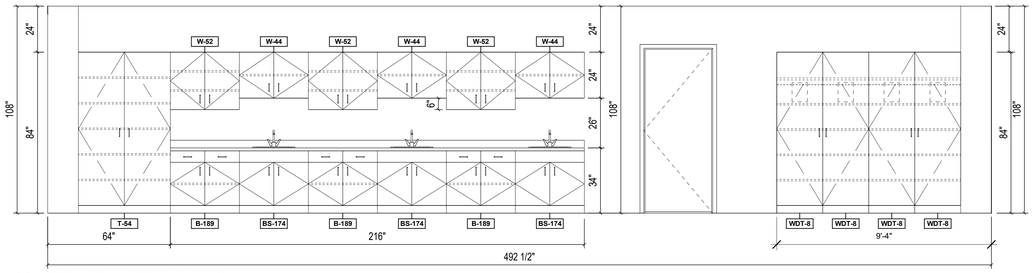
SECOND FLOOR EQUIPMENT PLAN - UNIT F

IQ12F

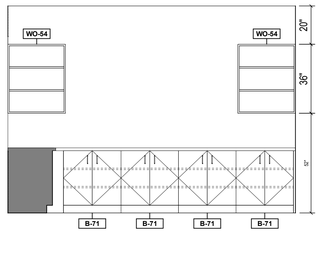
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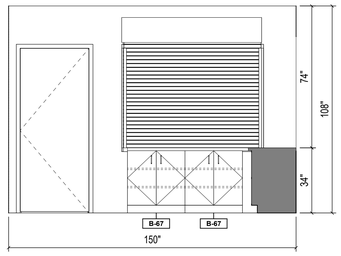
7 B119 ALTERNATIVE CLASSROOM - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



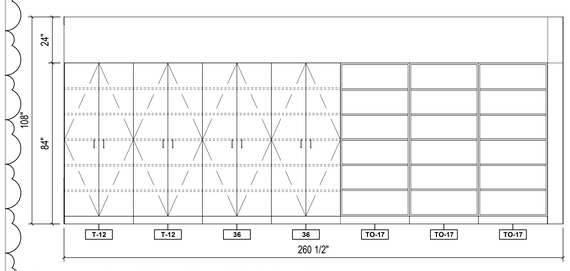
1 B107 ART - WEST ELEVATION
SCALE: 3/8" = 1'-0"



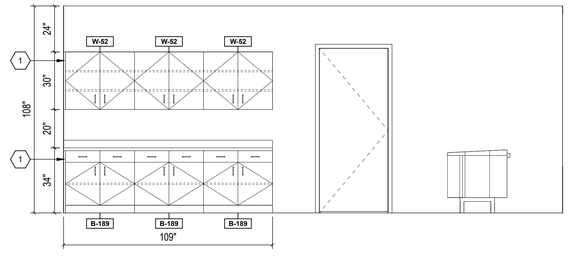
9 C102 CONCESSION - WEST ELEVATION
SCALE: 3/8" = 1'-0"



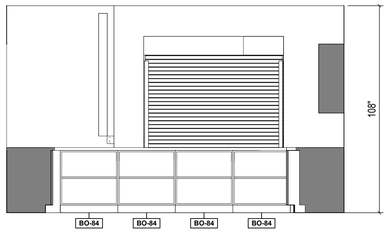
8 C102 CONCESSION - EAST ELEVATION
SCALE: 3/8" = 1'-0"



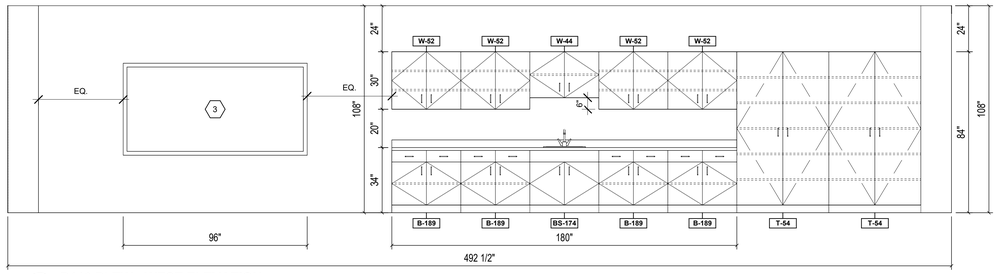
3 B108 KILN / STORAGE - WEST ELEVATION
SCALE: 3/8" = 1'-0"



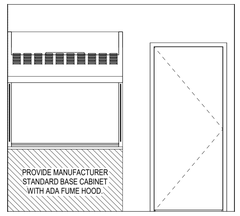
2 B108 KILN / STORAGE - EAST ELEVATION
SCALE: 3/8" = 1'-0"



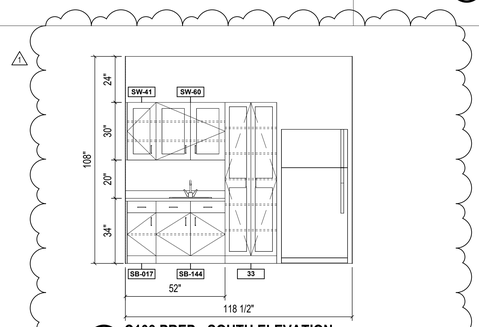
10 C102 CONCESSION - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



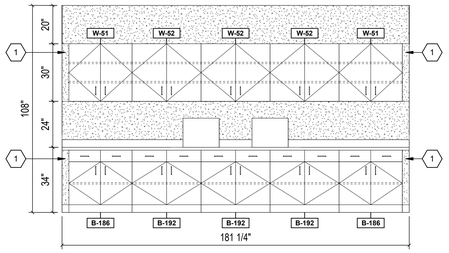
4 B110 PLTW - WEST ELEVATION
SCALE: 3/8" = 1'-0"



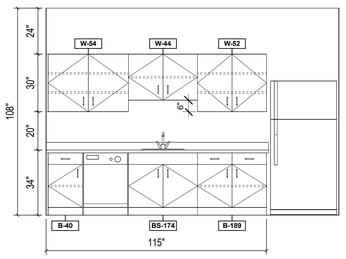
12 C103 PREP - WEST ELEVATION
SCALE: 3/8" = 1'-0"



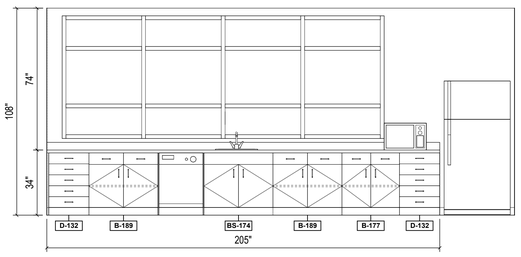
11 C103 PREP - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



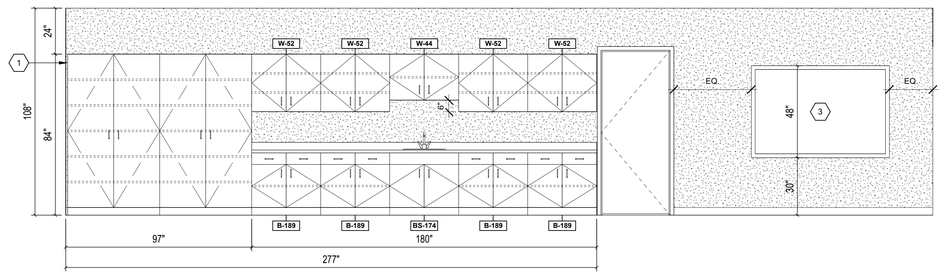
5 B113 CLEAN LAB - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



14 C121 KITCHENETTE - EAST ELEVATION
SCALE: 3/8" = 1'-0"



15 D120 FACULTY DINIG - EAST ELEVATION
SCALE: 3/8" = 1'-0"



6 B114 PLTW - EAST ELEVATION
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION NOTES
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. COMBINATION DISPLAY BOARD, SEE EQUIPMENT PLANS AND A-401 FOR DETAILS.

AWP-A	24"x24"	ABSORBATIVE
AWP-B	24"x48"x1"	ABSORBATIVE
AWP-C	24"x48"x2"	ABSORBATIVE
AWP-D	24"x48"x3"	ABSORBATIVE
AWP-E	24"x48" BARREL	REFELCTIVE

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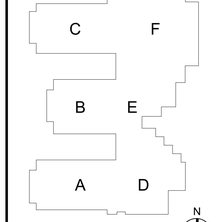
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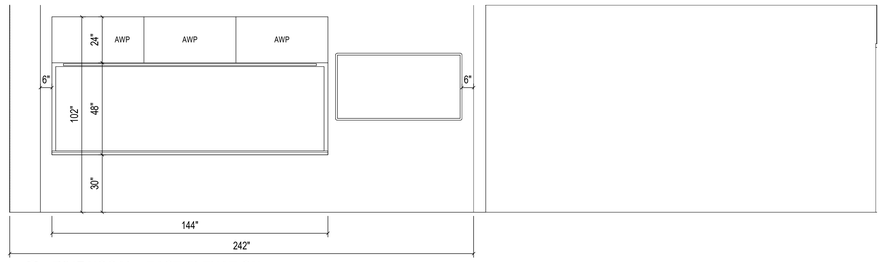
PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
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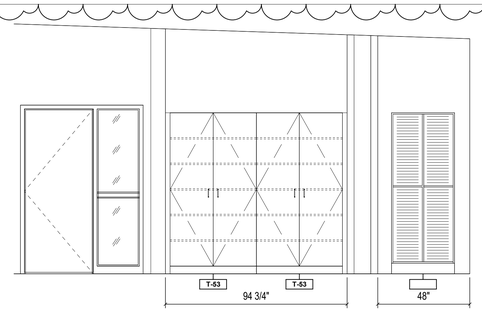
CASEWORK AND EQUIPMENT ELEVATIONS

IQ202

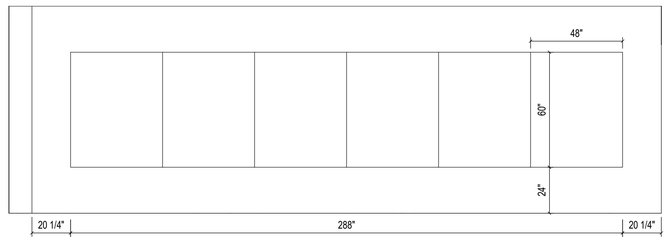
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1 B217 VOCAL - EAST ELEVATION
SCALE: 3/8" = 1'-0"



2 B217 VOCAL - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



3 F203 MULTI-PURPOSE INSRUCTION - EAST ELEVATION
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION NOTES

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2. PLASTIC LAMINATE END PANEL.
3. COMBINATION DISPLAY BOARD, SEE EQUIPMENT PLANS AND A-401 FOR DETAILS.

AWP-A	24"x24"	ABSORBATIVE
AWP-B	24"x48"x1"	ABSORBATIVE
AWP-C	24"x48"x2"	ABSORBATIVE
AWP-D	24"x48"x3"	ABSORBATIVE
AWP-E	24"x48" BARREL	REFELCTIVE

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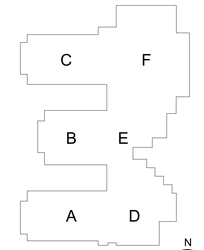
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KEY PLAN

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

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
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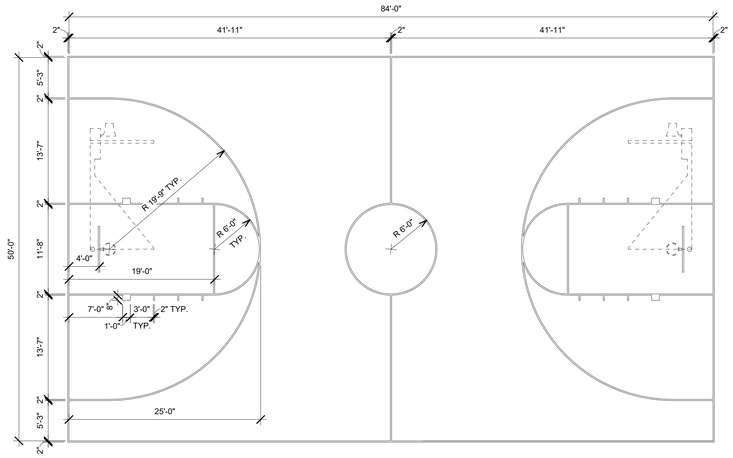
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CASEWORK AND EQUIPMENT ELEVATIONS

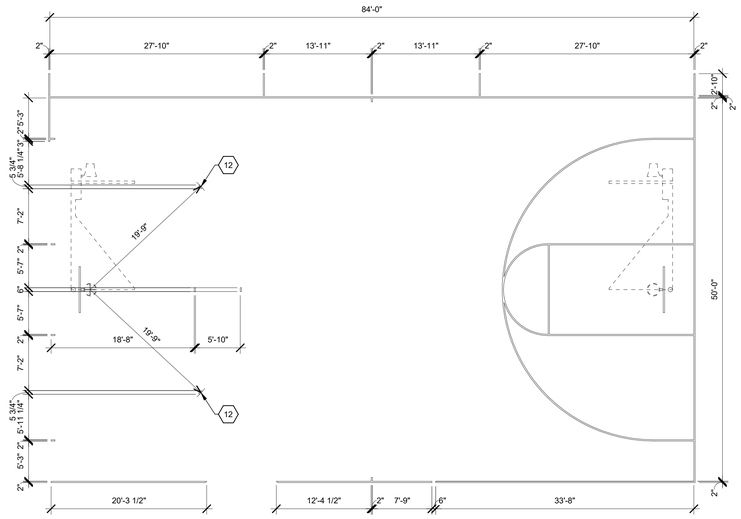
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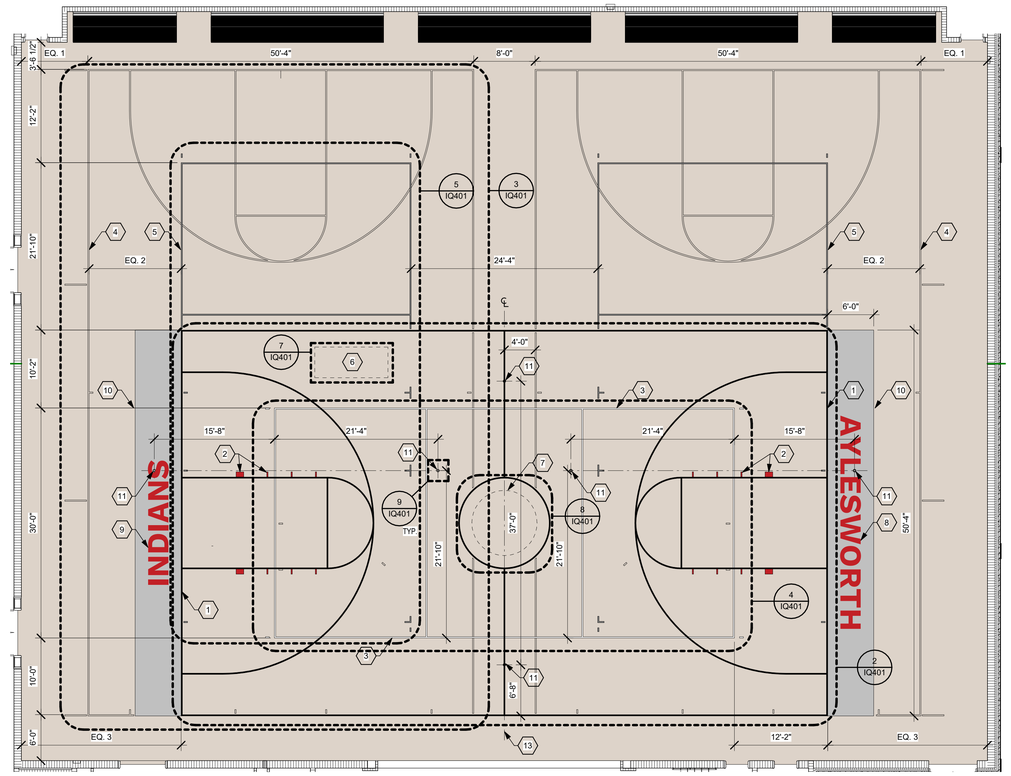
F101 GYMNASIUM - MAIN BASKETBALL COURT LINES

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



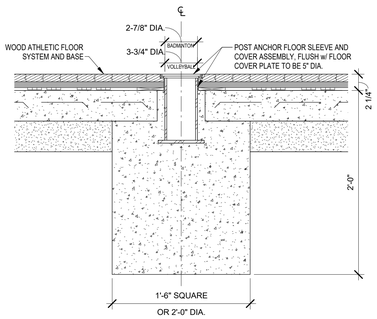
F101 GYMNASIUM - CROSS-COURT BASKETBALL COURT LINES

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



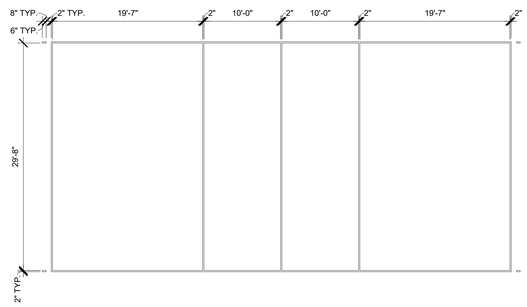
F101 GYMNASIUM

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



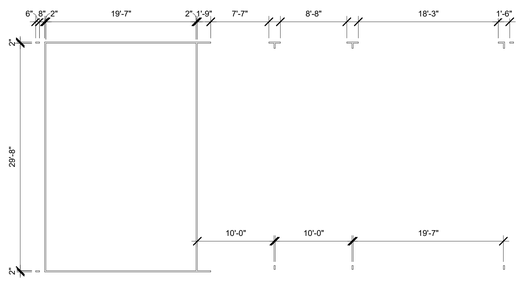
POST FLOOR SLEEVE

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



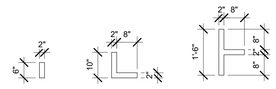
F101 GYMNASIUM - MAIN VOLLEYBALL COURT LINES

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



F101 GYMNASIUM - CROSS-COURT VOLLEYBALL COURT LINES

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



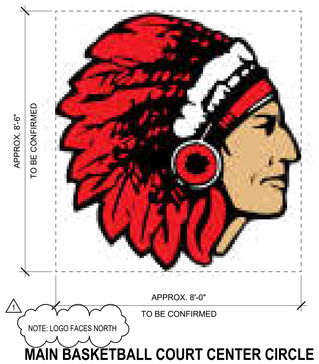
TYPICAL CROSS-COURT TICK MARK DIMENSIONS

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



MAIN BASKETBALL COURT LOGO

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



MAIN BASKETBALL COURT CENTER CIRCLE LOGO

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

GENERAL ENLARGED COURT PLAN NOTES

A. ALL COURT LINES MUST COMPLY WITH IHSAA/NFHS STANDARDS.
B. SCHOOL LOGOS TO BE PROVIDED BY OWNER DURING SHOP DRAWINGS. MINIMUM FOUR (4) COLORS IN LOGO.
C. TICK MARKS ON MAIN COURT AREA TO BE LOCATED AT INTERSECTIONS OF CROSS-COURT LINES AS SHOWN. REFER TO 3/IQ401 AND 5/IQ401.
D. REFER TO 6/IQ401 FOR TYPICAL CROSS-COURT TICK MARK DIMENSIONS.

ENLARGED COURT PLAN KEYNOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. MAIN BASKETBALL COURT LINES TO BE BLACK, STANDARD 2" WIDE. BLACK COLOR TO MATCH PORTAGE TOWNSHIP SCHOOLS (PTS) LOGO. REFER TO 2/IQ401
2. MAIN BASKETBALL COURT LANE POSITION MARKS TO BE RED. RED COLOR TO MATCH PTS LOGO. REFER TO 2/IQ401
3. MAIN VOLLEYBALL COURT LINES TO BE WHITE, STANDARD 2" WIDE. MAIN VOLLEYBALL COURT TO BE CENTERED ON MAIN BASKETBALL COURT. WHITE COLOR TO MATCH PTS LOGO. REFER TO 4/IQ401
4. CROSS-COURT BASKETBALL LINES TO BE TAN, STANDARD 2" WIDE. REFER TO 3/IQ401. CROSS-COURT BASKETBALL COURT ON EAST SIDE OF GYMNASIUM TO FOLLOW 3/IQ401 PLAN MIRRORED ACROSS CENTERLINE OF MAIN BASKETBALL COURT (KEYNOTE 13)
5. CROSS-COURT VOLLEYBALL LINES TO BE GRAY, STANDARD 2" WIDE. GRAY COLOR TO MATCH PTS LOGO. REFER TO 5/IQ401. CROSS-COURT VOLLEYBALL COURT ON EAST SIDE OF GYMNASIUM TO FOLLOW 5/IQ401 PLAN MIRRORED ACROSS CENTERLINE OF MAIN BASKETBALL COURT (KEYNOTE 13)
6. PAINTED SCHOOL LOGO. COLORS TO MATCH PTS LOGO COLORS. REFER TO 7/IQ401 FOR ADDITIONAL INFORMATION
7. PAINTED SCHOOL LOGO. COLORS TO MATCH PTS LOGO COLORS. REFER TO 8/IQ401 FOR ADDITIONAL INFORMATION
8. PAINTED TEXT "AYLESWORTH" IN ORIENTATION SHOWN ON PLAN
   A. FONT: WORK SANS, BOLD
   B. HEIGHT: 2'-6"
   C. COLOR: RED TO MATCH PTS LOGO
9. PAINTED TEXT "INDIANS" IN ORIENTATION SHOWN ON PLAN
   A. FONT: WORK SANS, BOLD
   B. HEIGHT: 2'-6"
   C. COLOR: RED TO MATCH PTS LOGO
10. GRAY PAINTED AREA AT END OF MAIN BASKETBALL COURT. GRAY COLOR TO MATCH PTS LOGO
11. VOLLEYBALL SLEEVE LOCATION - SEE DETAIL 9/IQ401
12. CROSS-COURT TICK MARK TO FOLLOW RADIUS OF THREE POINT LINE
13. MAIN BASKETBALL COURT CENTERLINE

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The New Wallace Aylesworth Middle School

5910 Central Avenue
Portage, IN 46368

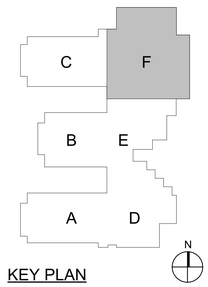
PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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KEY PLAN

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

PROJECT MANAGER: MKS
DRAWN BY: MNZ
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

VERIFICATION NOTE

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

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

ENLARGED COURT PLANS

IQ401

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ARCHITECTURAL/SITE ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

@	AT	M	METER
AC	AIR CONDITIONING	MAS	MASONRY
ACT	ACOUSTICAL CEILING TILE	MAT	MATERIAL
AD	AREA DRAIN	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFP	ACCORDION FOLDING PARTITION	MEZZ	MEZZANINE
AGG	AGGREGATE	MFR	MANUFACTURER
ALT	ALTERNATIVE	MH	MOP HOLDER
AL	ALUMINUM	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
APROX	APPROXIMATE	MM	MILLIMETER
AR	ACID RESISTANT	MO	MASONRY OPENING
ARCH	ARCHITECT(URAL)	MTL	METAL
ASPH	ASPHALT		
AV	AUDIO-VISUAL	N	NORTH
AWG	AMERICAN WIRE GUAGE	NIC	NOT IN CONTRACT
AWT	ACCOUSTICAL WALL TREATMENT	NO#	NUMBER
L	ANGLE	NOM	NOMINAL
&	AND	NTS	NOT TO SCALE
BIT	BITUMINOUS	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
BM	BENCH MARK / BEAM	OPP	OPPOSITE
B.O.	BOTTOM OF	O.H.	OPPOSITE HAND
BOS	BOTTOM OF STEEL	O TO O	OUT TO OUT
BOT	BOTTOM	OW	OPERABLE WALL
BRG	BEARING	OZ	OUNCE
BRK	BRICK		
BUR	BUILT-UP ROOF	P	PAINT
		PA	PUBLIC ADDRESS
CAB	CABINET	PERF	PERFORATED
CAR	CARPET	PLAS	PLASTIC
CAT	CATALOG	PL	PLASTIC LAMINATE
CB	CHALKBOARD / CATCH BASIN	PLBG	PLUMBING
CFM	CUBIC FEET PER MINUTE	PLYWD	PLYWOOD
CH	CABINET HEATER	PREFAB	PREFABRICATED
CI	CAST IRON	PS	PROJECTION SCREEN
CJ	CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	PSS	PENCIL SHARPENER SUPPORT
CLG	CEILING	PT	PORCELAIN TILA
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CMT	CERAMIC MOSAIC TILE	PVMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT	QT	QUARRY TILE
COL	COLUMN		
COMP	COMPACTED	R	RISER
CONC	CONCRETE	RA	RETURN AIR
CONSTR	CONSTRUCTION	RAD/R	RADIUS
CONT	CONTINUOUS/CONTINUE	RB	RESILIENT BASE
CONTR	CONTRACTOR	RCP	REINFORCED CONCRETE PIPE
CORR	CORRUGATED	RD	ROOF DRAIN
CT	CERAMIC TILE	REF	REFERENCE
C TO C	CENTER TO CENTER	REFR	REFRIGERATOR
CSK	COUNTER SINK	REINF	REINFORCING
CU FT/CF	CUBIC FEET	REQ'D	REQUIRED
CU IN/CI	CUBIC INCH	REV	REVISION(S)
CU YD/CY	CUBIC YARD	RM	ROOM
CUSP	CUSPIDOR	R.O.	ROUGH OPENING
CW	COLD WATER	ROW	RIGHT-OF-WAY
CWF	CEMENTITIOUS WOOD FIBER		
		S	SOUTH
d	PENNY (NAILS, ETC.)	SA	SUPPLY AIR
D	DEPTH/DEEP	SAN	SANITARY
°	DEGREE	SCHED	SCHEDULE
DC	DISPLAY CASE	SD	STORM DRAIN / SMOKE DETECTOR
DEPT	DEPT	SECT	SECTION
DET	DETAIL	SEW	SEWER
DF	DRINKING FOUNTAIN	SGFT	STRUCTURAL GLAZED FACING TILE
DIA/ Ø	DIAMETER	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DIV	DIVISION	SP	SPACE
DL	DEAD LOAD	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SPKR	SPEAKER
DS	DOWNSPOUT	SQ	SQUARE
DWC	DRINKING WATER COOLER	SQ FT/SF	SQUARE FEET
		SQ IN/SI	SQUARE INCHES
E	EAST	SQ YD/SY	SQUARE YARDS
EA	EACH	SS	STAINLESS STEEL
EF	EACH FACE	ST	STORM/STREET
EJ	EXPANSION JOINT	STD	STANDARD
EL	ELEVATION	STL	STEEL
ELEC	ELECTRIC(AL)	STRUCT	STRUCTURAL
ELEV	ELEVATOR	SUSP	SUSPENDED
ENGR	ENGINEER	SW	SHORT WAY / SIDEWALK
EP	ELECTRICAL PANELBOARD	SYMM	SYMMETRY(ICAL)
EQ	EQUAL	SYNTH	SYNTHETIC
EQUIP	EQUIPMENT		
EW	EACH WAY	T	TREAD
EFS (or DEFS)	DIRECT APPLIED EXTERIOR FINISH SYSTEM	T&B	TOP AND BOTTOM
EIFS	EXTERIOR INSULATION FINISH SYSTEM	T&G	TONGUE AND GROOVE
EXH	EXHAUST	TA	TOILET ACCESSORY(IES)
EXIST	EXISTING	TB	TACKBOARD
EXP	EXPANSION	TC	TOP OF CURB
EXT	EXTERIOR	TEL	TELEPHONE
EXTN	EXTENSION	TERR	TERRAZZO
		T.O	TOP OF
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET	TOF	TOP OF FOOTING
FIN	FINISH	TOM	TOP OF MASONRY
FIN FL	FINISH FLOOR	TOS	TOP OF STEEL
FLR	FLOOR	TV	TELEVISION
FDN	FOUNDATION	TYP	TYPICAL
FSR	FLEXIBLE SHEET ROOFING	TWS	TACKABLE WALL SURFACE
FSSK	FLOOR SERVICE SINK		
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	UV	UNIT VENTILATOR
FE	FIRE EXTINGUISHER	UR	URINAL
FEC	FIRE EXTINGUISHER CABINET		
		VCT	VINYL COMPOSITE TILE
GA	GAUGE	VCGWB	VINYL COVERED GYPSUM WALLBOARD
GALV	GALVANIZED(D)	VERT	VERTICAL
GB	GRAB BAR	VFWC	VINYL FABRIC WALLCOVERING
GFCMU	GROUND FACE CONCRETE MASONRY UNIT	VIF	VERIFY IN FIELD
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT	VIT	VITREOUS
GL	GLASS	VOL	VOLUME
GWB	GYPSUM WALLBOARD	VR	VAPOR RETARDER
		VRB	VENTED RESILIENT BASE
H	HEIGHT/HIGH	VS	VENT STACK
HB	HOSE BIB	VT	VINYL STACK
HDWE	HARDWARE		
HM	HOLLOW METAL	W	WEST / WIDE / WIDTH
HORIZ	HORIZONTAL	W/	WITH
HPT	HIGH POINT	W/O	WITHOUT
HS	HIGH STRENGTH	WA	WARDROBE ACCESSORIES
HTG	HEATING	WB	WOOD BASE
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WC	WATER CLOSET / WIND COLUMN
HW	HOT WATER	WD	WOOD
HWY	HIGHWAY	WH	WATER HEATER
		WP	WORKING POINT
ID	INSIDE DIAMETER	WSSK	WALL SERVICE SINK
IN	INCH	WWF	WELDED WIRE FABRIC
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION	YD	YARD / YARD DRAIN
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB#	POUND		
LKR	LOCKER		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LVR	LOUVER		
LW	LONG WAY		

MATERIAL SYMBOLS LEGEND

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- ASPHALT
- EARTH
- GRAVEL, STONE, OR DRAINAGE FILL
- SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK
- CONCRETE
- TERRAZZO
- CUT STONE
- MARBLE
- SLATE
- FACE BRICK (PLAN)
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- METAL ROOF DECK
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTICAL TILE CEILING
- EXTERIOR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- CALLOUT (SIM; 1A / A-400)
- EQUIPMENT TAG (1t)
- CEILING TAG (X1)
- KEY NOTE TAG (?)
- DOOR TAG (XXXX)
- EXTERIOR ELEVATION (X / AX.XX / X / X Ref)
- INTERIOR ELEVATION (X Ref / AX.XX / X Ref / X Ref)
- GRID HEAD (X)
- LEVEL LINE (Name / EL XXX'-XX")
- REVISION TAG (1)
- ROOF TYPE TAG (A)
- BUILDING/WALL SECTION (SIM; 1A / A-300)
- DETAIL SECTION (SIM; 1A / A-300)
- ROOF SLOPE TAG (SLOPE 1/12)
- MATCHLINE VIEW REFERENCE (X / X### ; X / X###)
- WALL TAG (W##X)
- STOREFRONT TAG (11)
- WINDOW TAG (XX)
- ROOM TAG (101)
- EXISTING CONTOUR (811)
- NEW CONTOUR (811)
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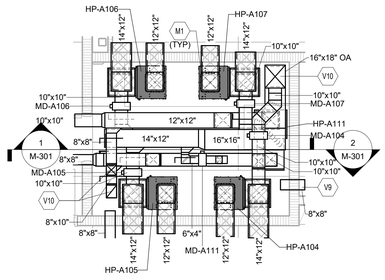
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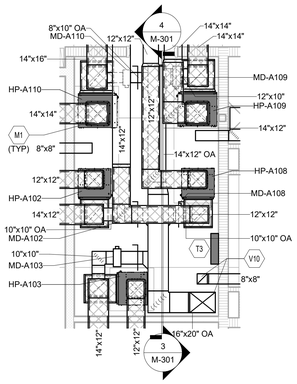
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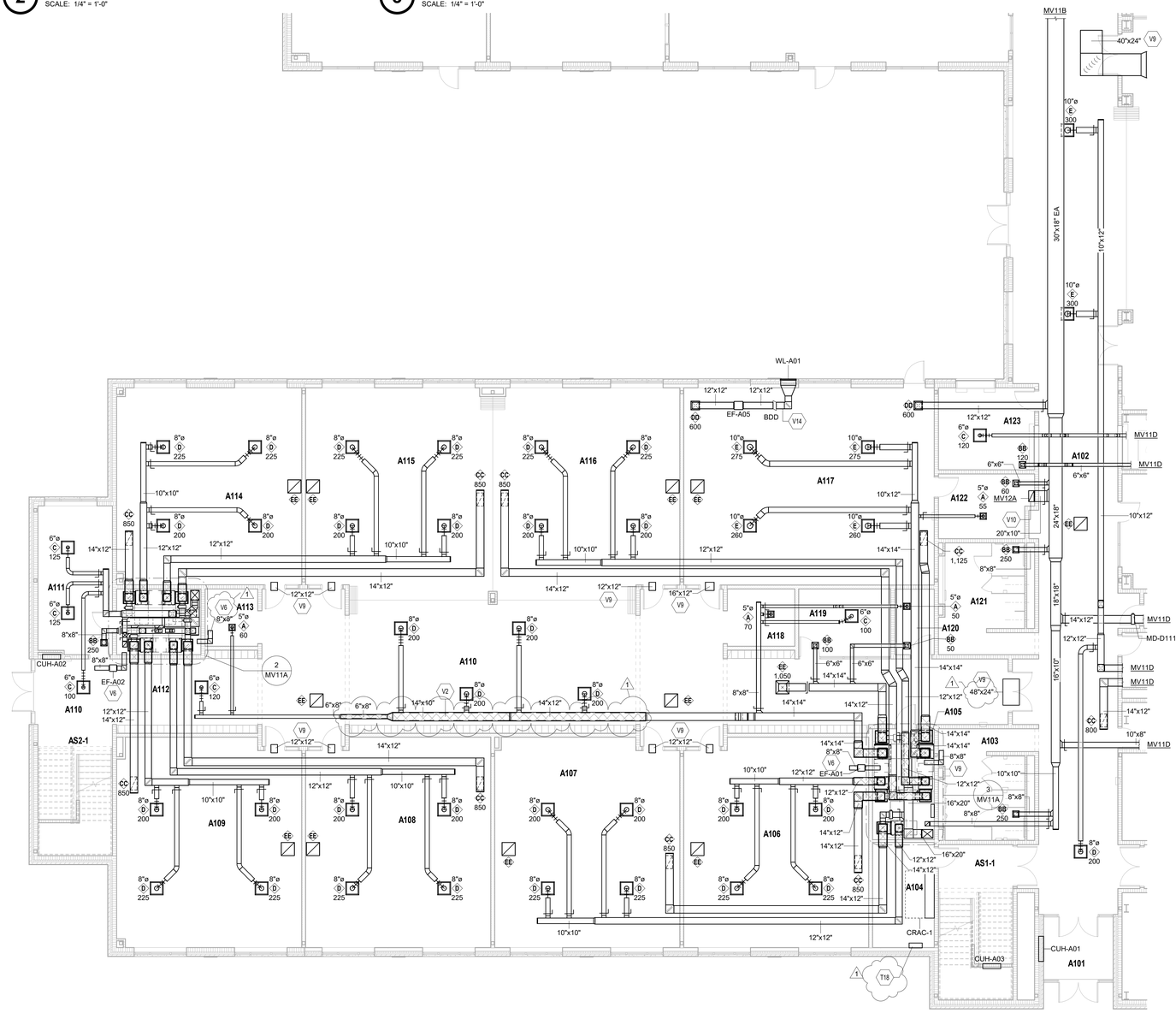
2 1ST FLR ENLARGED VENTILATION PLAN - A112

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



3 1ST FLR ENLARGED VENTILATION PLAN - A105

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



FIRST FLOOR VENTILATION PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1148 SF
A118	HUDDLE	90 SF
A119	SGI	147 SF
A120	SENSORY	60 SF

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF
B101	MAIN HALL	2209 SF
B103	MEDIA CENTER	1827 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
D101	STORAGE	196 SF
D104	CORRIDOR	191 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D121	KITCHEN / SERVING	2365 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
E102	CORRIDOR	213 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.

B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.

C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.

D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.

E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.

F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.

G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.

H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.

I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.

J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.

K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T18	PROVIDE BUILDING AUTOMATION SYSTEM PANEL IN THIS AREA.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

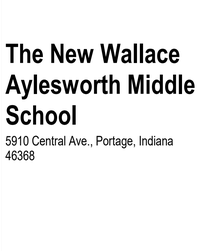
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

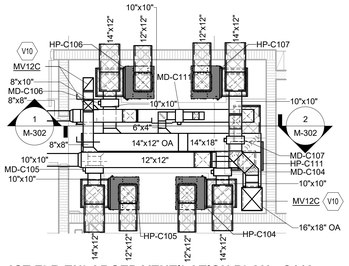
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

FIRST FLOOR VENTILATION PLAN - UNIT A

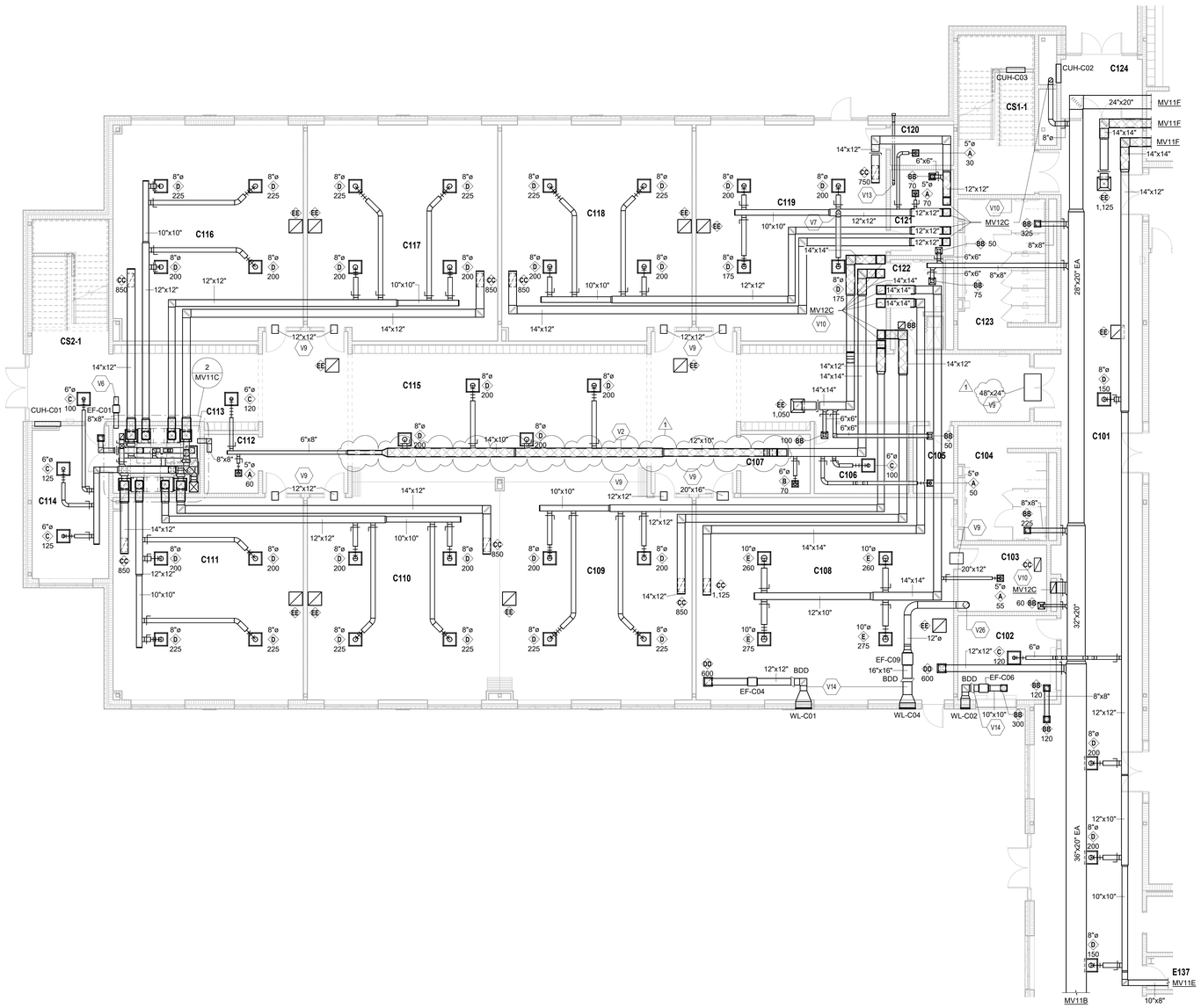
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2 1ST FLR ENLARGED VENTILATION PLAN - C113

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



FIRST FLOOR VENTILATION PLAN - UNIT C

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
CS2-1	STAIR	220 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V13	APPROXIMATE LOCATION OF WASHER/DRYER PROVIDED BY OWNER. 4" DIAMETER VENT ROUTED FROM DRYER LOCATION TO EXTERIOR WALL. TERMINATE DUCT WITH PREFABRICATED DRYER VENT WITH INTEGRAL DAMPER SIMILAR TO DryerWallVent BY INOVATE. CUSTOM COLOR TO BE SELECTED BY THE ARCHITECT. VENT ROUTED EXPOSED AGAINST THE WALL AND PAINTED TO MATCH ADJACENT WALL. SECURELY FASTEN TO THE WALL. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION ELBOW. (1) REFER TO DETAIL.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.
V26	APPROXIMATE LOCATION OF FUME HOOD. PAINT EXPOSED DUCTWORK TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. TRANSITION DUCTWORK AS REQUIRED FOR FINAL CONNECTION TO THE FUME HOOD. DUCTWORK TO BE PVC COATED FROM FUME HOOD TO TERMINATION.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

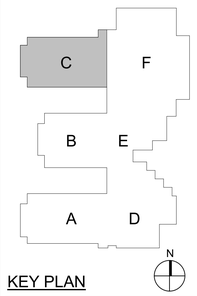
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ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

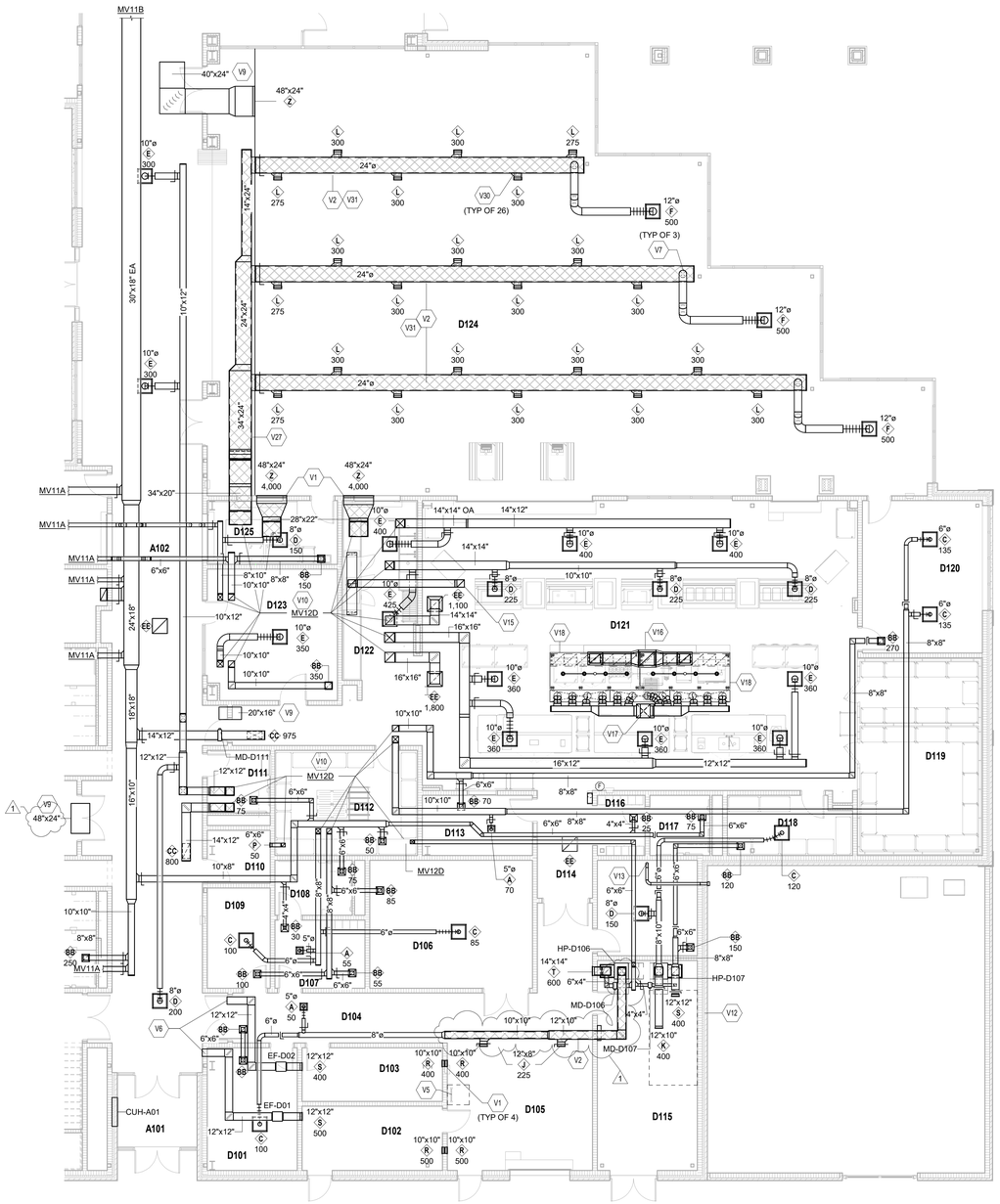
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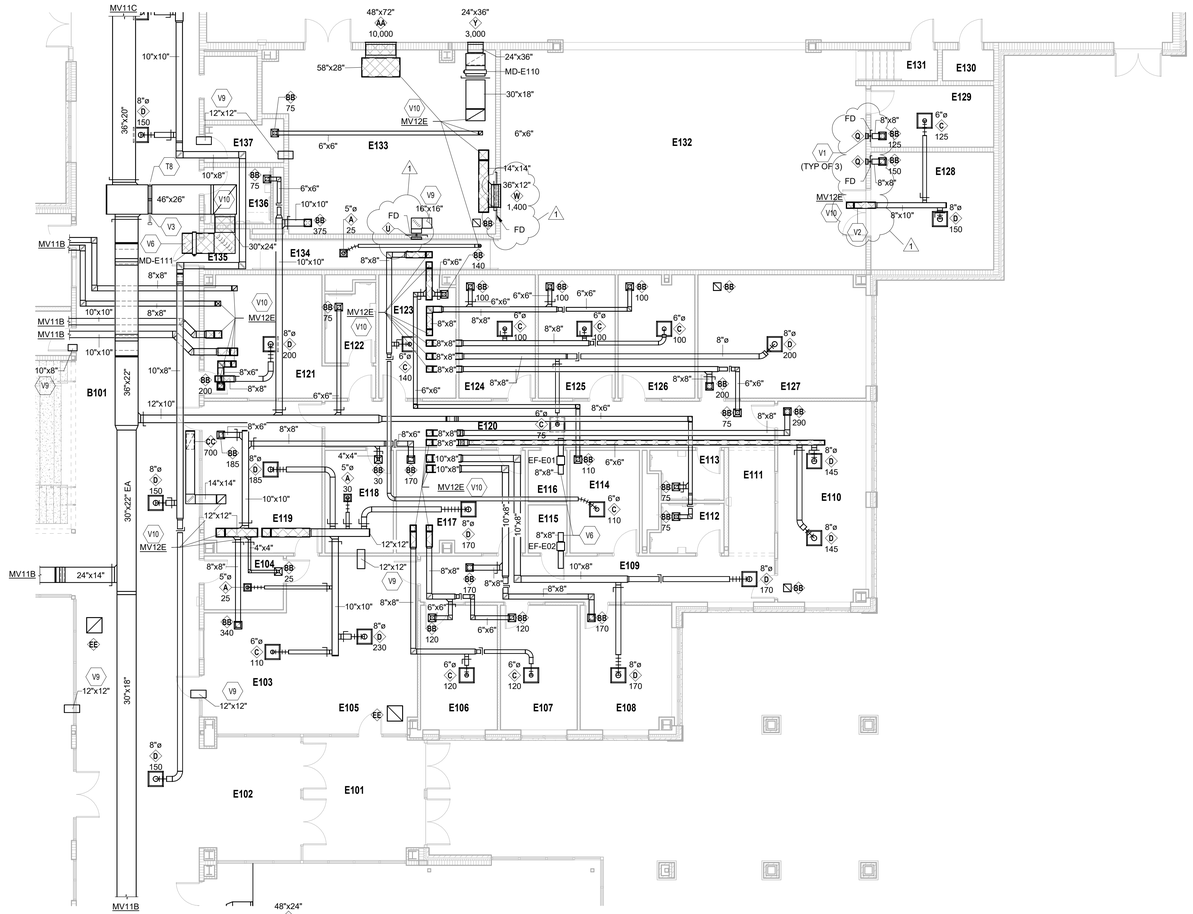
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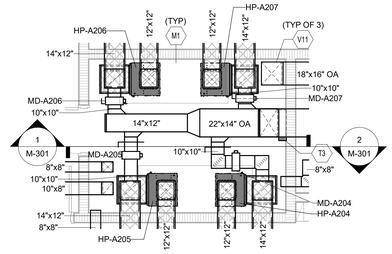
FIRST FLOOR VENTILATION PLAN - UNIT C

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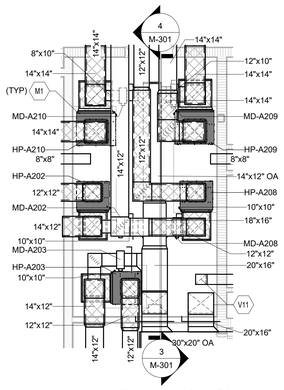

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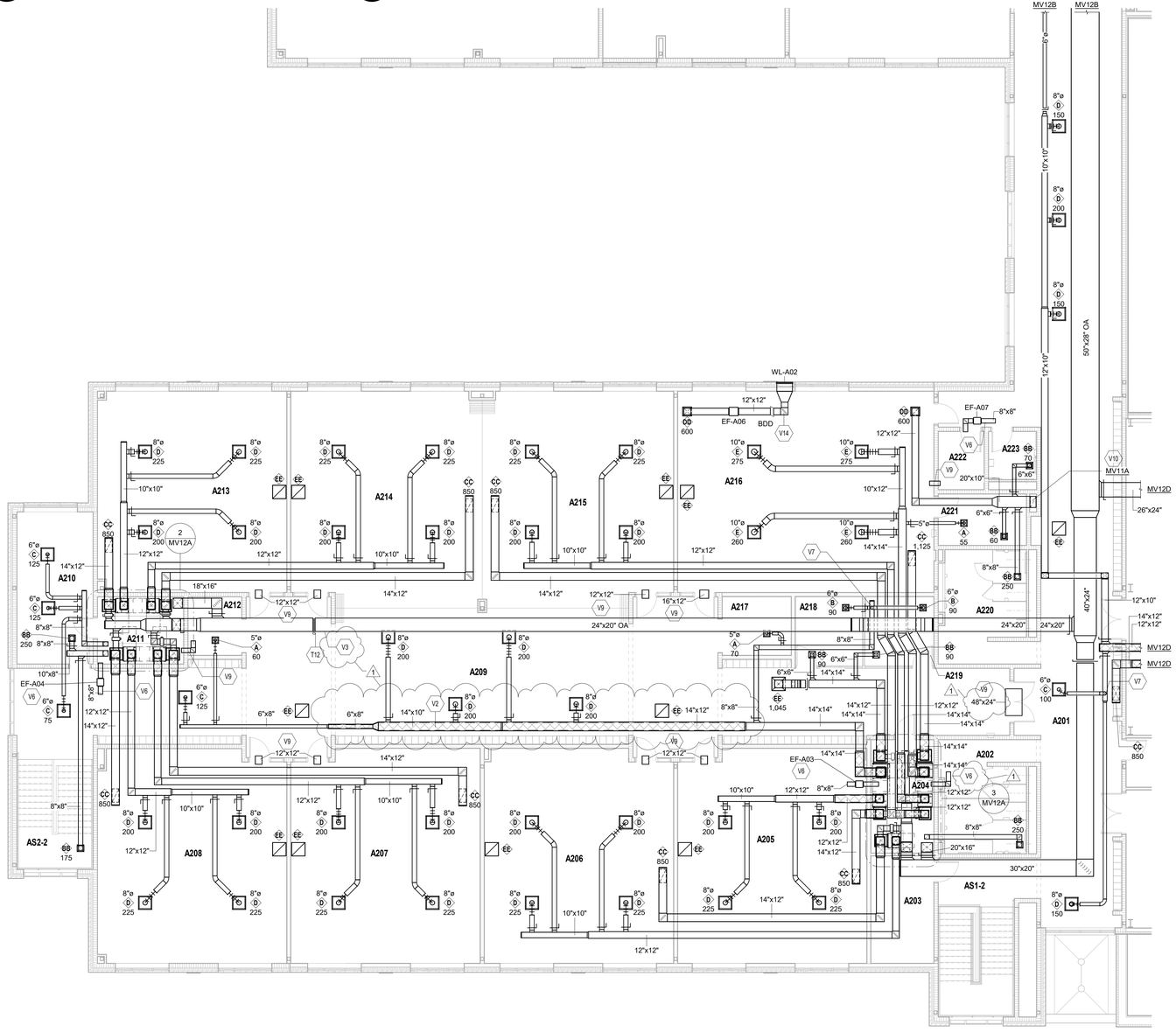
2 2ND FLR ENLARGED VENTILATION PLAN - A211

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



3 2ND FLR ENLARGED VENTILATION PLAN - A204

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



SECOND FLOOR VENTILATION PLAN - UNIT A

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	891 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2366 SF
A210	TEACHERS	258 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1147 SF
A217	HUDDLE	93 SF
A218	SGI	107 SF
A219	SGI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
AS2-2	STAIR	227 SF
B201	UPPER MAIN HALL	398 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B206	INSTRUMENTS	765 SF
B208	BAND	1902 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T12	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V3	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

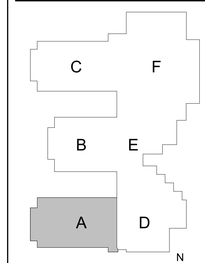
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

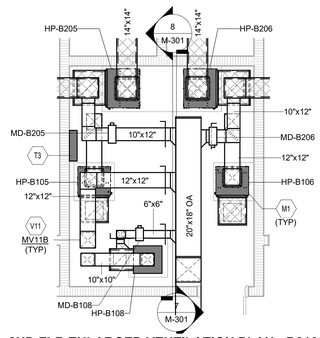
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR VENTILATION PLAN - UNIT A

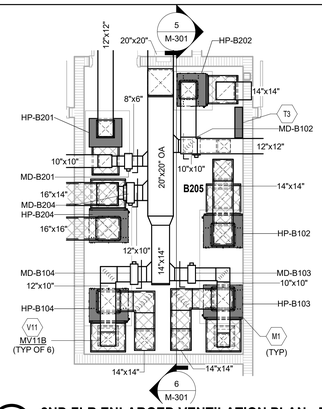
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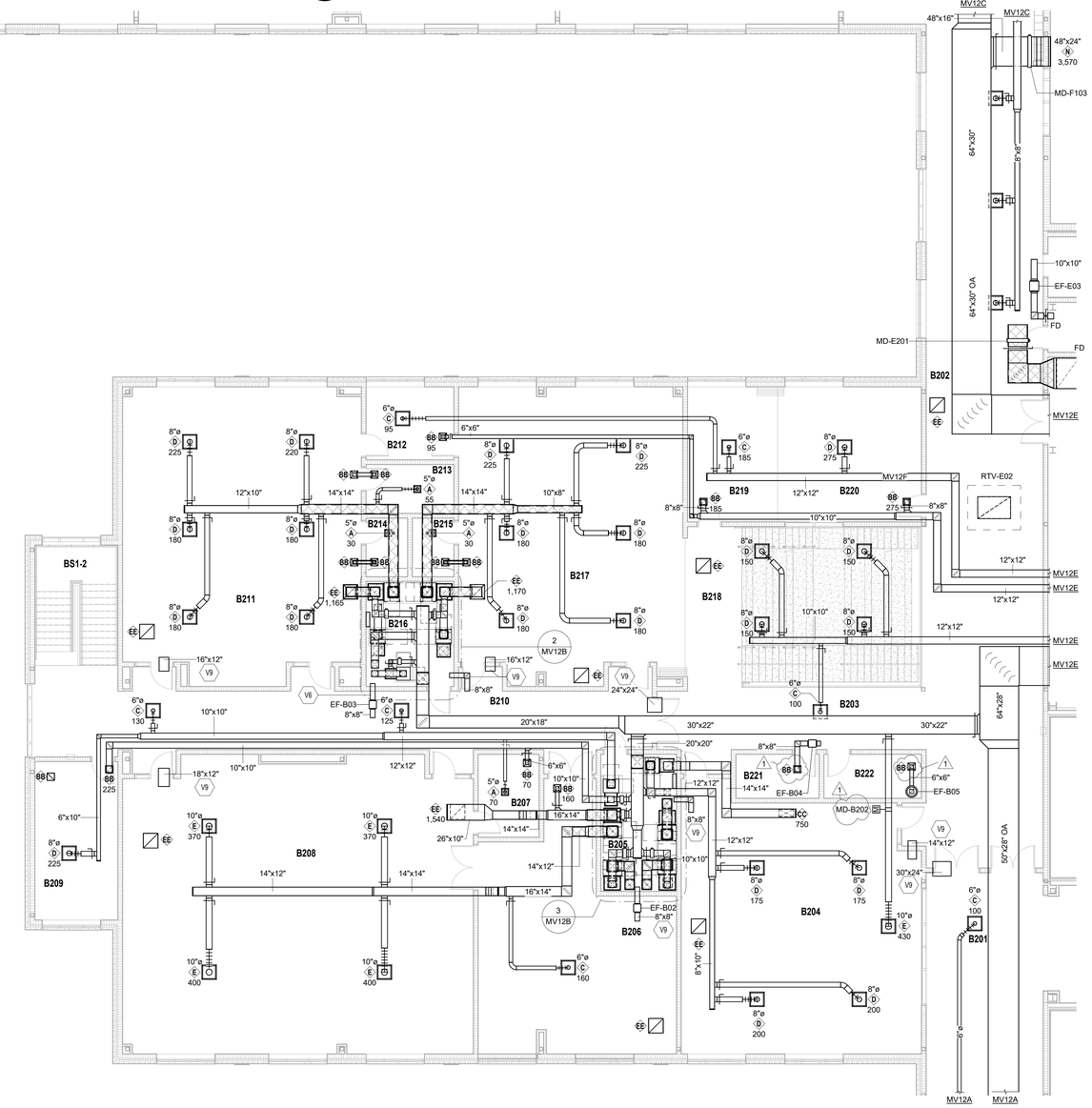
2 2ND FLR ENLARGED VENTILATION PLAN - B216

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



3 2ND FLR ENLARGED VENTILATION PLAN - B205

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



SECOND FLOOR VENTILATION PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
BS1-2	STAIR	216 SF
C201	UPPER MAIN HALL	1343 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

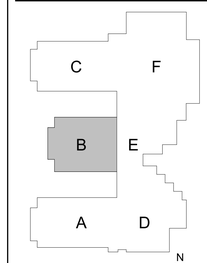
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

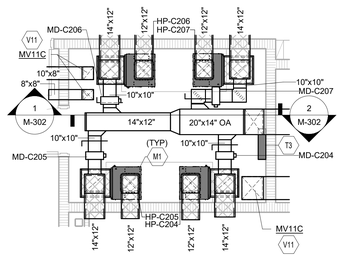
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR VENTILATION PLAN - UNIT B

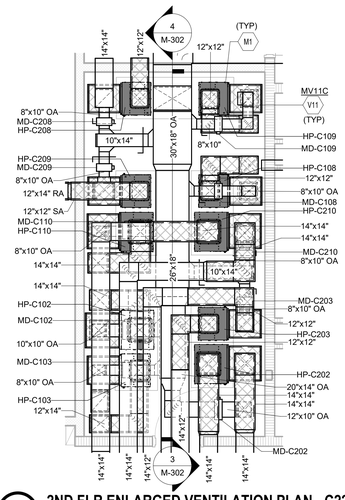
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2 2ND FLR ENLARGED VENTILATION PLAN - C214

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

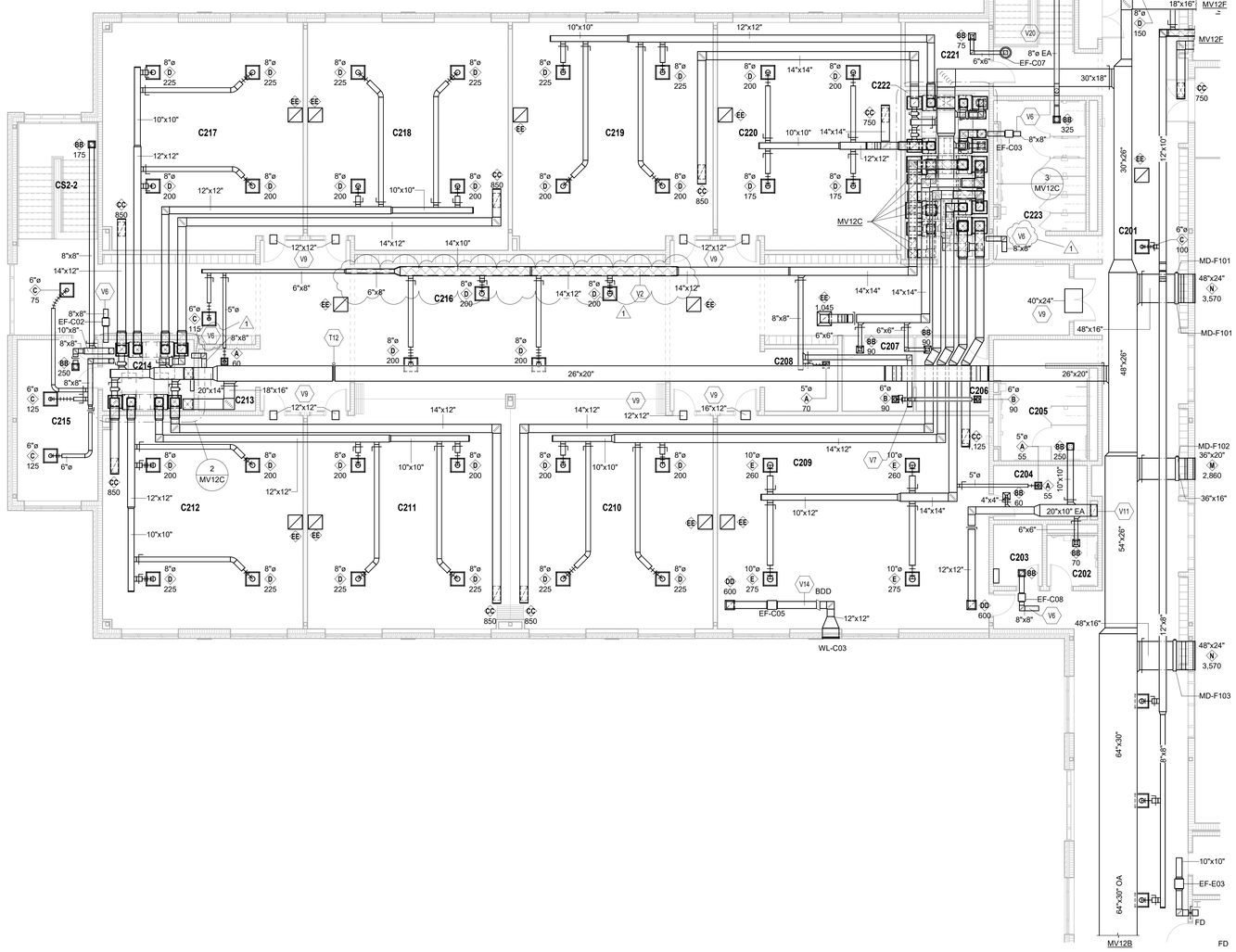


3 2ND FLR ENLARGED VENTILATION PLAN - C222

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF



SECOND FLOOR VENTILATION PLAN - UNIT C

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

B202

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T12	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.
V20	ROUTE DUCTWORK BETWEEN/THROUGH STRUCTURAL STEEL. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.

VERIFICATION NOTE

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

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

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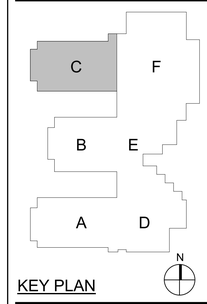
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

MARK Z. HOOF REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

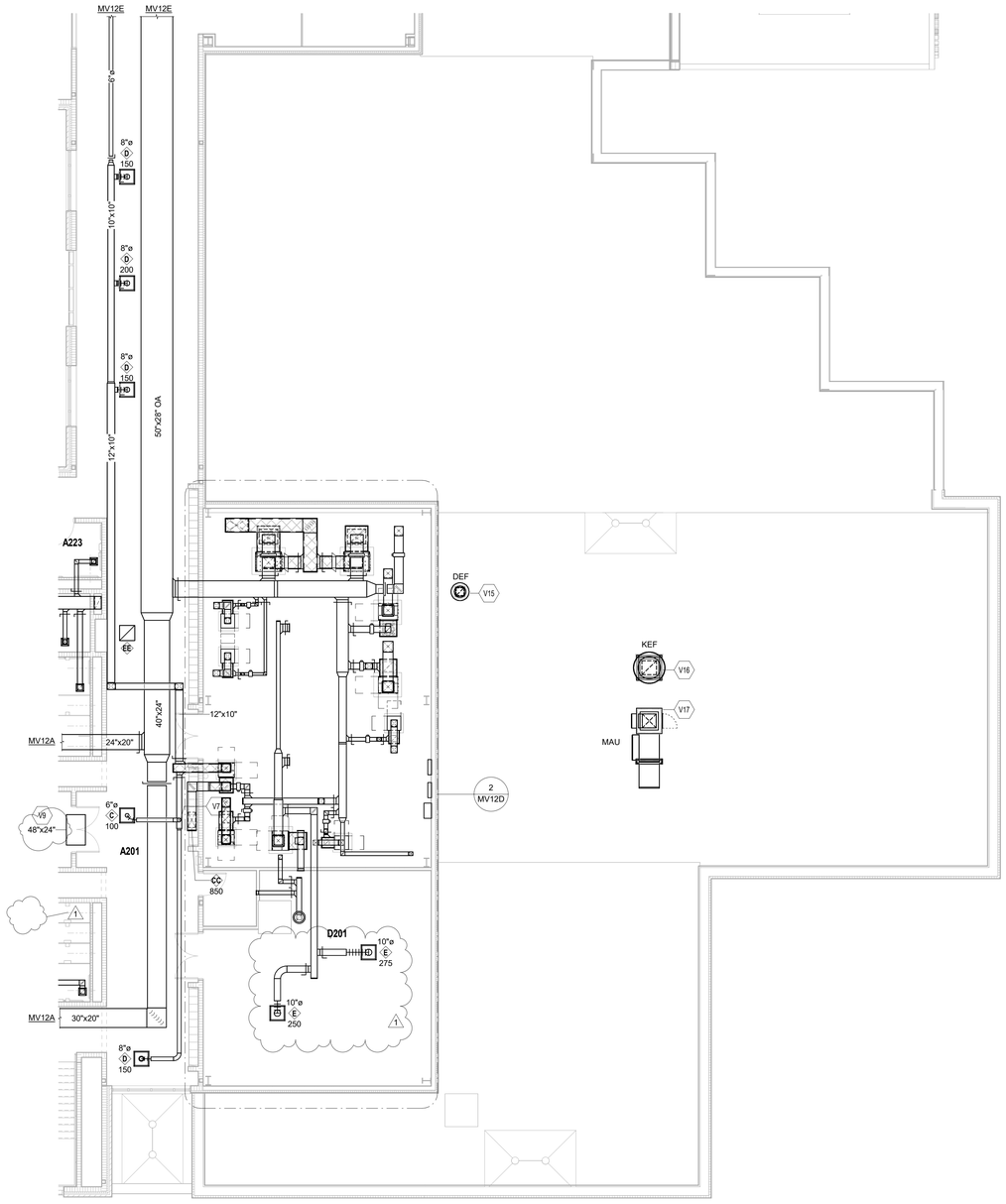
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR VENTILATION PLAN - UNIT C

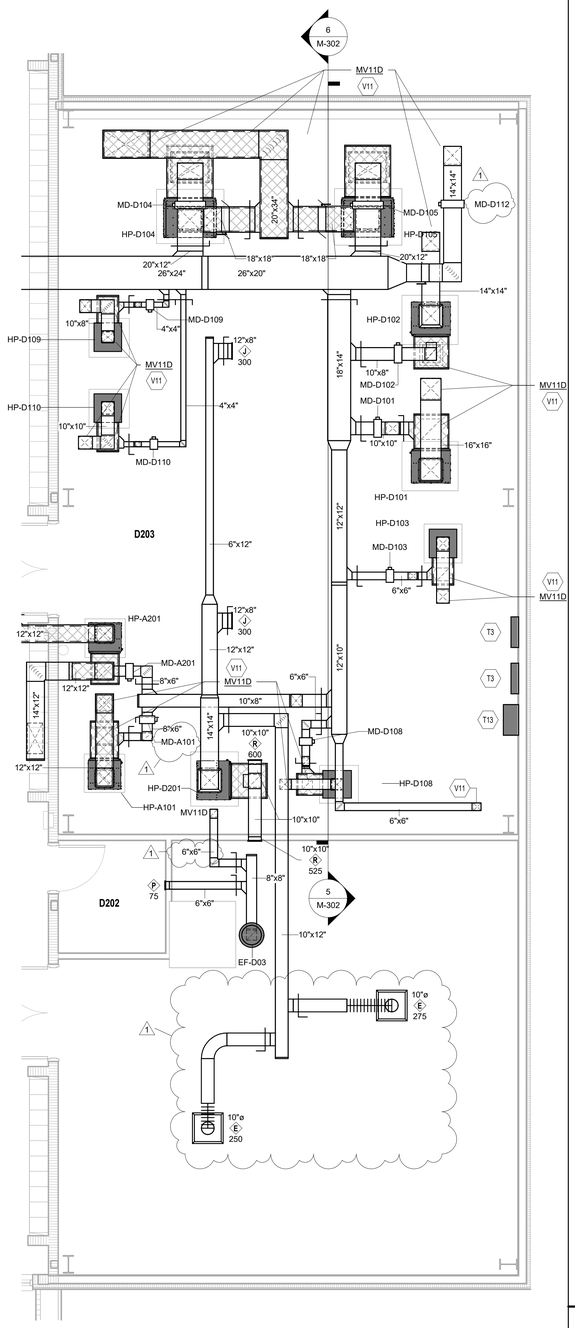
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SECOND FLOOR VENTILATION PLAN - UNIT D

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



2ND FLR ENLARGED VENTILATION PLAN - D203

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A209	COLLABORATION	2366 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
B201	UPPER MAIN HALL	398 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T13	LOCATION OF TEMPERATURE CONTROL SYSTEM AND PERSONAL COMPUTER WORKSTATION PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V15	DISHWASHER EXHAUST SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE RELAY TO BMS.
V16	KITCHEN EXHAUST SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
V17	MAKE UP AIR SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.

VERIFICATION NOTE

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

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

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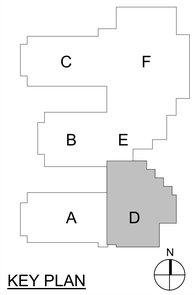
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ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

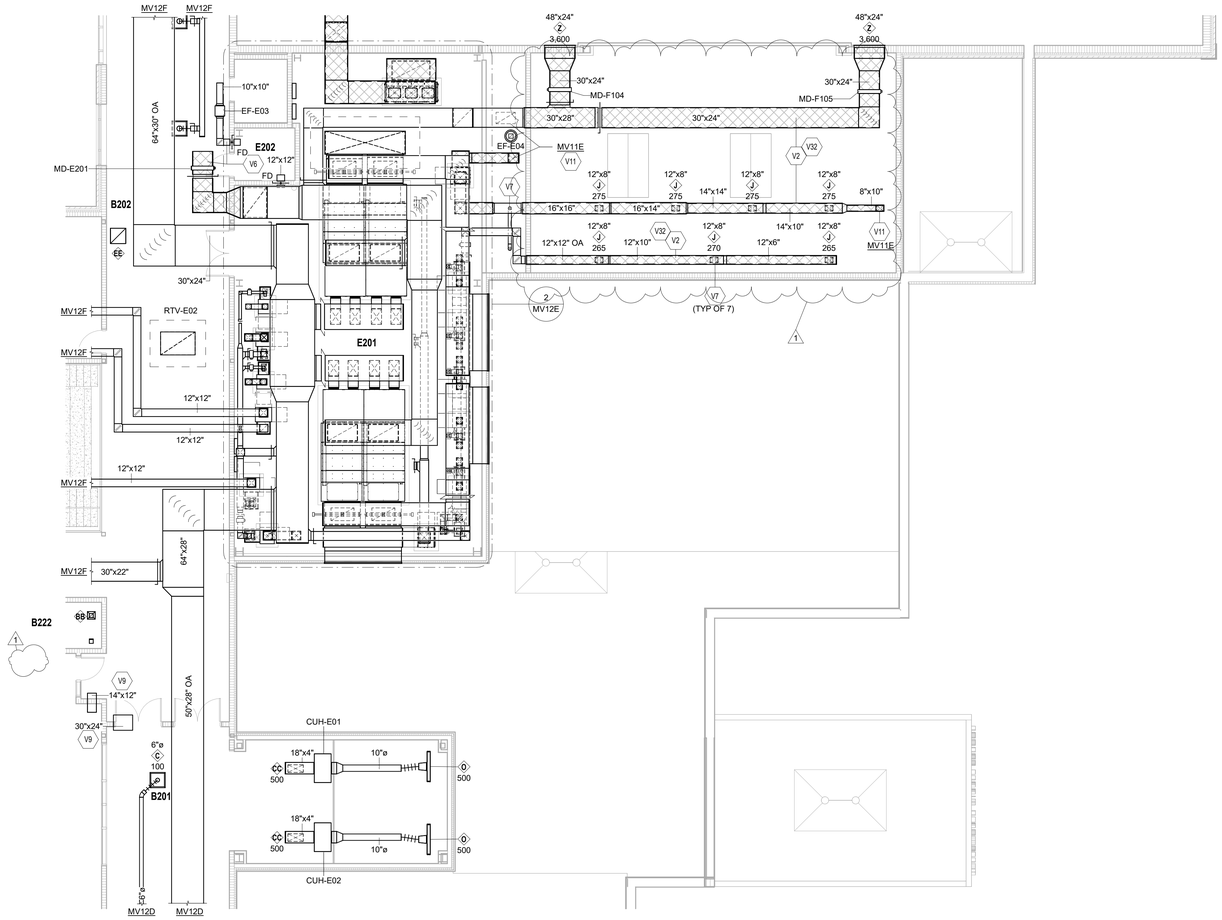
SECOND FLOOR VENTILATION PLAN - UNIT D

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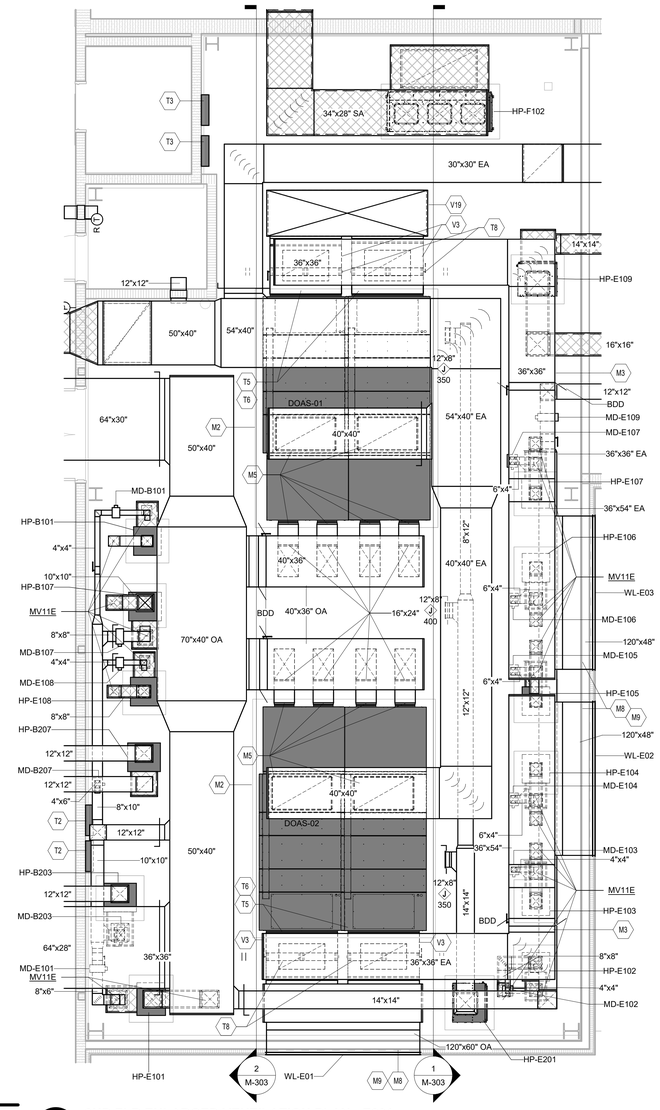
ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B220	SGI	358 SF
B222	CUSTODIAN	81 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF



SECOND FLOOR VENTILATION PLAN - UNIT E

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



2 2ND FLR ENLARGED VENTILATION PLAN - E201

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

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M2	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M3	WRAP EXHAUST DUCTWORK WITH INSULATION FROM AIR HANDLING UNIT TO ROOFTOP VENTILATOR/WALL LOUVER. INSTALL BACKDRAFT DAMPER IN DUCTWORK.
M5	TRANSITION DUCTWORK AS REQUIRED TO MAKE FINAL CONNECTION TO AIR HANDLING UNIT.
M8	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.
M9	INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
T2	APPROXIMATE LOCATION OF AIR HANDLING UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T5	OUTSIDE AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T6	EXHAUST AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V3	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V19	INSTALL BACKDRAFT DAMPER IN VERTICAL DUCTWORK.
V32	COORDINATE LOCATION OF DUCTWORK WITH STAGE RIGGING AND LIGHTING. LOCATE DUCTWORK AS HIGH AS POSSIBLE.

VERIFICATION NOTE

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

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

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5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

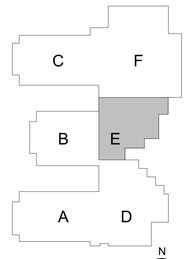
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

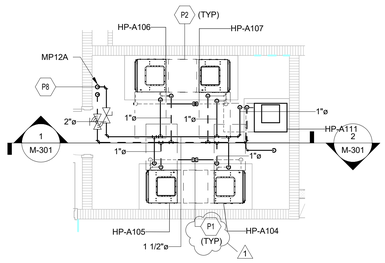
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR VENTILATION PLAN - UNIT E

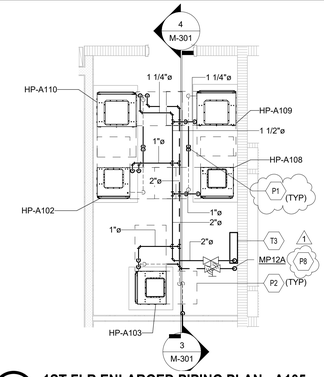
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2 1ST FLR ENLARGED PIPING PLAN - A112

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



3 1ST FLR ENLARGED PIPING PLAN - A105

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1148 SF
A118	HUDDLE	90 SF
A119	SCI	147 SF
A120	SENSORY	60 SF

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF
B101	MAIN HALL	2209 SF
B103	MEDIA CENTER	1827 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
D101	STORAGE	196 SF
D104	CORRIDOR	191 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D121	KITCHEN / SERVING	2365 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
E102	CORRIDOR	213 SF



FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A

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

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	3/4" DIAMETER CONDENSATE PIPING ROUTED TO DRAIN IN AREA. SLOPE PIPING AT A MINIMUM OF 1/8" PER LINEAR FOOT. END OF PIPE TURN DOWN TO DRAIN AND TO BE CUT AT 45 DEGREE ANGLE. VERIFY FINAL PIPE DIAMTER PER MANUFACTURERS GUIDELINES. (1)
P2	CLEARANCE ALLOWED FOR HEAT PUMP ACCESS
P8	PIPING ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
P11	ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT ON ROOF TO INDOOR UNIT IN MAIN MDF ROOM. REFRIGERANT PIPING AND ACCESSORIES TO BE SIZED PER UNIT MANUFACTURERS REQUIREMENTS. REFRIGERANT PIPING SHALL BE INSULATED AND INSULATION SHALL BE COVERED WITH PVC JACKET.
P13	ROUTE INSULATED CONDENSATE DRAIN PIPING DOWN WALL IN MECHANICAL ROOM TO FLOOR DRAIN IN THE AREA. SUPPORT PIPING AS REQUIRED. AVOID ROUTING CONDENSATE PIPING ABOVE EQUIPMENT IN THE MDF ROOM. COVER PIPING AND INSULATION WITH PVC COVER. CUT END OF PIPING AT FLOOR SINK WITH 45° ANGLE. PROVIDE CONDENSATE PUMP. COORDINATE POWER WITH DIVISION 26 CONTRACTOR.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T10	ROOM AVERAGING THERMOSTATS
T11	TIMER SWITCH. COORDIANTE WITH DIVISION 26.
T17	TEMPERATURE SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR TO MONITOR SPACE TEMPERATURE.
T18	PROVIDE BUILDING AUTOMATION SYSTEM PANEL IN THIS AREA.

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

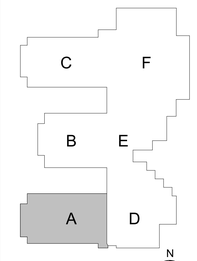
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ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A

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FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
D124	CAFETERIA	4442 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E119	RECEPTION	301 SF
E121	CLINIC	274 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
T10	ROOM AVERAGING THERMOSTATS

VERIFICATION NOTE

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

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

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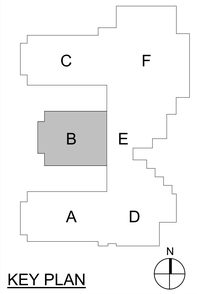
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

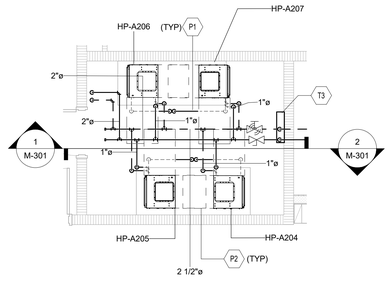
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

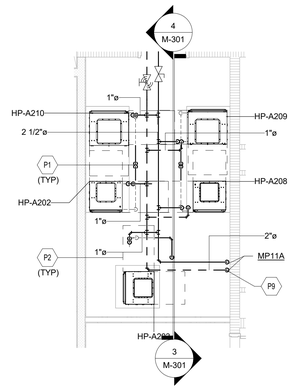
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2 2ND FLR ENLARGED PIPING PLAN - A211

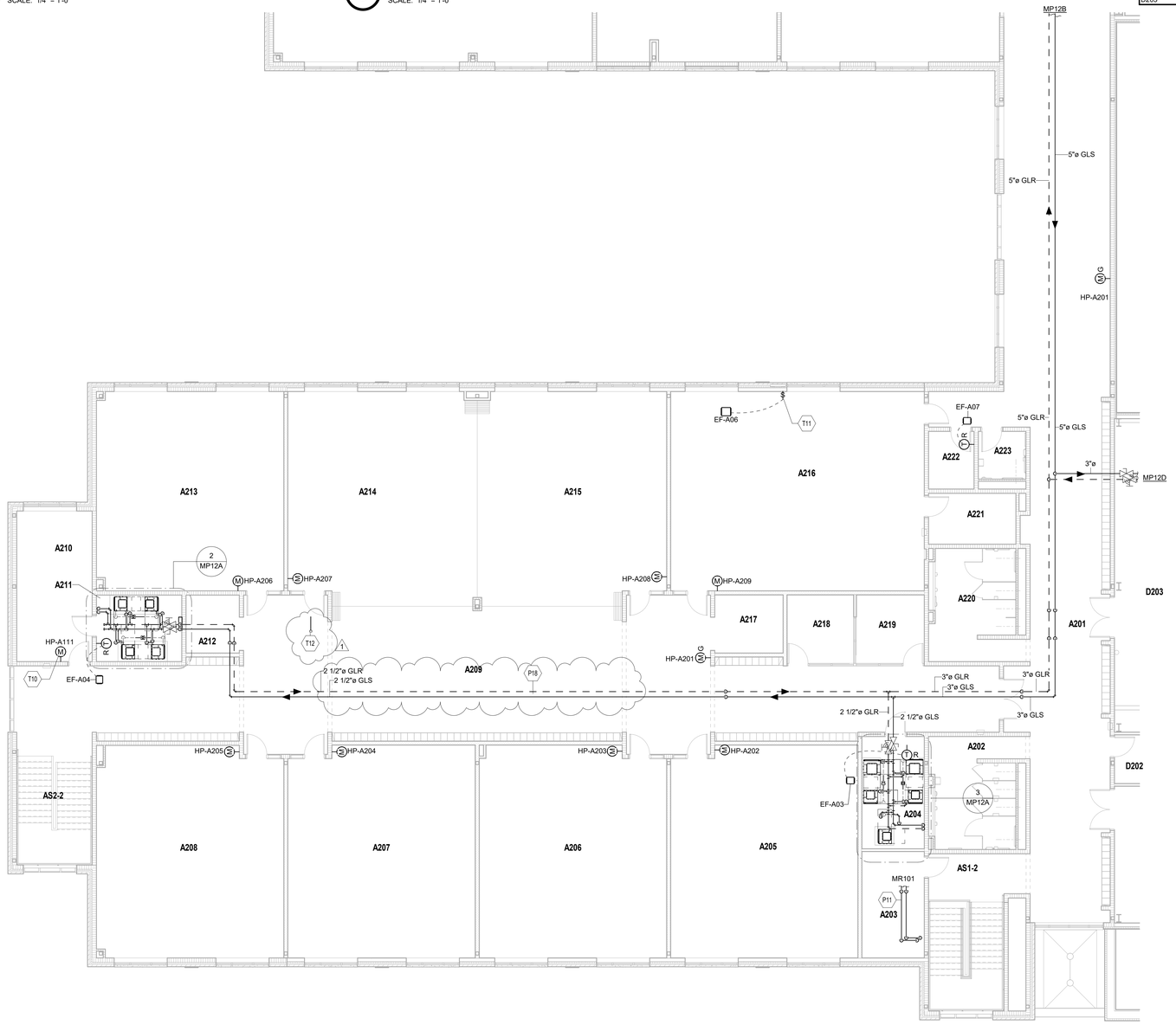
SCALE: 1/4" = 1'-0"



3 2ND FLR ENLARGED PIPING PLAN - A204

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	891 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2366 SF
A210	TEACHERS	258 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1147 SF
A217	HUDDLE	93 SF
A218	SGI	107 SF
A219	SGI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
AS2-2	STAIR	227 SF
B201	UPPER MAIN HALL	398 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B206	INSTRUMENTS	765 SF
B208	BAND	1902 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF



SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A

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

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	3/4" DIAMETER CONDENSATE PIPING ROUTED TO DRAIN IN AREA. SLOPE PIPING AT A MINIMUM OF 1/8" PER LINEAR FOOT. END OF PIPE TURN DOWN TO DRAIN AND TO BE CUT AT 45 DEGREE ANGLE. VERIFY FINAL PIPE DIAMTER PER MANUFACTURERS GUIDELINES.
P2	CLEARANCE ALLOWED FOR HEAT PUMP ACCESS.
P9	PIPING ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
P11	ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT ON ROOF TO INDOOR UNIT IN MAIN MDF ROOM. REFRIGERANT PIPING AND ACCESSORIES TO BE SIZED PER UNIT MANUFACTURERS REQUIREMENTS. REFRIGERANT PIPING SHALL BE INSULATED AND INSULATION SHALL BE COVERED WITH PVC JACKET.
P18	EXPOSED PIPING TO BE WRAPPED WITH INSULATION AND THEN COVERED WITH PVC JACKET PER THE SPECIFICATIONS. PAINT PVC JACKET. ROUTED AS HIGH AS POSSIBLE. COORDINATE EXACT COLOR WITH ARCHITECT/ENGINEER.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T10	ROOM AVERAGING THERMOSTATS
T11	TIMER SWITCH. COORDINATE WITH DIVISION 26.
T12	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.

VERIFICATION NOTE

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

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

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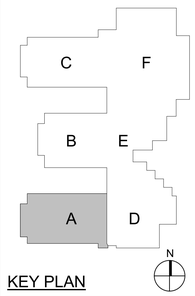
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

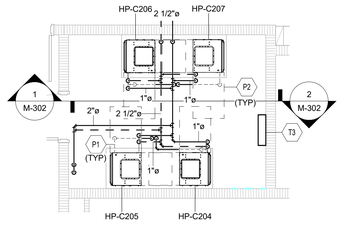
PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A

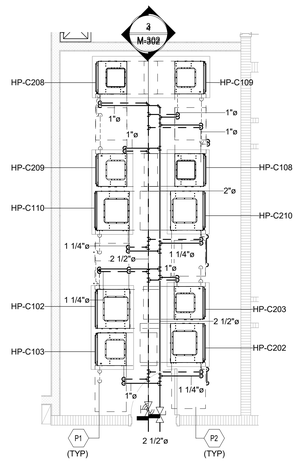
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2 2ND FLR ENLARGED PIPING PLAN - C214

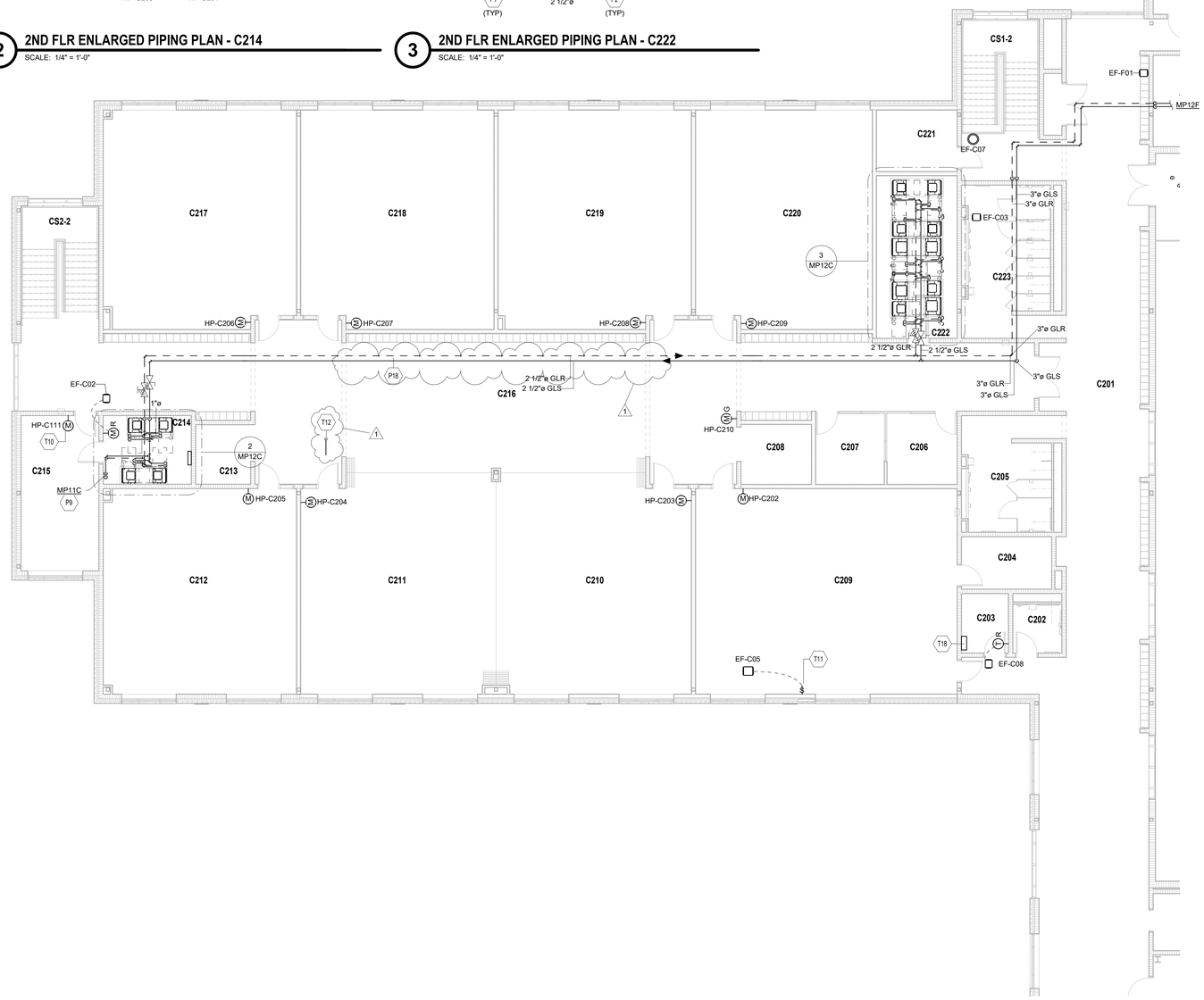
SCALE: 1/4" = 1'-0"



3 2ND FLR ENLARGED PIPING PLAN - C222

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF



SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C

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

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	3/4" DIAMETER CONDENSATE PIPING ROUTED TO DRAIN IN AREA. SLOPE PIPING AT A MINIMUM OF 1/8" PER LINEAR FOOT. END OF PIPE TURN DOWN TO DRAIN AND TO BE CUT AT 45 DEGREE ANGLE. VERIFY FINAL PIPE DIAMTER PER MANUFACTURERS GUIDELINES.
P2	CLEARANCE ALLOWED FOR HEAT PUMP ACCESS.
P9	PIPING ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
P18	EXPOSED PIPING TO BE WRAPPED WITH INSULATION AND THEN COVERED WITH PVC JACKET PER THE SPECIFICATIONS. PAINT PVC JACKET, ROUTED AS HIGH AS POSSIBLE. COORDINATE EXACT COLOR WITH ARCHITECT/ENGINEER.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T10	ROOM AVERAGING THERMOSTATS
T11	TIMER SWITCH. COORDINATE WITH DIVISION 26.
T12	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
T18	PROVIDE BUILDING AUTOMATION SYSTEM PANEL IN THIS AREA.

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

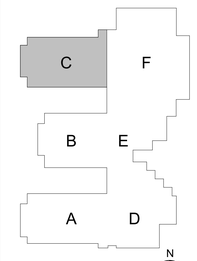
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ARCHITECT

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317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C

MP12C

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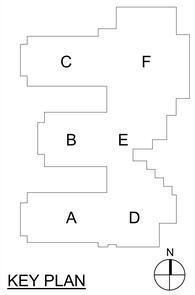
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

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PROJECT NUMBER: 223047.01

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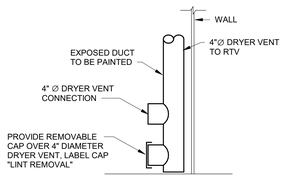
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025

MECHANICAL DETAILS

M-502

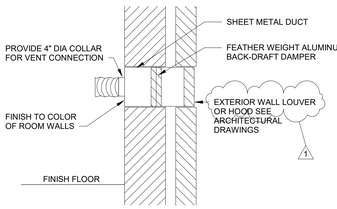
20 DRYER VENT CONNECTION (EXPOSED) DETAIL

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



21 KILN/DRYER VENT DETAIL

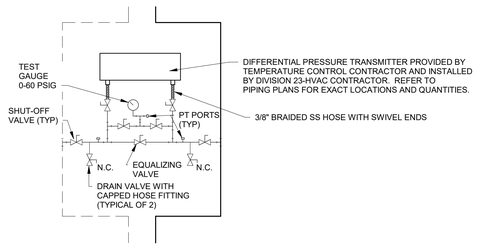
SCALE: 1/8" = 1'-0"



19 DIFFERENTIAL PRESSURE TRANSMITTER DETAIL

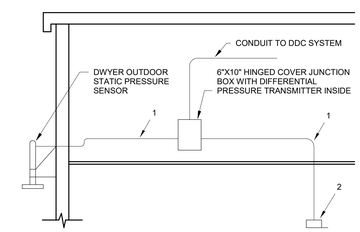
NOT TO SCALE

DPT COMMISSIONING NOTES:
1. OPEN THE EQUALIZING VALVE.
2. OPEN THE ISOLATION VALVES.
3. SLOWLY CRACK JOINT OF BRAIDED HOSE TO BLEED AIR.
4. TIGHTEN BRAIDED HOSE FITTING ONCE AIR IS BLED.
5. CLOSE THE EQUALIZING VALVE TO READ DIFFERENTIAL PRESSURE.



17 BUILDING STATIC PRESSURE SENSOR DETAIL

NOT TO SCALE

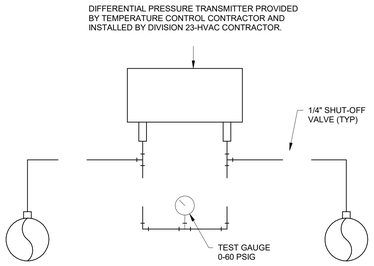


NOTES:

1. MINIMUM 3/8" O.D. TUBING. EQUALIZE LENGTH OF SENSOR TUBES.
2. TERMINATE TUBING IN AN EMPTY THERMOSTAT COVER. LOCATED AS SHOWN ON THE DRAWINGS.

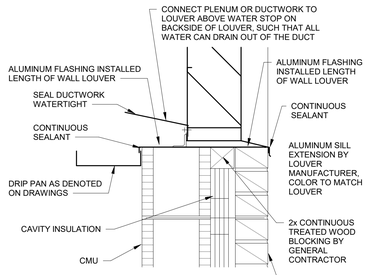
18 DIFFERENTIAL PRESSURE TRANSMITTER INSTALLATION DETAIL

NOT TO SCALE



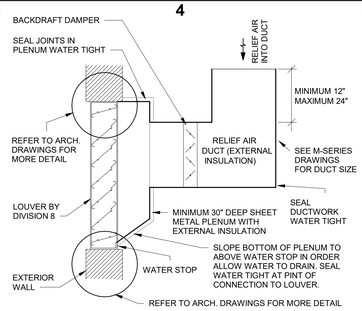
16 WALL LOUVER DUCT CONNECTION DETAIL

NOT TO SCALE



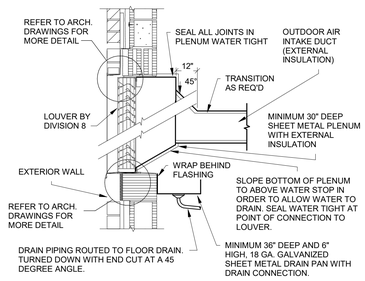
15 RELIEF LOUVER INSTALLATION DETAIL

NOT TO SCALE



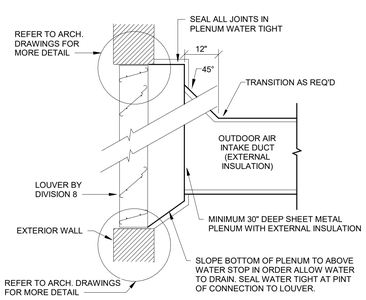
14 LOUVER INSTALLATION DETAIL

NOT TO SCALE



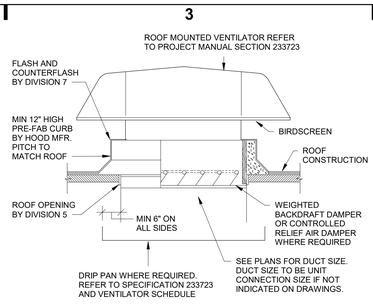
13 INTAKE LOUVER INSTALLATION DETAIL

NOT TO SCALE



12 GOOSENECK VENT DETAIL

NOT TO SCALE

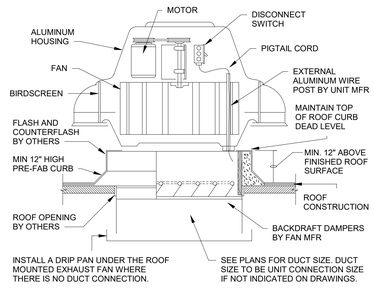


11 ROOF MOUNTED VENTILATOR DETAIL

NOT TO SCALE

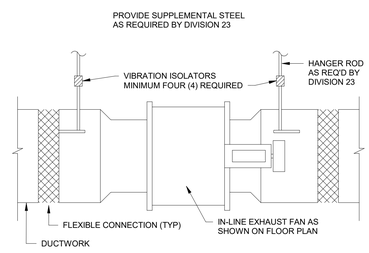
10 ROOF-MOUNTED EXHAUST FAN INSTALLATION DETAIL

NOT TO SCALE



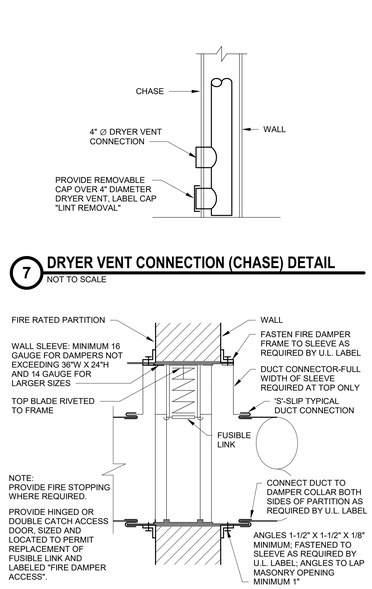
9 IN-LINE EXHAUST FAN MOUNTING DETAIL

NOT TO SCALE



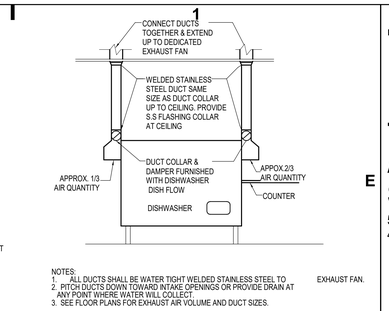
8 FIRE DAMPER INSTALLATION DETAIL

NOT TO SCALE



7 DRYER VENT CONNECTION (CHASE) DETAIL

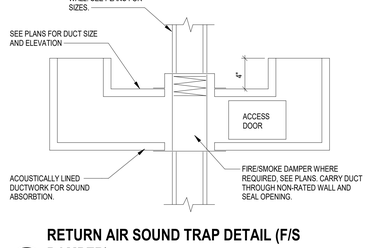
NOT TO SCALE



NOTES:
1. ALL DUCTS SHALL BE WATER TIGHT WELDED STAINLESS STEEL TO
2. PITCH DUCTS DOWN TOWARD INTAKE OPENINGS OR PROVIDE DRAIN AT ANY POINT WHERE WATER WILL COLLECT.
3. SEE FLOOR PLANS FOR EXHAUST AIR VOLUME AND DUCT SIZES.

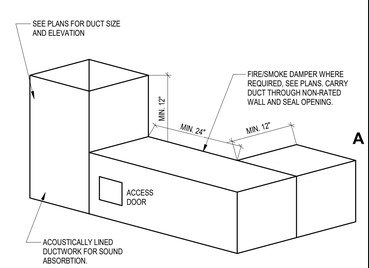
6 RETURN AIR SOUND TRAP DETAIL (F/S DAMPER)

NOT TO SCALE



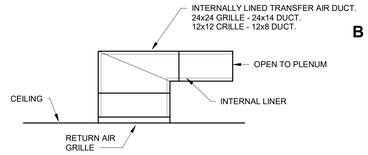
5 RETURN AIR SOUND TRAP DETAIL

NOT TO SCALE



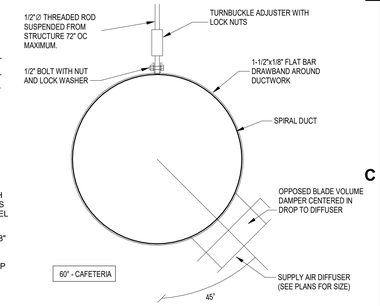
4 GRILLE WITH SOUND BOOT DETAIL

NOT TO SCALE



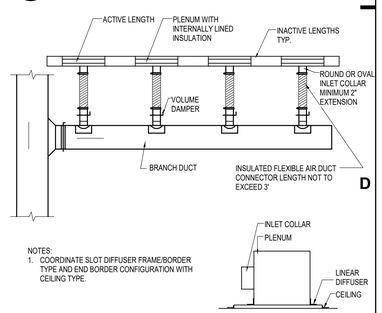
3 EXPOSED SUPPLY AIR DUCT DETAIL

NOT TO SCALE



2 LINEAR SLOT DIFFUSER

NOT TO SCALE

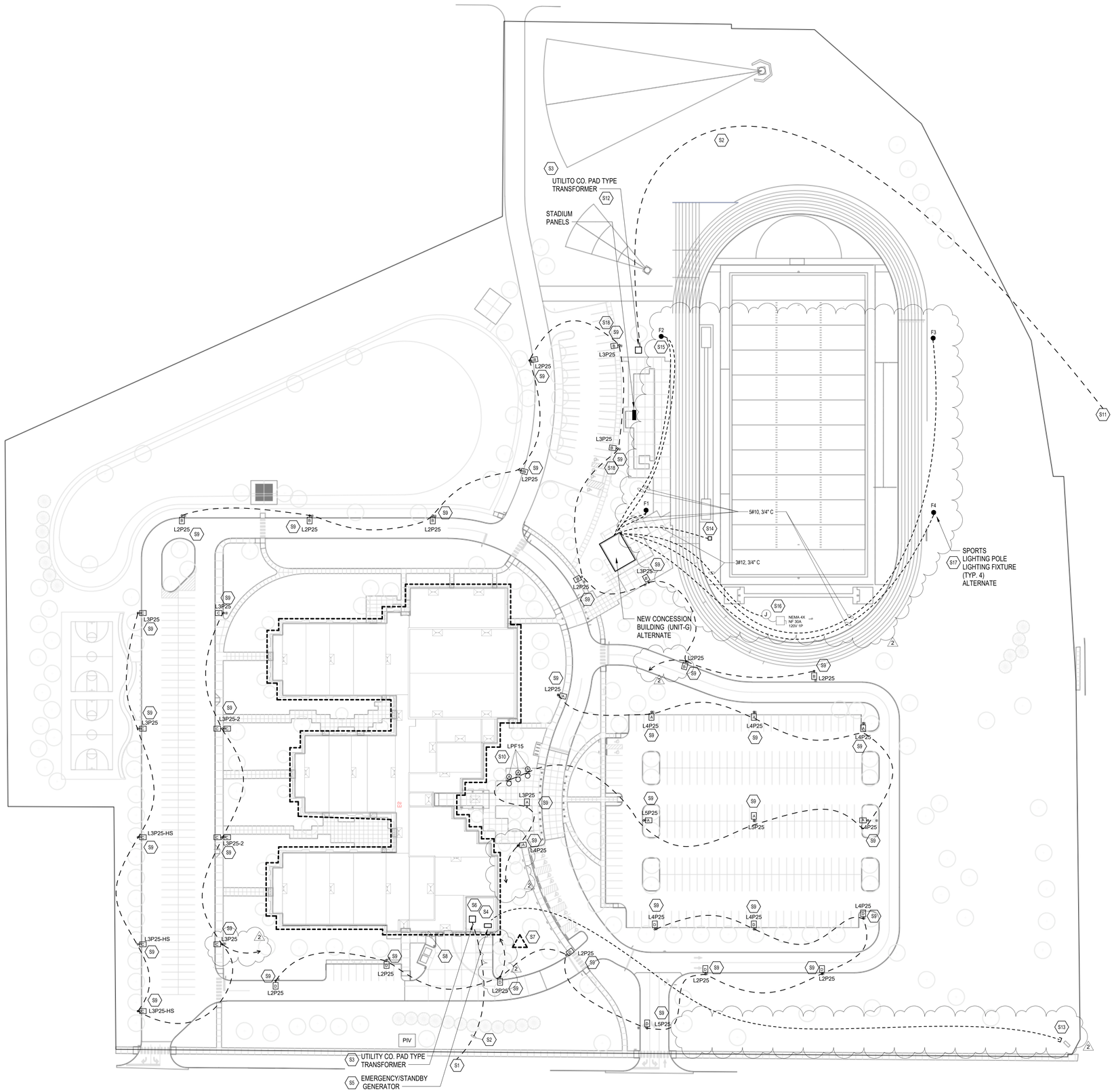


NOTES:
1. COORDINATE SLOT DIFFUSER FRAME/BORDER TYPE AND END BORDER CONFIGURATION WITH CEILING TYPE.

1 EXHAUST DUCTWORK - GLASSWASHER

NOT TO SCALE

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ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

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ELECTRICAL SITE PLAN GENERAL NOTES

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

ELECTRICAL SITE PLAN NOTES (S)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

S1	PROPOSED PICK-UP POINT FOR NEW UTILITY CO. UNDERGROUND PRIMARY ELECTRIC SERVICE AT EXISTING UTILITY POLE. VERIFY PICK-UP POINT WITH UTILITY CO.
S2	UNDERGROUND PRIMARY ELECTRIC SERVICE CONDUITS AND CONDUCTORS FURNISHED AND INSTALLED BY UTILITY CO. CONDUIT TO RUN FROM RISER ON NEAREST AVAILABLE UTILITY POLE TO THE UTILITY CO. TRANSFORMER LOCATION.
S3	UTILITY CO. PAD MOUNT TYPE TRANSFORMER FURNISHED AND INSTALLED BY UTILITY CO. DIVISION 26 TO PROVIDE CAST-IN-PLACE CONCRETE PAD FOR TRANSFORMER AND SUB-GRADE CAST-IN-PLACE CONCRETE BOX FOR CONDUIT ENTRY/EXIT PER UTILITY CO. SPECIFICATIONS. COORDINATE LOCATION OF TRANSOFRMER PAD AND STUB-UP LOCATION FOR PRIMARY AND SECONDARY ELECTRIC SERVICE CONDUITS WITH UTILITY CO. PRIOR TO INSTALLATION OF PAD, SUB-GRADE CONCRETE BOX, AND TRANSFORMER. FINAL PAD LOCATION TO MAINTAIN A MINIMUM OF 5'-0" CLEARANCE ON ALL SIDES OF TRANSFORMER.
S4	ELECTRIC SERVICE METER AND METER BASE SUPPLIED BY UTILITY CO. AND INSTALLED BY DIVISION 26. INSTALL METER BASE ON EQUIPMENT YARD WALL AND RUN A 2" RMC CONDUIT TO THE UTILITY CO. TRANSFORMER. COORDINATE FINAL METER LOCATION, CONDUIT STUB-UP LOCATION AT TRANSFORMER, AND ALL INSTALLATION REQUIREMENTS WITH UTILITY CO. PRIOR TO ROUGH-IN.
S5	EMERGENCY/STANDBY GENERATOR. REFER TO SPECIFICATION SECTION 26 32 13 AND SHEETS "E-501" AND "E-701" FOR ADDITIONAL EQUIPMENT, CONNECTION, AND CONDUIT/FEEDER REQUIREMENTS. INSTALL UNDERGROUND FEEDERS TO AUTOMATIC TRANSFER SWITCHES IN ROOM D103, INDICATED ON SHEET "E-402".
S6	UNDERGROUND SECONDARY ELECTRIC SERVICE CONDUITS FROM UTILITY CO. TRANSFORMER AND EMERGENCY/STANDBY SERVICE CONDUITS FROM GENERATOR AT 36" BELOW FINISH GRADE. RUN TO SERVICE EQUIPMENT IN ROOMS D102 AND D103 ACCORDINGLY. REFER TO SHEET "E-701" FOR CONDUIT/FEEDER REQUIREMENTS. COORDINATE ROUTING PRIOR TO INSTALLATION.
S7	GROUNDING FIELD AND CONNECTION TO BUILDING PERIMETER GROUND RING. REFER TO DETAILS ON SHEET "E-501" FOR REQUIREMENTS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS AND OTHER SITE FEATURES IN THIS AREA.
S8	BUILDING PERIMETER GROUND RING. REFER TO SPECIFICATION SECTION 26 05 26 AND DETAILS ON SHEET "E-501" FOR REQUIREMENTS. COORDINATE EXACT ROUTING WITH ALL UNDERGROUND UTILITIES TO RUN GROUNDING CONDUCTOR CONTINUOUSLY AROUND BUILDING PERIMETER. CONNECT TO MAIN SERVICE GROUNDING BUSBAR IN ROOM D102.
S9	INSTALL SITE LIGHTING POLE FOUNDATION WITH 2'-6" EXPOSED CONCRETE ABOVE FINISH GRADE. REFER TO POLE FOUNDATION DETAIL ON SHEET "E-501". CONNECT ALL LIGHTS LABELED "A" TO CIRCUIT XAH1-2, LIGHTS LABELED "B" TO CIRCUIT XAH1-4, LIGHTS LABELED "C" TO CIRCUIT XAH1-6, AND LIGHTS LABELED "D" TO CIRCUIT XAH1-8. RUN ALL SITE LIGHTING CIRCUITS THROUGH LIGHTING CONTACTOR "LC-2", LOCATED ADJACENT TO PANELBOARD "XAH1" IN ROOM D103. COORDINATE INSTALLATION WITH APPLICABLE DIVISIONS AS REQUIRED.
S10	MOUNT FLAG POLE LIGHT FIXTURES AT 15'-0" ABOVE FINISH GRADE. STUB-UP CONDUITS WITHIN FLAG POLE BASE. CONNECT TO CIRCUIT XAH1-2 VIA LIGHTING CONTACTOR "LC-2". COORDINATE INSTALLATION WITH APPLICABLE DIVISIONS AS REQUIRED.
S11	PROPOSED PICK-UP POINT FOR NEW UTILITY CO. UNDERGROUND ELECTRIC SERVICE FOR STADIUM AT EXISTING UTILITY POLE. VERIFY PICK-UP POINT WITH UTILITY CO.
S12	REFER TO STADIUM ONE LINE DIAGRAM ON SHEET "E-701" FOR MORE INFORMATION.
S13	BURIED 1" CONDUIT TO FUTURE MESSAGE BOARD LOCATION. STUB UP TO PANELBOARD "AL1" IN ROOM D102. PROVIDE PULL STRING.
S14	IN GROUND 2-GANG, FOUR DUPLEX POWER BOX TO BE CONNECTED TO CIRCUIT GL1-27.
S15	NORTHWEST SPORTS LIGHTING POLE TO ACCOMODATE (2) DISTRICT-WIDE REPEATERS ON RADIO ANTENNA. ANTENNA TO REACH 110FT ABOVE GRADE. IF ANTENNA IS NOT TAKEN, RADIO ANTENNA TO BE INSTALLED ON POLE IN THIS LOCATION.
S16	STADIUM SCOREBOARD. CONNECT TO CIRCUIT GL1-29 VIA BURIED CONDUIT. STUB UP TO PANEL IN ROOM G106.
S17	SPORTING LIGHTING IS AN ALTERNATE. IF SPORTS LIGHTING ALTERNATE IS NOT TAKEN BUT CONCESSION STAND IS, RUN UNDERGROUND CONDUITS FROM GL1 OUT BEYOND CONCRETE WALKWAY FOR FUTURE INSTALLMENT OF SPORTS LIGHTING.
S18	STADIUM PARKING LOT LIGHTING IS AN ALTERNATE.

VERIFICATION NOTE

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

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

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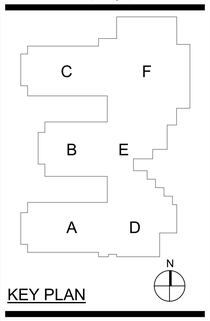
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800025 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

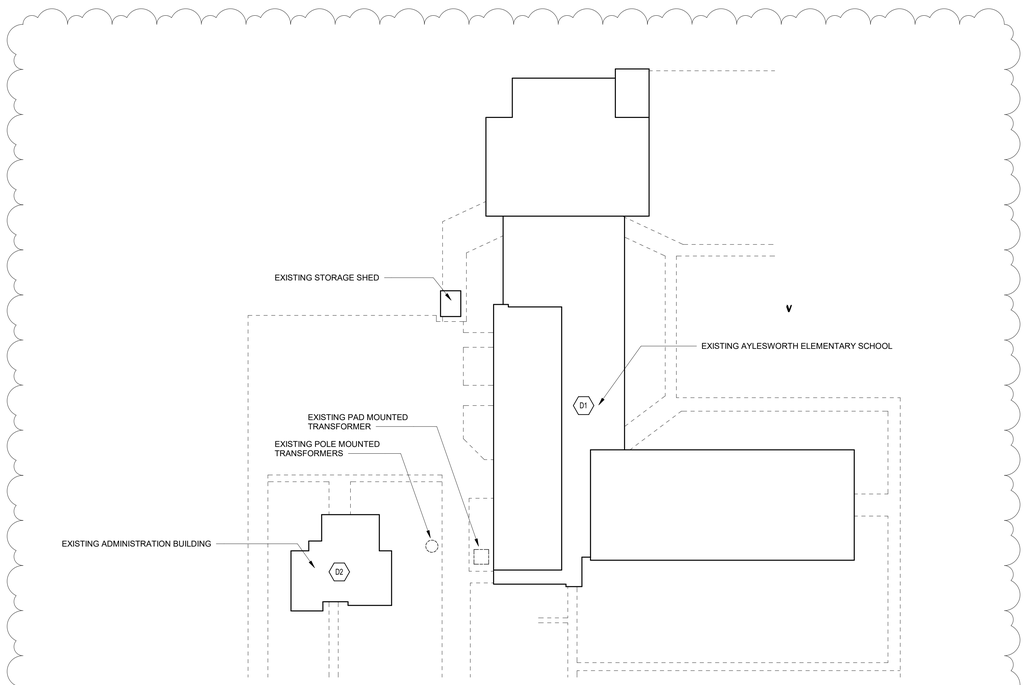
ELECTRICAL SITE PLAN

ES101

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SHEET KEYNOTES	
D1	DISCONNECT AND REMOVE EXISTING SERVICE AT THIS LOCATION. ALL ELECTRICAL IN EXISTING AYLESWORTH ELEMENTARY SCHOOL TO BE REMOVED.
D2	DISCONNECT AND REMOVE ALL ELECTRICAL IN EXISTING ADMIN BUILDING BEING FED BY AYLESWORTH ELEMENTARY SERVICE.

2



ELECTRICAL DEMO PLAN OF AYLESWORTH ELEMENTARY

SCALE: 1" = 50'-0"

2

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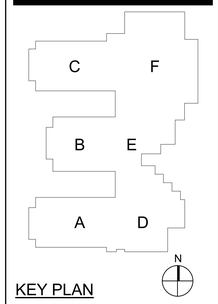
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800026 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

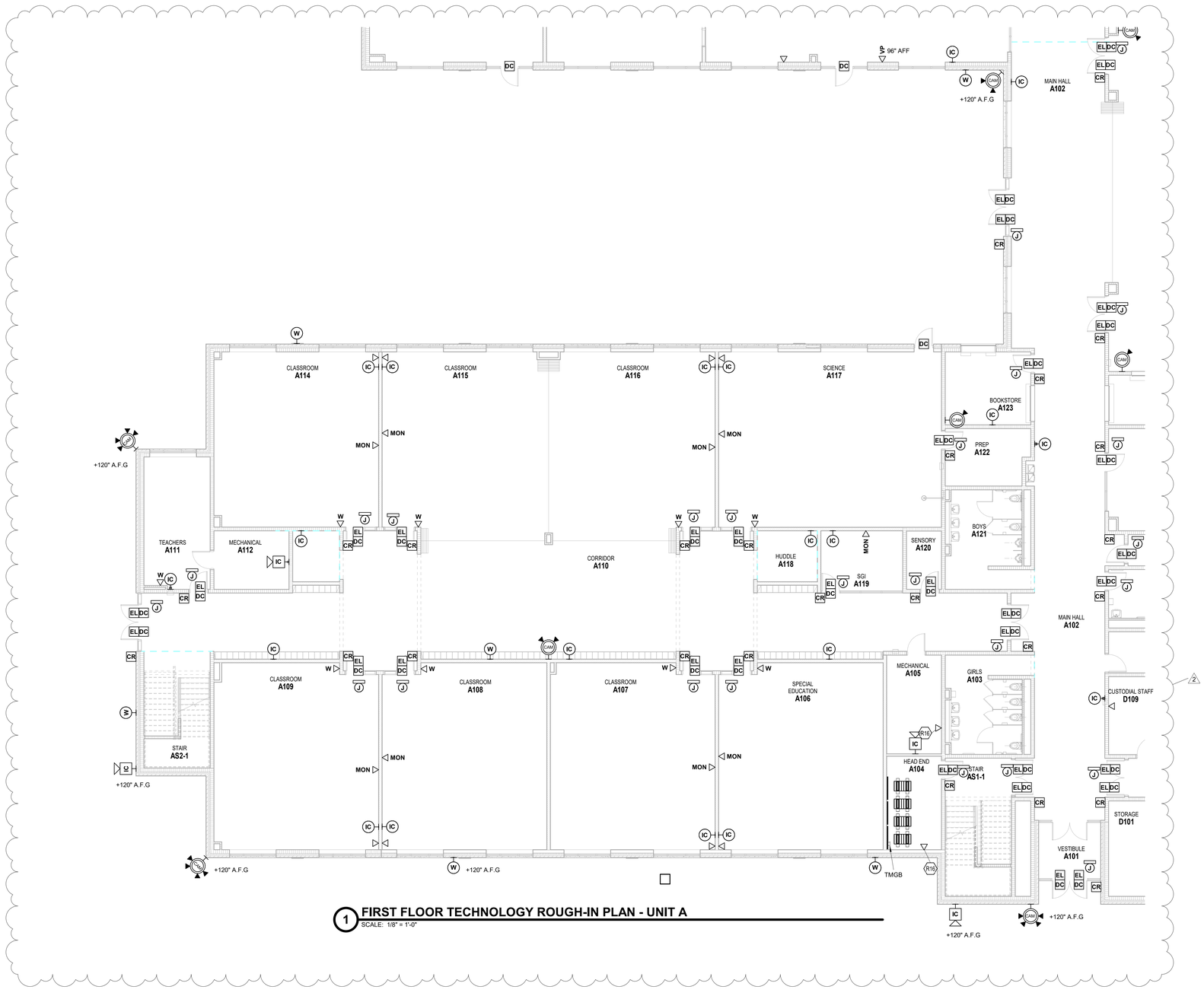
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

ELECTRICAL DEMO PLAN

ED101

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1 **FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A104	B111	HEAD END	151 SF
A105	C102	MECHANICAL	159 SF
A106	C104	SPECIAL EDUCATION	891 SF
A107	C108	CLASSROOM	889 SF
A108	C110	CLASSROOM	892 SF
A109	C112	CLASSROOM	885 SF
A110	C100	CORRIDOR	2370 SF
A111	C114	TEACHERS	255 SF
A112	C114A	MECHANICAL	129 SF
A113	C113	HUDDLE	70 SF
A114	C111	CLASSROOM	843 SF
A115	C109	CLASSROOM	889 SF
A116	C107	CLASSROOM	889 SF
A117	C106	SCIENCE	1148 SF
A118	C105	HUDDLE	90 SF
A119	C103	SGI	147 SF
A120	C101	SENSORY	60 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
AS2-1	STAIR C	STAIR	220 SF
B101	A100	MAIN HALL	2209 SF
B103	D101	MEDIA CENTER	1827 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
D101	B110B	STORAGE	196 SF
D104	B110	CORRIDOR	191 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D121	B104	KITCHEN / SERVING	2365 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

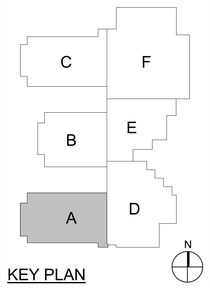
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ARCHITECT

FANNING HOWEY

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10802035 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

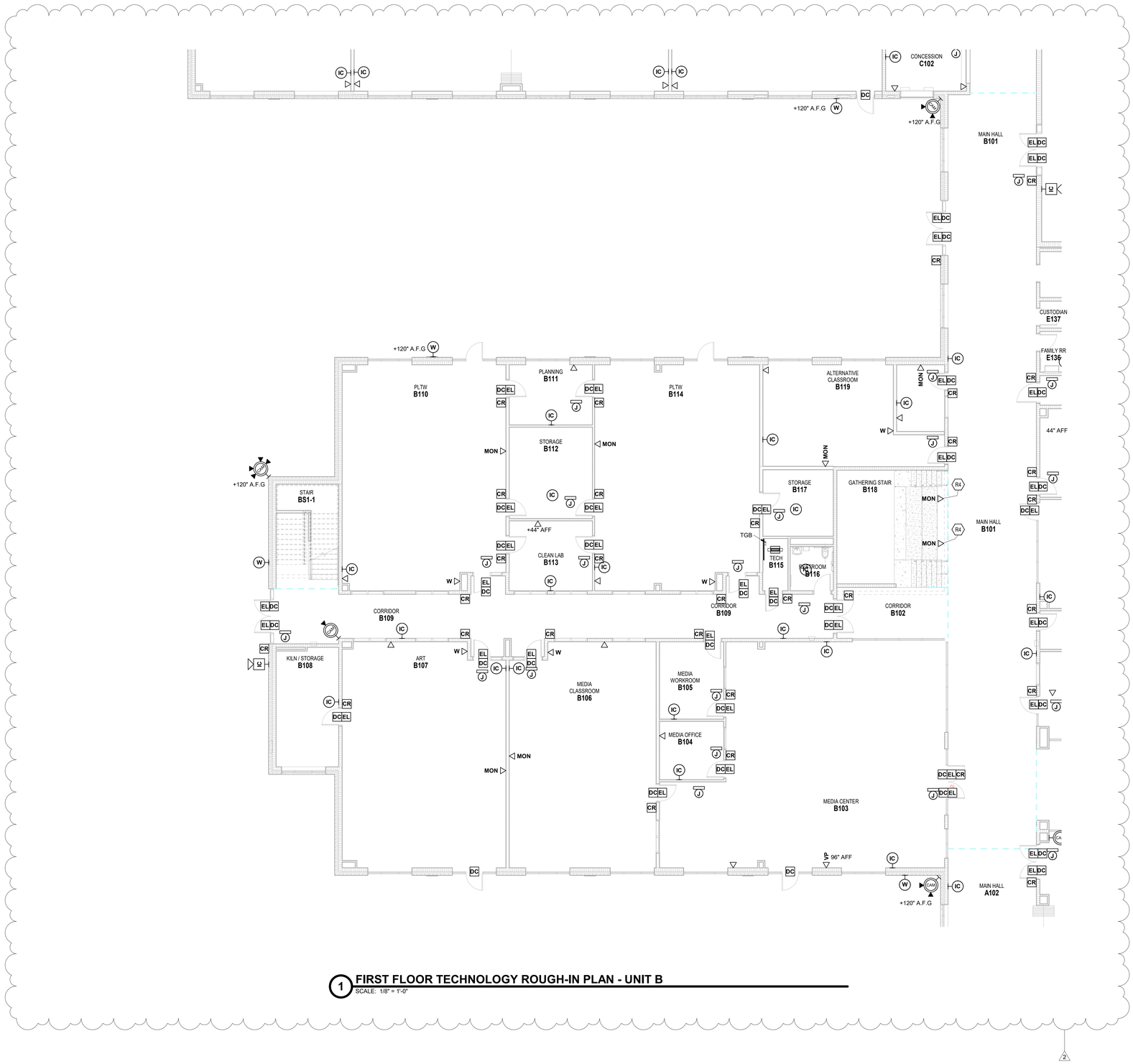
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

ET11A

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1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B

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

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
R4	MONITOR OUTPUT DATA ONLY INTO BULKHEAD FOR SIGNAGE

VERIFICATION NOTE

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

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

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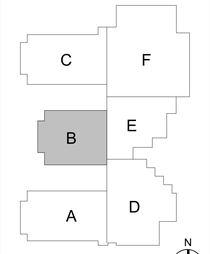
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ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

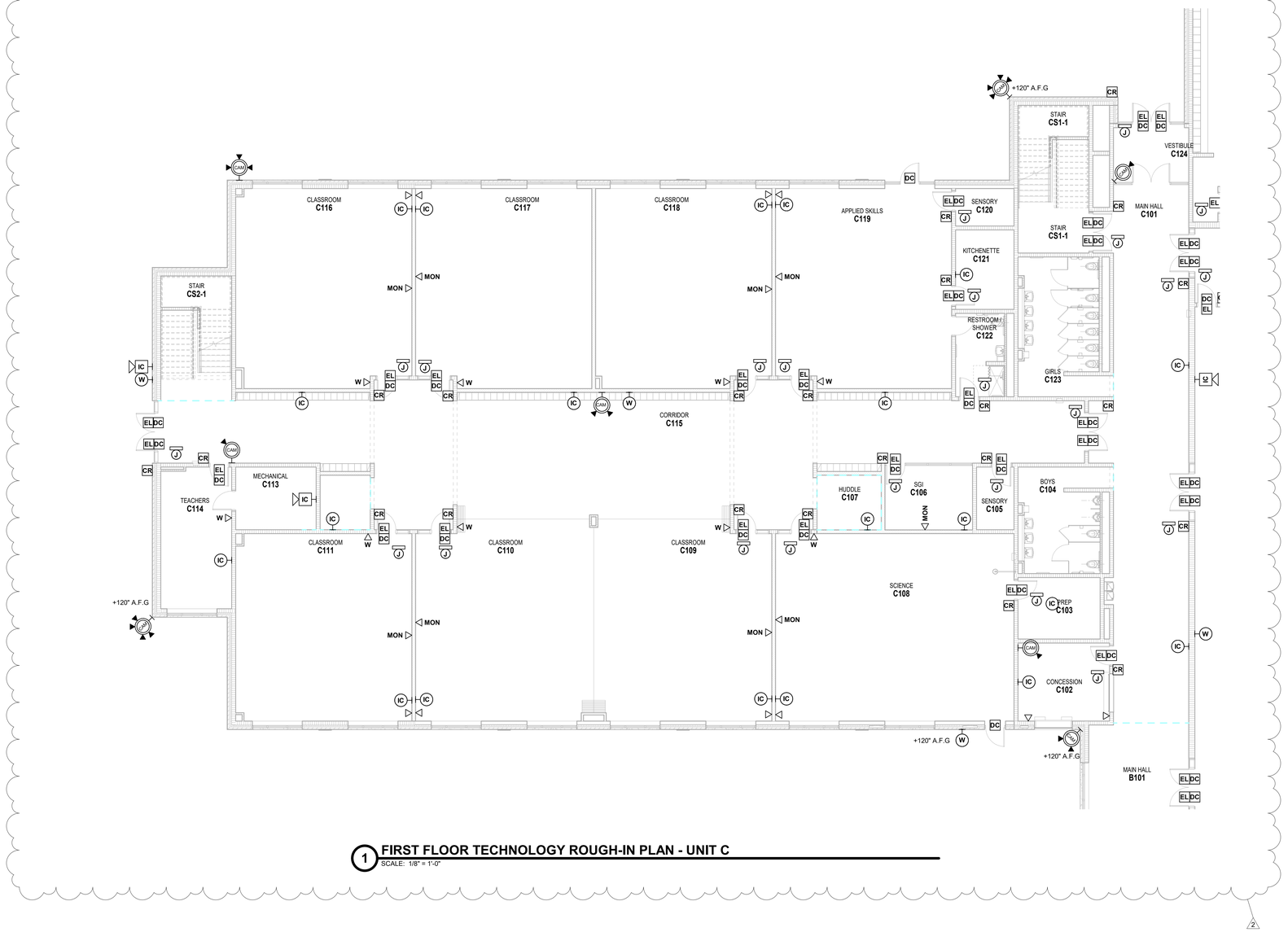
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B

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1 **FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C**
SCALE: 1/8" = 1'-0"

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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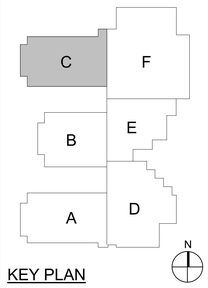
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

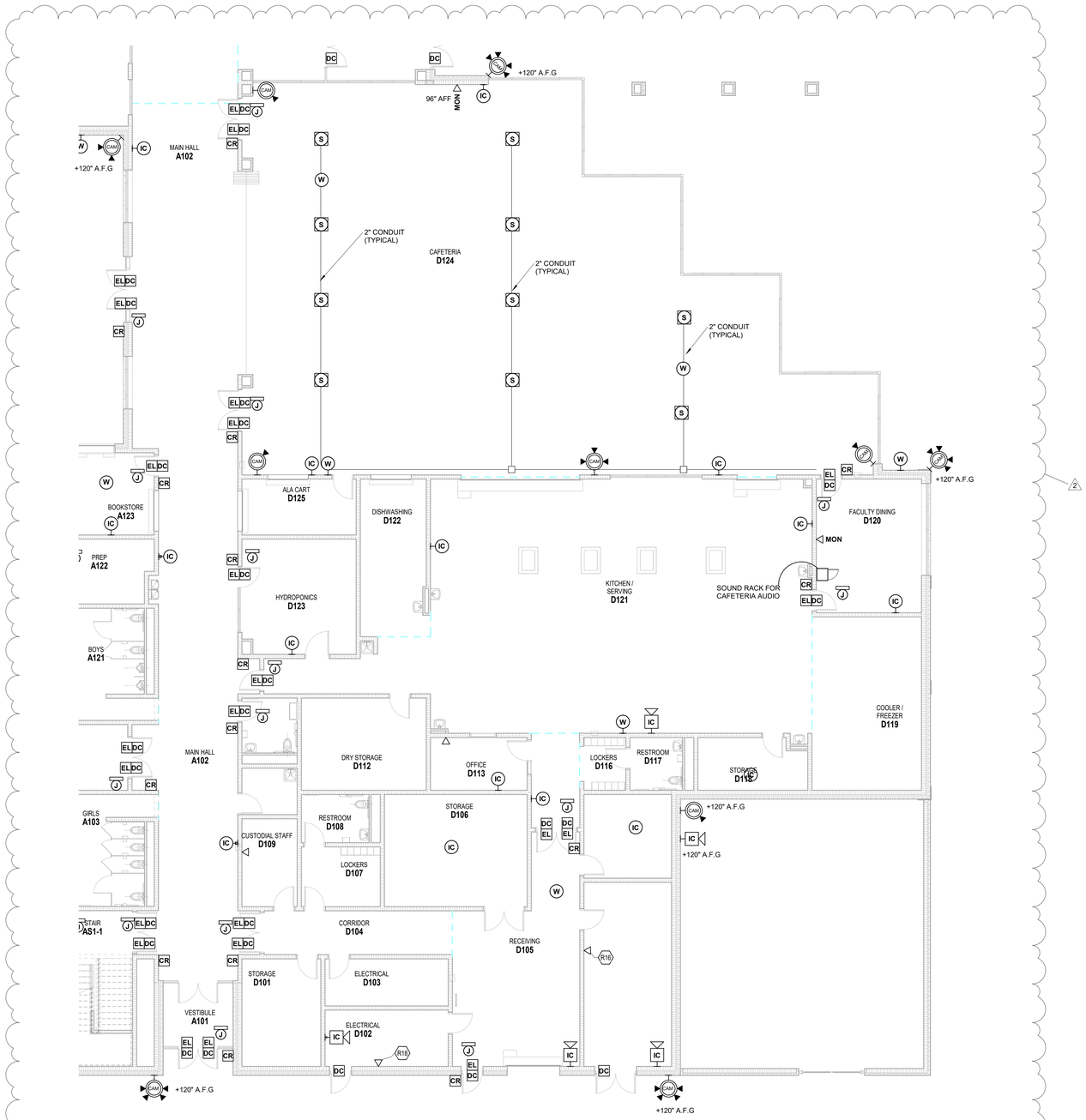
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C

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1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D

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

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.
R18	PROVIDE DATA FOR MAIN SWITCH BOARD AND COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.

VERIFICATION NOTE

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

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

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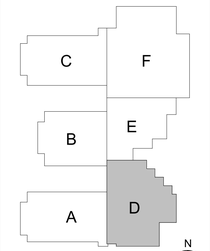
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

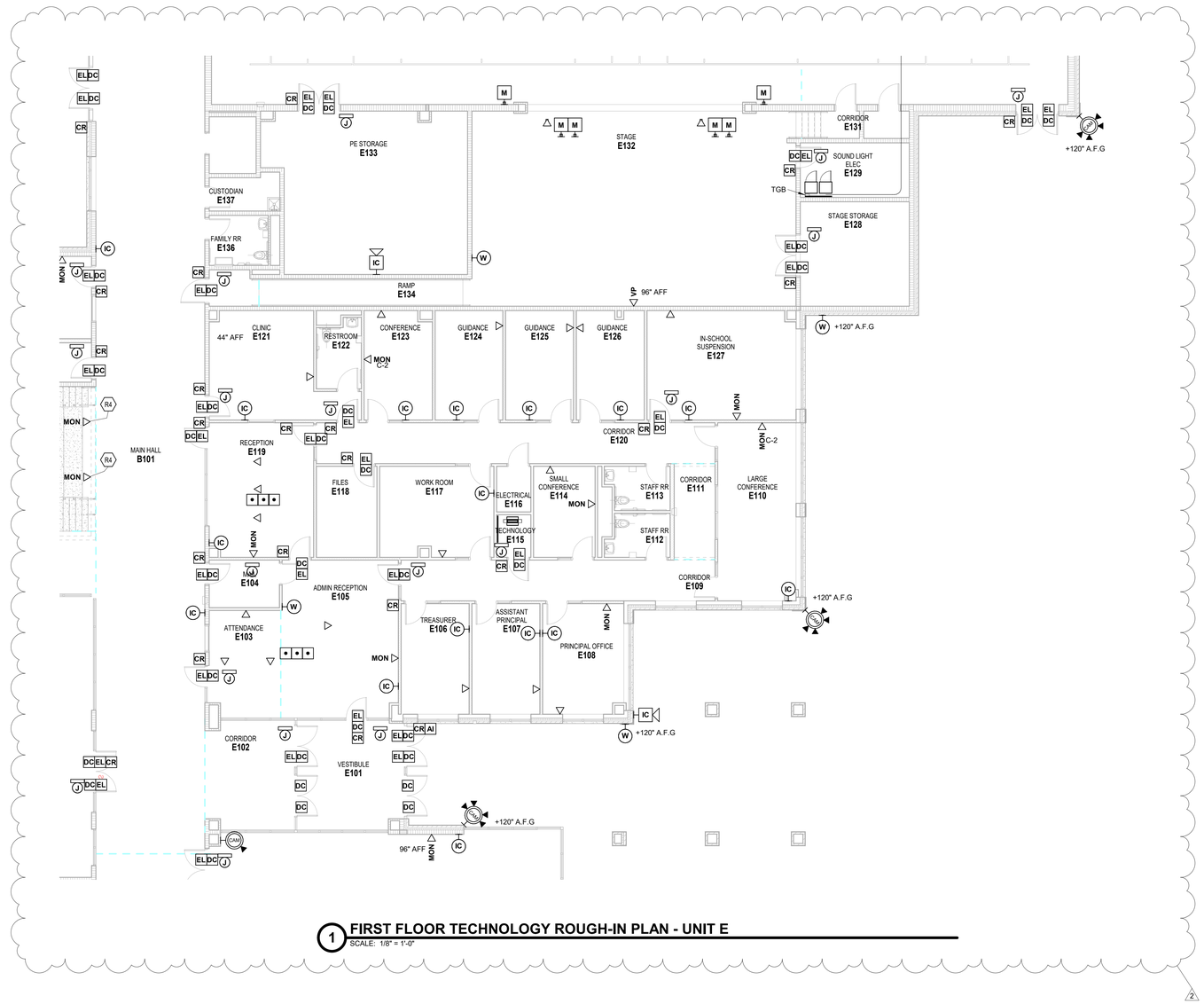
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D

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1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E
SCALE: 1/8" = 1'-0"

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R4	MONITOR OUTPUT DATA ONLY INTO BULKHEAD FOR SIGNAGE

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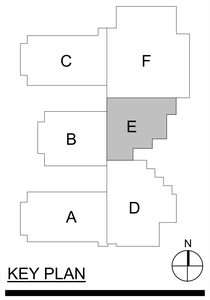
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

VERIFICATION NOTE

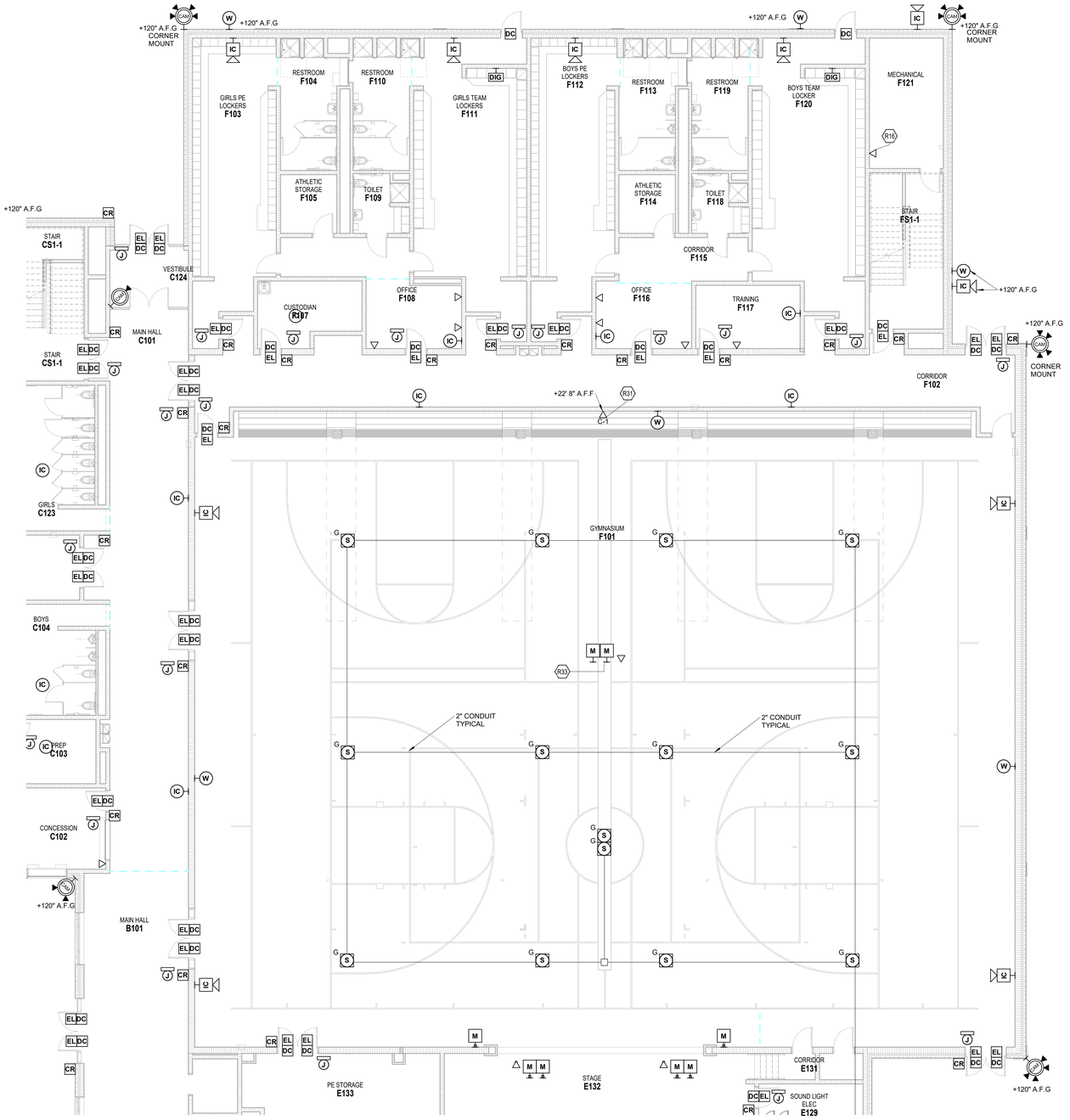
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E

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1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F

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

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.
R31	DATA JACK FOR HUDL SYSTEM. DATA JACK ONLY.
R33	MIC XLR INPUTS AND DATA CONNECTIONS IN THE FLUSH MOUNTED FLOOR POCKET SHOWN ON ELECTRICAL SHEET EP11F. MICS CONNECTED TO SOUND RACK IN E129.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

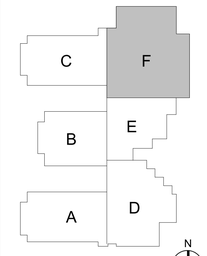
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900008 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

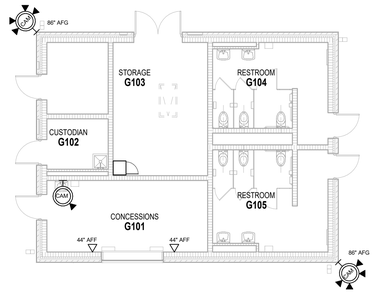
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F

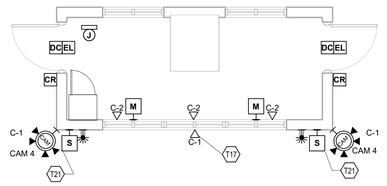
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1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT G

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



2 FIRST FLOOR TECHNOLOGY ROUGH IN - PRESSBOX

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

2

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
T17	DATA JACK FOR HUDL SYSTEM. ABOVE WINDOWS BELOW ROUGH OVER HANG. DATA JACK ONLY.
T21	STADIUM SPEAKERS MOUNTED TO PRESSBOX(BASE BID ONLY)

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PORTAGE TOWNSHIP SCHOOLS

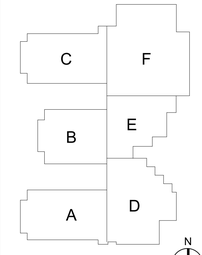
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

VERIFICATION NOTE

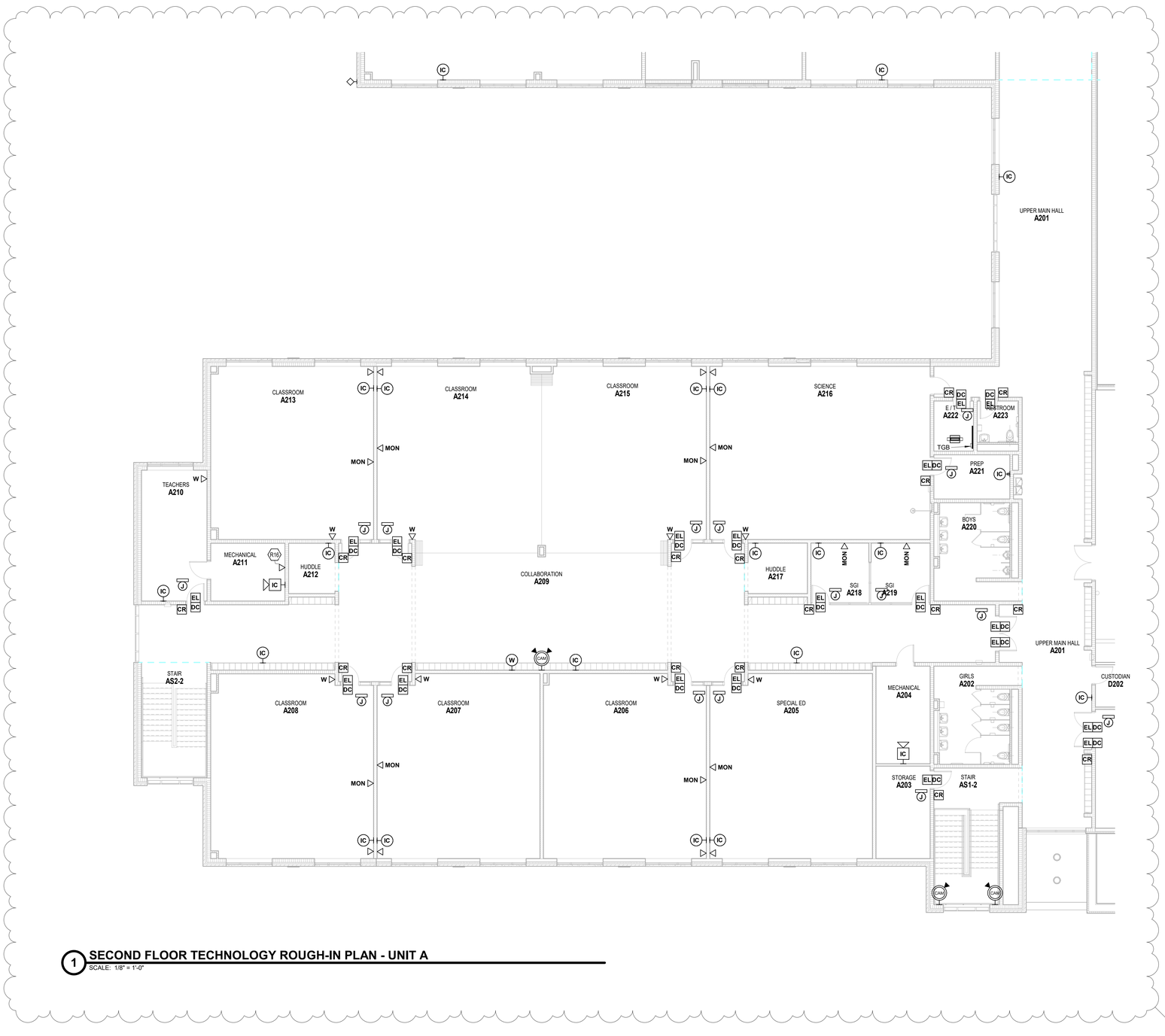
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - CONCESSIONS AND PRESSBOX

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1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
A202	B206	GIRLS	217 SF
A203	B208	STORAGE	151 SF
A204	C202	MECHANICAL	159 SF
A205	C204	SPECIAL ED	891 SF
A206	C208	CLASSROOM	889 SF
A207	C210	CLASSROOM	892 SF
A208	C212	CLASSROOM	885 SF
A209	C200	COLLABORATION	2366 SF
A210	C214	TEACHERS	258 SF
A211	C214A	MECHANICAL	129 SF
A212	C213	HUDDLE	73 SF
A213	C211	CLASSROOM	843 SF
A214	C209	CLASSROOM	889 SF
A215	C207	CLASSROOM	889 SF
A216	C206	SCIENCE	1147 SF
A217	C205	HUDDLE	93 SF
A218	C203	SGI	107 SF
A219	C201	SGI	109 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A222	B202	E / T	60 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
AS2-2	STAIR C	STAIR	227 SF
B201	B200	UPPER MAIN HALL	398 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B206	D206	INSTRUMENTS	765 SF
B208	D207	BAND	1902 SF
D201	B207	STORAGE	6048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1413 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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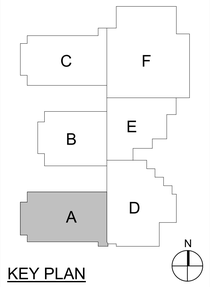
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

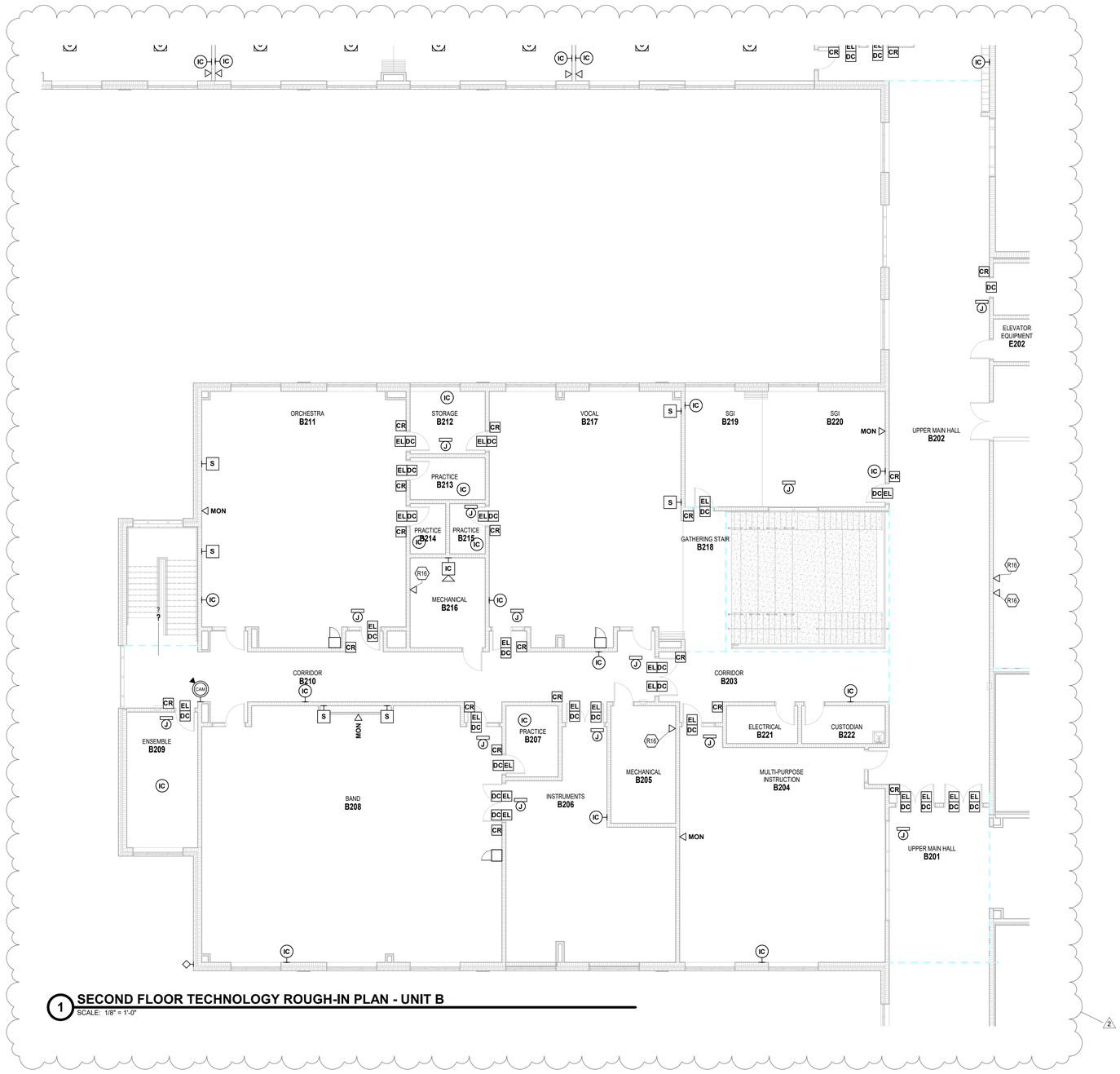
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

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1 **SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
B201	B200	UPPER MAIN HALL	398 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	D205	MECHANICAL	195 SF
B206	D206	INSTRUMENTS	765 SF
B207	D207A	PRACTICE	95 SF
B208	D207	BAND	1902 SF
B209	D209	ENSEMBLE	247 SF
B210	D200	CORRIDOR	843 SF
B211	D208	ORCHESTRA	1271 SF
B212	D208C	STORAGE	120 SF
B213	D208B	PRACTICE	81 SF
B214	D208A	PRACTICE	46 SF
B215	D204A	PRACTICE	46 SF
B216	D200C	MECHANICAL	173 SF
B217	D204	VOCAL	1202 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
BS1-2	STAIR D	STAIR	216 SF
C201	A200	UPPER MAIN HALL	1343 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
E201	A201	MECHANICAL	1999 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

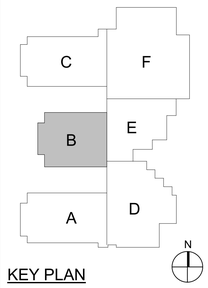
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10038 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

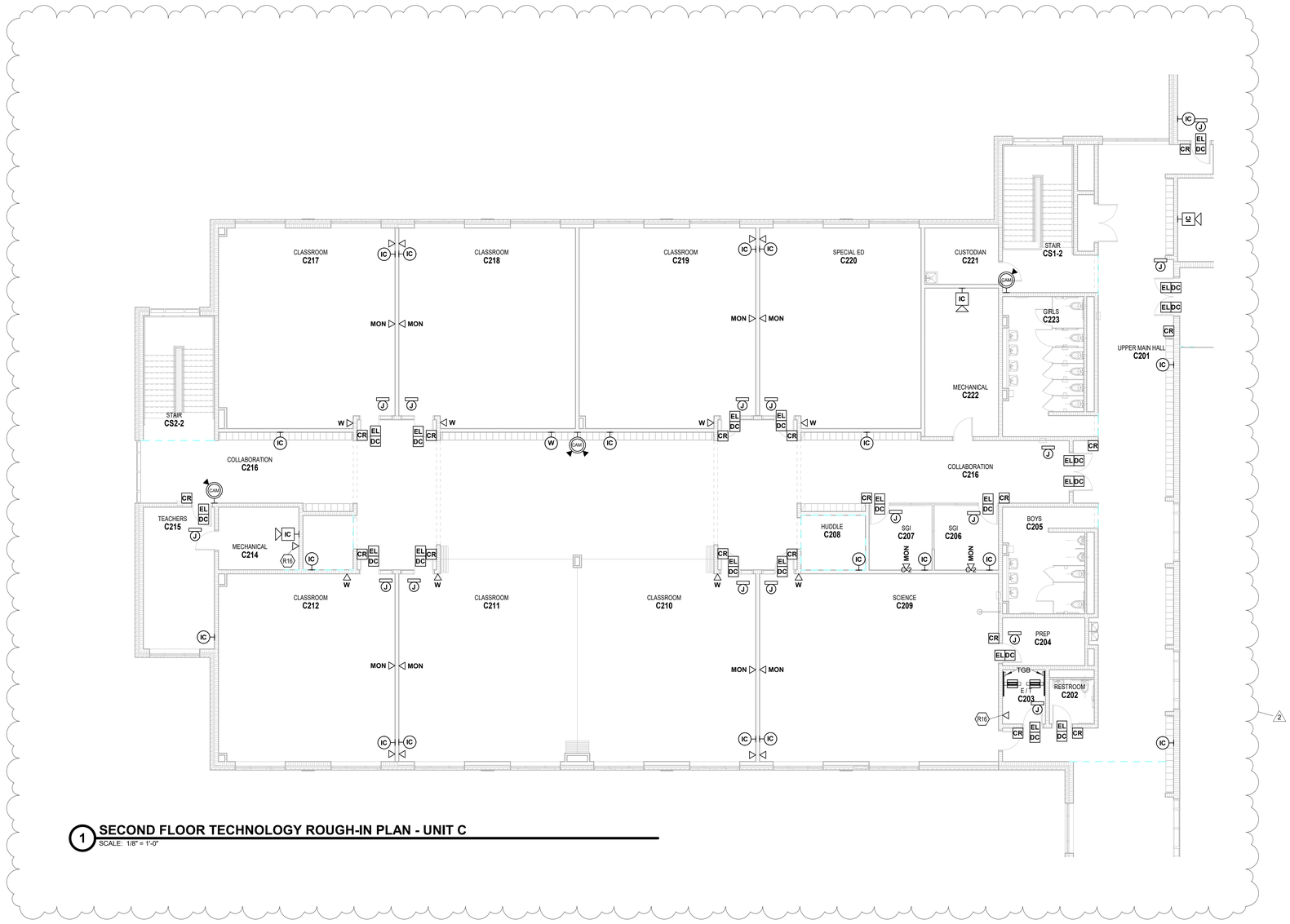
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B

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1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
B202	A200	UPPER MAIN HALL	1871 SF
C201	A200	UPPER MAIN HALL	1343 SF
C202	A203	RESTROOM	51 SF
C203	A204	E / T	60 SF
C204	E206A	PREP	101 SF
C205	A205	BOYS	217 SF
C206	E201	SGI	109 SF
C207	E203	SGI	107 SF
C208	E205	HUDDLE	90 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
C213	E213	HUDDLE	70 SF
C214	E214A	MECHANICAL	129 SF
C215	E214	TEACHERS	258 SF
C216	E200	COLLABORATION	2369 SF
C217	E212	CLASSROOM	885 SF
C218	E210	CLASSROOM	892 SF
C219	E208	CLASSROOM	889 SF
C220	E204	SPECIAL ED	814 SF
C221	A207	CUSTODIAN	106 SF
C222	E202	MECHANICAL	280 SF
C223	A206	GIRLS	282 SF
C224	A208	ELECTRICAL	24 SF
CS1-2	STAIR F	STAIR	293 SF
CS2-2	STAIR E	STAIR	227 SF
F201	A212	BALCONY	1137 SF
F202	A210	MECHANICAL	543 SF
F203	A209	MULTI-PURPOSE INSTRUCTION	1306 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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

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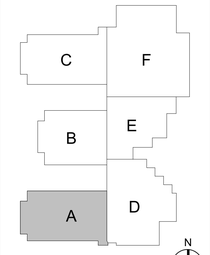
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

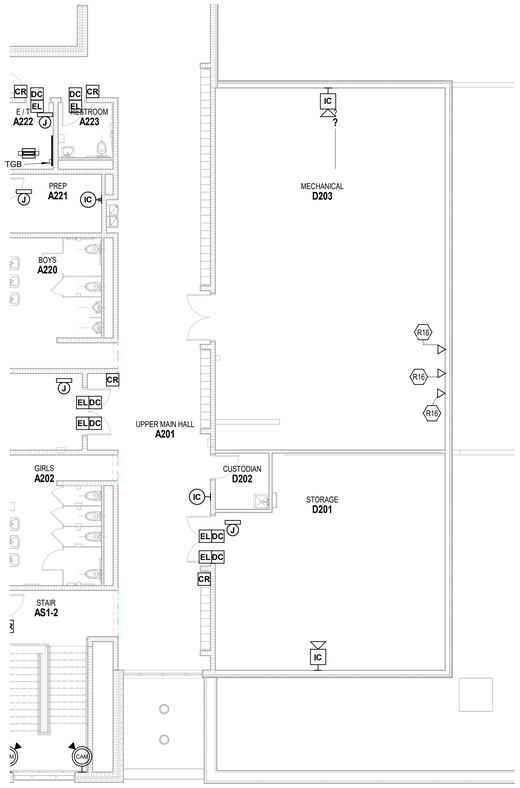
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
A202	B206	GIRLS	217 SF
A209	C200	COLLABORATION	2366 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A222	B202	E / T	60 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
D201	B207	STORAGE	6048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1413 SF



1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D

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

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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

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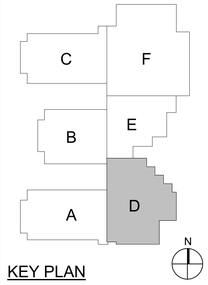
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

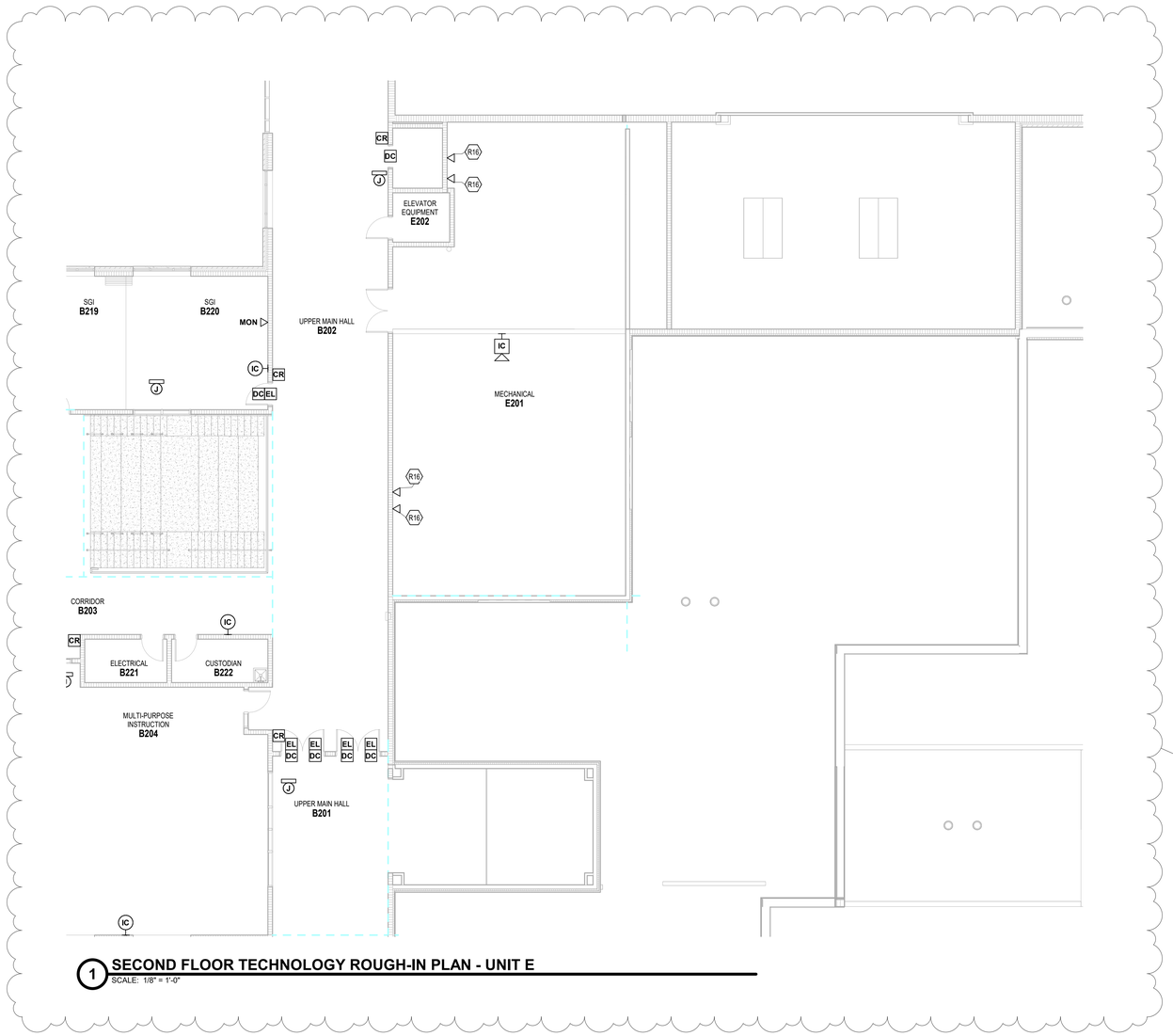
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D

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1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
B201	B200	UPPER MAIN HALL	398 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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

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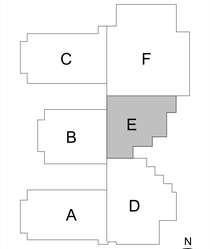
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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900025 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

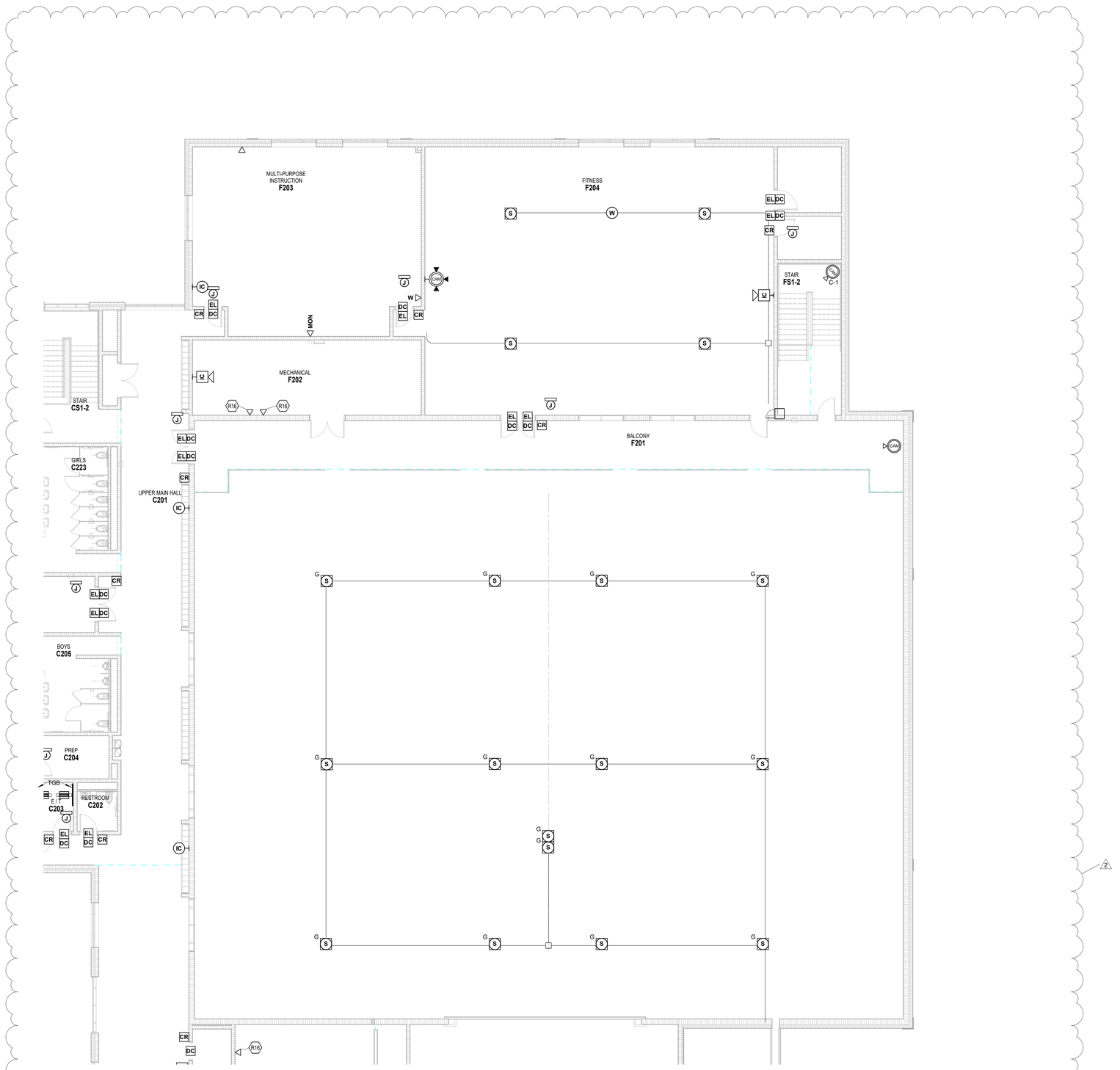
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E

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1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
B202	A200	UPPER MAIN HALL	1871 SF
C201	A200	UPPER MAIN HALL	1343 SF
C202	A203	RESTROOM	51 SF
C203	A204	E / T	60 SF
C204	E206A	PREP	101 SF
C205	A205	BOYS	217 SF
C216	E200	COLLABORATION	2369 SF
C223	A206	GIRLS	282 SF
C224	A208	ELECTRICAL	24 SF
CS1-2	STAIR F	STAIR	293 SF
E201	A201	MECHANICAL	1995 SF
F201	A212	BALCONY	1137 SF
F202	A210	MECHANICAL	543 SF
F203	A209	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	A211	FITNESS	2985 SF
F205	A211A	STORAGE	133 SF
F206	A211B	ELECTRICAL	87 SF
FS1-2	STAIR G	STAIR	307 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

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

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

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

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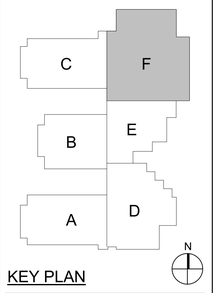
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

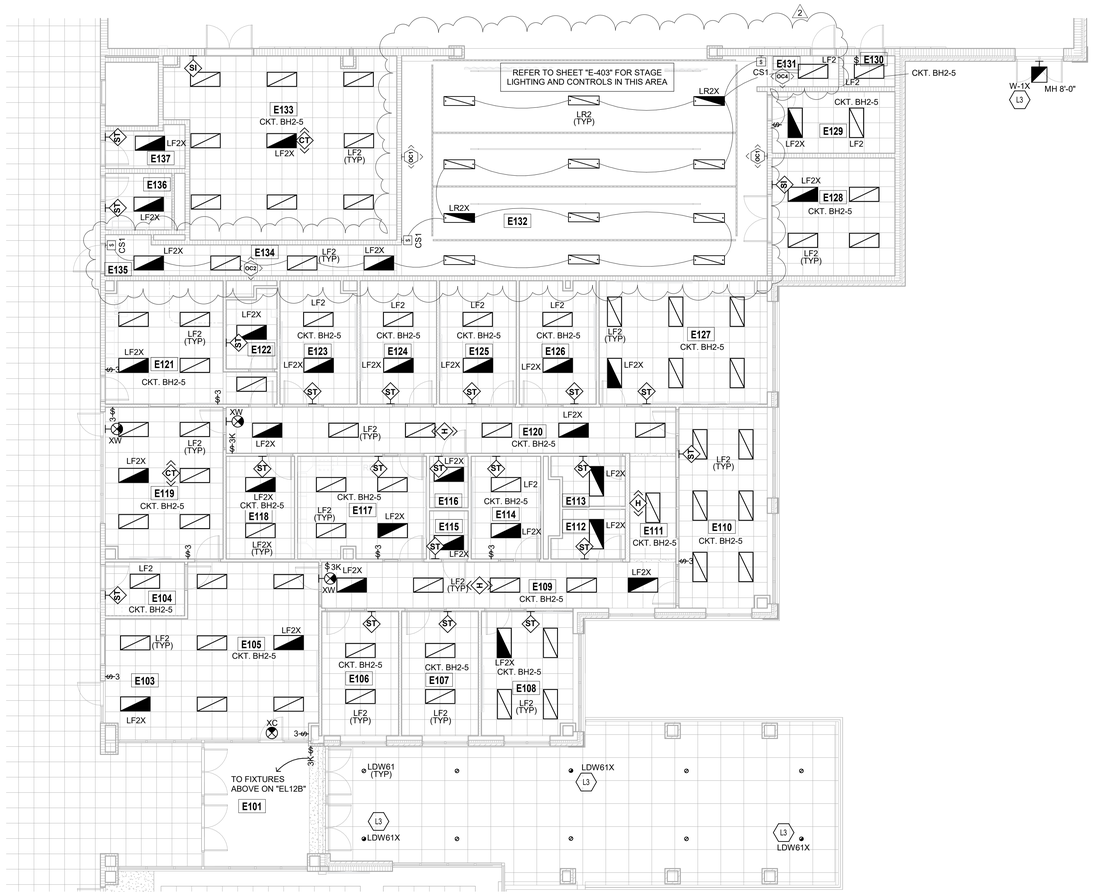
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F

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FIRST FLOOR LIGHTING PLAN - UNIT E

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
D124	CAFETERIA	4442 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XBH1-3.

VERIFICATION NOTE

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

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

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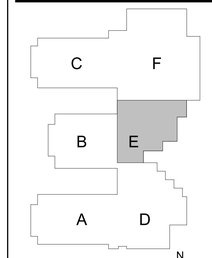
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

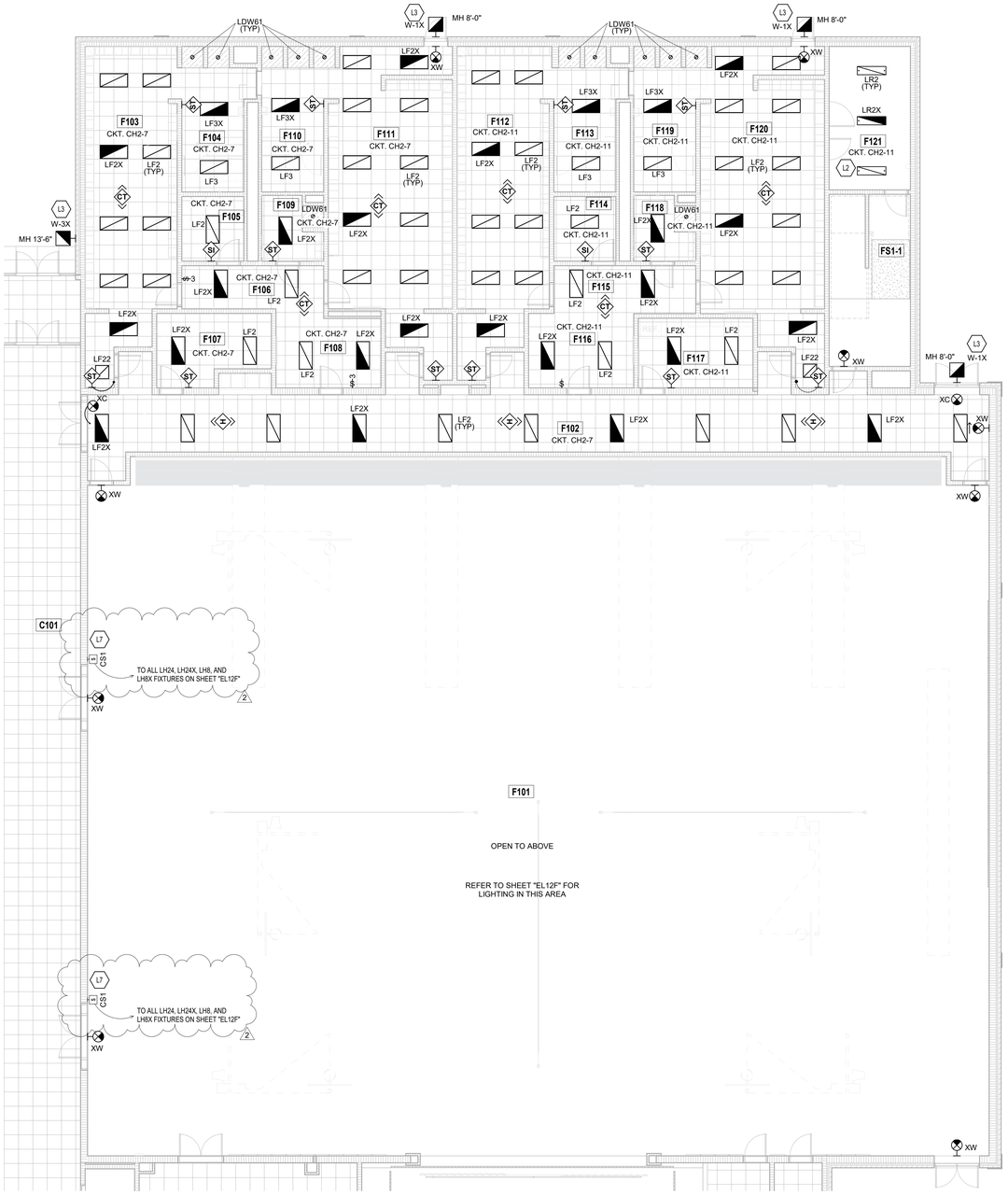
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR LIGHTING PLAN - UNIT E

EL11E

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FIRST FLOOR LIGHTING PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C124	VESTIBULE	116 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L2	COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT.
L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.
L7	SEE GYM / STAGE CONTROL DETAIL "3A/E-503" FOR MORE INFORMATION.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XCH1-3.

VERIFICATION NOTE

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

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

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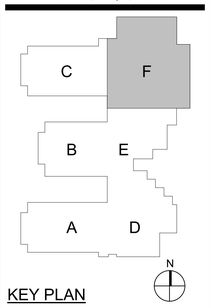
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR LIGHTING PLAN - UNIT F

EL11F

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SECOND FLOOR LIGHTING PLAN UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	140 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
BS1-2	STAIR	216 SF
C201	UPPER MAIN HALL	1343 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L2	COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT.
L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.
L4	THIS SWITCH TO CONTROL ALL "SL4R" AND "LD6B" FIXTURES ABOVE STAIRS.
L6	CONNECT FIXTURE LABELED "EM" TO EMERGENCY CIRCUIT WITH GENERATOR TRANSFER DEVICE.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XBH1-6.

VERIFICATION NOTE

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

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

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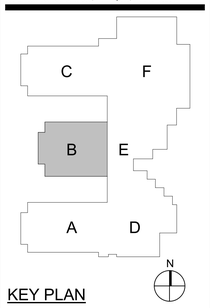
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ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900668 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

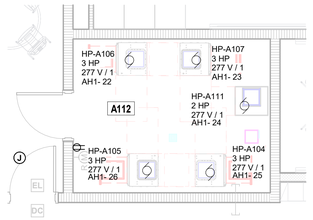
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

SECOND FLOOR LIGHTING PLAN - UNIT B

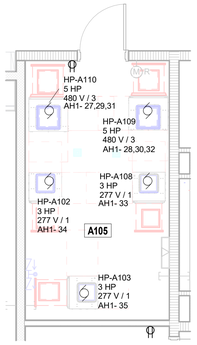
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1 ENLARGED MECHANICAL ROOM A112

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

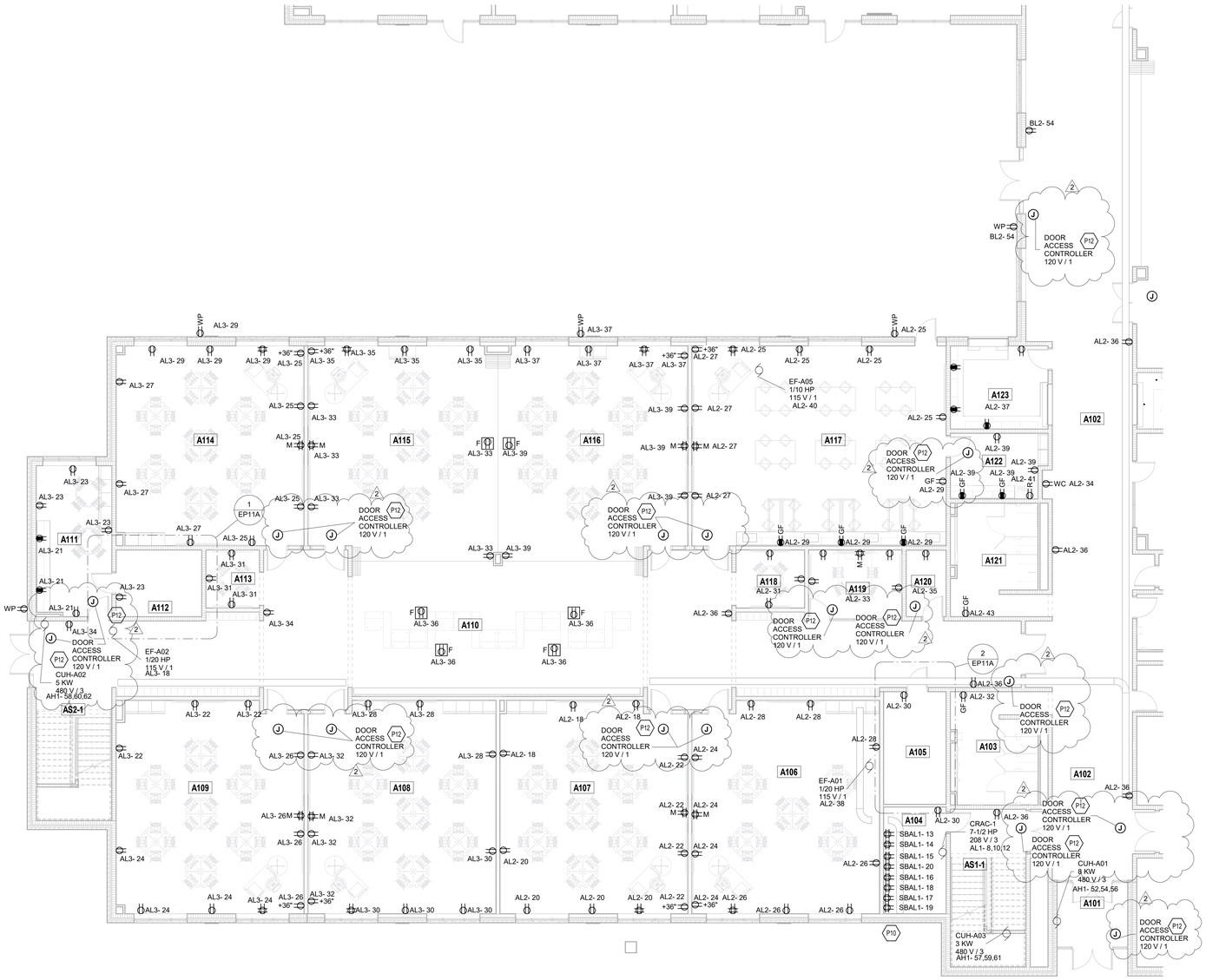


2 ENLARGED MECHANICAL ROOM A105

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

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.



FIRST FLOOR POWER PLAN UNIT A

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1148 SF
A118	HUDDLE	90 SF
A119	SCI	147 SF
A120	SENSORY	60 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF
B103	MEDIA CENTER	1827 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
D101	STORAGE	196 SF
D104	CORRIDOR	191 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D121	KITCHEN / SERVING	2365 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P10	TECHNOLOGY RACK(IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

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

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

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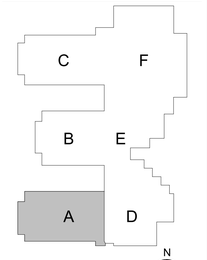
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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT A

EP11A

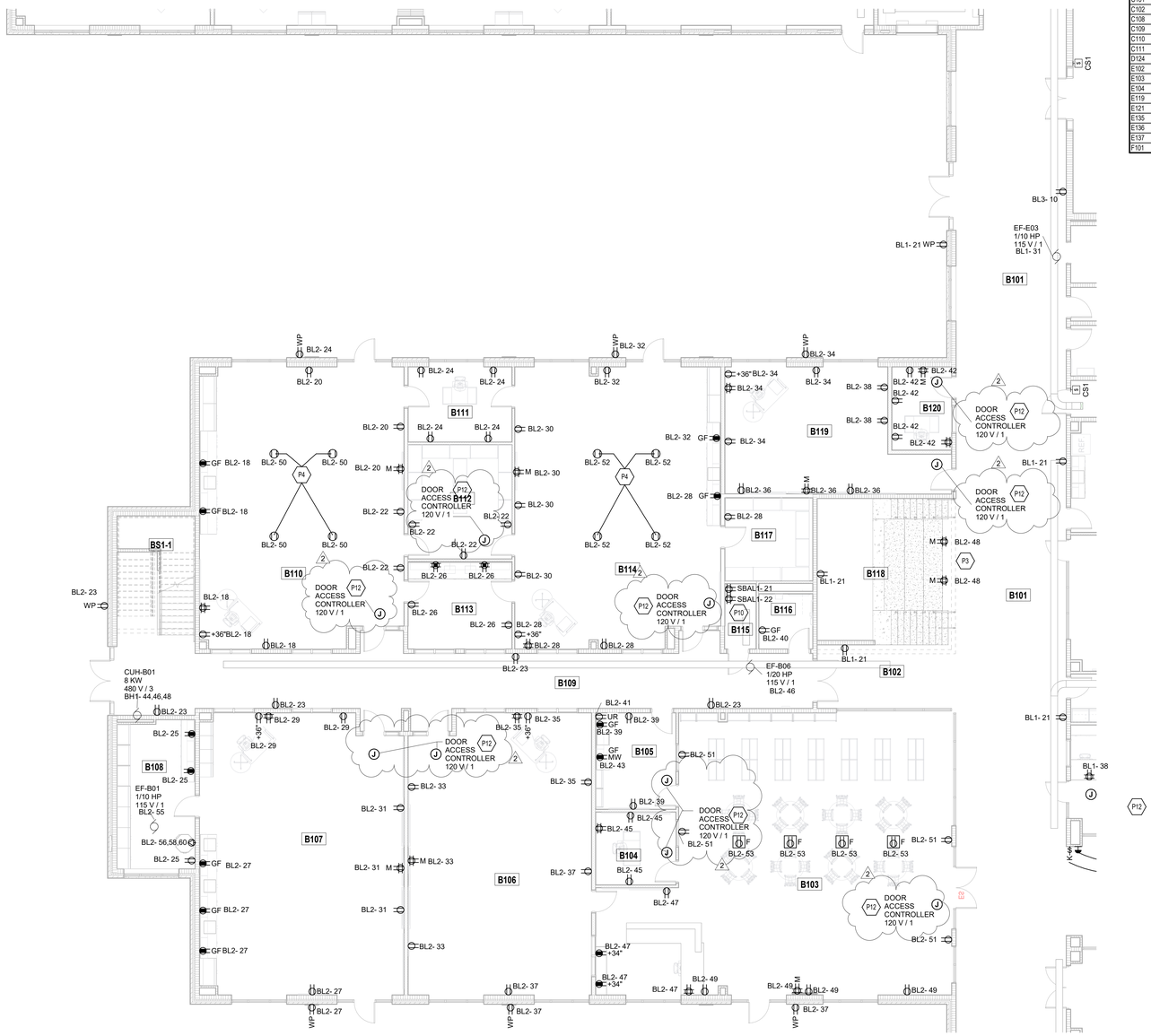
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ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	943 SF
D124	CAFETERIA	4442 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E119	RECEPTION	301 SF
E121	CLINIC	274 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF



FIRST FLOOR POWER PLAN UNIT B

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P3	DISPLAY MONITOR RECEPTACLE TO BE MOUNTED TO BULKHEAD ABOVE STAIRS. SEE EQUIPMENT PLANS FOR MORE INFORMATION.
P4	CEILING MOUNTED CORD REELS. CONNECT TO INDICATED CIRCUIT.
P10	TECHNOLOGY RACK(IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

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

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

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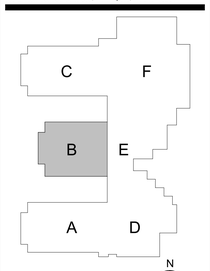
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803555 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

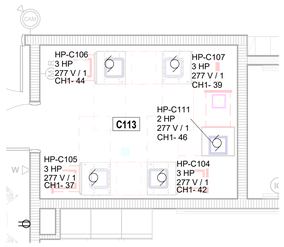
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT B

EP11B

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2 ENLARGED MECHANICAL ROOM C113

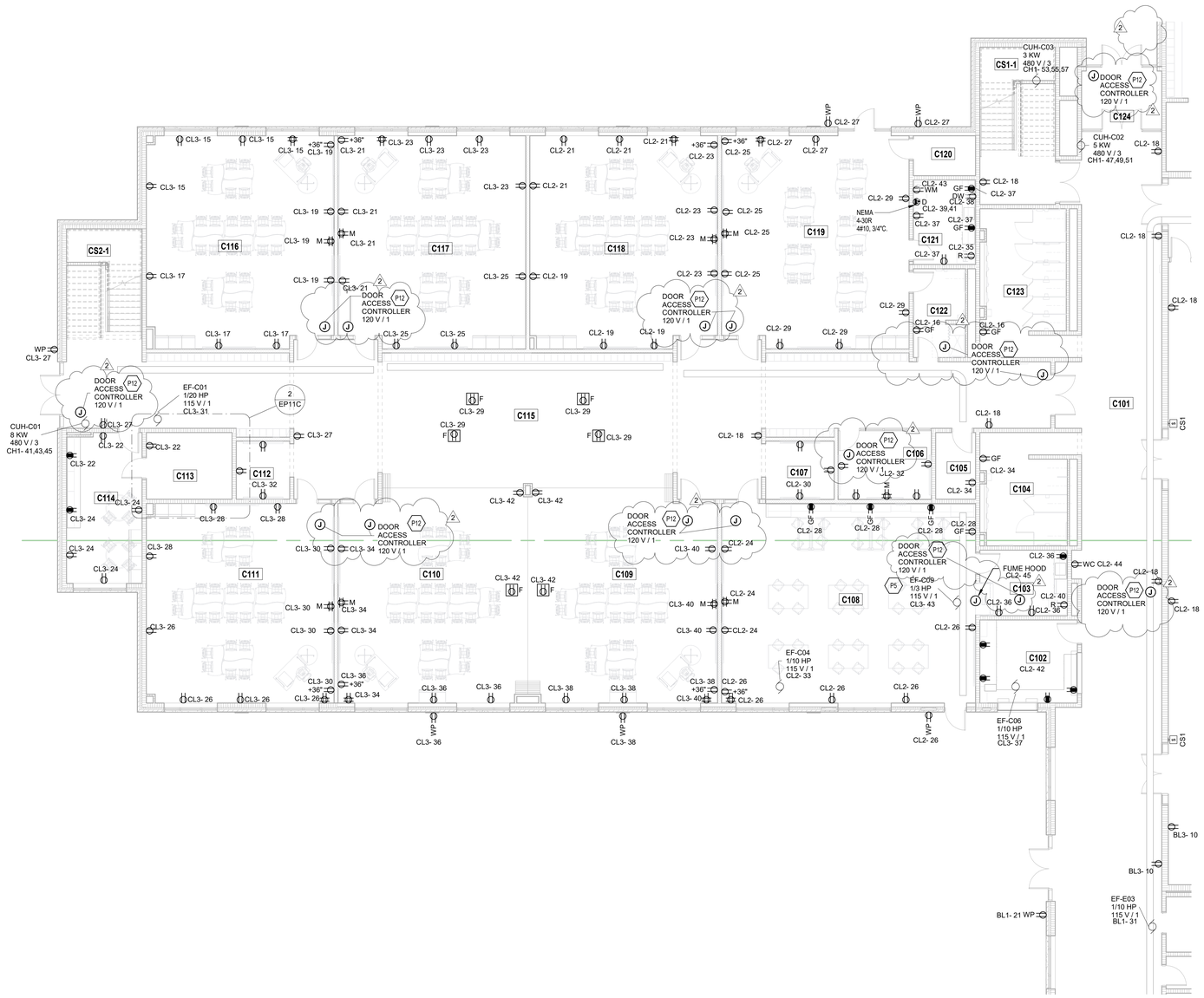
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
CS2-1	STAIR	220 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF



FIRST FLOOR POWER PLAN UNIT C

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P5	EXHAUST FAN TO BE CONTROLLED BY SWITCH ON THE FUME HOOD UNIT. REFER TO FUME HOOD UNIT MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

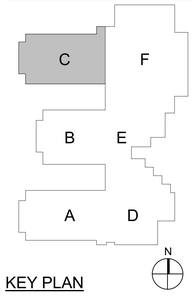
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

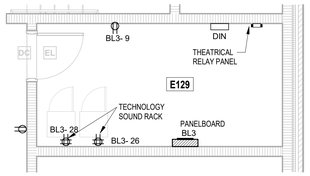
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT C

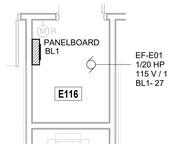
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2 ENLARGED SOUND LIGHT ELECTRICAL ROOM E129

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



3 ENLARGED ELECTRICAL ROOM E116

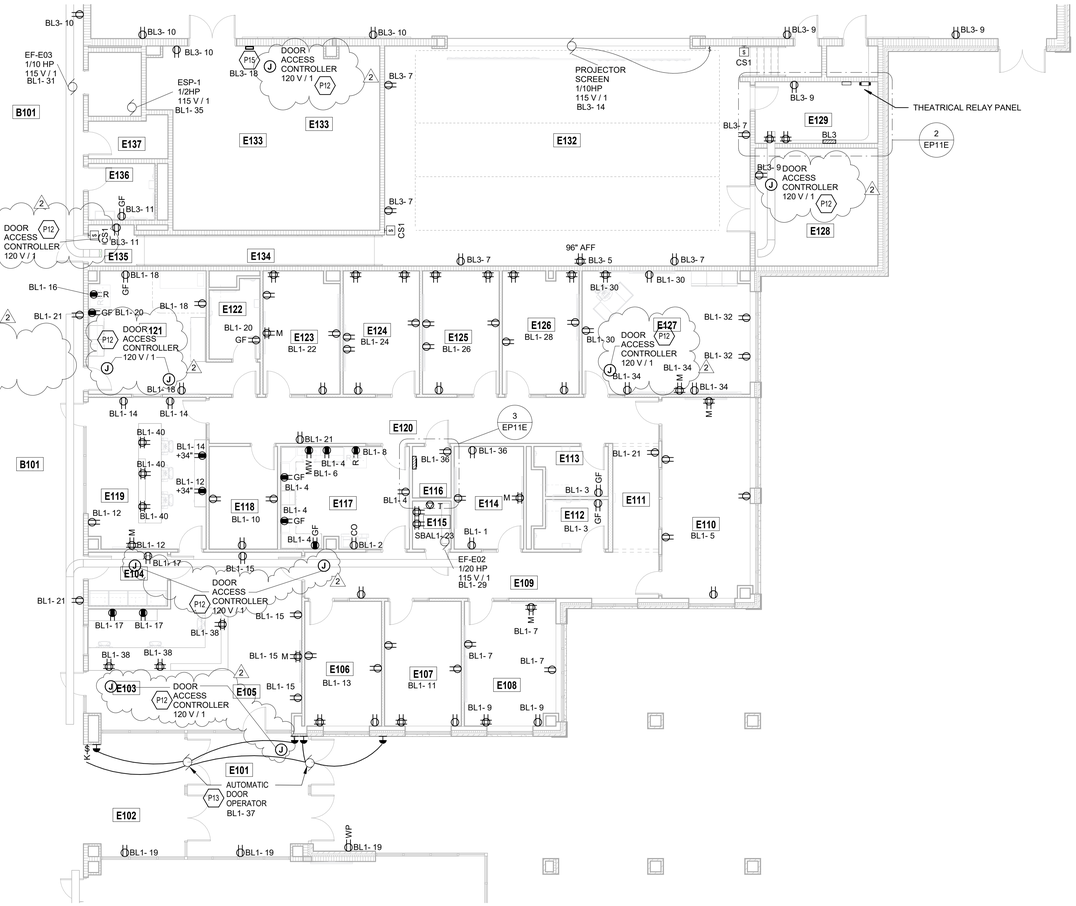
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D124	CAFETERIA	4442 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF



FIRST FLOOR POWER PLAN UNIT E

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P13	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS, AND KEYED SWITCH BY THE UNIT MANUFACTURER CONDUITS, WIRING, AND BACKBOXES BY THE DIVISION 26 CONTRACTORS PER THE MANUFACTURERS REQUIREMENT. VERIFY THE EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
P15	BACKSTOP AND DIVIDER CURTAIN TOUCH PAD. PROVIDE POWER AND CONTROL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

VERIFICATION NOTE

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

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

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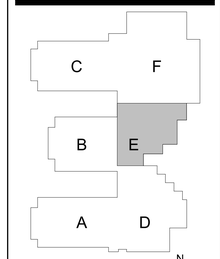
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800035 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

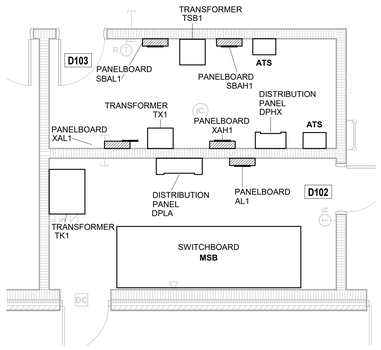
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT E

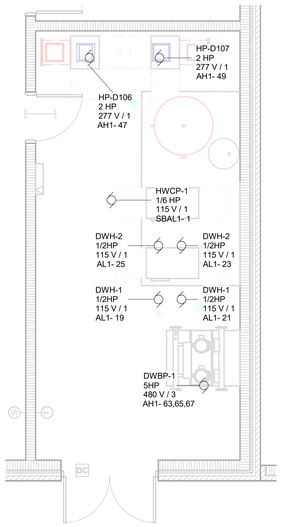
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ENLARGED ELECTRICAL ROOMS D102 AND D103

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

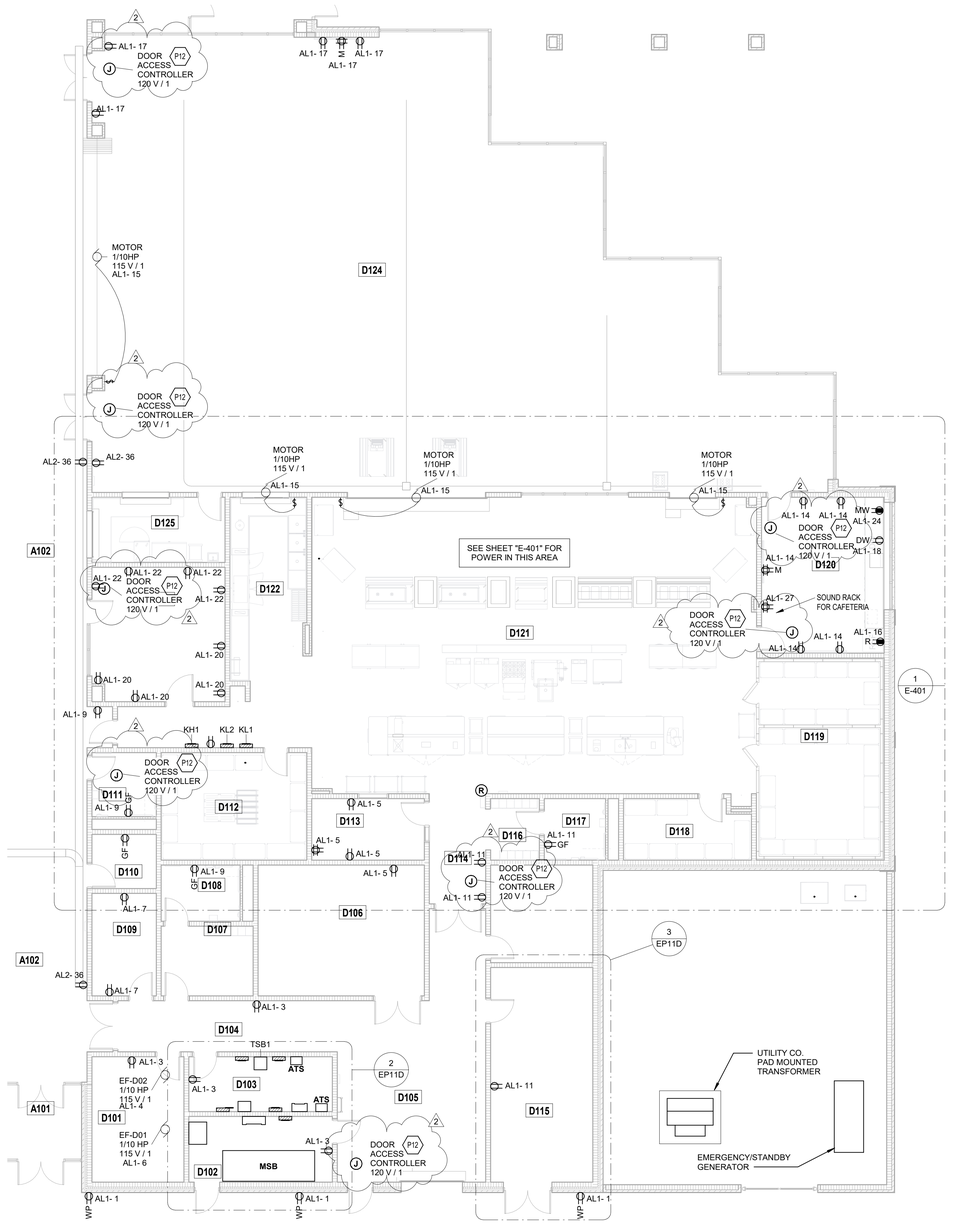


ENLARGED MECHANICAL ROOM D115

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

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.



FIRST FLOOR POWER PLAN UNIT D

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2365 SF
D122	DISHWASHING	240 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

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

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

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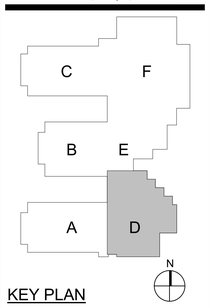
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

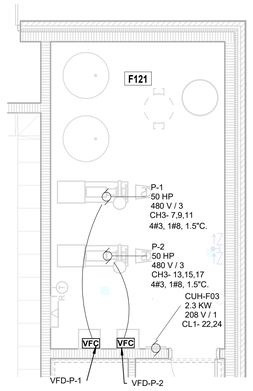
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT D

EP11D

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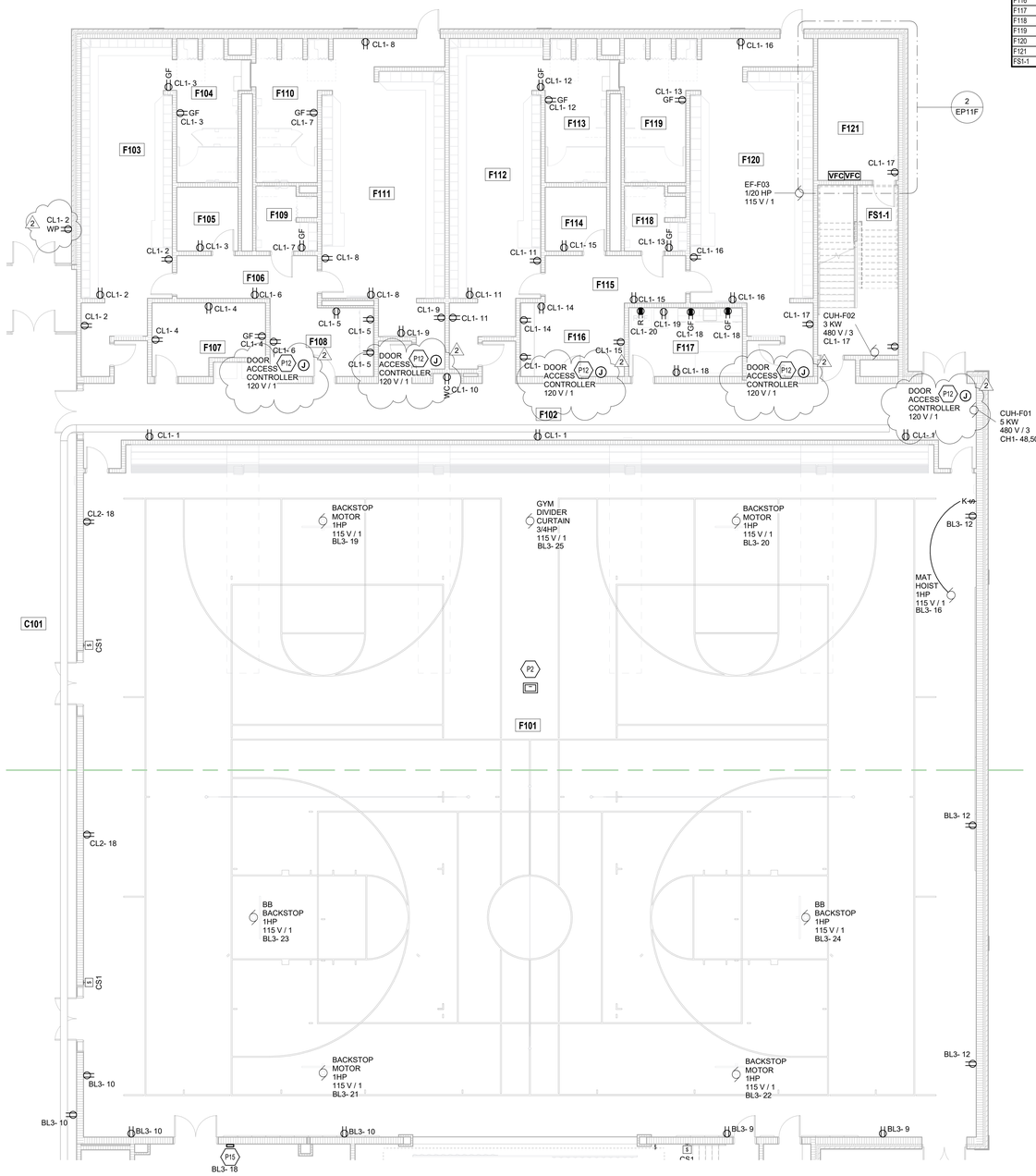


2 ENLARGED MECHANICAL ROOM F121

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

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.



FIRST FLOOR POWER PLAN UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C124	VESTIBULE	116 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
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5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P2	FLUSH MOUNTED FLOOR POCKET. REFER TO DETAIL "1/AE5.02" FOR REQUIREMENTS INSTALL SO THAT TOP SURFACE OF FLOOR POCKET COVER IS ABSOLUTELY FLUSH AND LEVEL WITH FINISH FLOOR SURFACE.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P15	BACKSTOP AND DIVIDER CURTAIN TOUCH PAD. PROVIDE POWER AND CONTROL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

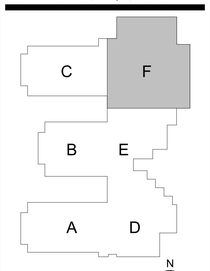
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR POWER PLAN - UNIT F

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FIRST FLOOR FIRE ALARM PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1148 SF
A118	HUDDLE	90 SF
A119	SGI	147 SF
A120	SENSORY	60 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
AS2-1	STAIR	220 SF
D101	STORAGE	196 SF
D104	CORRIDOR	191 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D121	KITCHEN / SERVING	2365 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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5910 Central Ave., Portage, Indiana 46368

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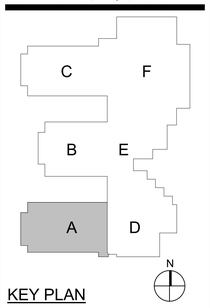
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ARCHITECT

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317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 11002005 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT A

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FIRST FLOOR FIRE ALARM PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF
C101	MAIN HALL	1111 SF
D124	CAFETERIA	4442 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E119	RECEPTION	301 SF
E121	CLINIC	274 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

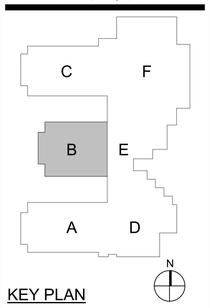
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ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19930000 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

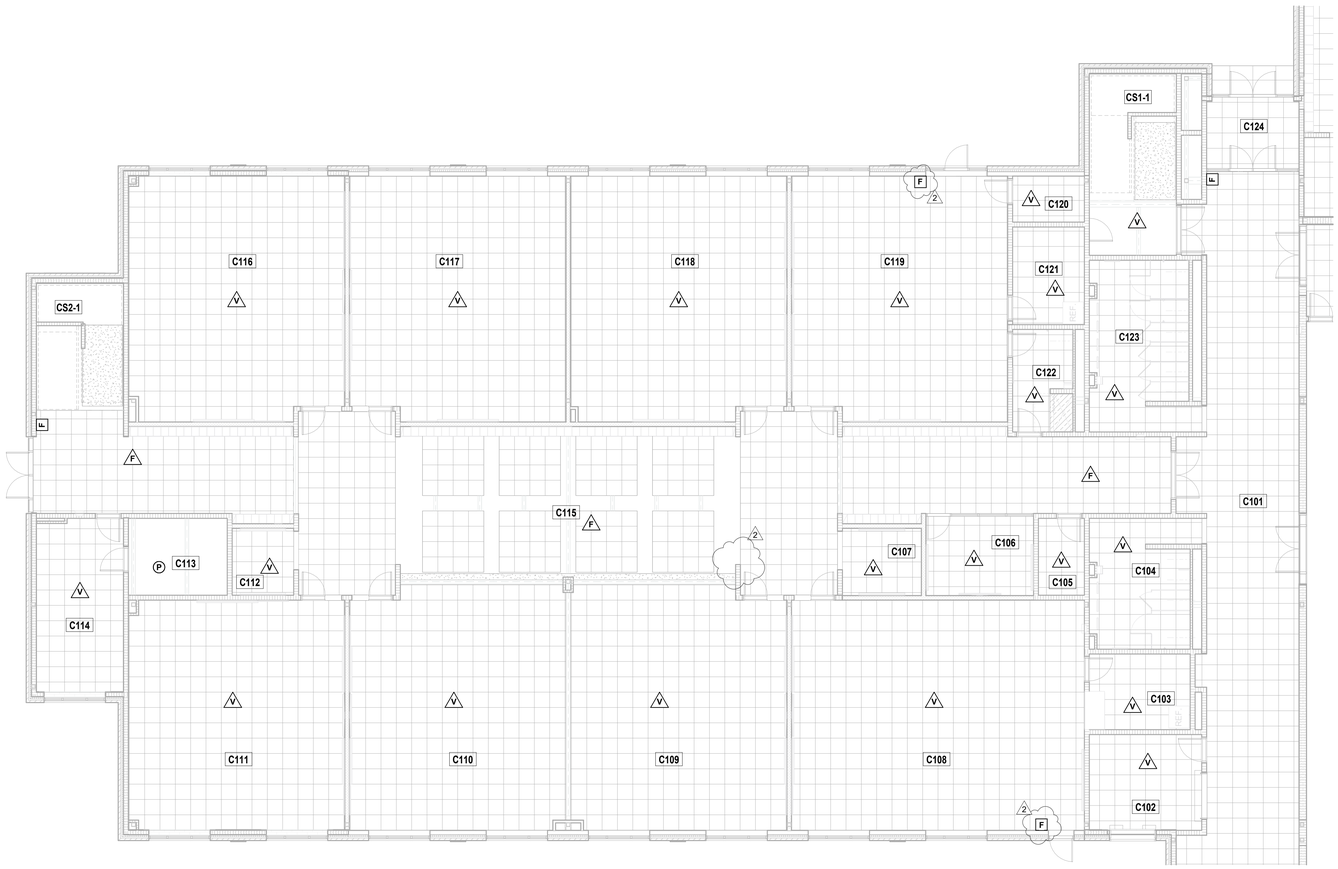
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT B

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FIRST FLOOR FIRE ALARM PLAN - UNIT C

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
CS2-1	STAIR	220 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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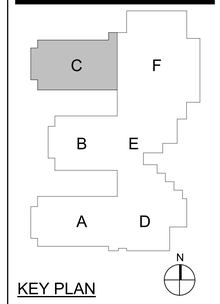
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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE11800025 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

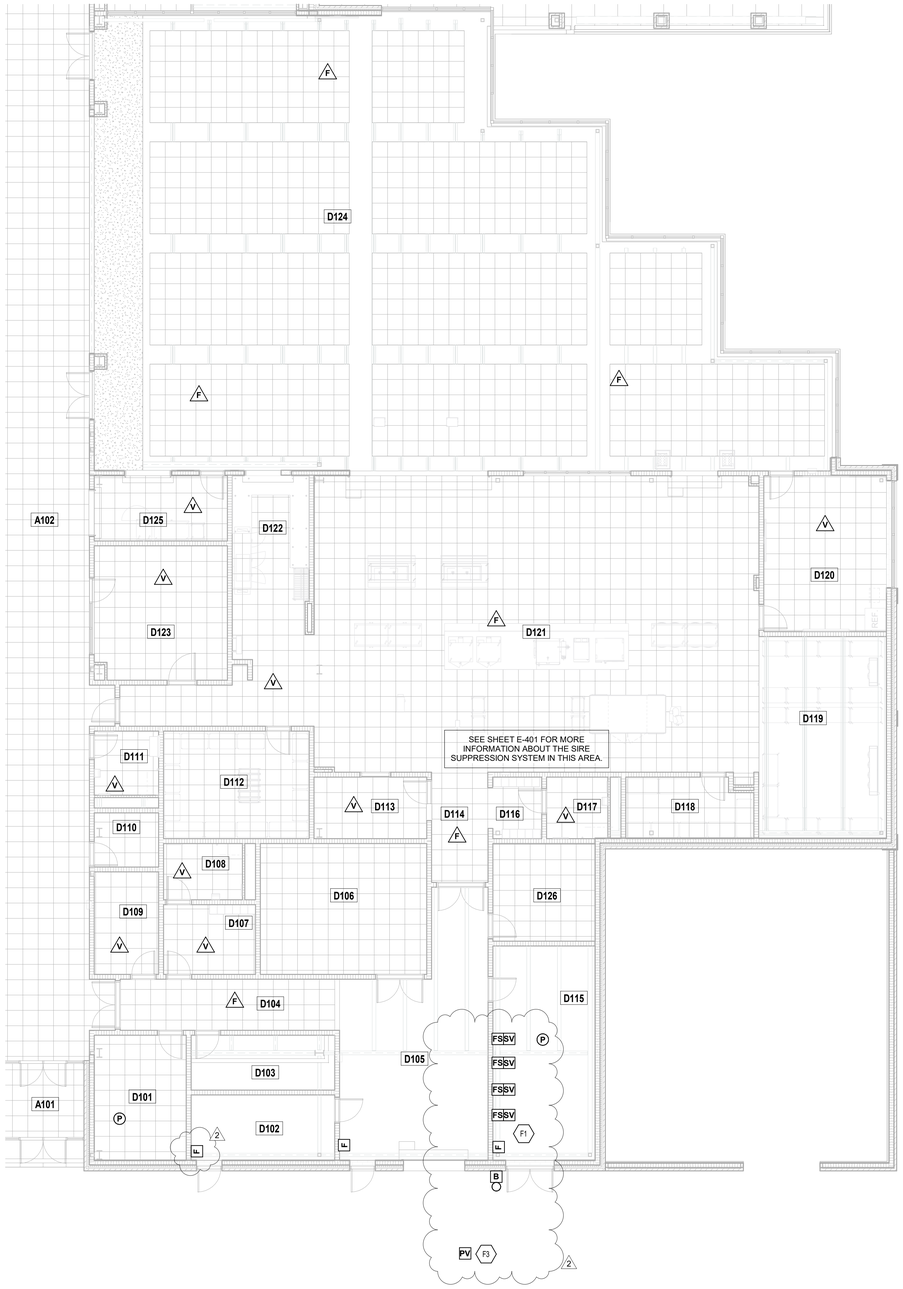
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT C

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FIRST FLOOR FIRE ALARM PLAN - UNIT D

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2365 SF
D122	DISHWASHING	240 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

F1	PROVIDE A FIRE ALARM SYSTEM CONNECTION TO FLOW SWITCHES, TAMPER SWITCHES, AND SUPERVISORY VALVES ON FIRE PROTECTION SYSTEM RISER. PROVIDE A FIRE ALARM BELL AND WIRE TO THE MAIN FIRE ALARM SYSTEM. THE BELL IS TO RING IN THE EVENT OF WATER FLOW DETECTED BY THE FLOW SWITCHES OR SUPERVISORY VALVES IN THE FIRE SUPPRESSION SYSTEM.
F3	PROVIDE FIRE ALARM SYSTEM CONNECTION TO POST INDICATOR VALVE. VERIFY EXACT LOCATION IN THE FIELD. COORDINATE WITH FIRE PROTECTION DRAWINGS.

VERIFICATION NOTE

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

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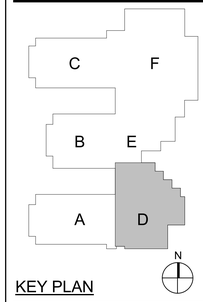
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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT D

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FIRST FLOOR FIRE ALARM PLAN - UNIT E

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D124	CAFETERIA	4442 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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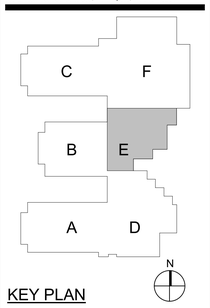
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900008 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

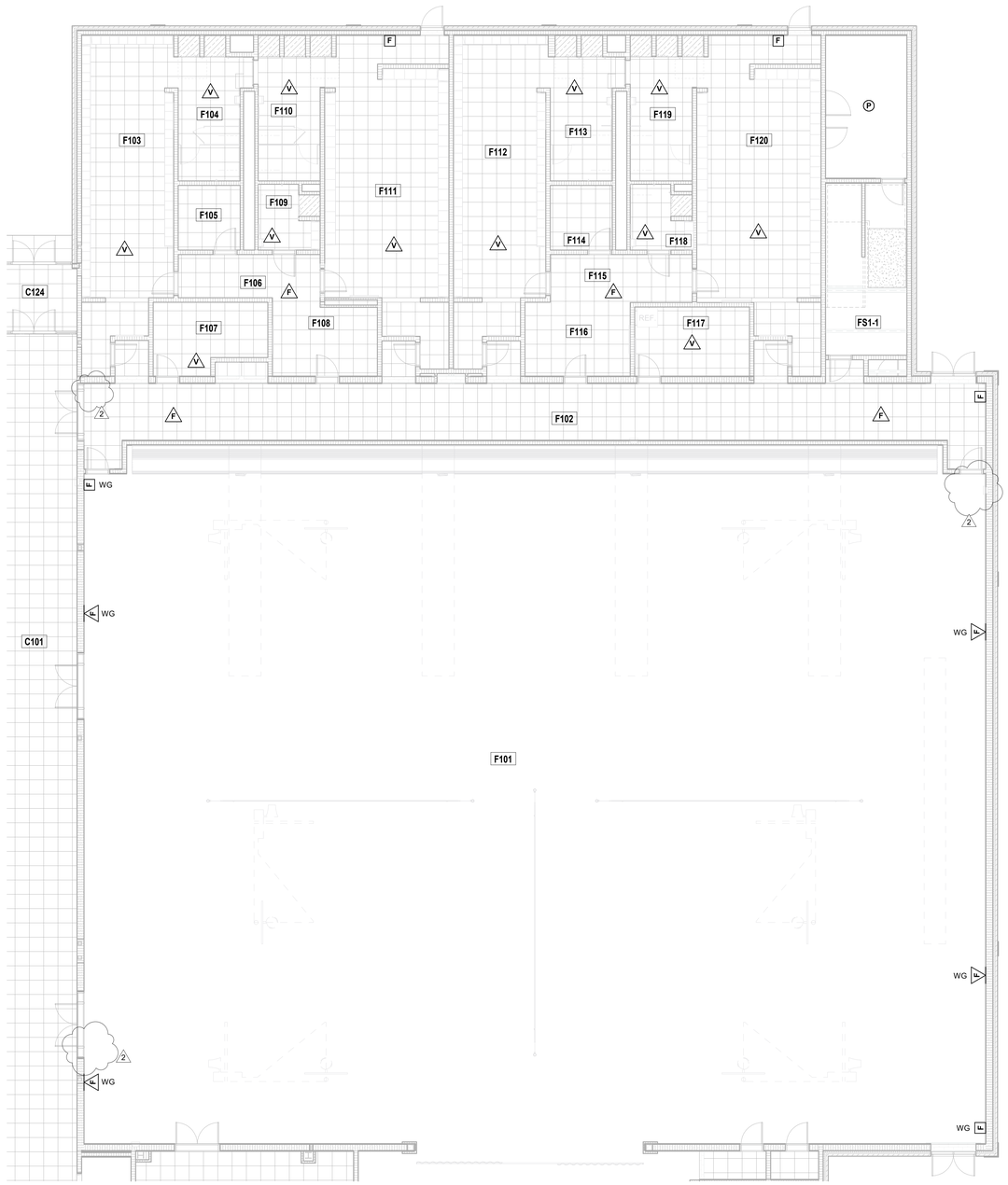
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT E

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FIRST FLOOR FIRE ALARM PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C124	VESTIBULE	116 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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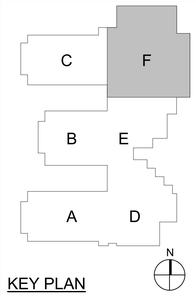
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ARCHITECT

FANNING HOWEY

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

FIRST FLOOR FIRE ALARM PLAN - UNIT F

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SECOND FLOOR FIRE ALARM PLAN UNIT A

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	891 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2366 SF
A210	TEACHERS	258 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1147 SF
A217	HUDDLE	93 SF
A218	SCI	107 SF
A219	SCI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
AS2-2	STAIR	227 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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

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

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5910 Central Ave., Portage, Indiana 46368

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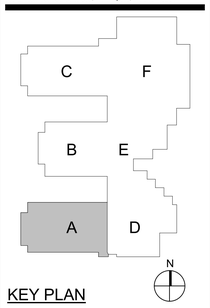
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT A

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SECOND FLOOR FIRE ALARM PLAN UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
BS1-2	STAIR	216 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20AMP, 120V CIRCUIT AS REQUIRED FOR ANY NAC PANEL ADDED.

FIRE ALARM NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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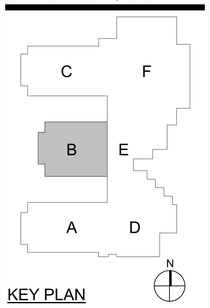
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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900006 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

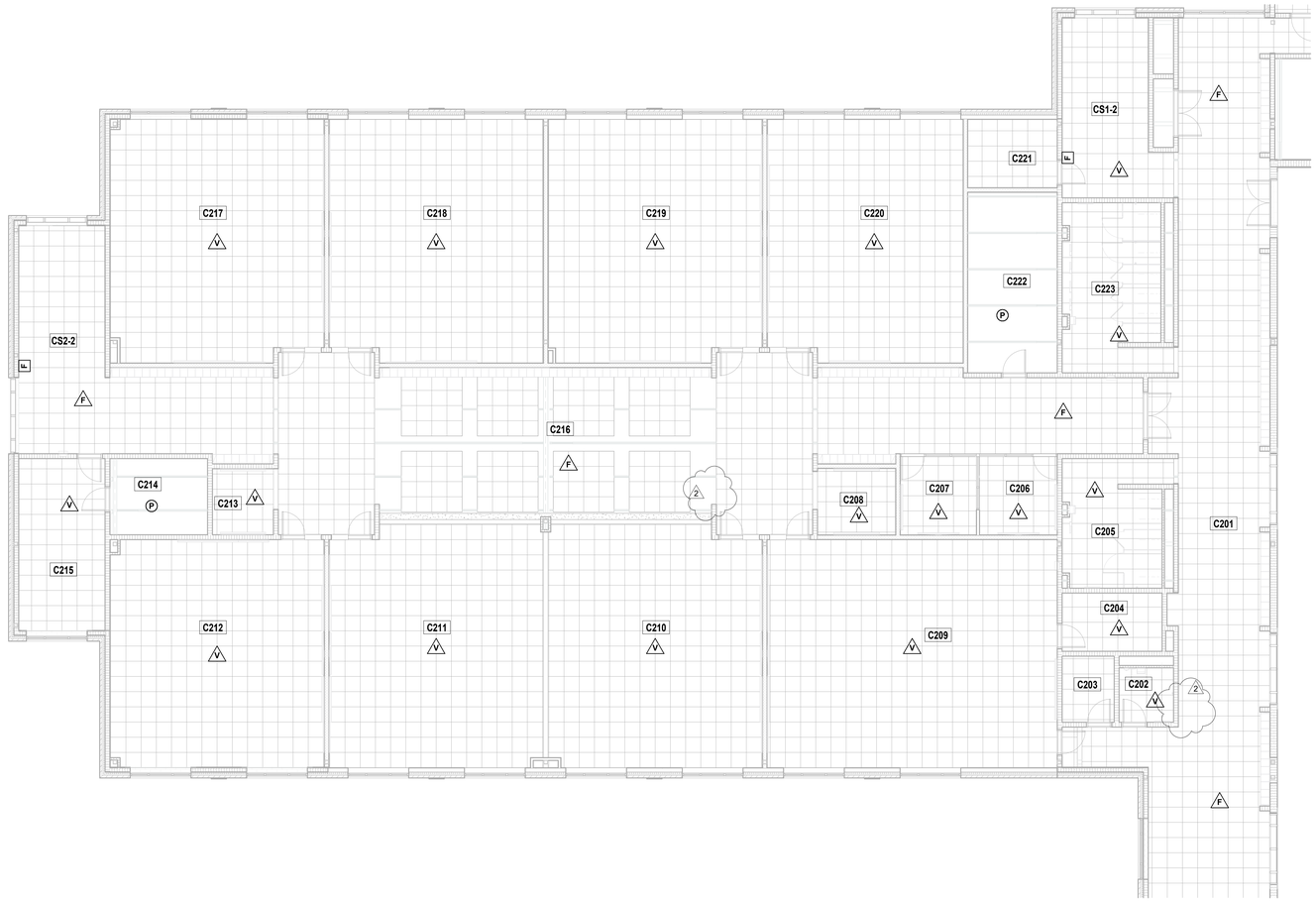
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT B

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SECOND FLOOR FIRE ALARM PLAN UNIT C

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF

FIRE ALARM PLAN GENERAL NOTES

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
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2

FIRE ALARM NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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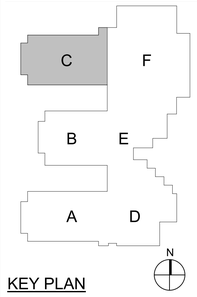
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

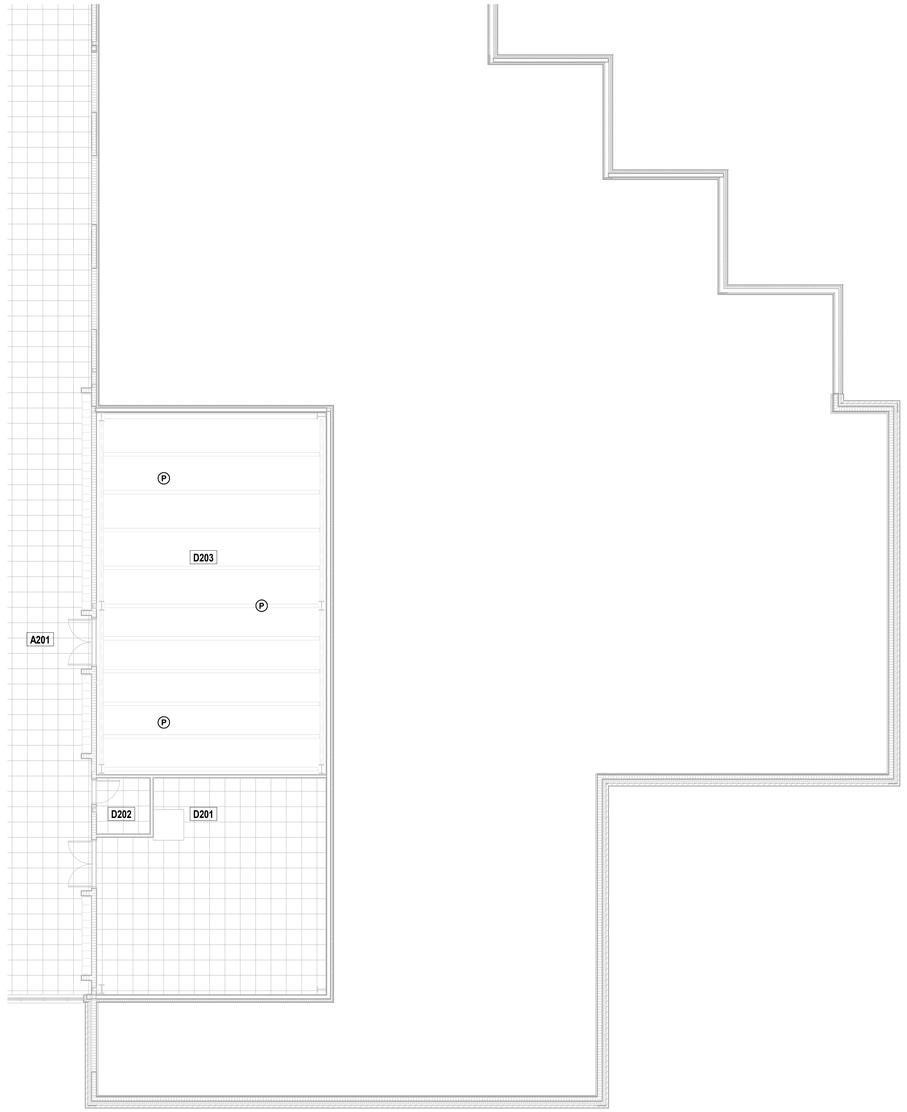
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT C

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SECOND FLOOR FIRE ALARM PLAN UNIT D

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF

FIRE ALARM PLAN GENERAL NOTES

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2

FIRE ALARM NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

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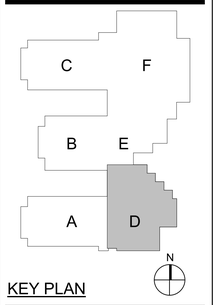
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

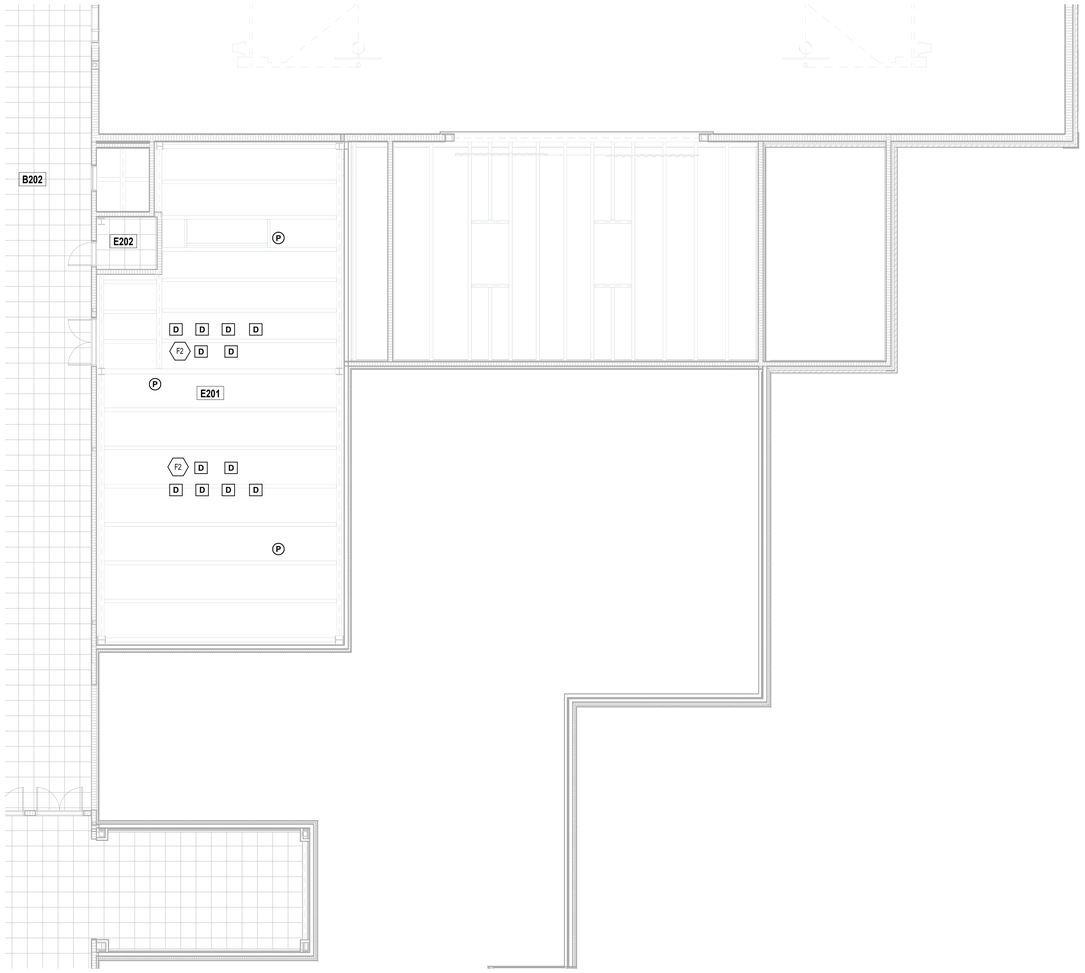
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT D

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SECOND FLOOR FIRE ALARM PLAN UNIT E

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

FIRE ALARM PLAN GENERAL NOTES

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2

FIRE ALARM NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
F2	PROVIDE DUCT MOUNTED SMOKE DECTECTORS ON EACH OF THE SUPPLY AND RETURN AIR DUCTS FOR THE DOAS MECHANICAL UNITS. COORDINATE WITH DIVISION 23.

VERIFICATION NOTE

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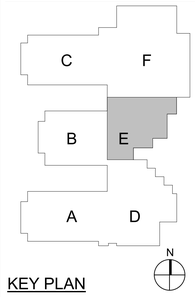
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

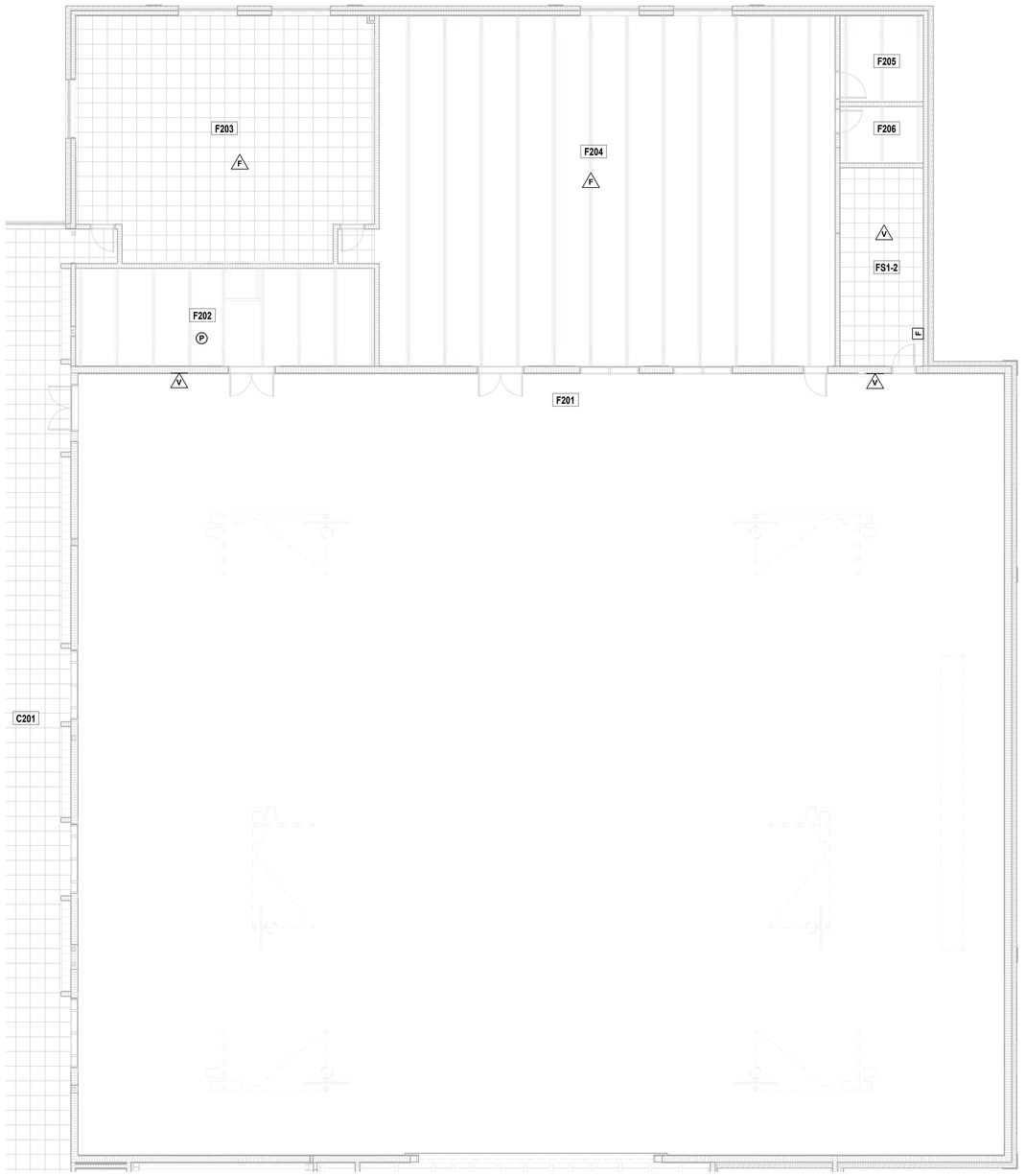
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT E

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SECOND FLOOR FIRE ALARM PLAN UNIT F

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
E201	MECHANICAL	1995 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	FITNESS	2985 SF
F205	STORAGE	133 SF
F206	ELECTRICAL	87 SF
FS1-2	STAIR	307 SF

FIRE ALARM PLAN GENERAL NOTES

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2

FIRE ALARM NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

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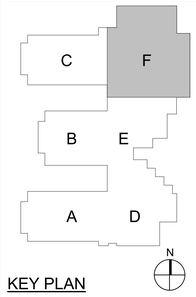
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

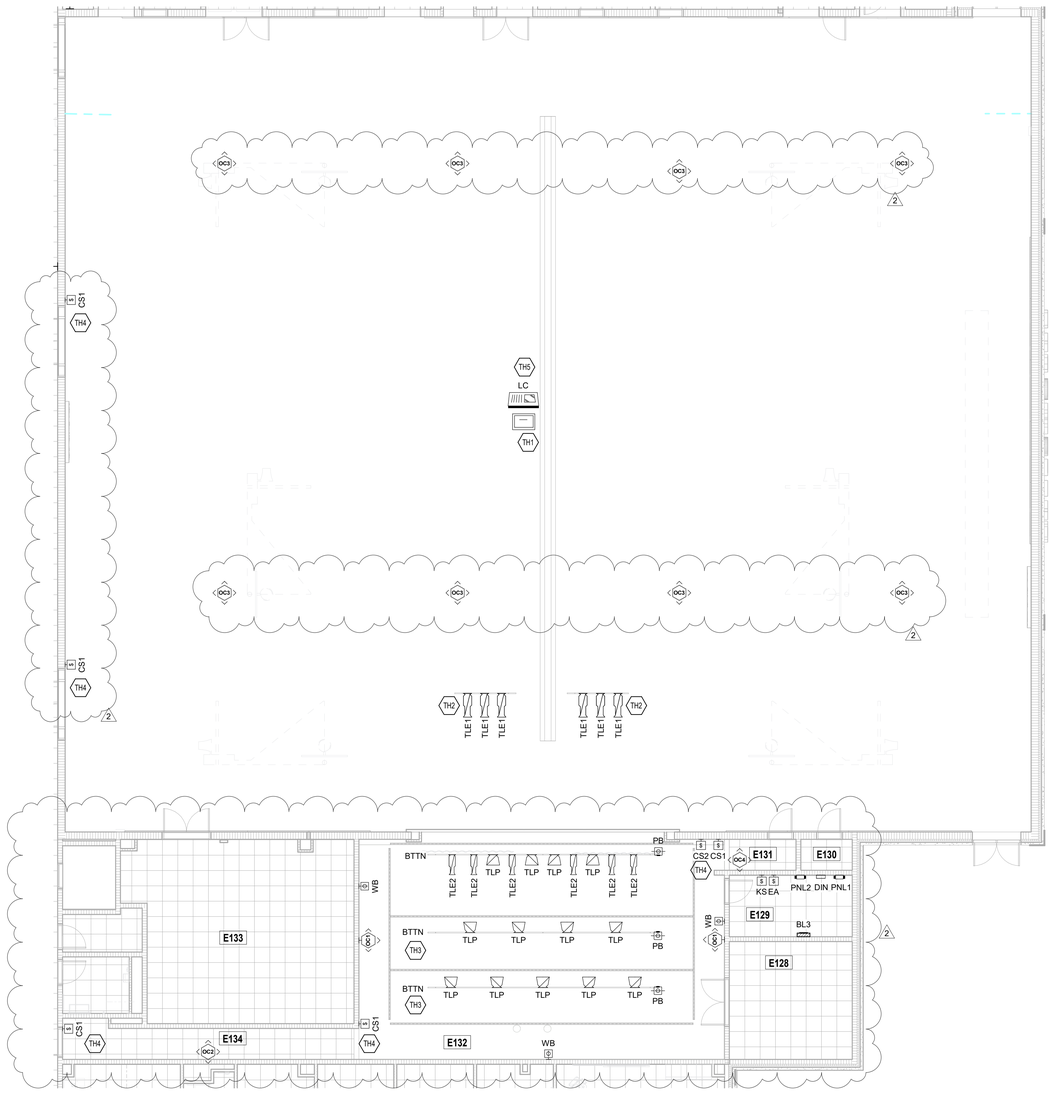
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SECOND FLOOR FIRE ALARM PLAN UNIT F

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STAGE LIGHTING PLAN

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	159 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F120	BOYS TEAM LOCKER	705 SF
F201	BALCONY	1137 SF

SHEET KEYNOTES

TH1	PROVIDE DMX INPUT IN GYM FLOOR BOX. REFER TO FLOOR BOX DETAIL "1/AE-502" AND SHEET "EP12F" FOR LOCATION AND ADDITIONAL INFORMATION.
TH2	MOUNT ELLIPSOIDAL FIXTURES TO STRUCTURE AT A MINIMUM OF 26'-0" AFF. RUN ALL CABLES AND CONDUIT BELOW ROOF DECK WITH APPROPRIATE SUPPORTS.
TH3	PROVIDE SCHEDULE 40 PIPE BATTENS OF 30'-0" LENGTH TO BE HUNG AT 16'-0" AFF. SEE SPECIFICATIONS FOR MORE INFORMATION.
TH4	REFER TO SHEET "EL11E", SHEET "EL11F", AND THEATRICAL CONTROL DETAILS ON SHEET "E-503" FOR MORE INFORMATION ON CONTROL STATIONS AND PRESETS.
TH5	LIGHTING CONSOLE TO BE STORED IN ROOM E129.

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

VERIFICATION NOTE

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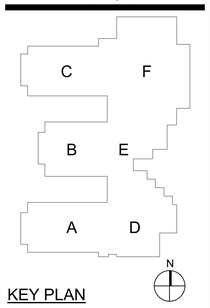
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ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19930005 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25

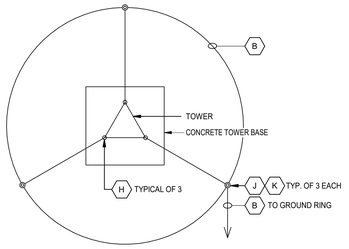
STAGE LIGHTING PLAN

E-403

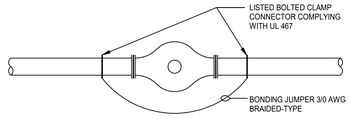
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GROUNDING CODED NOTES:

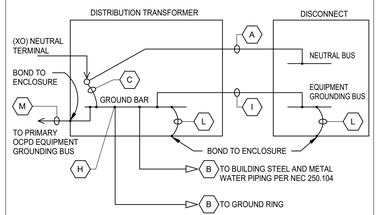
#	NOTE
A	GROUNDING ELECTRODE CONDUCTOR. BARE, TINNED, STRANDED, COPPER-CONDUCTOR. (30 INCHES BELOW GRADE. MIN.) (24 INCHES FROM FOUNDATION, MIN.) FOR ELECTRICAL SERVICE OF 800 AMP OR LESS USE #2/0 AWG. FOR ELECTRICAL SERVICE GREATER THAN 800 AMP USE #4/0 AWG.
B	GROUNDING CONDUCTOR. 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR.
C	IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO CABLE)
D	IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO TRAY) BOND EACH SECTION, TRANSISTION, RISER, TEE, ETC.
E	MAIN BONDING JUMPER PROVIDED BY MANUFACTURER AS PART OF LISTED AND LABELED SERVICE EQUIPMENT. IF NOT PROVIDED BY MANUFACTURER, PROVIDE #4/0 BARE, TINNED, STRANDED, COPPER-CONDUCTOR.
F	GROUNDING ELECTRODE CONDUCTOR: #4/0 AWG STRANDED, BARE, COPPER IN PVC CONDUIT.
G	GROUNDED CONDUCTOR (NEUTRAL): (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE).
H	PROVIDE UL 467 LISTED COMPRESSION CONNECTORS, TWO-HOLE LUGS.
I	SYSTEM BONDING JUMPER CONDUCTOR. SYSTEM BONDING JUMPER CONDUCTOR TO BE RUN IN EACH CONDUIT CONTAINING PHASE CONDUCTORS BETWEEN TRANSFORMER AND MAIN SECONDARY DISCONNECT. (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE)
J	8 FOOT BY 5/8" COPPER WELD GROUND ROD. TOP OF ROD SHALL BE 12" MINIMUM BELOW FINISHED GRADE.
K	PROVIDE EXOTHERMIC WELD FOR ALL CABLE TO ROD, CABLE TO CABLE, OR CABLE TO STEEL CONNECTIONS.
L	EQUIPMENT BONDING JUMPER STRANDED, BARE, COPPER. (<110A USE #6, <410A USE #2, <810A USE #2/0, <2100A USE #4/0) SCREW OF BUSBAR MAY BE USED WHEN PROVIDED AS PART OF LISTED SERVICE EQUIPMENT.
M	EQUIPMENT GROUNDING CONDUCTOR (REFER TO ONE LINE DIAGRAM FOR CONDUCTOR SIZE).
N	TELECOMMUNICATIONS BONDING BACKBONE: #4/0 AWG STRANDED BARE COPPER.
O	BONDING CONDUCTOR: 6 AWG STRANDED BARE COPPER.
P	1" PVC SLEEVE FOR ALL GROUNDING CONDUCTORS THROUGH FLOOR SLABS. NEVER ROUTE GROUNDING CONDUCTORS IN A METAL CONDUIT.
Q	PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
R	PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 2" x 12" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS, "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
S	PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "WARNING - SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE (GENERATOR) IS ENERGIZED".
T	CONTINUOUS, UNSPLICED BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR IN CABLE TRAYS.
U	BRAIDED ALUMINUM CABLE FOR LIGHTING DOWNRUNNER. SUPPORT SPACING PER NFPA 780.
X	WELD A MINIMUM 6" x 3" x 1/4" STEEL PLATE TO UNDERSIDE OF BOTTOM FLANGE OF ROOF JOIST. THE STEEL PLATE SHALL BE WELDED TO THE BOTTOM FLANGE USING A NORMAL WELDING PROCEDURE WITH WELDS PARALLEL TO THE BOTTOM FLANGE ALONG THE EDGE. THEN BOND THE GROUNDING CONDUCTOR TO THE STEEL PLATE AT LEAST 1" AWAY FROM FLANGE, USING AN EXOTHERMIC WELD.
Y	PROVIDE WRAP AROUND PLASTIC LABEL ON EACH CONDUCTOR AT GROUND BAR. IDENTIFY WHAT THE CABLE IS CONNECTED TO.



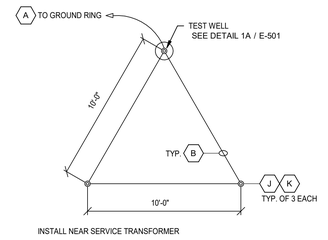
4E RADIO TOWER GROUNDING DETAIL
NOT TO SCALE



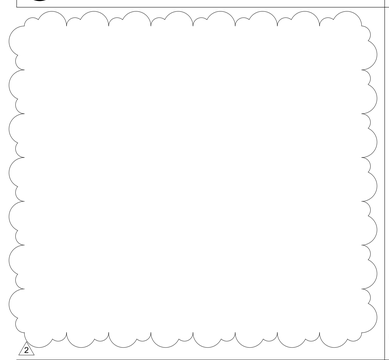
3E TYP. BONDING JUMPER PER WATER METER
NOT TO SCALE

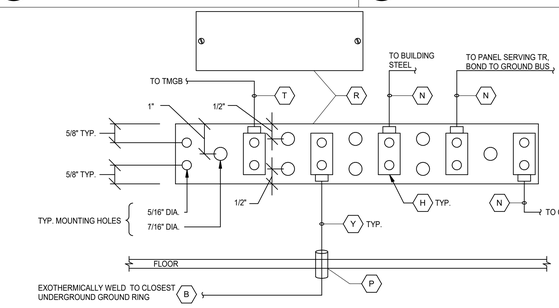


2E DISTRIBUTION TRANSFORMER GROUNDING DETAIL
NOT TO SCALE

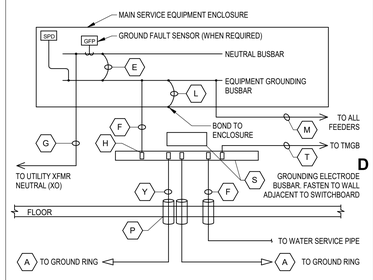


1E TYPICAL GROUNDING TRIANGLE DETAIL
NOT TO SCALE

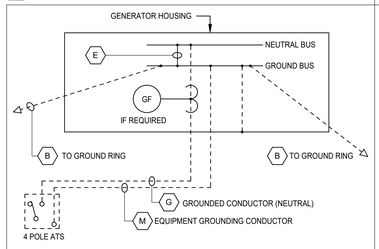




3D TYPICAL TR TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NOT TO SCALE

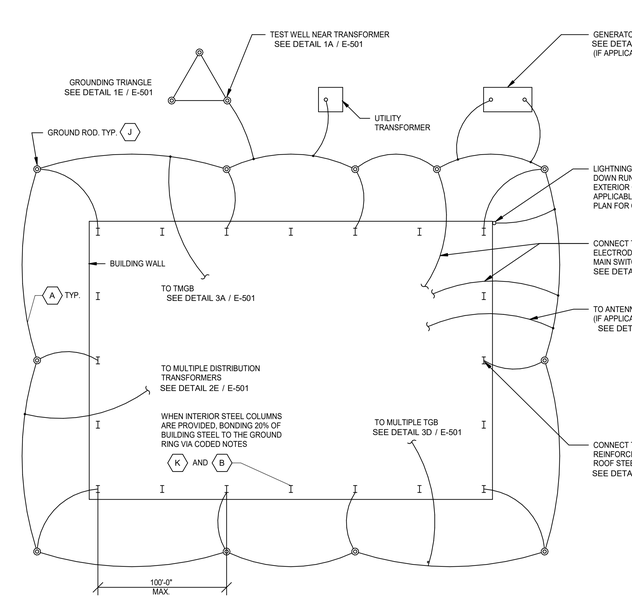


1D MAIN SERVICE GROUNDING ELECTRODE BUSBAR DETAIL
NOT TO SCALE



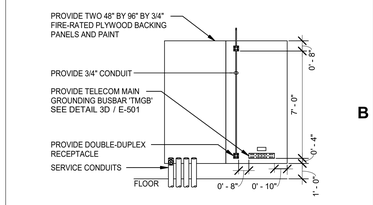
TYPICAL 4 POLE ENGINE GENERATOR GROUNDING

4C TYPICAL 3/4 POLE ENGINE GENERATOR GROUNDING DETAIL
NOT TO SCALE

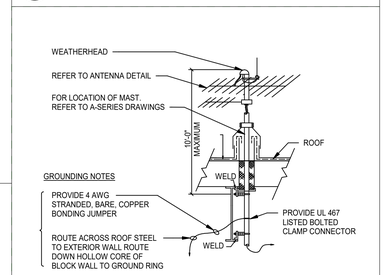


3B TYPICAL MASONRY BUILDING GROUND RING DETAIL
NOT TO SCALE

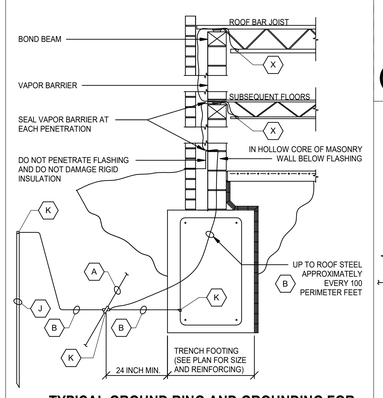
1C TYPICAL TR BACKBOARD
NOT TO SCALE



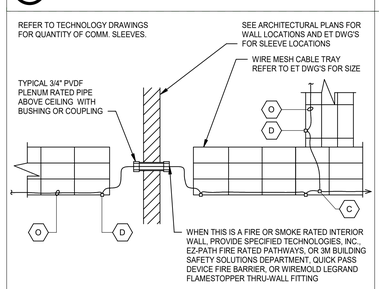
TYPICAL MAIN TELEPHONE/MC/ER BACKBOARD
1B NOT TO SCALE



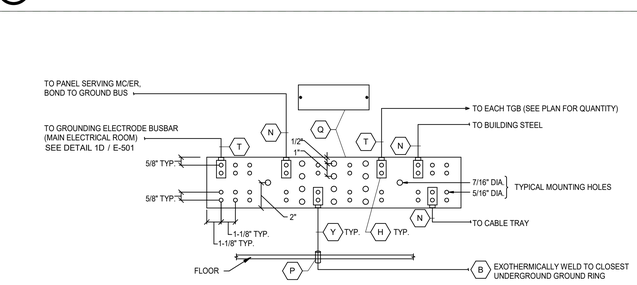
4B ANTENNA MAST GROUNDING DETAIL
NOT TO SCALE



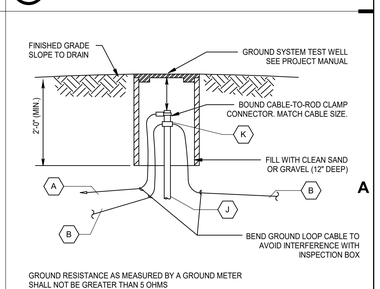
5A TYPICAL GROUND RING AND GROUNDING FOR MASONRY BUILDING STRUCTURE DETAIL
NOT TO SCALE



4A CABLE TRAY GROUNDING AT WALL (PLAN VIEW)
NOT TO SCALE



3A TYPICAL MC/ER TELECOM MAIN GROUNDING BUSBAR (TMGB) DETAIL
NOT TO SCALE



1A GROUND TEST WELL DETAIL
NOT TO SCALE

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10808 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

ELECTRICAL DETAILS

E-501

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5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

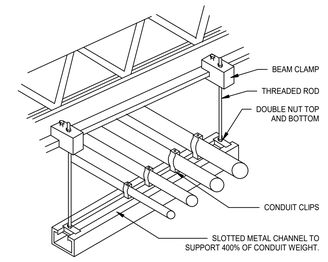
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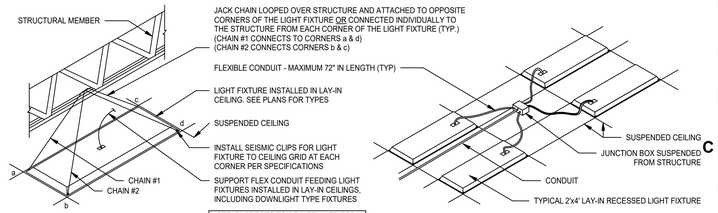
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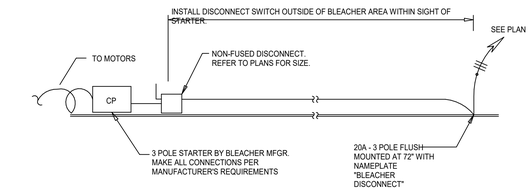
350 E. New York St. Suite 300, Indianapolis, Indiana 46204



1D 2.5" & UP CONDUIT SUPPORT DETAIL
NOT TO SCALE

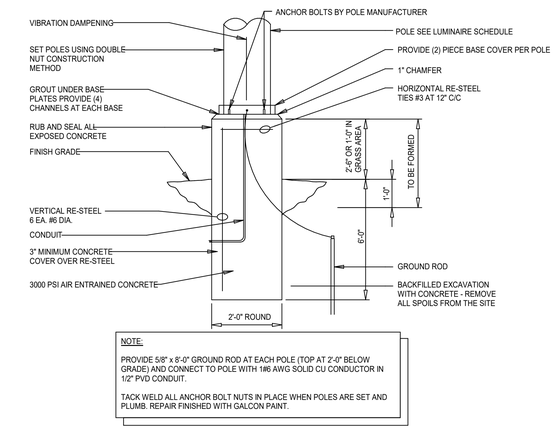


1C RECESSED LIGHT FIXTURE SUPPORT
NOT TO SCALE

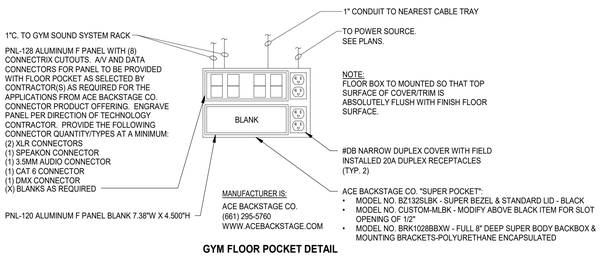


NOTE: COORDINATE EXACT LOCATION OF THE ROUGH-IN AND MOTOR CONNECTIONS WITH BLEACHER SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.

1B MOTORIZED BLEACHER DETAIL
NOT TO SCALE



3A LIGHTING POLE FOUNDATION DETAIL (15'-6" TO 30'-0" LONG)
NOT TO SCALE



GYM FLOOR POCKET DETAIL

1A GYM AND STAGE FLOOR POCKET DETAIL
NOT TO SCALE

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

ELECTRICAL DETAILS

E-502

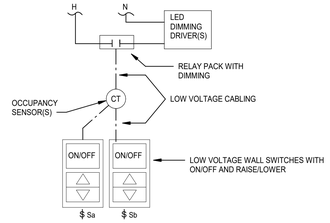
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LIGHTING SEQUENCE OF OPERATIONS NOTES:

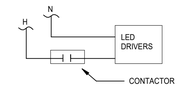
1. PROVIDE RELAY PACKS AS REQUIRED TO PERFORM NECESSARY SEQUENCE OF OPERATIONS FOR EACH LISTED ABOVE.
2. PROVIDE LOW VOLTAGE WIRING PER MANUFACTURERS RECOMMENDATION.
3. ALL SWITCHES SHALL BE DECOR STYLE.
4. WHERE MULTIPLE CONTROL SWITCHES ARE IN THE SAME LOCATION, THEY SHALL BE IN THE SAME BACK BOX WITH SINGLE FACE PLATE
5. QUANTITY OF OCCUPANCY/VACANCY SENSORS AND SWITCHES SHALL BE PER PLANS.

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON TO 100% UPON OCCUPANCY AND AUTOMATICALLY SWITCHED OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. OCCUPANCY SENSORS CAN BE OVERRIDEN TO TURN LIGHTS OFF WITH MANUAL SWITCH. LIGHTS WILL REMAIN OFF UNTIL THE LIGHTS ARE MANUALLY TURNED ON BY SWITCH, AT WHICH TIME THE OCCUPANCY SENSORS WILL CONTROL LIGHTS AS DESCRIBED ABOVE.
3. Sa - CONTROLS TEACHING WALL FIXTURES.
4. Sb - CONTROLS REST OF ROOM FIXTURES.
5. ONCE LIGHTING IS SWITCHED ON, LIGHTS MAY BE DIMMED THROUGH RAISE/LOWER BUTTONS ON WALL SWITCH. SWITCHING THE LIGHTS OFF VIA MANUAL SWITCH OR OCCUPANCY SENSOR WILL CLEAR ANY SET DIMMING LEVEL.



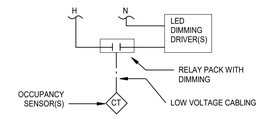
3D LIGHTING CONTROLS - CLASSROOM
NOT TO SCALE

1. FIXTURES SHALL BE CONTROLLED BY BUILDING AUTOMATION SYSTEM.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



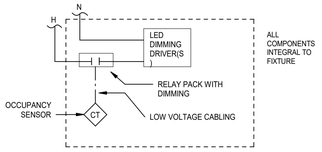
2E LIGHTING CONTROL - BUILDING EXTERIOR
NOT TO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON UPON OCCUPANCY. LIGHTING IS SWITCHED OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



1E LIGHTING CONTROL - LOBBIES/VESTIBULES
NOT TO SCALE

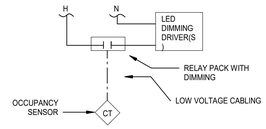
1. FIXTURES SHALL HAVE INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR.
2. FOOTCANDLE THRESHOLD TO BE SET TO 5 FC.
3. WHEN LIGHT LEVEL IS BELOW 5 FC FIXTURES TO TURN ON TO 50%.
4. WHEN FIXTURE IS ON AND OCCUPANCY IS SENSED, FIXTURE TO OUTPUT AT 100%.
5. FIXTURE TO REDUCE OUTPUT BACK TO 50% WHEN NO OCCUPANCY IS SENSED FOR 15 MINUTES.



2D LIGHTING CONTROL - AREA POLE LIGHTS
NOT TO SCALE

LIGHTING SEQUENCE OF OPERATIONS - STAIRWELL:

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON TO 100% UPON OCCUPANCY. LIGHTING IS SWITCHED TO 50% BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.

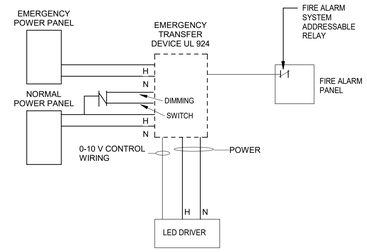


1D LIGHTING CONTROL - STAIRWELL
NOT TO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON TO 100% UPON OCCUPANCY. LIGHTING IS SWITCHED TO 50% BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.
3. DAYLIGHT SENSOR TO CONTINUOUSLY DIM FIXTURES TO MAINTAIN 40 FC IF APPLICABLE.

4C LIGHTING CONTROLS - OFFICES
NOT TO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING SHALL OPERATE WITH THE CONTROLS OF THE NORMAL LIGHTING IN THE SPACE UNTIL AN EMERGENCY SCENARIO IS TRIGGERED VIA FIRE ALARM SYSTEM OR NORMAL POWER LOSS. DURING AN EMERGENCY SCENARIO ALL EMERGENCY FIXTURES WILL BE OVERRIDEN TO TURN ON AT 100% OUTPUT UNTIL THE EMERGENCY SCENARIO IS OVER AND NORMAL CONTROLS RETURN.

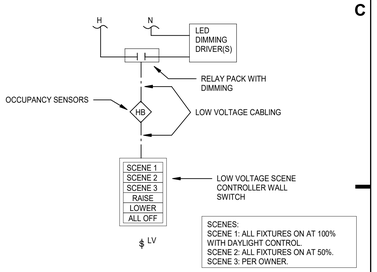


3C LIGHTING CONTROLS - EMERGENCY/FIRE ALARM
NOT TO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS SWITCHED ON BY OCCUPANCY SENSOR AND SWITCHED OFF AFTER 15 MINUTES OF VACANCY.
2. HALLWAY LIGHTS SHALL BE CONTROLLED IN ZONES WITH ONE OCCUPANCY SENSOR PER ZONE.
3. SWITCH SHALL OVERRIDE FIXTURES ON/OFF.
4. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.

2C LIGHTING CONTROLS - CORRIDOR
NOT TO SCALE

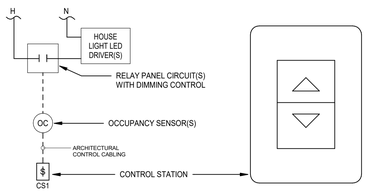
1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON UPON OCCUPANCY. LIGHTING IS THEN SWITCHED OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. SCENES SHALL BE DETERMINED BY OWNER
3. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.



1C LIGHTING CONTROL - DINING
NOT TO SCALE

CONTROL STATION 1 - SEQUENCE OF OPERATIONS :

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS AUTOMATICALLY SWITCHED ON TO 100% UPON OCCUPANCY AND AUTOMATICALLY SWITCHED OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. OCCUPANCY SENSORS CAN BE OVERRIDEN TO TURN LIGHTS OFF MANUALLY WITH CONTROL STATION. LIGHTS WILL REMAIN OFF UNTIL THE LIGHTS ARE MANUALLY TURNED ON BY THE CONTROL STATION, AT WHICH TIME THE OCCUPANCY SENSORS WILL CONTROL LIGHTS AS DESCRIBED ABOVE.
3. ONCE LIGHTING IS SWITCHED ON, LIGHTS MAY BE DIMMED THROUGH RAISE/LOWER BUTTONS ON CONTROL STATION. SWITCHING THE LIGHTS OFF VIA CONTROL STATION OR OCCUPANCY SENSOR WILL CLEAR ANY SET DIMMING LEVEL.
4. PLUGGING IN A LIGHTING CONTROL CONSOLE TO THE SYSTEM WILL OVERRIDE THE OCCUPANCY SENSORS AND CONTROL STATIONS.



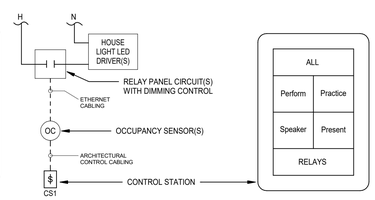
3A GYM / STAGE CONTROL STATION 1 - DETAIL
NOT TO SCALE

CONTROL STATION 2 - SEQUENCE OF OPERATIONS :

1. SYSTEM SHALL BE SET UP TO FUNCTION AS DESCRIBED IN "CONTROL STATION 1 - DETAIL".

CONTROL STATION 2 BUTTON FUNCTIONS:

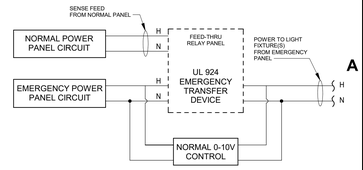
1. "ALL" - ON/OFF CONTROL OF ALL NON-THEATRICAL LIGHTS ABOVE STAGE AND IN GYM THIS INCLUDES ALL FIXTURES IN ROOM F101, F201, E135, E134, E132, AND E131 EXLUDING ELLIPSOIDALS AND PARS.
2. "Perform" - ON/OFF CONTROL OF PRESET 1 (DESCRIBED BELOW)
   A. ALL TLE FIXTURES AT 80% OUTPUT WITH AN OFF-WHITE WARM HUE
   B. ALL TLP FIXTURES AT 60% OUTPUT WITH A COOL HUE
   C. ALL "LH--" FIXTURES IN GYM AT 0% OUTPUT
3. "Practice" - ON/OFF CONTROL OF PRESET 2 (DESCRIBED BELOW)
   A. ALL TLE FIXTURES AT 80% OUTPUT WITH AN OFF-WHITE WARM HUE
   B. ALL TLP FIXTURES AT 60% OUTPUT WITH A COOL HUE
   C. ALL "LH--" FIXTURES IN GYM AT 80% OUTPUT
4. "Speaker" - ON/OFF CONTROL OF PRESET 3 (DESCRIBED BELOW)
   A. ALL TLE1 FIXTURES AT 80% OUTPUT WITH AN OFF-WHITE WARM HUE
   B. ALL "LH--" FIXTURES IN GYM AT 50% OUTPUT
5. "Present" - ON/OFF CONTROL OF PRESET 4 (DESCRIBED BELOW)
   A. ALL "LH--" FIXTURES IN THE GYM AT 50% OUTPUT
6. "RELAYS" - ON/OFF CONTROL OF STAGE LIGHTING RELAYS



2A STAGE CONTROL STATION 2 - DETAIL
NOT TO SCALE

EMERGENCY LIGHTING - SEQUENCE OF OPERATIONS:

1. ALL EMERGENCY LIGHTING FIXTURES SHALL BE ON A CIRCUIT WITH AN EMERGENCY TRANSFER DEVICE THAT WILL RECEIVE TWO SOURCES OF LINE VOLTAGE: ONE FROM AN EMERGENCY PANEL THAT SHALL PROVIDE THE POWER TO THE FIXTURES AND ANOTHER FROM A NON-EMERGENCY PANEL THAT SHALL PROVIDE A SENSE FEED TO DETECT THE LOSS OF NORMAL POWER.
2. IN THIS SPACE, THE UL 924 FEED-THRU RELAY PANEL, WILL ACT AS THE EMERGENCY TRANSFER DEVICE
3. EMERGENCY LIGHTING SHALL OPERATE IDENTICALLY TO THE ADJACENT NORMAL LIGHTING IN THE SPACE AT ALL TIMES UNTIL AN EMERGENCY SCENARIO TRIGGERS A LOSS OF NORMAL POWER.
4. WHILE THIS EMERGENCY SCENARIO IS IN AFFECT AND NORMAL POWER IS LOST, THE EMERGENCY TRANSFER DEVICE WILL BYPASS NORMAL LIGHTING CONTROLS SO ALL EMERGENGY FIXTURES SHALL BE ON AT 100% OUTPUT, REGARDLESS OF CONTROL STATION OR LIGHTING CONSOLE PRECEDENCE.



EMERGENCY TRANSFER DEVICE DIAGRAM

1A THEATRICAL EMERGENCY CONTROL - DETAIL
NOT TO SCALE

The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800108 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

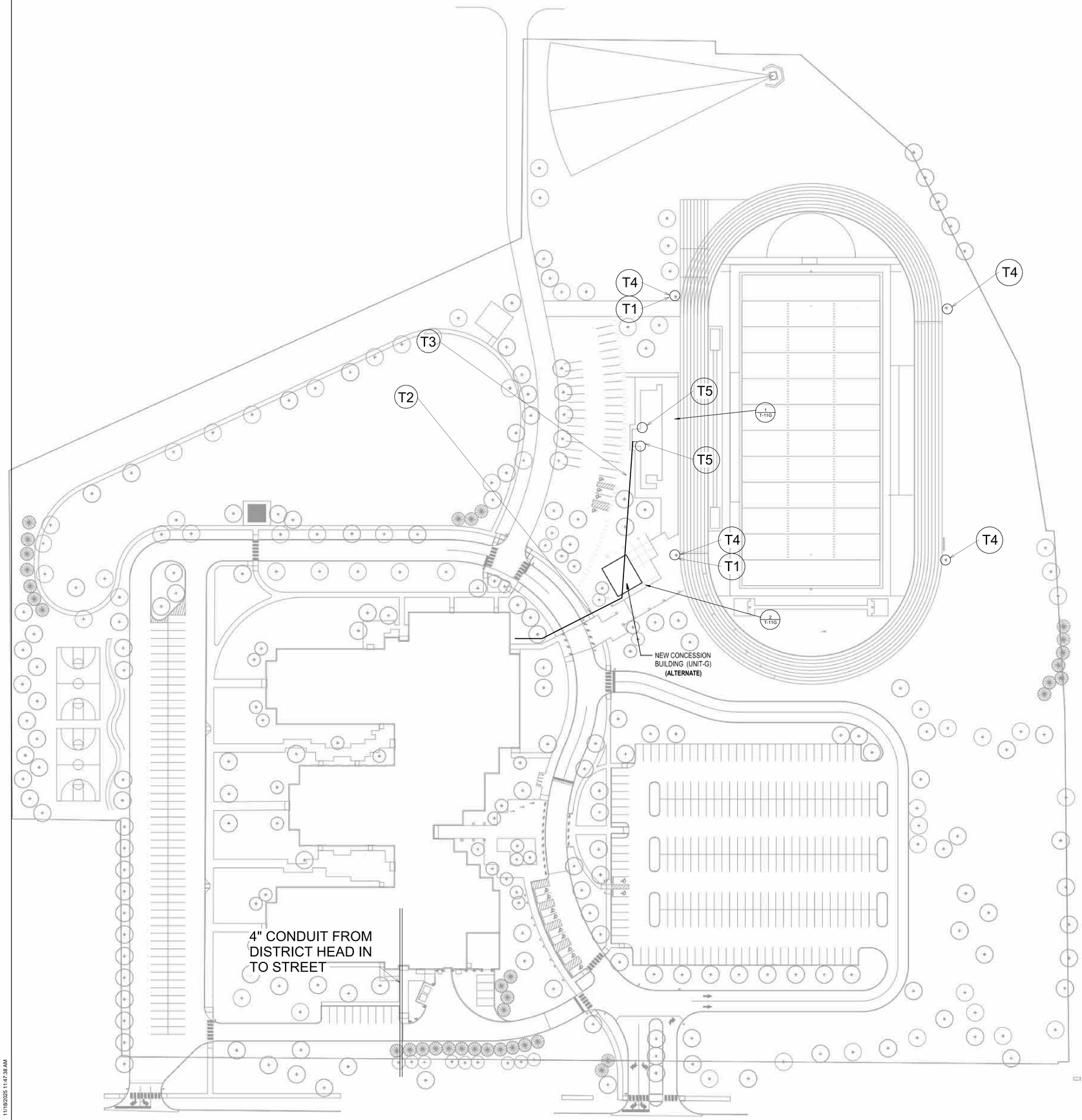
REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25

SEQUENCE OF OPERATIONS

E-503

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T1. LOUD SPEAKERS ON EXTERIOR ATHLETIC LIGHTING POLE. AS APRT OF THE ATHLETIC FIELD ATERNATE. PROVIDE ADEQUATE FOOTBALL STADIUM COVERAGE. FINAL LOCATION AND INSTALLATION REQUIREMENTS FOR FOUNDATION, POLE AND AUDIO EQUIPMENT PER A/E APPROVED DELEGATED DESIGN SHOP DRAWING SUBMITTAL. COORDINATE CONDUIT/ROUTING REQUIREMENTS OF OTHER SYSTEMS CONDUITS TO BE ROUTED UP IN POLE FOR OTHER SYSTEMS COMPONENTS. MOUNTED ON POLE WITH OTHER TRADES AS REQUIRED PRIOR TO INSTALLATION.

T2. PROVIDE ONE (1) 2" SCHEDULE 80 PVC CONDUITS AT A MINIMUM 15" DEEP DIRECT BURIED FROM MDF/IDF IN NEW MIDDLE SCHOOL TO CONCESSION BUILDING.STUB UP INTO CONCESSION S BUILDING TECH RACK. PROVIDE 6 STRAND OSP SINGLE MODE FIBER OPTIC CABLE.

ALTERNATE CONCESSIONS BUILDING NOT ACCEPTED. PROVIDE ONE (1) 2" SCHEDULE 80 PVC CONDUITS AT A MINIMUM 15" DEEP DIRECT BURIED FROM MDF/IDF IN NEW MIDDLE SCHOOL TO. STUB UP INTO PRESSBOX TECH RACK. PROVIDE 6 STRAND OSP SINGLE MODE FIBER OPTIC CABLE.

T3. PROVIDE ONE (1) 2" SCHEDULE 80 PVC CONDUITS AT A MINIMUM 15" DEEP DIRECT BURIED FROM CONCESSION BUILDING STUB OUT TO PRESSBOX PROVIDE 6 STRAND OSP SINGLE MODE FIBER OPTIC CABLE

T4. (ALTERNATE) LIGHTPOLE CAMERAS MOUNTED 5 FT BELOW SPEAKERS TO PROVIDE ADEQUATE COVERAGE
CAMERA HANWHA PNM-C32083RQZ

2

T5. LOUD SPEAKERS ON EXTERIOR OF PRESSBOX. . PROVIDE ADEQUATE FOOTBALL STADIUM COVERAGE. FINAL LOCATION AND INSTALLATION REQUIREMENTS PER A/E APPROVED DELEGATED DESIGN SHOP DRAWING SUBMITTAL.

The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

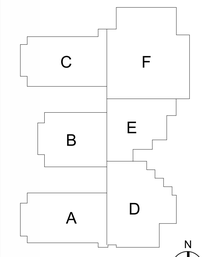
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER
REGISTERED
No.
PE19800008
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

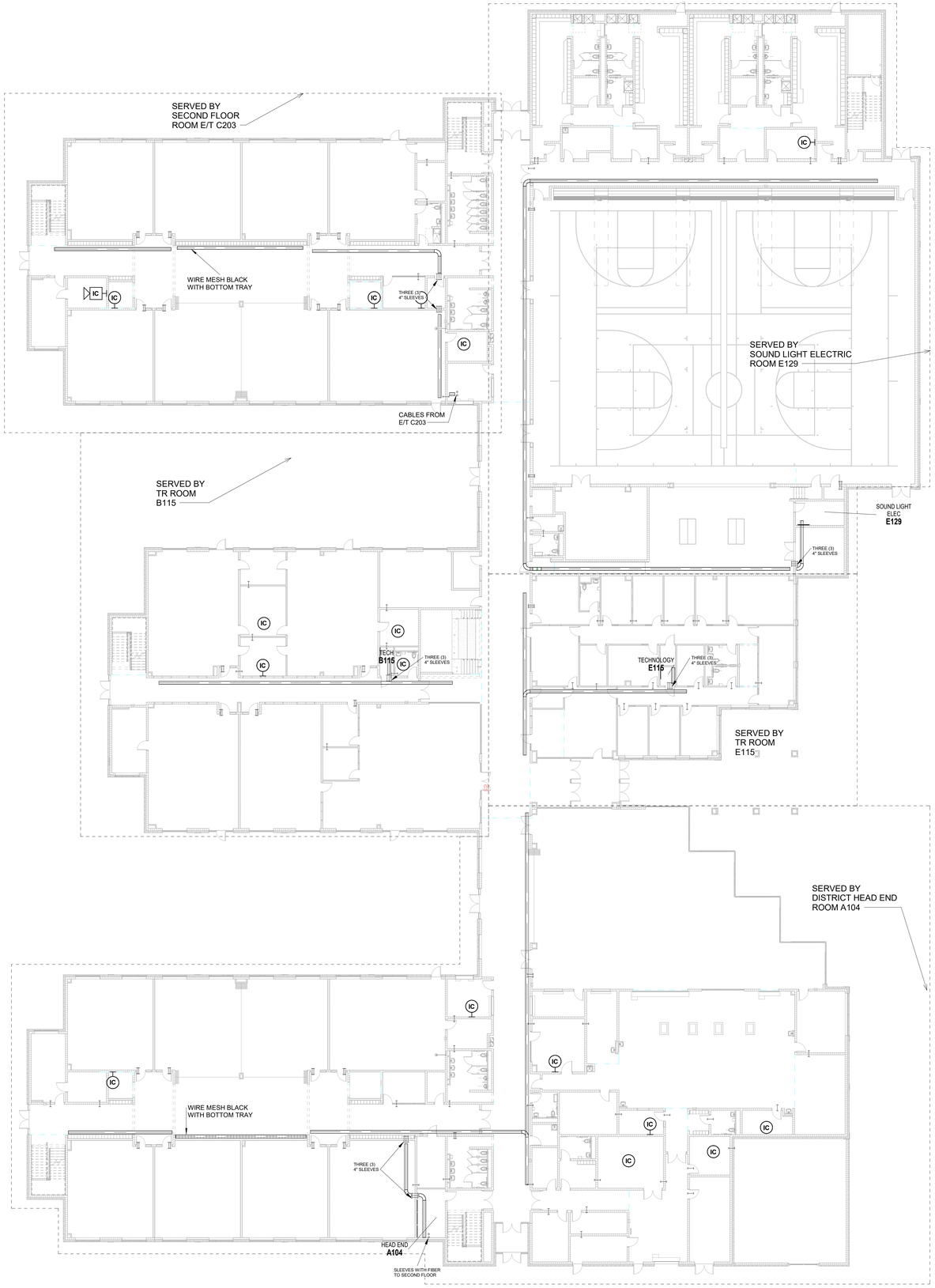
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

TECHNOLOGY SITE PLAN

TS101

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1 FIRST FLOOR OVERALL CABLE TRAY AND SLEEVE PLAN

SCALE: 1/16" = 1'-0"

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ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A104	B111	HEAD END	151 SF
A105	C102	MECHANICAL	159 SF
A106	C104	SPECIAL EDUCATION	891 SF
A107	C108	CLASSROOM	889 SF
A108	C110	CLASSROOM	892 SF
A109	C112	CLASSROOM	885 SF
A110	C100	CORRIDOR	2370 SF
A111	C114	TEACHERS	255 SF
A112	C114A	MECHANICAL	129 SF
A113	C113	HUDDLE	70 SF
A114	C111	CLASSROOM	843 SF
A115	C109	CLASSROOM	889 SF
A116	C107	CLASSROOM	889 SF
A117	C106	SCIENCE	1148 SF
A118	C105	HUDDLE	90 SF
A119	C103	SGI	147 SF
A120	C101	SENSORY	60 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
AS2-1	STAIR C	STAIR	220 SF
B101	A100	MAIN HALL	2209 SF
B102	A100	CORRIDOR	190 SF
B103	D101	MEDIA CENTER	1827 SF
B104	D101A	MEDIA OFFICE	123 SF
B105	D105	MEDIA WORKROOM	164 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
B108	D107A	KILN / STORAGE	243 SF
B109	D100	CORRIDOR	913 SF
B110	D108	PLTW	1187 SF
B111	D104D	PLANNING	165 SF
B112	D104C	STORAGE	250 SF
B113	D104B	CLEAN LAB	192 SF
B114	D104	PLTW	1198 SF
B115	D103	TECH	43 SF
B116	D102	RESTROOM	63 SF
B117	D104A	STORAGE	154 SF
B118	STAIR A	GATHERING STAIR	419 SF
B119	A105	ALTERNATIVE CLASSROOM	491 SF
B120	A106	SRO OFFICE	105 SF
BS1-1	STAIR D	STAIR	208 SF
C101	A100	MAIN HALL	1111 SF
C102	A111	CONCESSION	183 SF
C103	E106A	PREP	130 SF
C104	A112	BOYS	217 SF
C105	E101	SENSORY	60 SF
C106	E103	SGI	147 SF
C107	E105	HUDDLE	90 SF
C108	E106	SCIENCE	1147 SF
C109	E107	CLASSROOM	889 SF
C110	E109	CLASSROOM	889 SF
C111	E111	CLASSROOM	843 SF
C112	E113	HUDDLE	70 SF
C113	E114A	MECHANICAL	129 SF
C114	E114	TEACHERS	255 SF
C115	E100	CORRIDOR	2370 SF
C116	E112	CLASSROOM	885 SF
C117	E110	CLASSROOM	892 SF
C118	E108	CLASSROOM	889 SF
C119	E104	APPLIED SKILLS	891 SF
C120	E104B	SENSORY	56 SF
C121	E104A	KITCHENETTE	119 SF
C122	E102	RESTROOM / SHOWER	103 SF
C123	A113	GIRLS	282 SF
C124	-	VESTIBULE	116 SF
CS1-1	STAIR F	STAIR	262 SF
CS2-1	STAIR E	STAIR	220 SF
D101	B110B	STORAGE	196 SF
D102	B110J	ELECTRICAL	161 SF
D103	B110E	ELECTRICAL	134 SF
D104	B110	CORRIDOR	191 SF
D105	B110	RECEIVING	547 SF
D106	B110F	STORAGE	370 SF
D107	B110C	LOCKERS	109 SF
D108	B110D	RESTROOM	76 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D112	B104B	DRY STORAGE	267 SF
D113	B104C	OFFICE	118 SF
D114	B104	CORRIDOR	106 SF
D115	B110H	BUILDING SERVICES	373 SF
D116	B105	LOCKERS	55 SF
D117	B104D	RESTROOM	64 SF
D118	B104E	STORAGE	127 SF
D119	B104F	COOLER / FREEZER	439 SF
D120	B101B	FACULTY DINING	325 SF
D121	B104	KITCHEN / SERVING	2365 SF
D122	B104A	DISHWASHING	240 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF
D126	B110G	STORAGE	170 SF
E101	-	VESTIBULE	260 SF
E102	-	CORRIDOR	213 SF
E103	A101	ATTENDANCE	164 SF
E104	A102	MAIL	72 SF
E105	A101	ADMIN RECEPTION	400 SF
E106	A101A	TREASURER	163 SF
E107	A101B	ASSISTANT PRINCIPAL	163 SF
E108	A101C	PRINCIPAL OFFICE	191 SF
E109	-	CORRIDOR	278 SF
E110	A101H	LARGE CONFERENCE	299 SF
E111	-	CORRIDOR	85 SF
E112	A101G	STAFF RR	57 SF
E113	A103H	STAFF RR	57 SF
E114	A101F	SMALL CONFERENCE	121 SF
E115	A101E	TECHNOLOGY	32 SF
E116	A103G	ELECTRICAL	34 SF
E117	A101D	WORK ROOM	222 SF
E118	A103F	FILES	119 SF
E119	A103	RECEPTION	301 SF
E120	-	CORRIDOR	352 SF
E121	A104	CLINIC	274 SF
E122	A104A	RESTROOM	64 SF
E123	A103A	CONFERENCE	158 SF
E124	A103B	GUIDANCE	160 SF
E125	A103C	GUIDANCE	161 SF
E126	A103D	GUIDANCE	159 SF
E127	A103E	IN-SCHOOL SUSPENSION	350 SF
E128	A107A	STAGE STORAGE	246 SF
E129	A107B	SOUND LIGHT ELEC	129 SF
E130	A110B	CLOSET	27 SF
E131	-	CORRIDOR	34 SF
E132	A107	STAGE	1376 SF
E133	A110A	PE STORAGE	671 SF
E134	-	RAMP	120 SF
E135	-	CORRIDOR	38 SF
E136	A108	FAMILY RR	64 SF
E137	A109	CUSTODIAN	53 SF
F101	A110	GYMNASIUM	12361 SF
F102	-	CORRIDOR	1209 SF
F103	A114	GIRLS PE LOCKERS	542 SF
F104	A114A	RESTROOM	178 SF
F105	A116A	ATHLETIC STORAGE	78 SF
F106	-	CORRIDOR	122 SF
F107	A115	CUSTODIAN	145 SF
F108	A116	OFFICE	149 SF
F109	A116B	TOILET	73 SF
F110	A117A	RESTROOM	175 SF
F111	A117	GIRLS TEAM LOCKERS	695 SF
F112	A118	BOYS PE LOCKERS	543 SF
F113	A118A	RESTROOM	175 SF
F114	A119A	ATHLETIC STORAGE	78 SF
F115	-	CORRIDOR	136 SF
F116	A119	OFFICE	149 SF
F117	A120	TRAINING	156 SF
F118	A119B	TOILET	73 SF
F119	A121A	RESTROOM	175 SF
F120	A121	BOYS TEAM LOCKER	705 SF
F121	A122	MECHANICAL	229 SF
FS1-1	STAIR G	STAIR	265 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE

VERIFICATION NOTE

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

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

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PORTAGE TOWNSHIP SCHOOLS

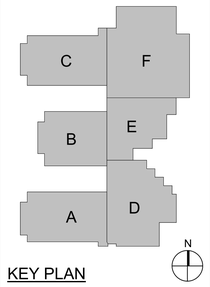
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800035 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

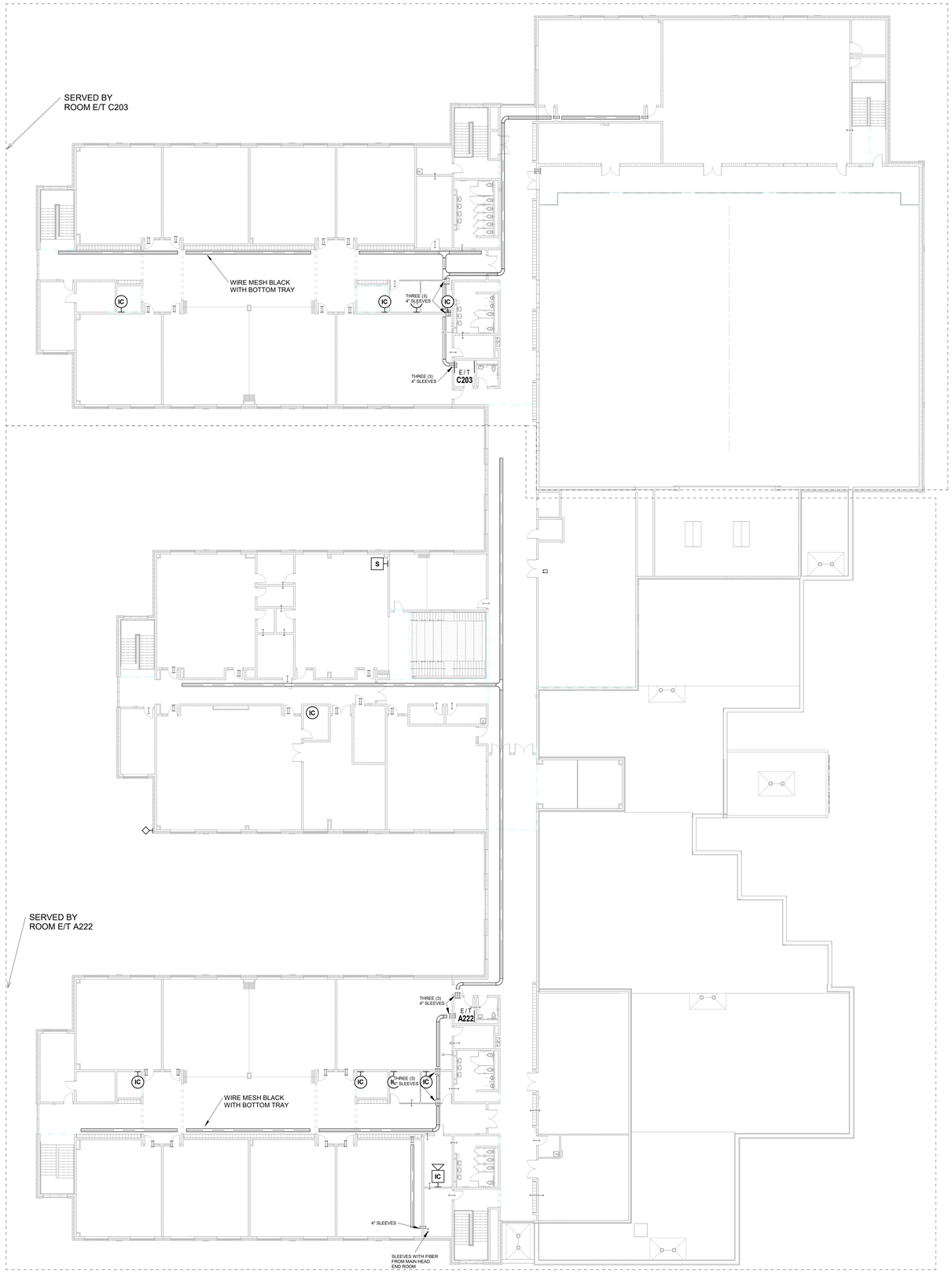
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025

OVERALL FIRST FLOOR CABLE TRAY AND SLEEVE PLAN

T-103



1 **SECOND FLOOR OVERALL CABLE TRAY AND SLEEVE PLAN**
SCALE: 1/16" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
A202	B206	GIRLS	217 SF
A203	B208	STORAGE	151 SF
A204	C202	MECHANICAL	159 SF
A205	C204	SPECIAL ED	891 SF
A206	C208	CLASSROOM	889 SF
A207	C210	CLASSROOM	892 SF
A208	C212	CLASSROOM	885 SF
A209	C200	COLLABORATION	2366 SF
A210	C214	TEACHERS	258 SF
A211	C214A	MECHANICAL	129 SF
A212	C213	HUDDLE	73 SF
A213	C211	CLASSROOM	843 SF
A214	C209	CLASSROOM	889 SF
A215	C207	CLASSROOM	889 SF
A216	C206	SCIENCE	1147 SF
A217	C205	HUDDLE	93 SF
A218	C203	SGI	107 SF
A219	C201	SGI	109 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A222	B202	E / T	60 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
AS2-2	STAIR C	STAIR	227 SF
B201	B200	UPPER MAIN HALL	398 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	D205	MECHANICAL	195 SF
B206	D206	INSTRUMENTS	765 SF
B207	D207A	PRACTICE	95 SF
B208	D207	BAND	1902 SF
B209	D209	ENSEMBLE	247 SF
B210	D200	CORRIDOR	843 SF
B211	D208	ORCHESTRA	1271 SF
B212	D208C	STORAGE	120 SF
B213	D208B	PRACTICE	81 SF
B214	D208A	PRACTICE	46 SF
B215	D204A	PRACTICE	46 SF
B216	D200C	MECHANICAL	173 SF
B217	D204	VOCAL	1202 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
BS1-2	STAIR D	STAIR	216 SF
C201	A200	UPPER MAIN HALL	1343 SF
C202	A203	RESTROOM	51 SF
C203	A204	E / T	60 SF
C204	E206A	PREP	101 SF
C205	A205	BOYS	217 SF
C206	E201	SGI	109 SF
C207	E203	SGI	107 SF
C208	E205	HUDDLE	90 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
C213	E213	HUDDLE	70 SF
C214	E214A	MECHANICAL	129 SF
C215	E214	TEACHERS	258 SF
C216	E200	COLLABORATION	2369 SF
C217	E212	CLASSROOM	885 SF
C218	E210	CLASSROOM	892 SF
C219	E208	CLASSROOM	889 SF
C220	E204	SPECIAL ED	814 SF
C221	A207	CUSTODIAN	106 SF
C222	E202	MECHANICAL	280 SF
C223	A206	GIRLS	282 SF
C224	A208	ELECTRICAL	24 SF
CS1-2	STAIR F	STAIR	293 SF
CS2-2	STAIR E	STAIR	227 SF
D201	B207	STORAGE	6048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1413 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF
F201	A212	BALCONY	1137 SF
F202	A210	MECHANICAL	543 SF
F203	A209	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	A211	FITNESS	2985 SF
F205	A211A	STORAGE	133 SF
F206	A211B	ELECTRICAL	87 SF
FS1-2	STAIR G	STAIR	307 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE

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PORTAGE TOWNSHIP SCHOOLS

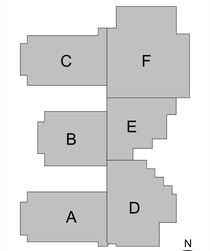
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025

VERIFICATION NOTE

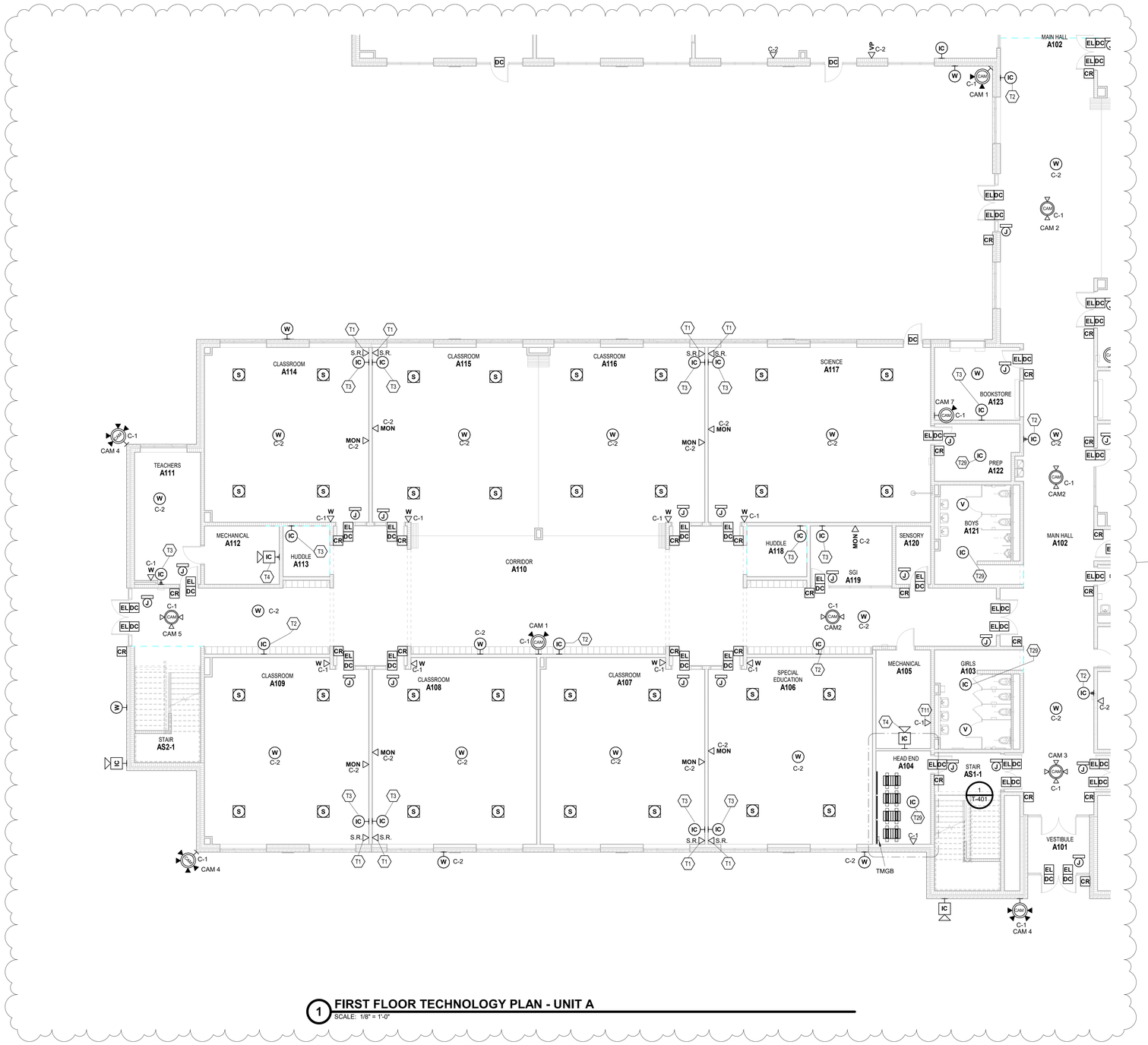
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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

OVERALL SECOND FLOOR CABLE TRAY AND SLEEVE PLAN

T-104

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A104	B111	HEAD END	151 SF
A105	C102	MECHANICAL	159 SF
A106	C104	SPECIAL EDUCATION	891 SF
A107	C108	CLASSROOM	889 SF
A108	C110	CLASSROOM	892 SF
A109	C112	CLASSROOM	885 SF
A110	C100	CORRIDOR	2370 SF
A111	C114	TEACHERS	255 SF
A112	C114A	MECHANICAL	129 SF
A113	C113	HUDDLE	70 SF
A114	C111	CLASSROOM	843 SF
A115	C109	CLASSROOM	889 SF
A116	C107	CLASSROOM	889 SF
A117	C106	SCIENCE	1148 SF
A118	C105	HUDDLE	90 SF
A119	C103	SGI	147 SF
A120	C101	SENSORY	60 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
AS2-1	STAIR C	STAIR	220 SF
B101	A100	MAIN HALL	2209 SF
B103	D101	MEDIA CENTER	1827 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
D101	B110B	STORAGE	196 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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5910 Central Ave., Portage, Indiana 46368

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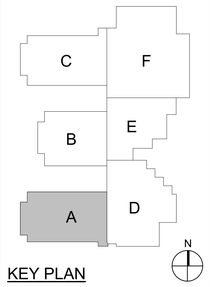
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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

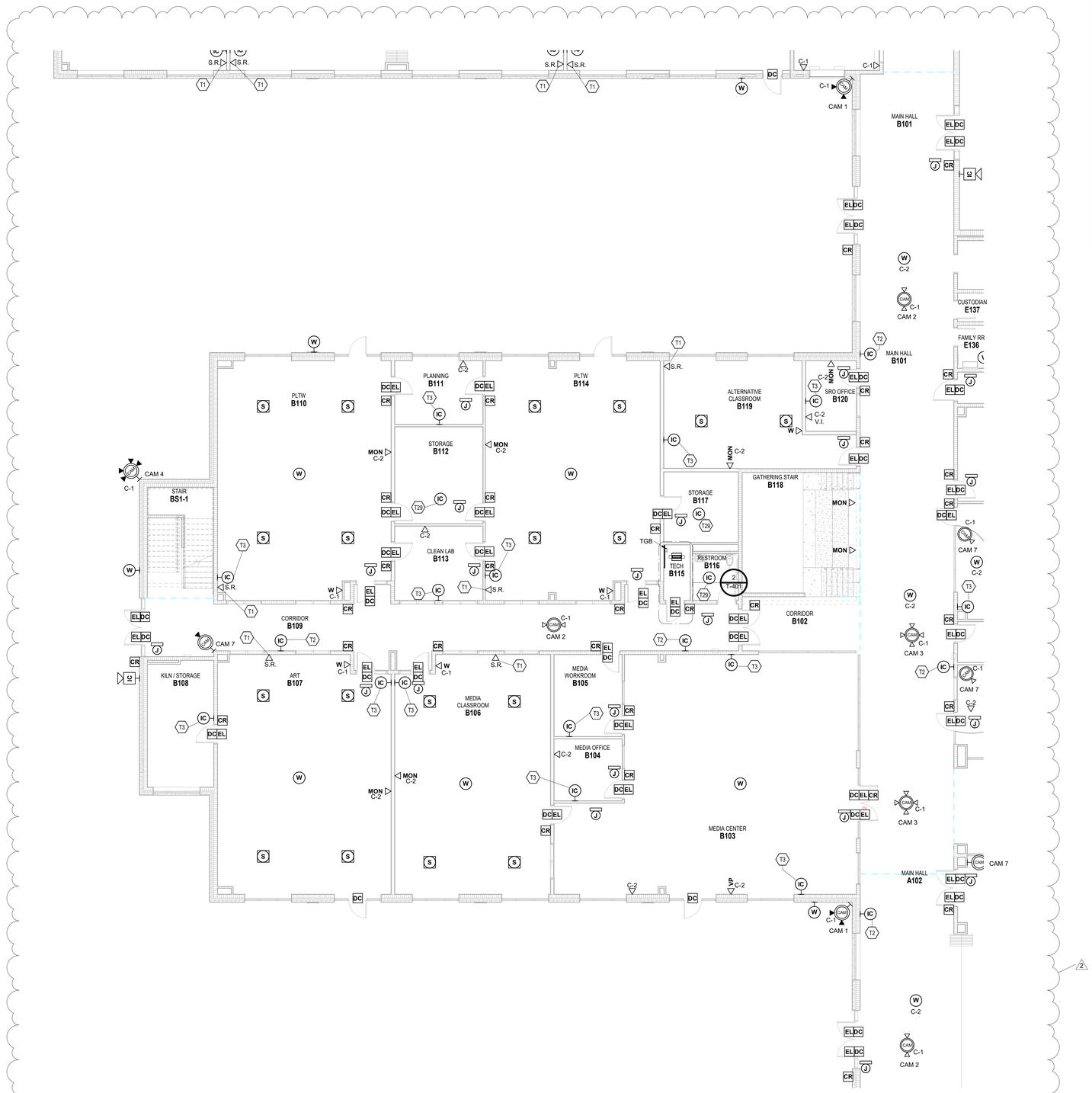
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT A

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1 FIRST FLOOR TECHNOLOGY PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A102	B100	MAIN HALL	1968 SF
B101	A100	MAIN HALL	2209 SF
B102	A100	CORRIDOR	190 SF
B103	D101	MEDIA CENTER	1827 SF
B104	D101A	MEDIA OFFICE	123 SF
B105	D105	MEDIA WORKROOM	164 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
B108	D107A	KILN / STORAGE	243 SF
B109	D100	CORRIDOR	913 SF
B110	D108	PLTW	1187 SF
B111	D104D	PLANNING	165 SF
B112	D104C	STORAGE	250 SF
B113	D104B	CLEAN LAB	192 SF
B114	D104	PLTW	1198 SF
B115	D103	TECH	43 SF
B116	D102	RESTROOM	63 SF
B117	D104A	STORAGE	154 SF
B118	STAIR A	GATHERING STAIR	419 SF
B119	A105	ALTERNATIVE CLASSROOM	491 SF
B120	A106	SRO OFFICE	105 SF
BS1-1	STAIR D	STAIR	208 SF
C101	A100	MAIN HALL	1111 SF
C102	A111	CONCESSION	183 SF
C108	E106	SCIENCE	1147 SF
C109	E107	CLASSROOM	889 SF
C110	E109	CLASSROOM	889 SF
C111	E111	CLASSROOM	843 SF
D124	B101	CAFETERIA	4442 SF
E102	-	CORRIDOR	213 SF
E103	A101	ATTENDANCE	164 SF
E104	A102	MAIL	72 SF
E119	A103	RECEPTION	301 SF
E121	A104	CLINIC	274 SF
E135	-	CORRIDOR	38 SF
E136	A108	FAMILY RR	64 SF
E137	A109	CUSTODIAN	53 SF
F101	A110	GYMNASIUM	12261 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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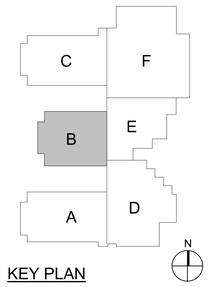
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800008 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

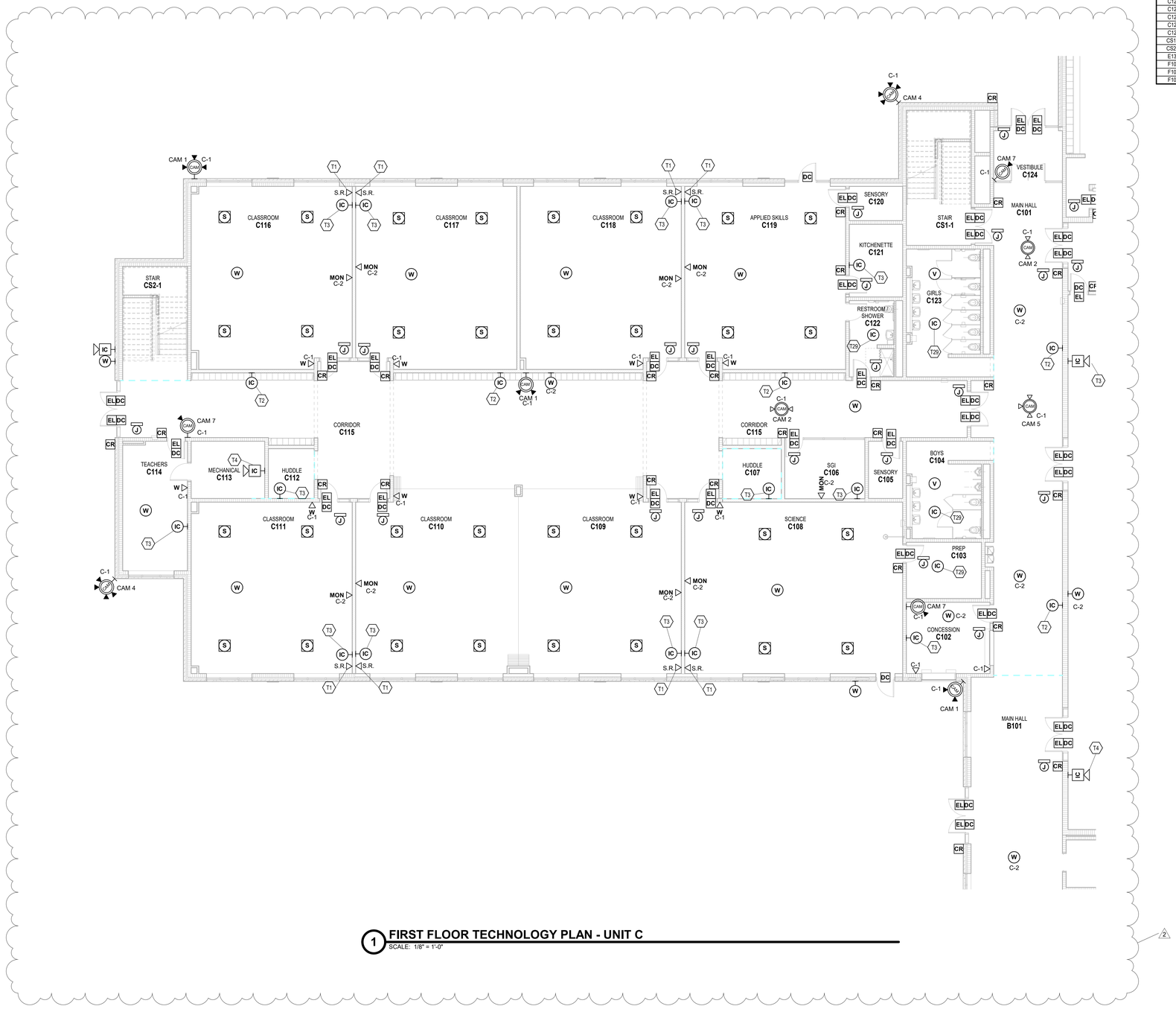
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT B

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1 FIRST FLOOR TECHNOLOGY PLAN - UNIT C

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
B101	A100	MAIN HALL	2209 SF
C101	A100	MAIN HALL	1111 SF
C102	A111	CONCESSION	183 SF
C103	E106A	PREP	130 SF
C104	A112	BOYS	217 SF
C105	E101	SENSORY	60 SF
C106	E103	SGI	147 SF
C107	E105	HUDDLE	90 SF
C108	E106	SCIENCE	1147 SF
C109	E107	CLASSROOM	889 SF
C110	E109	CLASSROOM	889 SF
C111	E111	CLASSROOM	843 SF
C112	E113	HUDDLE	70 SF
C113	E114A	MECHANICAL	129 SF
C114	E114	TEACHERS	255 SF
C115	E100	CORRIDOR	2370 SF
C116	E112	CLASSROOM	886 SF
C117	E110	CLASSROOM	892 SF
C118	E108	CLASSROOM	889 SF
C119	E104	APPLIED SKILLS	891 SF
C120	E104B	SENSORY	56 SF
C121	E104A	KITCHENETTE	119 SF
C122	E102	RESTROOM / SHOWER	103 SF
C123	A113	GIRLS	282 SF
C124	-	VESTIBULE	116 SF
CS1-1	STAIR F	STAIR	262 SF
CS2-1	STAIR E	STAIR	220 SF
E137	A109	CUSTODIAN	53 SF
F101	A110	GYMNASIUM	12261 SF
F102	-	CORRIDOR	1209 SF
F103	A114	GIRLS PE LOCKERS	542 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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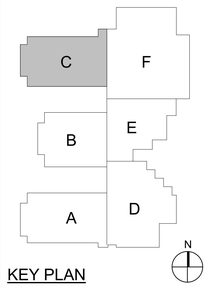
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

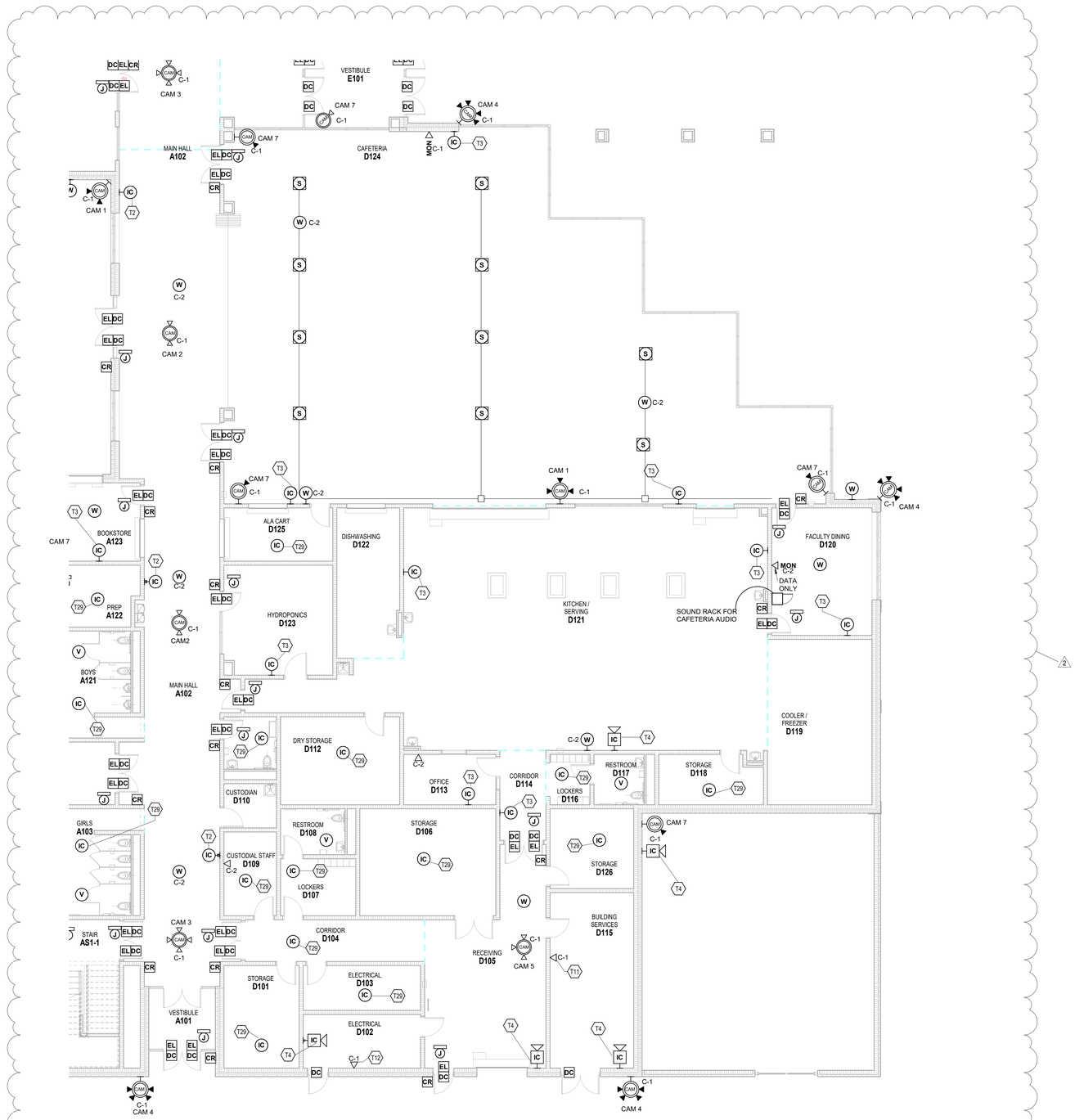
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT C

T-11C

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1 **FIRST FLOOR TECHNOLOGY PLAN - UNIT D**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A110	C100	CORRIDOR	2370 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
B101	A100	MAIN HALL	2209 SF
B103	D101	MEDIA CENTER	1827 SF
D101	B110B	STORAGE	196 SF
D102	B110J	ELECTRICAL	161 SF
D103	B110E	ELECTRICAL	134 SF
D104	B110	CORRIDOR	191 SF
D105	B110	RECEIVING	547 SF
D106	B110F	STORAGE	370 SF
D107	B110C	LOCKERS	109 SF
D108	B110D	RESTROOM	76 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D112	B104B	DRY STORAGE	267 SF
D113	B104C	OFFICE	118 SF
D114	B104	CORRIDOR	106 SF
D115	B110H	BUILDING SERVICES	373 SF
D116	B105	LOCKERS	55 SF
D117	B104D	RESTROOM	64 SF
D118	B104E	STORAGE	127 SF
D119	B104F	COOLER / FREEZER	439 SF
D120	B101B	FACULTY DINING	325 SF
D121	B104	KITCHEN / SERVING	2365 SF
D122	B104A	DISHWASHING	240 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF
D126	B110G	STORAGE	170 SF
E101	-	VESTIBULE	260 SF
E102	-	CORRIDOR	213 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T12	PROVIDE CABLES FOR FREEZER ALARM. VERIFY EXACT LOCATION WITH KITCHEN EQUIPMENT CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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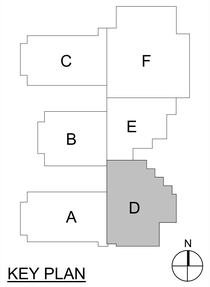
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

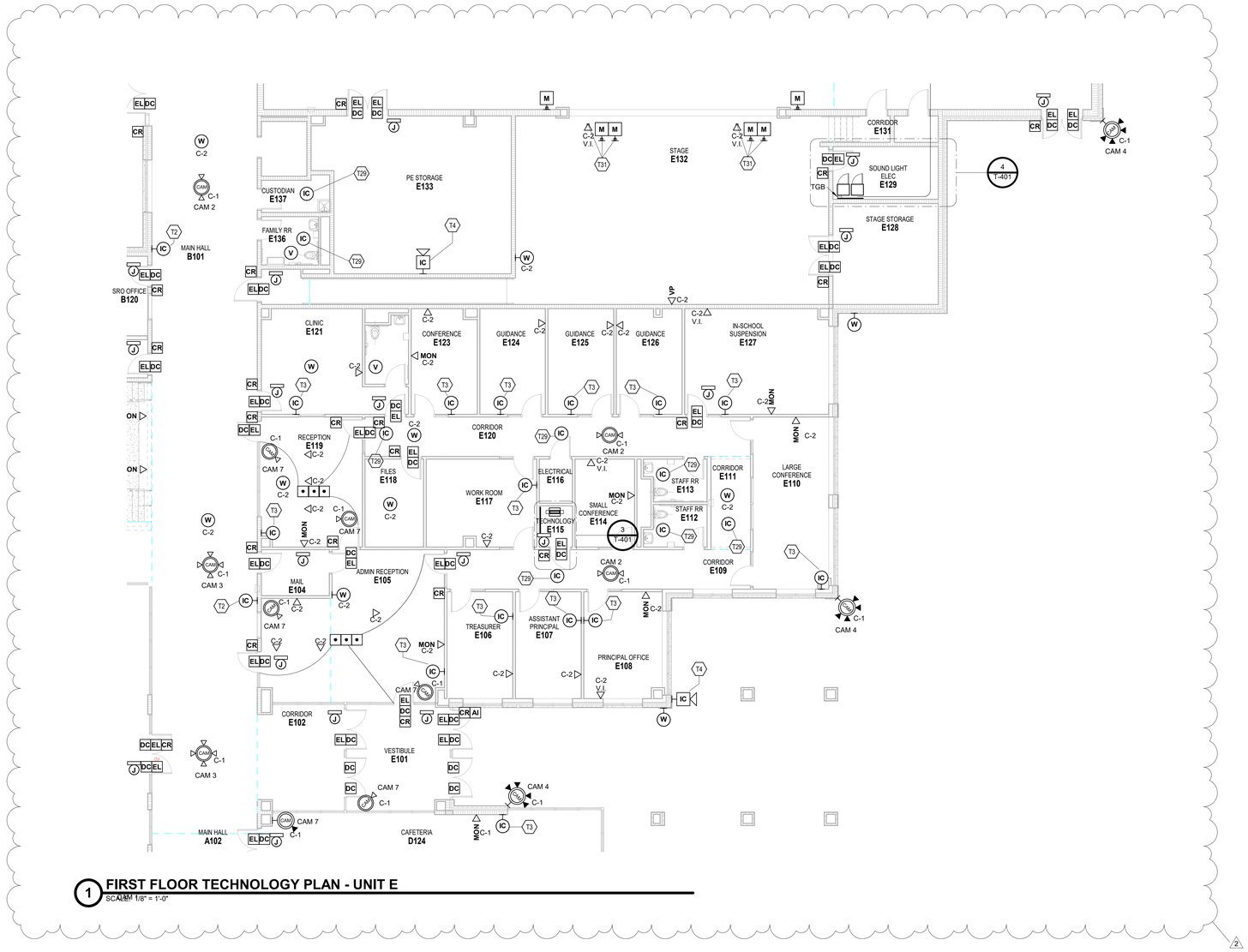
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT D

T-11D

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1 FIRST FLOOR TECHNOLOGY PLAN - UNIT E

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A102	B100	MAIN HALL	1968 SF
B101	A100	MAIN HALL	2209 SF
B102	A100	CORRIDOR	190 SF
B103	D101	MEDIA CENTER	1827 SF
B118	STAIR A	GATHERING STAIR	419 SF
B119	A105	ALTERNATIVE CLASSROOM	491 SF
B120	A106	SRO OFFICE	105 SF
D124	B101	CAFETERIA	4442 SF
E101	-	VESTIBULE	260 SF
E102	-	CORRIDOR	213 SF
E103	A101	ATTENDANCE	164 SF
E104	A102	MAIL	72 SF
E105	A101	ADMIN RECEPTION	400 SF
E106	A101A	TREASURER	163 SF
E107	A101B	ASSISTANT PRINCIPAL	163 SF
E108	A101C	PRINCIPAL OFFICE	191 SF
E109	-	CORRIDOR	278 SF
E110	A101H	LARGE CONFERENCE	299 SF
E111	-	CORRIDOR	85 SF
E112	A101G	STAFF RR	57 SF
E113	A103H	STAFF RR	57 SF
E114	A101F	SMALL CONFERENCE	121 SF
E115	A101E	TECHNOLOGY	32 SF
E116	A103G	ELECTRICAL	34 SF
E117	A101D	WORK ROOM	222 SF
E118	A103F	FILES	119 SF
E119	A103	RECEPTION	301 SF
E120	-	CORRIDOR	352 SF
E121	A104	CLINIC	274 SF
E122	A104A	RESTROOM	64 SF
E123	A103A	CONFERENCE	158 SF
E124	A103B	GUIDANCE	160 SF
E125	A103C	GUIDANCE	161 SF
E126	A103D	GUIDANCE	159 SF
E127	A103E	IN-SCHOOL SUSPENSION	350 SF
E128	A107A	STAGE STORAGE	246 SF
E129	A107B	SOUND LIGHT ELEC	129 SF
E130	A110B	CLOSET	27 SF
E131	-	CORRIDOR	34 SF
E132	A107	STAGE	1376 SF
E133	A110A	PE STORAGE	671 SF
E134	-	RAMP	120 SF
E135	-	CORRIDOR	38 SF
E136	A108	FAMILY RR	64 SF
E137	A109	CUSTODIAN	53 SF
F101	A110	GYMNASIUM	12261 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)
T31	MIC XLR INPUTS, DATA CONNECTIONS AND HDMI IN THE FLUSH MOUNTED FLOOR POCKET SHOWN ON ELECTRICAL SHEET EP11F. MICS CONNECTED TO SOUND RACK IN E129. HDMI CONNECTED TO MATRIX SWITCHER FOR BACK OF STAGE PROJECTOR

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

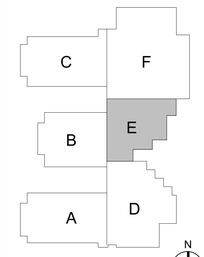
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KEY PLAN

Construction Documents

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

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

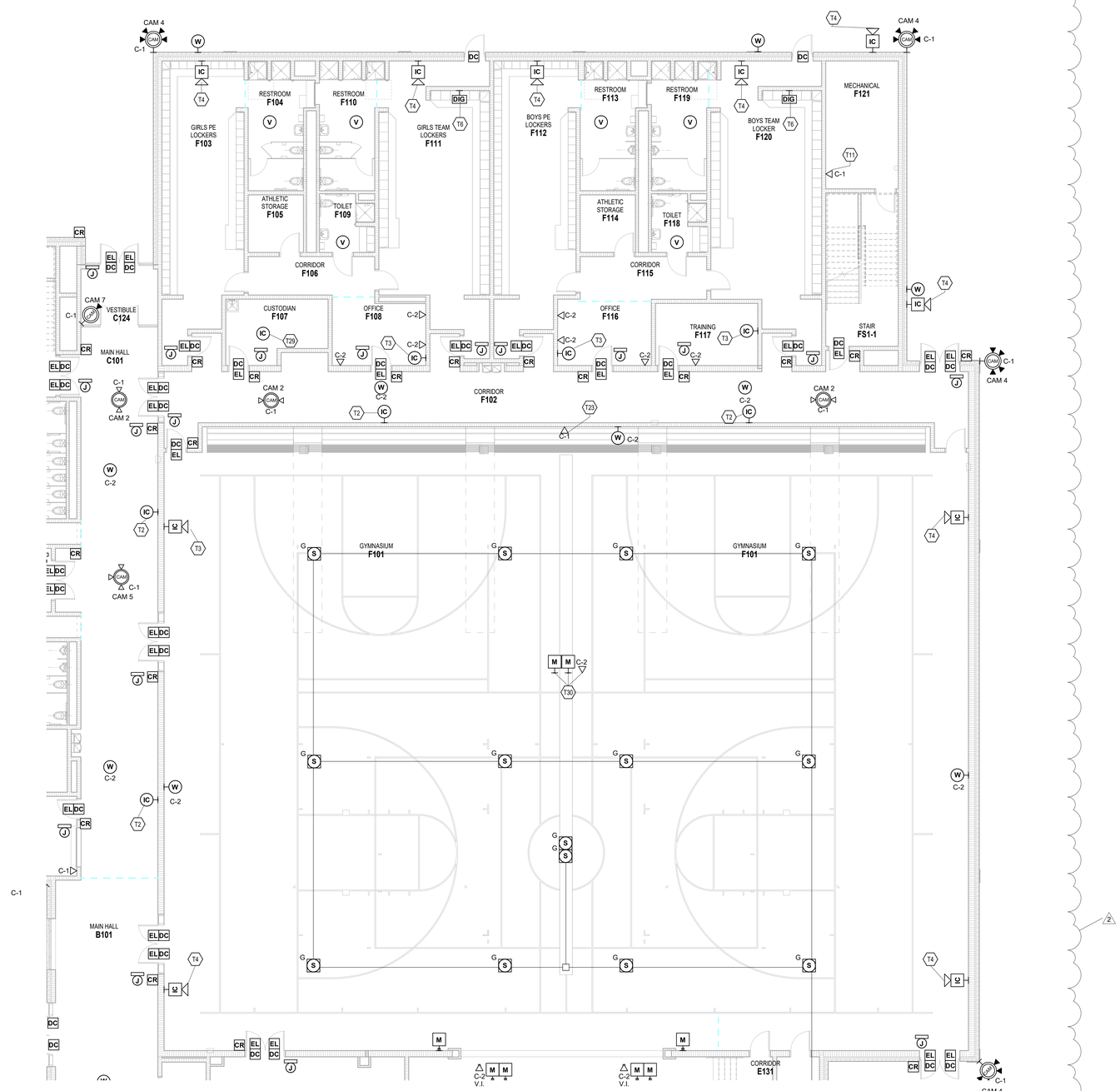
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT E

T-11E

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1 **FIRST FLOOR TECHNOLOGY PLAN - UNIT F**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
B101	A100	MAIN HALL	2209 SF
C101	A100	MAIN HALL	1111 SF
C102	A111	CONCESSION	183 SF
C103	E106A	PREP	130 SF
C104	A112	BOYS	217 SF
C115	E100	CORRIDOR	2370 SF
C123	A113	GIRLS	282 SF
C124	-	VESTIBULE	116 SF
CS1-1	STAIR F	STAIR	262 SF
E130	A110B	CLOSET	27 SF
E131	-	CORRIDOR	34 SF
E132	A107	STAGE	1376 SF
E133	A110A	PE STORAGE	671 SF
F101	A110	GYMNASIUM	12261 SF
F102	-	CORRIDOR	1209 SF
F103	A114	GIRLS PE LOCKERS	542 SF
F104	A114A	RESTROOM	178 SF
F105	A116A	ATHLETIC STORAGE	78 SF
F106	-	CORRIDOR	122 SF
F107	A115	CUSTODIAN	145 SF
F108	A116	OFFICE	149 SF
F109	A116B	TOILET	73 SF
F110	A117A	RESTROOM	175 SF
F111	A117	GIRLS TEAM LOCKERS	695 SF
F112	A118	BOYS PE LOCKERS	543 SF
F113	A118A	RESTROOM	175 SF
F114	A119A	ATHLETIC STORAGE	78 SF
F115	-	CORRIDOR	136 SF
F116	A119	OFFICE	149 SF
F117	A120	TRAINING	156 SF
F118	A119B	TOILET	73 SF
F119	A121A	RESTROOM	175 SF
F120	A121	BOYS TEAM LOCKER	705 SF
F121	A122	MECHANICAL	228 SF
FS1-1	STAIR G	STAIR	265 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T6	GAME CLOCK
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T23	DATA JACK FOR HUDL SYSTEM. HEIGHT TO BE DETERMINED (22' 8"?)
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)
T30	MIC XLR INPUTS AND DATA CONNECTIONS IN THE FLUSH MOUNTED FLOOR POCKET SHOWN ON ELECTRICAL SHEET EP11F. MICS CONNECTED TO SOUND RACK IN E129.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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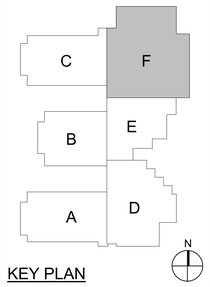
PORTAGE TOWNSHIP SCHOOLS

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

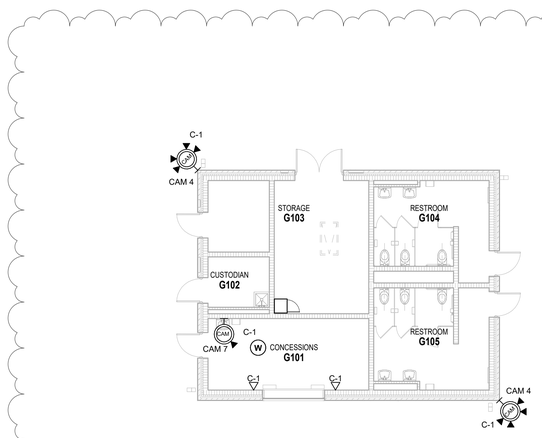
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT F

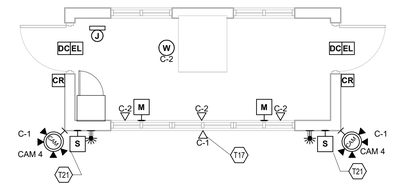
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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
G101		CONCESSIONS	196 SF
G102		CUSTODIAN	53 SF
G103		STORAGE	214 SF
G104		RESTROOM	169 SF
G105		RESTROOM	189 SF
G106		ELEC	75 SF



2 FIRST FLOOR TECHNOLOGY PLAN - UNIT G
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR TECHNOLOGY - PRESS BOX
SCALE: 1/4" = 1'-0"

2

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T17	DATA JACK FOR HUDL SYSTEM. ABOVE WINDOWS BELOW ROUGH OVER HANG. DATA JACK ONLY.
T21	STADIUM SPEAKERS MOUNTED TO PRESSBOX(BASE BID ONLY)

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

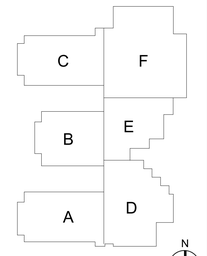
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800026 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

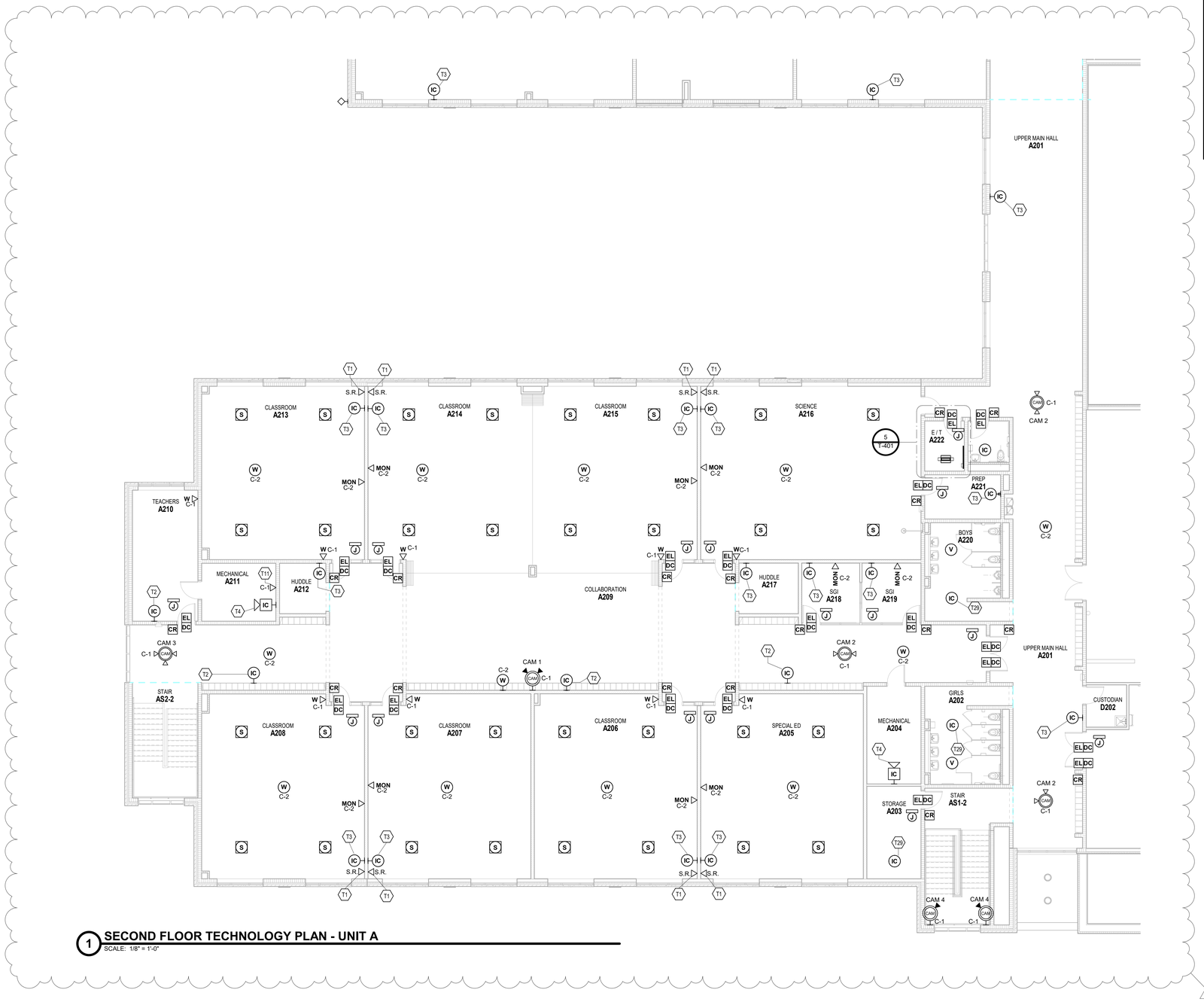
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - CONCESSIONS AND PRESSBOX

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1 SECOND FLOOR TECHNOLOGY PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
A202	B206	GIRLS	217 SF
A203	B208	STORAGE	151 SF
A204	C202	MECHANICAL	159 SF
A205	C204	SPECIAL ED	891 SF
A206	C208	CLASSROOM	889 SF
A207	C210	CLASSROOM	892 SF
A208	C212	CLASSROOM	885 SF
A209	C200	COLLABORATION	2366 SF
A210	C214	TEACHERS	258 SF
A211	C214A	MECHANICAL	129 SF
A212	C213	HUDDLE	73 SF
A213	C211	CLASSROOM	843 SF
A214	C209	CLASSROOM	889 SF
A215	C207	CLASSROOM	889 SF
A216	C206	SCIENCE	1147 SF
A217	C205	HUDDLE	93 SF
A218	C203	SGI	107 SF
A219	C201	SGI	109 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A222	B202	E / T	60 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
AS2-2	STAIR C	STAIR	227 SF
B201	B200	UPPER MAIN HALL	398 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B206	D206	INSTRUMENTS	765 SF
B208	D207	BAND	1902 SF
D201	B207	STORAGE	6048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1413 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

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PORTAGE TOWNSHIP SCHOOLS

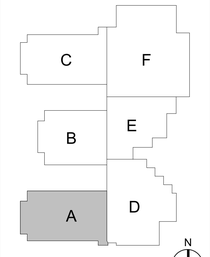
PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800026 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

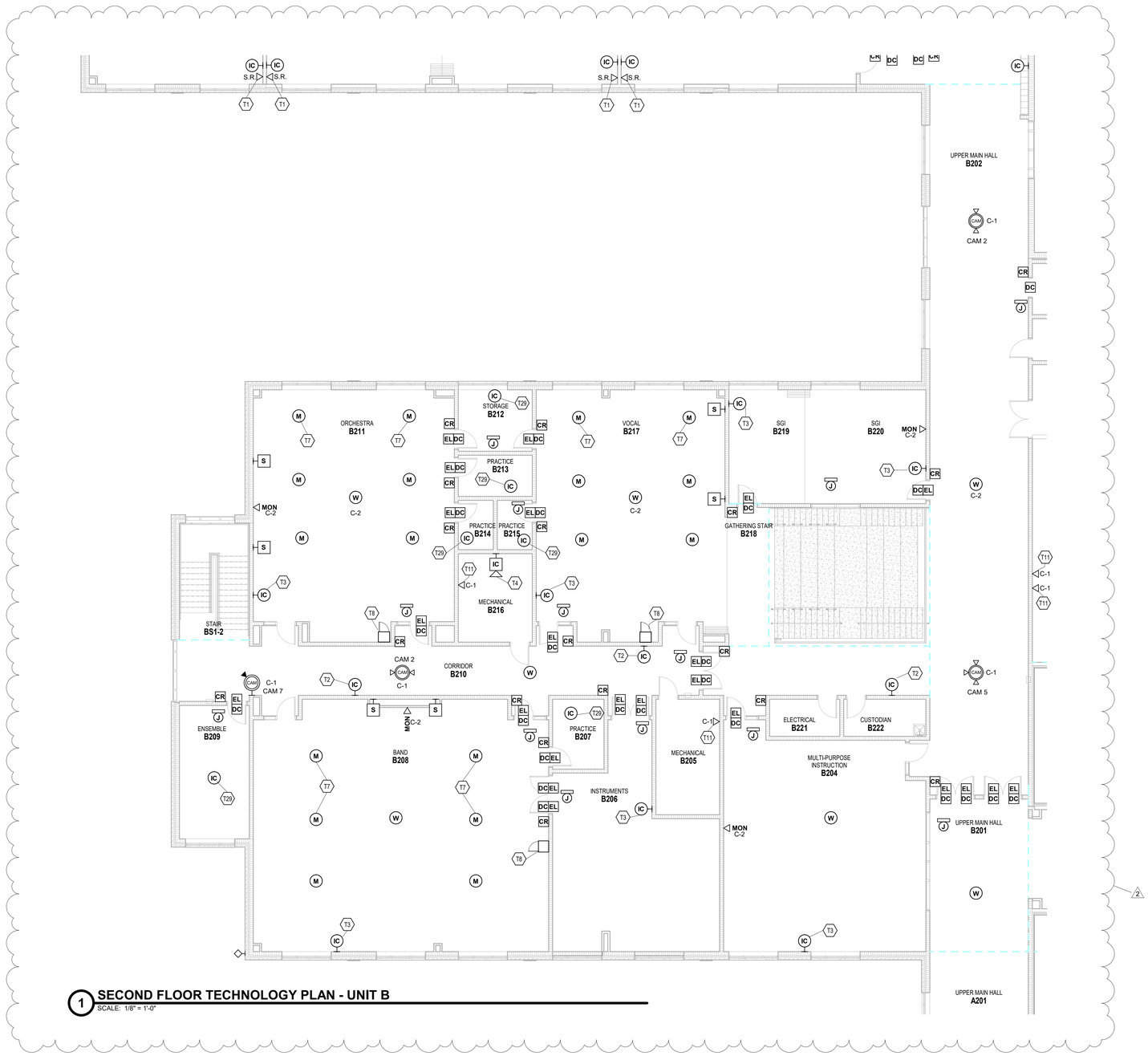
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY PLAN - UNIT A

T-12A

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1 SECOND FLOOR TECHNOLOGY PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
B201	B200	UPPER MAIN HALL	396 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	D205	MECHANICAL	195 SF
B206	D206	INSTRUMENTS	765 SF
B207	D207A	PRACTICE	95 SF
B208	D207	BAND	1902 SF
B209	D209	ENSEMBLE	247 SF
B210	D200	CORRIDOR	843 SF
B211	D208	ORCHESTRA	1271 SF
B212	D208C	STORAGE	120 SF
B213	D208B	PRACTICE	81 SF
B214	D208A	PRACTICE	46 SF
B215	D204A	PRACTICE	46 SF
B216	D200C	MECHANICAL	173 SF
B217	D204	VOCAL	1202 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
BS1-2	STAIR D	STAIR	216 SF
C201	A200	UPPER MAIN HALL	1343 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T7	CONDENSER HANGING MICROPHONE(TYPICAL)
T8	SEE DETAIL ON 2/T-504 FOR MUSIC/VOCAL ROOM SOUND SYSTEM
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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

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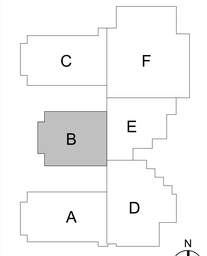
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ARCHITECT

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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

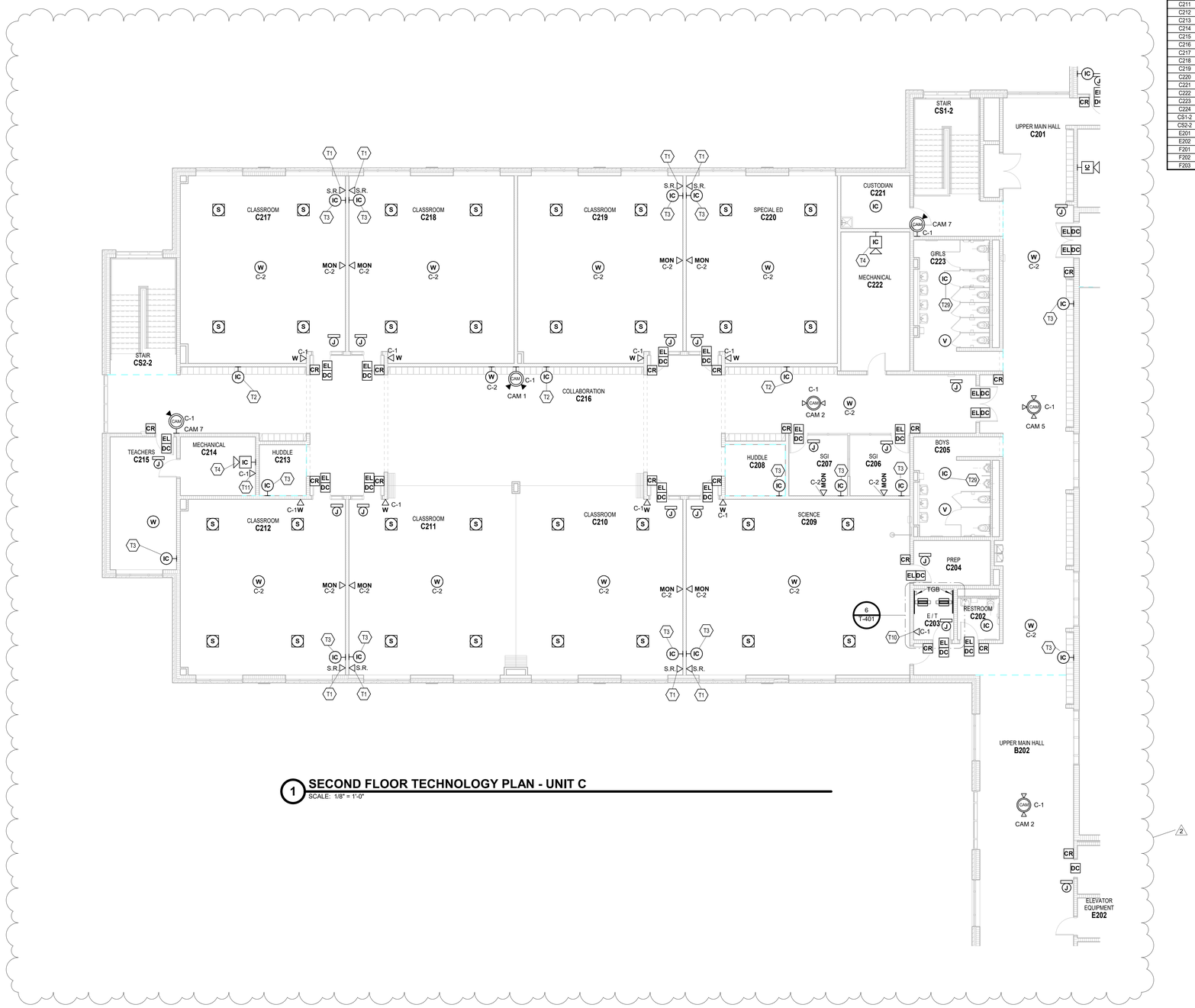
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY PLAN - UNIT B

T-12B

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1 **SECOND FLOOR TECHNOLOGY PLAN - UNIT C**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
B202	A200	UPPER MAIN HALL	1871 SF
C201	A200	UPPER MAIN HALL	1343 SF
C202	A203	RESTROOM	51 SF
C203	A204	E / T	60 SF
C204	E206A	PREP	101 SF
C205	A205	BOYS	217 SF
C206	E201	SGI	109 SF
C207	E203	SGI	107 SF
C208	E205	HUDDLE	90 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
C213	E213	HUDDLE	70 SF
C214	E214A	MECHANICAL	129 SF
C215	E214	TEACHERS	258 SF
C216	E200	COLLABORATION	2369 SF
C217	E212	CLASSROOM	885 SF
C218	E210	CLASSROOM	892 SF
C219	E208	CLASSROOM	889 SF
C220	E204	SPECIAL ED	814 SF
C221	A207	CUSTODIAN	106 SF
C222	E202	MECHANICAL	280 SF
C223	A206	GIRLS	282 SF
C224	A208	ELECTRICAL	24 SF
CS1-2	STAIR F	STAIR	293 SF
CS2-2	STAIR E	STAIR	227 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF
F201	A212	BALCONY	1137 SF
F202	A210	MECHANICAL	543 SF
F203	A209	MULTI-PURPOSE INSTRUCTION	1306 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T10	SEE DETAIL 1/T1.XX FOR MAIN GYMNASIUM SOUND SYSTEM.
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

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

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PORTAGE TOWNSHIP SCHOOLS

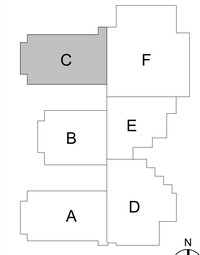
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317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

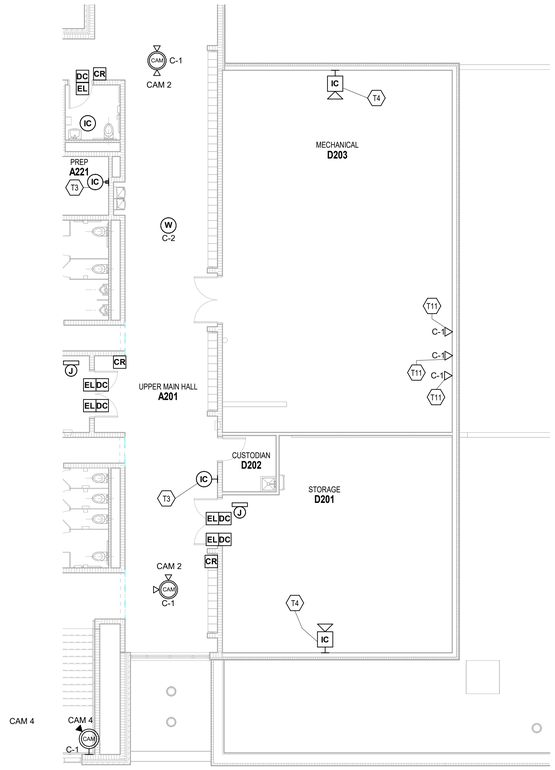
SECOND FLOOR TECHNOLOGY PLAN - UNIT C

T-12C

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ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
A202	B206	GIRLS	217 SF
A209	C200	COLLABORATION	2366 SF
A220	B204	BOYS	217 SF
A221	C206A	PREP	101 SF
A223	B201	RESTROOM	52 SF
AS1-2	STAIR B	STAIR	293 SF
D201	B207	STORAGE	6048 SF
D202	B205	CUSTODIAN	51 SF
D203	B203	MECHANICAL	1413 SF



1 SECOND FLOOR TECHNOLOGY PLAN - UNIT D

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

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.

VERIFICATION NOTE

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

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

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

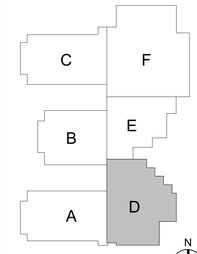
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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025

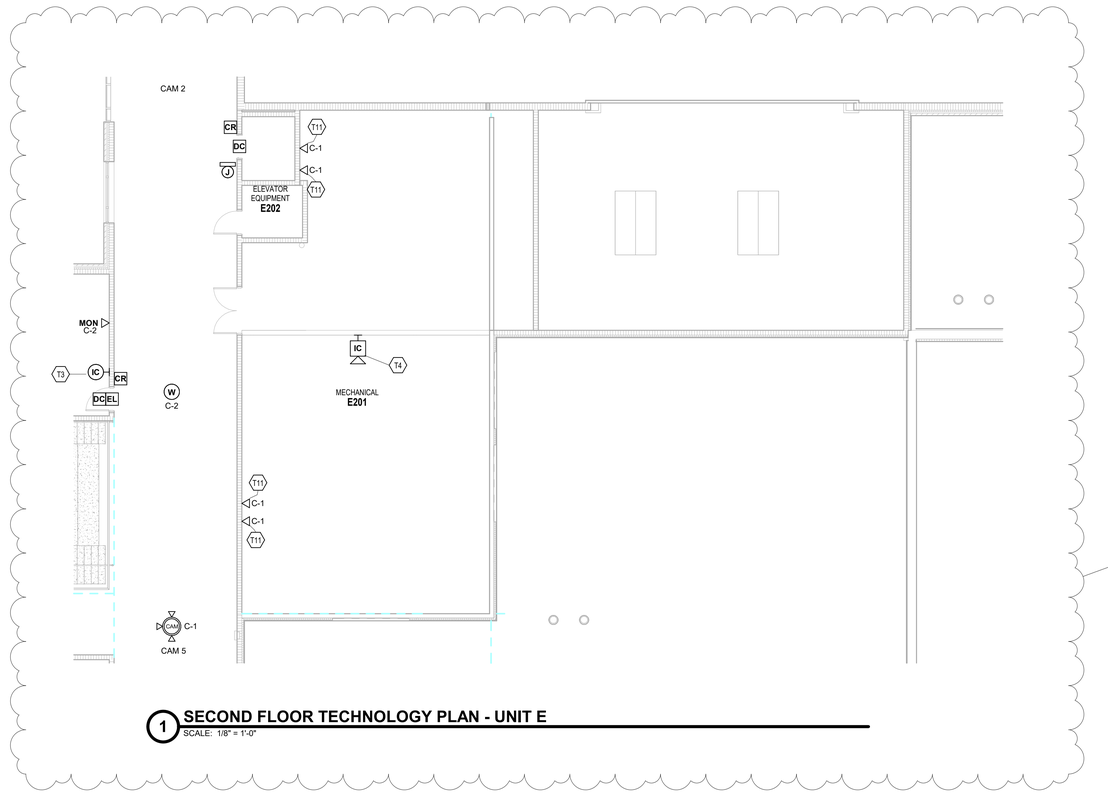
SECOND FLOOR TECHNOLOGY PLAN - UNIT D

T-12D

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ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B220	D202	SGI	358 SF
B222	D200A	CUSTODIAN	81 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF



1 **SECOND FLOOR TECHNOLOGY PLAN - UNIT E**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.

VERIFICATION NOTE

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

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

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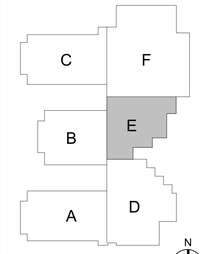
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ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800026 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

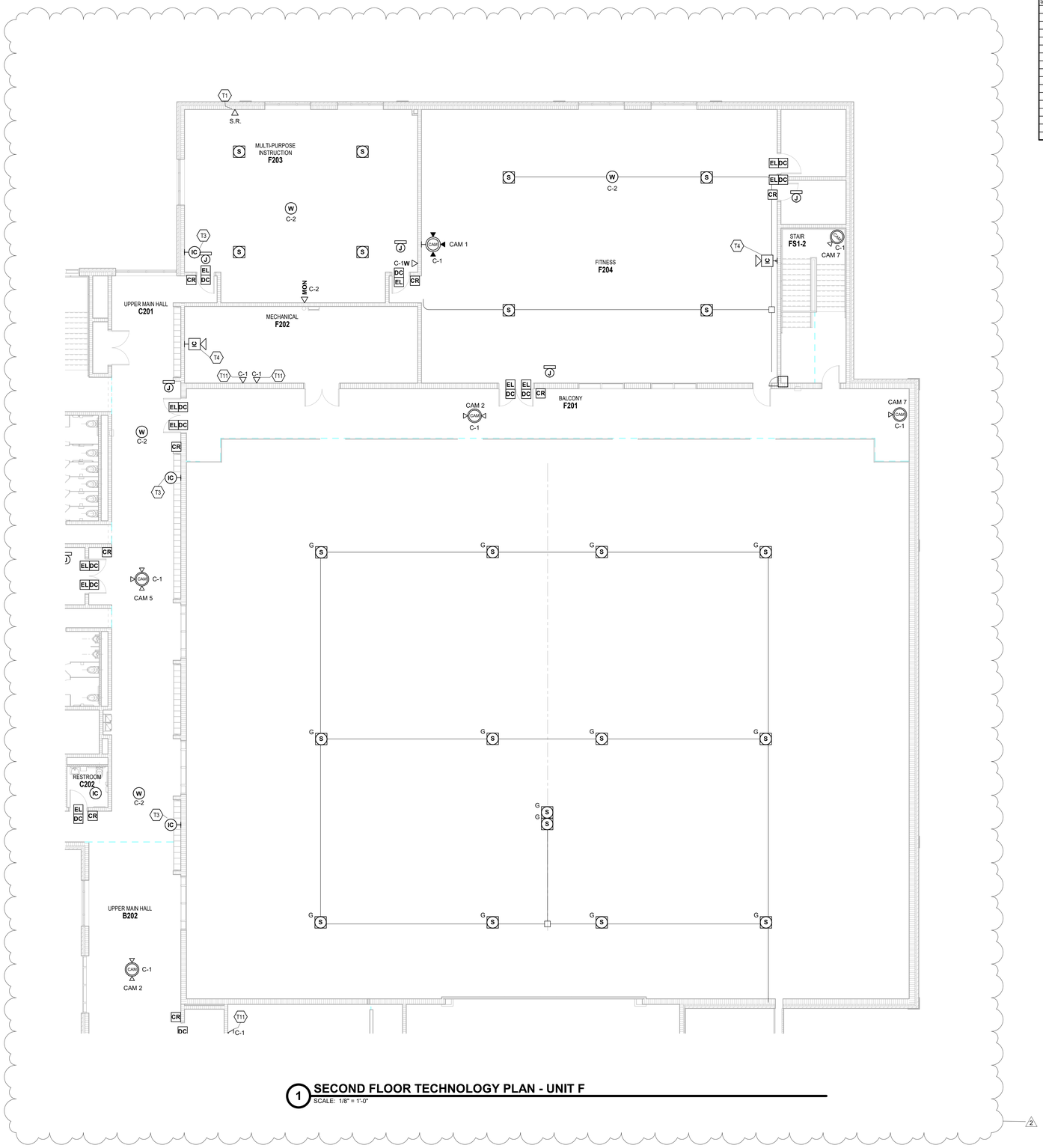
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY PLAN - UNIT E

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1 **SECOND FLOOR TECHNOLOGY PLAN - UNIT F**
SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
B202	A200	UPPER MAIN HALL	1871 SF
C201	A200	UPPER MAIN HALL	1343 SF
C202	A203	RESTROOM	51 SF
C204	E206A	PREP	101 SF
C205	A205	BOYS	217 SF
C216	E200	COLLABORATION	2369 SF
C223	A206	GIRLS	282 SF
C224	A208	ELECTRICAL	24 SF
CS1-2	STAIR F	STAIR	293 SF
E201	A201	MECHANICAL	1995 SF
F201	A212	BALCONY	1137 SF
F202	A210	MECHANICAL	543 SF
F203	A209	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	A211	FITNESS	2985 SF
F205	A211A	STORAGE	133 SF
F206	A211B	ELECTRICAL	87 SF
FS1-2	STAIR G	STAIR	307 SF

TECHNOLOGY PLAN GENERAL NOTES

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

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.

VERIFICATION NOTE

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

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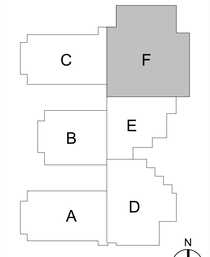
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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800025 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

SECOND FLOOR TECHNOLOGY PLAN - UNIT F

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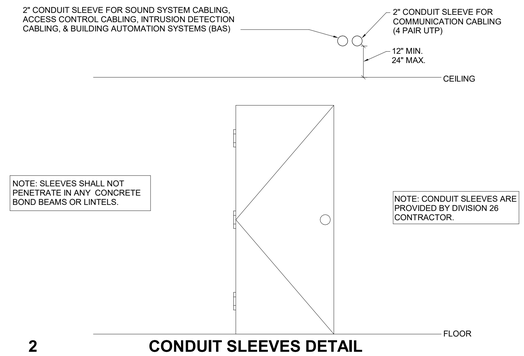


TECHNOLOGY FACEPLATE ABBREVIATIONS

C - RJ45 DATA JACK
B - BLANK INSERT
WB - RJ-45 JACK FOR USB INTERACTIVITY
HD - RJ45 JACK FOR VIDEO
3.5mm - 3.5mm SOLDER JACK
HDMI - HDMI CONNECTOR

NOTE: REFER TO AV WIRING DETAILS FOR EXACT CONFIGURATIONS OF VIDEO INPUT (V.I.), VIDEO OUTPUT (VO), AND AV CABINET LOCATIONS.

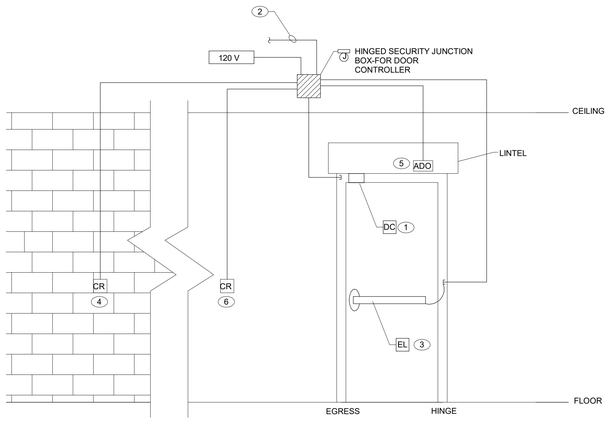
1 WALL PLATE CONFIGURATIONS



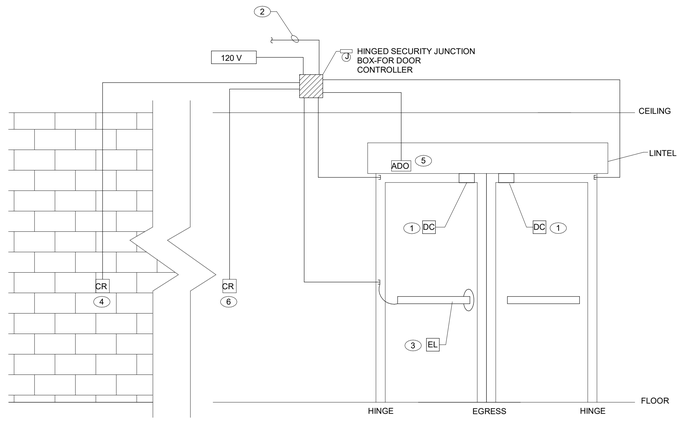
2 CONDUIT SLEEVES DETAIL

CAMERA NUMBER	CAMERA TYPE	NOTE
1	PNM-C12083RVD	2x6MP
2	PNM-C7083RVD	2x2MP
3	PNM-C16013RVQ	MINI 4X4MP SENSOR
4	PNM-C32083RVQ	4x4K SENSOR
5	PNM-8082VT	3x2MP
6	XNV-A9084R	4K
7	QNV-C8013R	5MP WIDE ANGLE
8	PNM-C32083RQZ	4x4K PTRZ
9		
10		

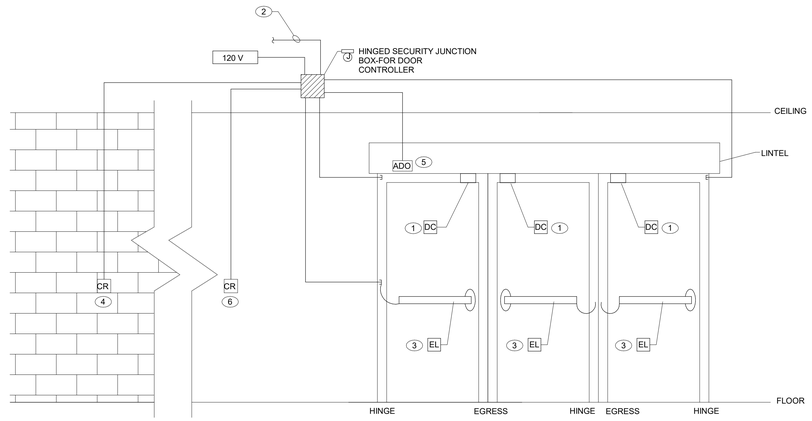
5 CAMERA SCHEDULE MATRIX



SINGLE DOOR ENTRY



DOUBLE DOOR ENTRY

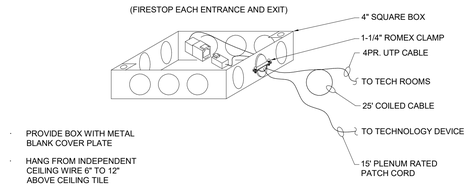


MULTIPLE DOOR ENTRY

DOOR SECURITY WIRING LEGEND

1. PROVIDE 22/2 AWG FOR DOOR CONTACT TO HINGED SECURITY JUNCTION BOX.
2. PROVIDE 4PR UTP FROM HINGED SECURITY JUNCTION BOX TO NEAREST TR OR MC/ER.
3. PROVIDE 18/6 AWG FOR POWER TRANSFER/ELECTRIC LATCH & REQUEST FOR EXIT MICRO SWITCH TO HINGED SECURITY JUNCTION BOX.
4. PROVIDE 22/6 AWG FOR CARD READER TO HINGED SECURITY JUNCTION BOX.
5. PROVIDE 22/4 AWG FROM ADO OPERATOR TO HINGED SECURITY JUNCTION BOX.
6. PROVIDE 22/6 AWG FOR CARD READER TO HINGED SECURITY JUNCTION BOX. INTERFACE CARD READER WITH INTRUSION DETECTION SYSTEM TO DISABLE ALARM SYSTEM.

NOTE: TYPICAL DOOR WIRING DETAILS BY THE SECURITY SYSTEM CONTRACTOR. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND DOOR CONFIGURATIONS



3 ABOVE CEILING JUNCTION BOX - WIRING DETAIL

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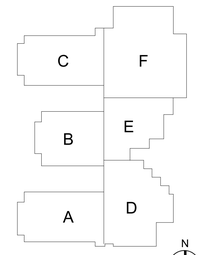
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ARCHITECT

FANNING HOWEY

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900005 STATE OF INDIANA PROFESSIONAL ENGINEER

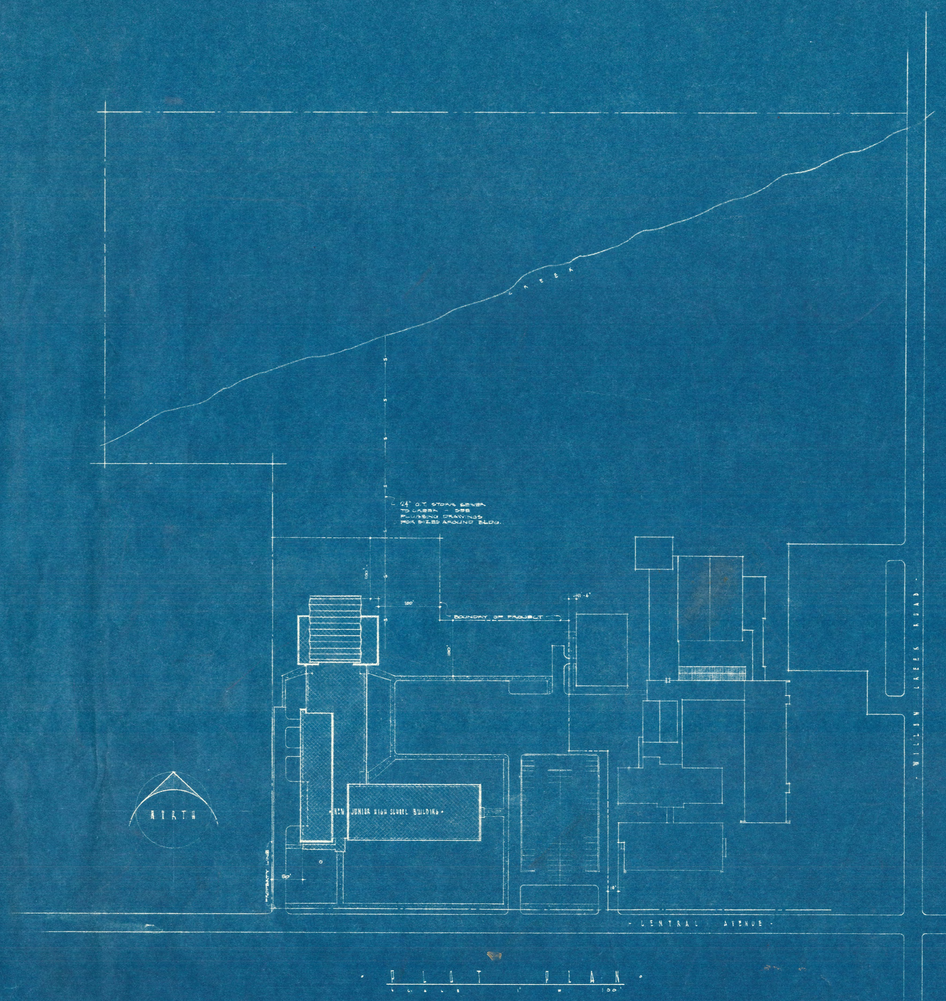
PROJECT MANAGER: MKS
DRAWN BY: JJR
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

TECHNOLOGY DETAILS

T-501

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PORTAGE
JUNIOR HIGH SCHOOL

PORTAGE TOWNSHIP, INDIANA

WALLACE AYLESWORTH
SUPERINTENDENT OF SCHOOLS

PORTAGE TOWNSHIP SCHOOL BOARD

GORDON E. LAMB	PRESIDENT
G. LINDEN THORN	SECRETARY
DR. MAURICE P. AVERY JR.	TREASURER
INGUID BRANT	MEMBER
JOHN W. KIMBERLIN	MEMBER

BUILDING ERECTED BY

PORTAGE SCHOOL BUILDING CORPORATION

ROBERT J. WALKER	PRESIDENT
RICHARD C. LIGHTFOOT	VICE-PRESIDENT
LEO T. HATCH	SECRETARY
WALLACE D. McCORMACK	TREASURER
LEONARD W. WHELPLEY	MEMBER

RICHARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

Richard L. Wildermuth
REGISTERED ARCHITECT
No. 922
STATE OF INDIANA
ARCHITECT

TYPICAL CURB

SECTION THRU PARKING CURB

FINISHED GRADE 19.0 AT BLDG. & TAPERED 20' TO EXISTING GRADE GRADE W/ WALK

CONCRETE WALK

CONCRETE CURB

ASPHALT PAVING

FILLED WITH EARTH

SUBGRADE

CONCRETE CURB

ASPHALT PAVING

SLOPE

2" x 4" x 10' GRADE BOARD

+ 906' = EXISTING SHOP FLOOR

EXISTING GRADE

ASPHALT PAVING

EXISTING WALL

PROJECT LINE

EXISTING BUILDING LINE

EXISTING BLACKTOP

ASPHALT PAVING AREA

PROPERTY LINE

5' CONCRETE WALK

5' CONCRETE CURB

25 CARS

19 CARS

12" S.T.-2

CATCH BASIN

10" S.T.

CATCH BASIN

ALL PARKING STALLS 9' x 20' OR 180 SQ. FT.

78 CARS

5' CONCRETE CURB

5' CONCRETE WALK

STONE COPING

STONE COPING

STONE COPING

STONE COPING

ASPHALT PAVING

ASPHALT PAVING

UNDERGROUND ELEC. SERVICE

ELEC. TRANSFORMER PAD

FLAG POLE

SKYLIGHT

FINISHED FIRST FLOOR GRADE = 20.0'

NOTE: GRADES SHOWN OVER SOLID LINE (20') ARE EXISTING & GRADES SHOWN OVER DASHED LINE (20') ARE PROPOSED FINISH GRADE.

1170.2 = T OF R.W. COVER

ABOVE EXISTING ELEVATOR

EXISTING ELEVATOR

5' CONCRETE WALK

5' CONCRETE CURB

PROPERTY LINE

PROJECT & PROPERTY LINE

EXISTING & PROPERTY LINE

L E N T A A V E N U E

ADOPTED SITE PLAN

NORTH

CERTIFIED TO BY: Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED No. 922 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL

FOR

PORTAGE TOWNSHIP

VALPARAISO, INDIANA - EXPENDITURE

ERECTED BY

PORTAGE TOWNSHIP BUILDING CORPORATION

RICHARD L. WILDERMUTH

ARCHITECT

VALPARAISO INDIANA

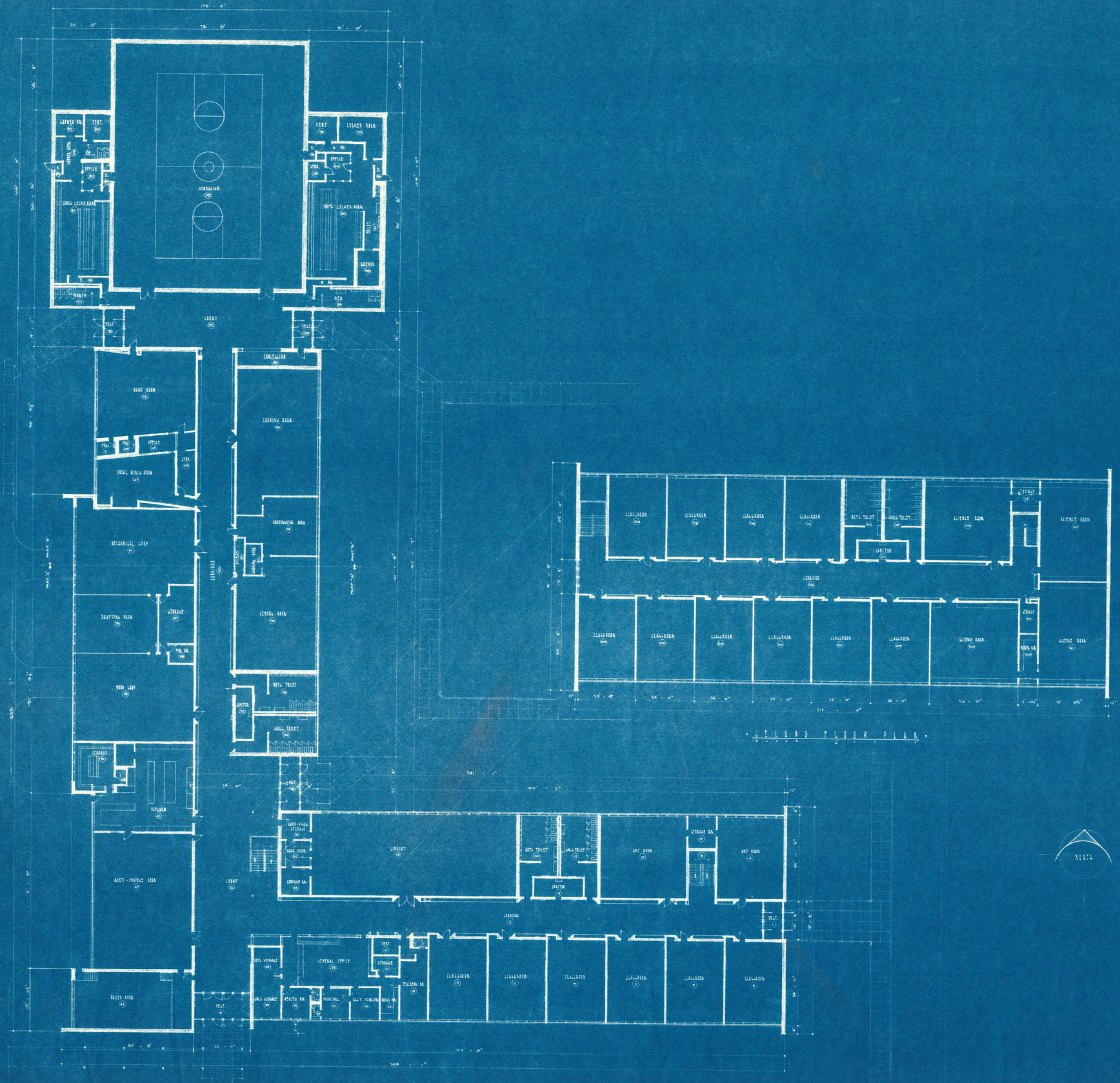
A-2

DRAWN BY: M.T. & H.M.

CHECKED BY: R.L.W.

DATE: DEC. 15, 1961

REVISED



FIRST FLOOR PLAN

LEGEND FOR PLAN

APPROVED BY Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED No. 922 STATE OF INDIANA ARCHITECT

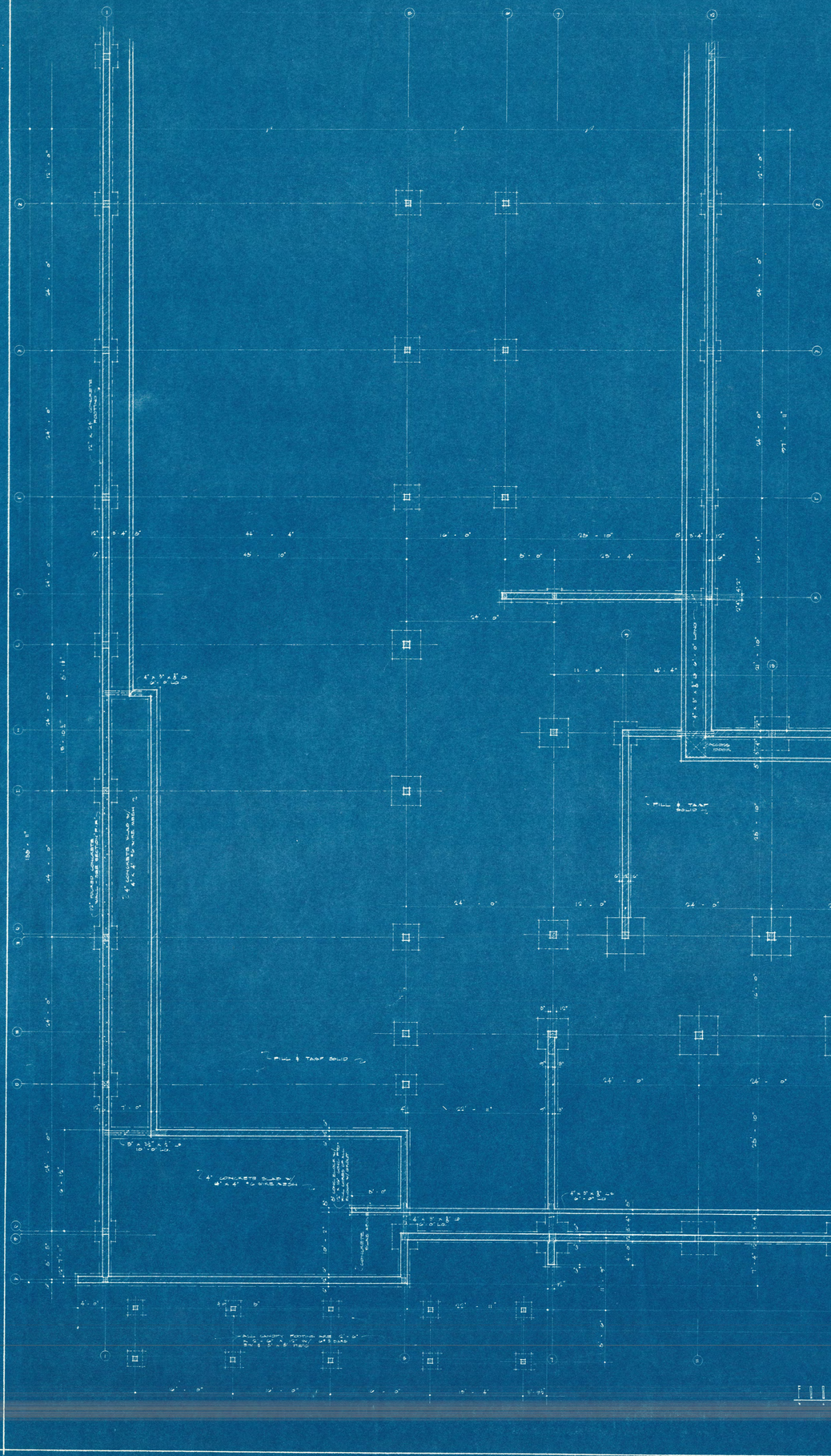
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
VALPARAISO ROAD - PORTAGE, INDIANA

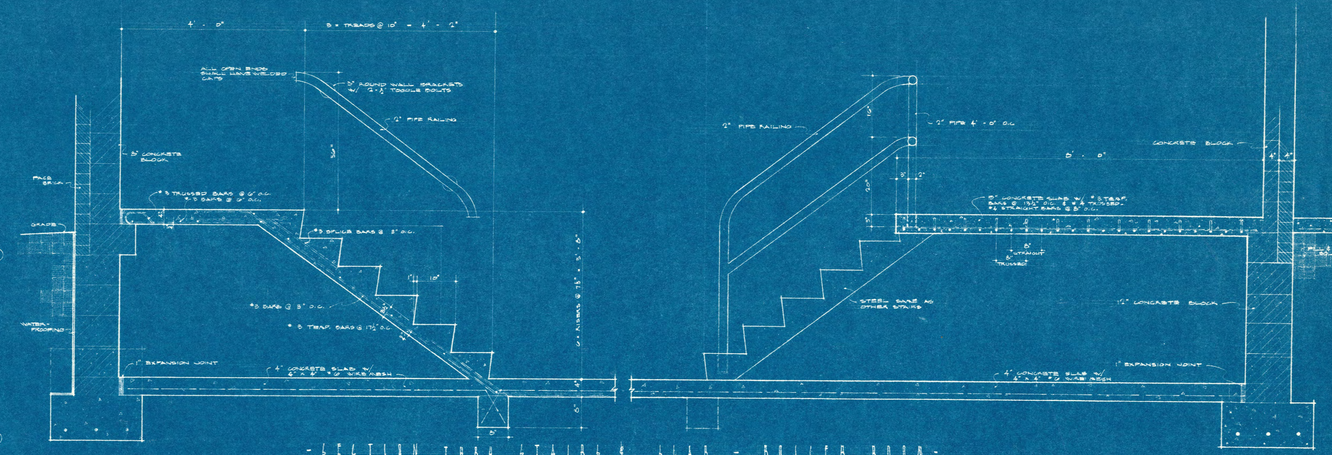
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PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WILDERMUTH
ARCHITECT PORTAGE, INDIANA

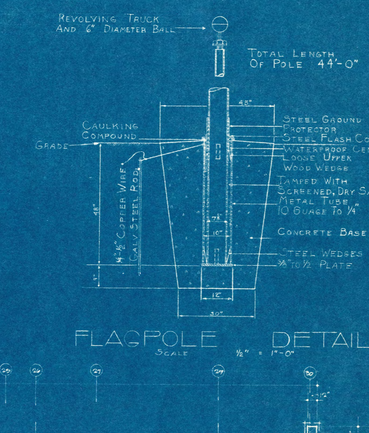
DRAWN BY
CHECKED BY
DATE
REVISED





- SECTION THRU STAIRS & WALL - BOILER ROOM -

PIER & FITTING SCHEDULE											
LOCATION NO	PIER SIZE	FOOTING SIZE	PTS REIN.	LOCATION NO	PIER SIZE	FOOTING SIZE	PTS REIN.	LOCATION NO	PIER SIZE	FOOTING SIZE	PTS REIN.
A1 - A2	8" x 8"	1'-0" x 1'-0" x 1'0"	4 #5 EW	0L09 - 0L27	8" x 8"	1'-6" x 1'-6" x 1'0"	4 #5 EW	N12-N13-013-N13-B12	12" x 12"	3'-4" x 3'-4" x 1'0"	7 #5 EW
B5	12" x 12"	4'-0" x 4'-0" x 1'0"	9 #5 EW	0L 28 - 0L47	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW	D1	12" x 12"	3'-6" x 3'-6" x 1'0"	7 #5 EW
B7	12" x 12"	5'-6" x 5'-6" x 1'0"	10 #5 EW	H5	12" x 12"	4'-5" x 4'-5" x 1'0"	9 #5 EW	D3	12" x 12"	3'-5" x 3'-5" x 1'0"	7 #5 EW
B11 - B14 - B16 - B18 B20 - B22 - B24 - B26	12" x 12"	5'-4" x 5'-4" x 1'0"	10 #5 EW	I7	12" x 12"	4'-5" x 4'-5" x 1'0"	9 #5 EW	F2	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
B30	12" x 12"	4'-0" x 4'-0" x 1'0"	9 #5 EW	I7	12" x 12"	3'-5" x 3'-5" x 1'0"	7 #5 EW	F5	12" x 12"	5'-5" x 5'-5" x 1'0"	9 #5 EW
C1	12" x 12"	5'-4" x 5'-4" x 1'0"	7 #5 EW	I16	12" x 12"	5'-6" x 5'-6" x 1'0"	10 #5 EW	G1	8" x 8"	2'-4" x 2'-4" x 1'0"	4 #5 EW
D1-M1-H2-L2-A1-N1	12" x 12"	5'-5" x 5'-5" x 1'0"	7 #5 EW	I18 - I17 - I25	12" x 12"	6'-4" x 6'-4" x 1'0"	13 #5 EW	H2	12" x 12"	5'-0" x 5'-0" x 1'0"	9 #5 EW
D5	12" x 12"	5'-4" x 5'-4" x 1'0"	7 #5 EW	I19	12" x 12"	6'-0" x 6'-0" x 1'0"	11 #5 EW	A8	12" x 12"	5'-4" x 5'-4" x 1'0"	7 #5 EW
E5	12" x 12"	5'-9" x 5'-9" x 1'0"	7 #5 EW	I21	12" x 12"	5'-5" x 5'-5" x 1'0"	10 #5 EW	S2	12" x 12"	5'-0" x 5'-0" x 1'0"	7 #5 EW
E7	12" x 12"	5'-0" x 5'-0" x 1'0"	8 #5 EW	I30	12" x 12"	4'-10" x 4'-10" x 1'0"	10 #5 EW	S5 - T5	12" x 12"	3'-9" x 3'-9" x 1'0"	7 #5 EW
B11-013-B14-013-B16 013-B18-B20-B22	14" x 14"	6'-8" x 6'-8" x 1'0"	14 #5 EW	I29	12" x 12"	4'-6" x 4'-6" x 1'0"	9 #5 EW	T3	12" x 12"	3'-0" x 3'-0" x 1'0"	7 #5 EW
B24 - B27 - 013	14" x 14"	6'-0" x 6'-0" x 1'0"	13 #5 EW	I30	12" x 12"	6'-0" x 6'-0" x 1'0"	9 #5 EW	T12	12" x 12"	3'-0" x 3'-0" x 1'0"	7 #5 EW
B30 - 030	12" x 12"	5'-0" x 5'-0" x 1'0"	10 #5 EW	J8	12" x 12"	4'-5" x 4'-5" x 1'0"	9 #5 EW	U2	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
F5	12" x 12"	4'-0" x 4'-0" x 1'0"	9 #5 EW	N4	8" x 8"	2'-6" x 2'-6" x 1'0"	6 #5 EW	U4-V4	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
G7	12" x 12"	4'-5" x 4'-5" x 1'0"	9 #5 EW	N7	8" x 8"	2'-4" x 2'-4" x 1'0"	6 #5 EW	U5-V5	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
G9	12" x 12"	4'-0" x 4'-0" x 1'0"	9 #5 EW	N12	8" x 8"	2'-5" x 2'-5" x 1'0"	6 #5 EW	U12	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
G17	14" x 14"	6'-8" x 6'-8" x 1'0"	14 #5 EW	L8-A8-N8	12" x 12"	4'-8" x 4'-8" x 1'0"	9 #5 EW	V8	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
G21	14" x 14"	6'-8" x 6'-8" x 1'0"	14 #5 EW	L6	12" x 12"	5'-4" x 5'-4" x 1'0"	7 #5 EW	V6	8" x 8"	2'-0" x 2'-0" x 1'0"	4 #5 EW
G23	12" x 12"	4'-8" x 4'-8" x 1'0"	9 #5 EW	L12	12" x 12"	5'-6" x 5'-6" x 1'0"	9 #5 EW	V2-A2-T2-Z2 V10-A10-T10-Z10	14" x 14"	6'-8" x 6'-8" x 1'0"	15 #5 EW
G27	12" x 12"	4'-8" x 4'-8" x 1'0"	9 #5 EW	N4-N6-P6-N6-S4-T6	12" x 12"	5'-6" x 5'-6" x 1'0"	7 #5 EW	V3-V10-Z3-Z10	14" x 14"	6'-10" x 6'-10" x 1'0"	15 #5 EW



FOOTING & FOUNDATION PLAN - PART 'A'

CERTIFIED TO BY: Richard L. Wilderman

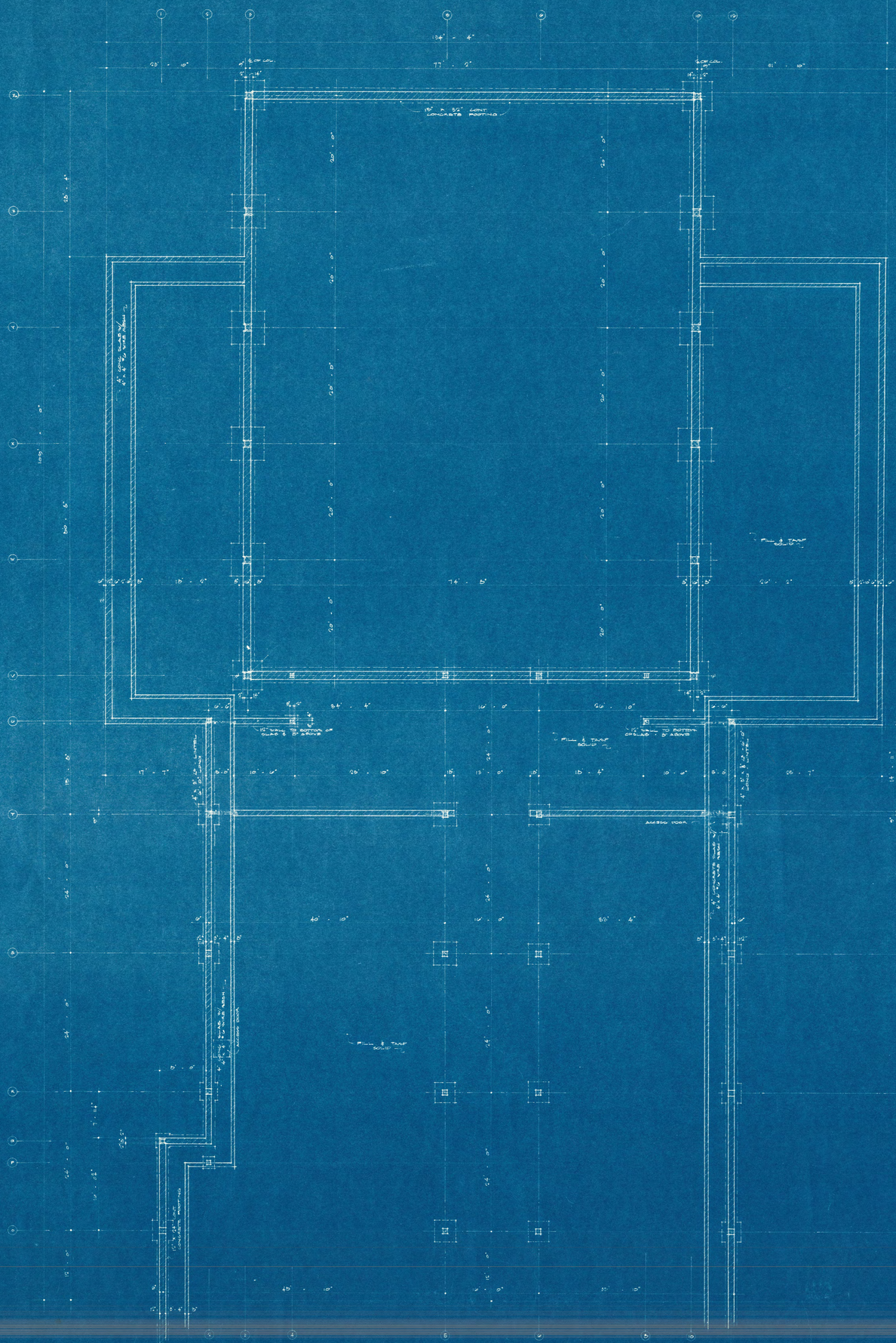
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE ATTLESWORTH - SUPERINTENDENT

ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION

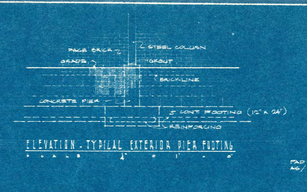
RICHARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

A4

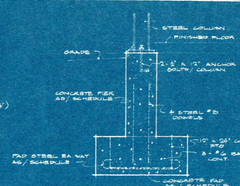
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CHECKED BY: R.L.W.
DATE: 5-12-41
REVISED



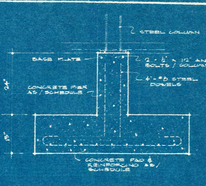
FOOTING & FOUNDATION PLAN - PART "B"



ELEVATION - TYPICAL EXTERIOR PIER FOOTING



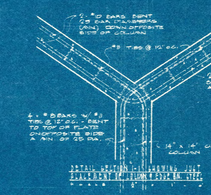
EXTERIOR PIER DETAIL



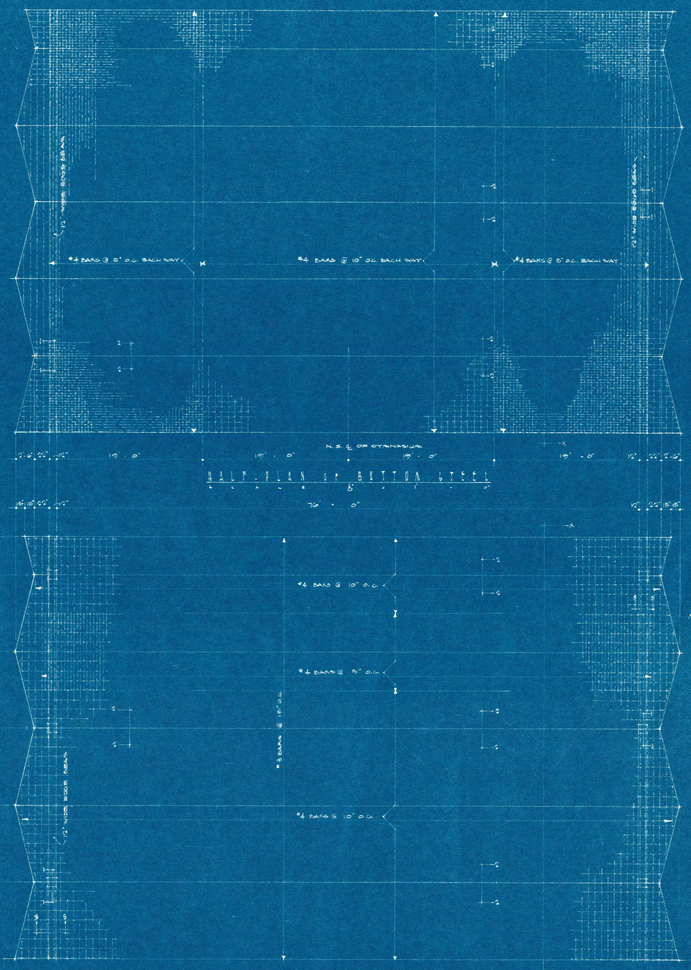
INTERIOR PIER DETAIL



SECTION - PIPE TUNNEL ACCESS DOOR



DETAIL SECTION SHOWING TOP & BOTTOM STEEL IN PLATE

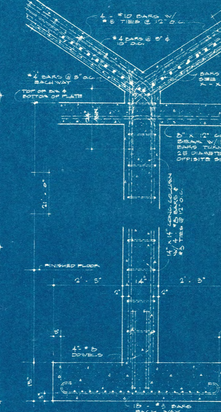


HALF PLAN OF BOTTOM STEEL

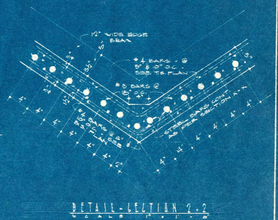
HALF PLAN OF TOP STEEL

NOTE:
OTHER HALF OF ROOF HAS OPPOSITE ARRANGEMENT OF REINFORCING.

ANY SPLICING OF TOP OR BOTTOM STEEL SHALL BE - TOP PLATE STEEL @ RIDGE OF PLATES & BOTTOM STEEL @ PEAKS AND OR VALLEYS.

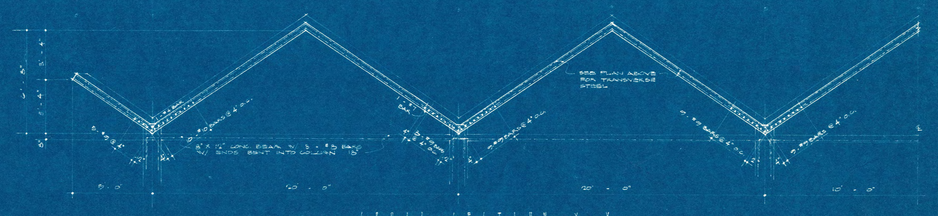


DETAIL-SECTION S-3



DETAIL-SECTION S-2

DETAIL-SECTION S-1


SEE PLAN ABOVE FOR TRANSVERSE STEEL
#4 BARS @ 5" O.C.
#4 BARS @ 10" O.C.

ROOM FINISH SCHEDULE

SYMBOLS	NO.	ROOM	FLOOR MAT.	FLOOR PIN.	BASE MAT.	BASE PIN.	WALL MAT.	WALL PIN.	WAINSCOTE MAT.	WAINSCOTE PIN.	WAINSCOTE HEIGHT	CEILING MAT.	CEILING PIN.	CEILING HEIGHT	ALTERNATE BID IF WAINSCOTE MAT.	ALTERNATE BID IF WAINSCOTE PIN.	ALTERNATE BID IF WAINSCOTE HEIGHT
CB = CONCRETE BLOCK	1	VESTIBULE	T	W	-	-	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
B = BRICK	2	CORRIDOR	VT	W	RT	W	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
GT = GLAZED TILE	3	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
P = PAINT	4	ART ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
PL = PLASTER	5	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
ACC = ACCOUSTICAL TILE	6	STORAGE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
AT = ASPHALT TILE	7	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
C = CONCRETE	8	STAIRWELL	VT	W	RT	W	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
GL = GLASS	9	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
WD = WOOD	10	ART ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
AP = ACOUSTICAL PLASTER	11	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
T = TERRAZZO	12	GIRLS TOILET	T	W	-	-	CB	P	CB	PC	7'-0"	PL	P	9'-0"	-	-	-
VT = VYNAL TILE	13	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
RT = RUBBER TILE	14	JANITOR	C	-	-	-	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
PC = PLASTIC COATING	15	TEACHERS ROOM	AT	C	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PC	5'-0"
W = WAX	16	BOYS TOILET	T	W	-	-	CB	P	CB	PC	7'-0"	PL	P	9'-0"	-	-	-
	17	TOILET	VT	W	RT	W	CB	PC	-	-	-	PL	P	9'-0"	-	-	-
	18	LIBRARY	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	19	VENTILATING ROOM	C	-	-	-	CB	P	-	-	-	PL	P	9'-0"	-	-	-
	20	AUDIO-VISUAL STORAGE	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	21	STORAGE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	22	WORK ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	23	WORK ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	24	STORAGE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	25	ASST. PRINCIPAL	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	26	LOBBY	VT	W	RT	W	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
	27	PRINCIPAL	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
	28	VESTIBULE	T	W	-	-	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-

NO.	ROOM	FLOOR MAT.	FLOOR PIN.	BASE MAT.	BASE PIN.	WALL MAT.	WALL PIN.	WAINSCOTE MAT.	WAINSCOTE PIN.	WAINSCOTE HEIGHT	CEILING MAT.	CEILING PIN.	CEILING HEIGHT	ALTERNATE BID IF WAINSCOTE MAT.	ALTERNATE BID IF WAINSCOTE PIN.	ALTERNATE BID IF WAINSCOTE HEIGHT
29	TOILET	VT	W	RT	W	CB	PC	-	-	-	PL	P	9'-0"	-	-	-
30	GIRLS TOILET	T	W	-	-	CB	P	CB	PC	7'-0"	PL	P	9'-0"	-	-	-
31	TOILET	VT	W	RT	W	CB	PC	-	-	-	PL	P	9'-0"	-	-	-
32	JANITOR	C	-	-	-	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
33	GENERAL OFFICE	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
34	BOYS TOILET	T	W	-	-	CB	P	CB	PC	7'-0"	PL	P	9'-0"	-	-	-
35	BOYS GUIDANCE	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
36	SERVING ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
37	HEALTH ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
38	CORRIDOR	VT	W	RT	W	CB	PC	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
39	GIRLS GUIDANCE	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
40	DISPLAY	WD	-	-	-	WD	-	-	-	-	-	-	-	-	-	-
41	VENT SHAFT	T	W	-	-	CB	P	CB	PC	7'-0"	ACC	-	9'-0"	-	-	-
42	BOILER ROOM	C	-	-	-	CB	P	-	-	-	PL	P	14'-0"	-	-	-
43	MULTI-PURPOSE ROOM	AT	W	RT	-	CB	P	-	-	-	ACC	-	10'-0"	CB	PC	7'-0"
44	KITCHEN	T	W	-	-	CB	PC	-	-	-	PL	P	10'-0"	-	-	-
45	TOILET	VT	W	RT	W	CB	PC	-	-	-	PL	P	8'-0"	-	-	-
46	STORAGE	C	-	-	-	CB	P	-	-	-	PL	P	10'-0"	-	-	-
53	WOODSHOP	C	-	-	-	CB	P	-	-	-	ACC	-	10'-0"	CB	PC	5'-0"
66	FINISHING ROOM	C	-	-	-	CB	P	-	-	-	ACC	-	10'-0"	CB	PC	5'-0"
67	STORAGE ROOM	C	-	-	-	CB	P	-	-	-	ACC	-	10'-0"	-	-	-
50	DRAFTING ROOM	AT	W	AT	W	CB	P	-	-	-	ACC	-	10'-0"	CB	PC	5'-0"
51	MECHANICAL SHOP	C	-	-	-	CB	P	-	-	-	ACC	-	10'-0"	CB	PC	5'-0"
68																

FIRST FLOOR PLAN - PART "A"

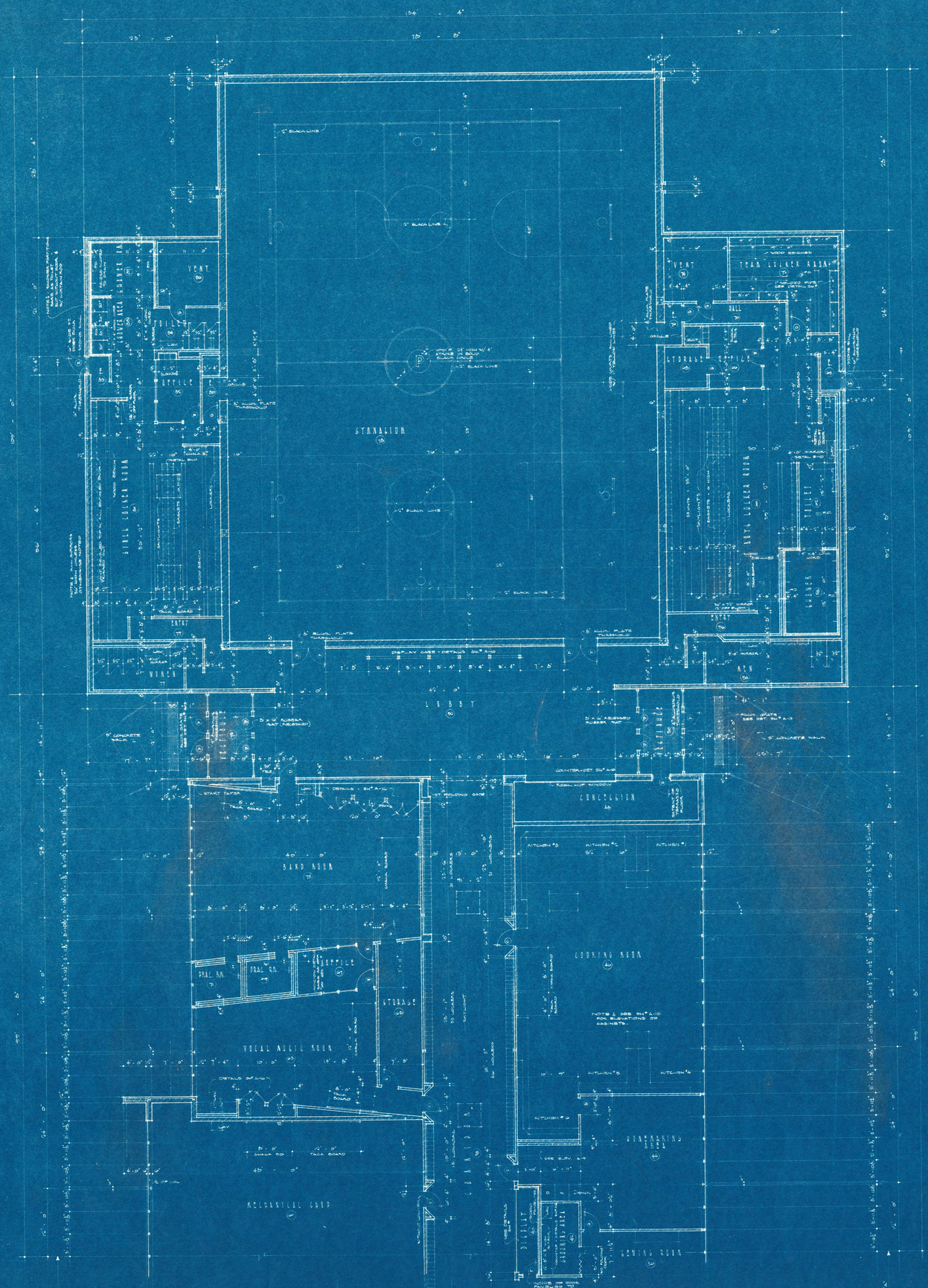
CERTIFIED TO BY Richard L. Wilderanth

RICHARD L. WILDERANTH Registered ARCHITECT No. 922 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE ATTLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERANTH
ARCHITECT
GARY, INDIANA

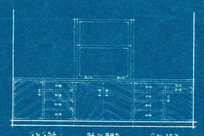
A-6

DRAWN BY
CHECKED BY
DATE
SHEET NO.


GYMNASIUM
BOYS LOCKER ROOM
GIRLS LOCKER ROOM
TEAM LOCKER ROOM
VENT
TOILET
OFFICE
STORAGE
LOBBY
BAND ROOM
VOCAL MUSIC ROOM
RECREATIONAL ROOM
CONCESSION
COOKING ROOM
SEWING ROOM
WORKBENCH
KITCHEN
PRAC. RM.
STORAGE
DRIVEWAY - DETAILS ON PLANS
WALK - DETAILS ON PLANS
CONCRETE WALK
5" BLACK LINE
ENTRY
TALK BOARD
LOCKERS
SHOWERS
DRINKING FOUNTAIN
CLOTHES RACKS
WOOD BENCH
METAL DOOR
WOOD DOOR
ROLL-UP WINDOW
COUNTER-SILL
SERVICE WINDOW
SERVICE DOOR
SERVICE COUNTER
SINK
RANGE
REFRIGERATOR
CABINETS
HOOD OVER RANGE
DUCT
GRILLE
WOOD BRIDGE
STEEL BEAM
CONCRETE BEAM
CONCRETE COLUMN
STEEL COLUMN
CONCRETE FLOOR
WOOD FLOOR
TERRAZZO
TILE
RUBBER TILE
ASPHALT TILE
ACOUSTICAL TILE
PLASTER
GLASS
WOOD
CONCRETE BLOCK
BRICK
STEEL DOOR
WOOD DOOR
ROOF DRAIN
SCUPPER
DOWN SPOUT
CLEAN OUT
FLOOR DRAIN
HOSE BIBB
ELECTRIC OUTLET
TELEPHONE OUTLET
CLOCK OUTLET
SPEAKER OUTLET
TELEVISION OUTLET
FIRE EXTINGUISHER
FIRE HOSE CABINET
FIRE ALARM BOX
FIRE ALARM BELL
FIRE ALARM GONG
FIRE ALARM HORN
FIRE ALARM STROBE
FIRE ALARM SPEAKER
FIRE ALARM CONTROL PANEL
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FIRE ALARM DUCT DETECTOR
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FIRE ALARM SPRINKLER VALVE
FIRE ALARM SPRINKLER HEAD
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ROOM FINISH SCHEDULE

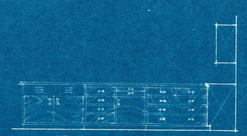
SYMBOLS	NO.	ROOM	FLOOR MAT	FLOOR FIN	BASE MAT	BASE FIN	WALL MAT	WALL FIN	MAIN+CURB MAT	MAIN+CURB FIN	MAIN+CURB HEIGHT	CEILING MAT	CEILING FIN	CEILING HEIGHT	ALTERNATE BID IF ELIMINATED: WALL MAT	WALL FIN	WALL HEIGHT
CB = CONCRETE BLOCK	0	STAIRWELL	VT	W	AT	W	CB	P	CB	PL	7'-0"	ACC	-	9'-0"	-	-	-
B = BRICK	201	SCIENCE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
QT = GLAZED TILE	202	SCIENCE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
WD = WOOD	203	STORAGE ROOM	C	-	-	-	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
PL = PLASTER	204	STORAGE ROOM	AT	W	AT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
AF = ACOUSTICAL PLASTER	205	WORK ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
ACC = ACOUSTICAL TILE	206	SCIENCE ROOM	AT	W	AT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
C = CONCRETE	207	SCIENCE ROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
T = TERRAZZO	208	GIRLS TOILET	T	W	-	-	CB	P	CB	PL	7'-0"	PL	P	9'-0"	-	-	-
GL = GLASS	209	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
AT = ASPHALT TILE	210	JANITOR	C	-	-	-	CB	P	-	-	-	ACC	-	9'-0"	-	-	-
VT = VYNAL TILE	211	CLASSROOM	AT	W	AT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
RT = RUBBER TILE	212	BOYS TOILET	T	W	-	-	CB	P	CB	PL	7'-0"	PL	P	9'-0"	-	-	-
PL = PLASTIC COATING	213	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
P = PAINT	214	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
W = WAX	215	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
	216	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
	217	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
	218	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
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	220	CLASSROOM	AT	W	RT	W	CB	P	-	-	-	ACC	-	9'-0"	CB	PL	5'-0"
	221	CORRIDOR	VT	W	RT	W	CB	P	CB	PL	7'-0"	ACC	-	9'-0"	-	-	-
	222	STAIRWELL	VT	W	AT	W	CB	PL	-	-	-	ACC	-	9'-0"	-	-	-



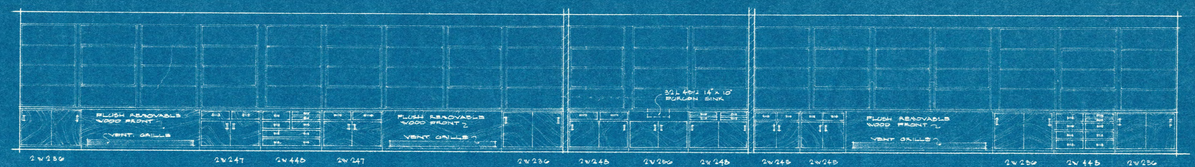
SOUTH ELEVATION - ROOM "204"



N. ELEVATION - ROOM "205"

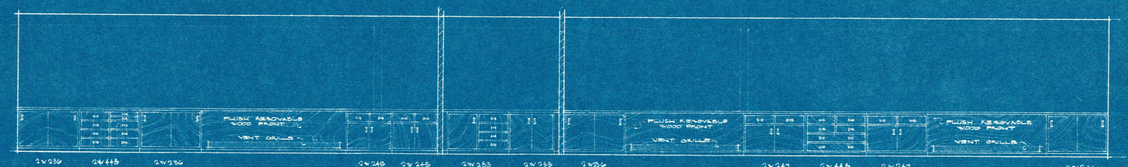


WEST ELEVATION - ROOM "206"



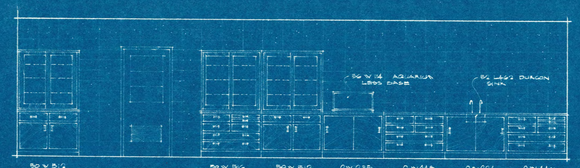
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NORTH INTERIOR ELEVATION

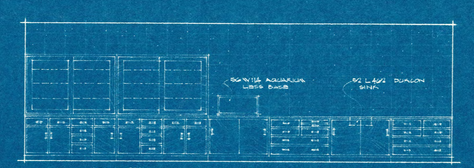


SCIENCE ROOM "201" WORK ROOM "205" SCIENCE ROOM "203"

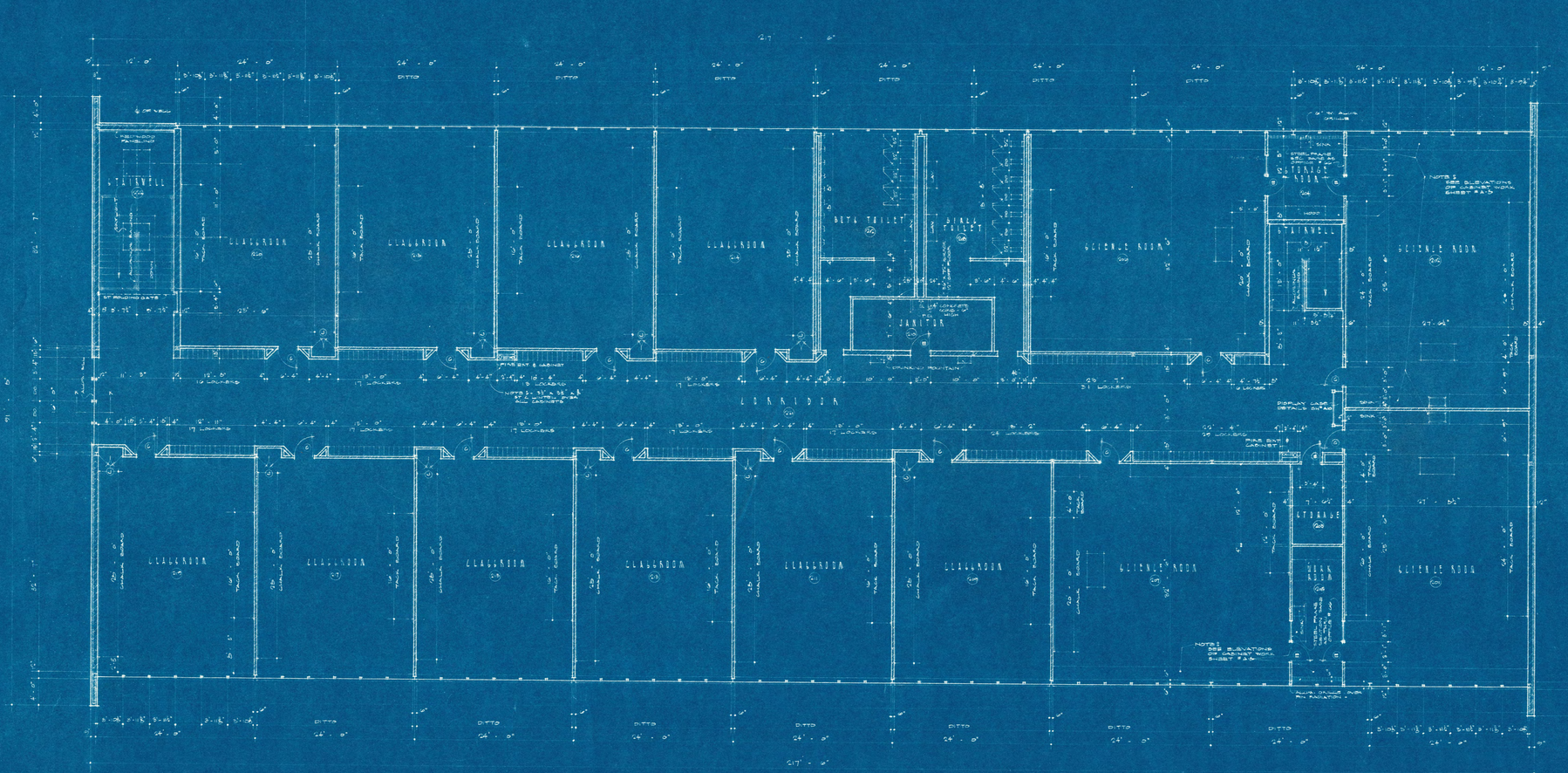
SOUTH INTERIOR ELEVATION



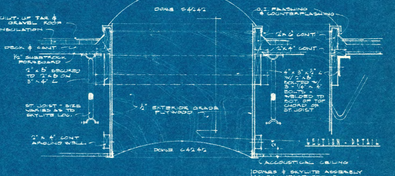
SOUTH ELEVATION - SCIENCE ROOM 206
NORTH ELEVATION - SCIENCE ROOM 203



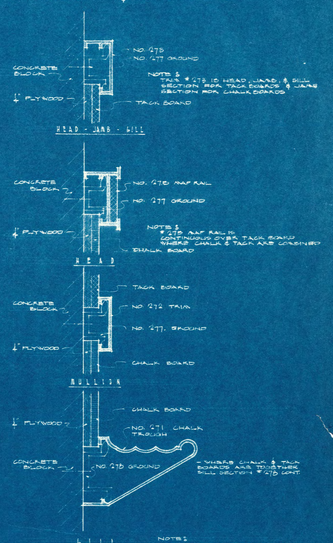
NORTH ELEVATION - SCIENCE ROOM 201 (OPPOSITE)
SOUTH ELEVATION - SCIENCE ROOM 202



GROUND FLOOR PLAN



SECTION THRU TYPICAL GUTTER

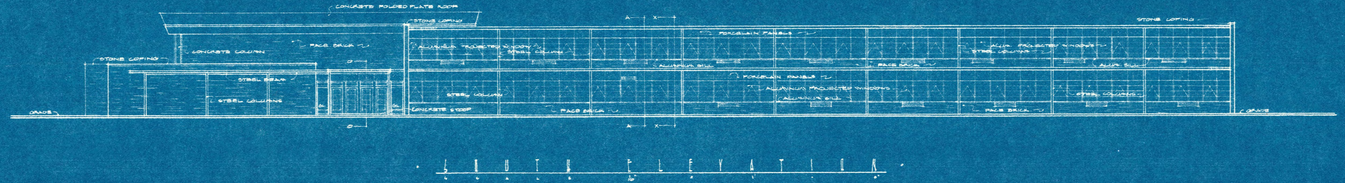


CHALK & TACK BOARD DETAILS

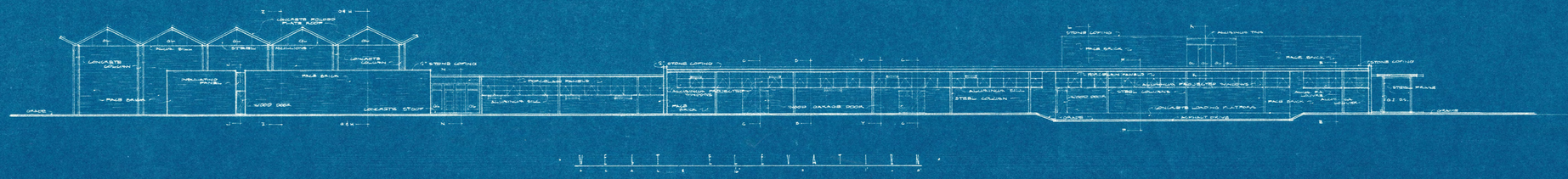
CERTIFIED TO BY Richard L. Wildermuth

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE ATLESBERTS - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

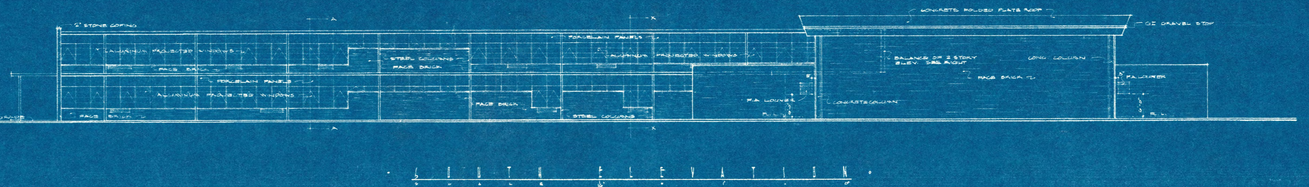
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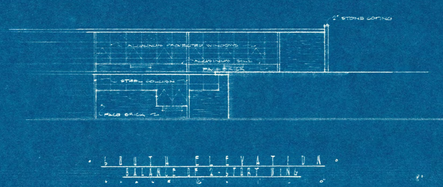
SOUTH ELEVATION



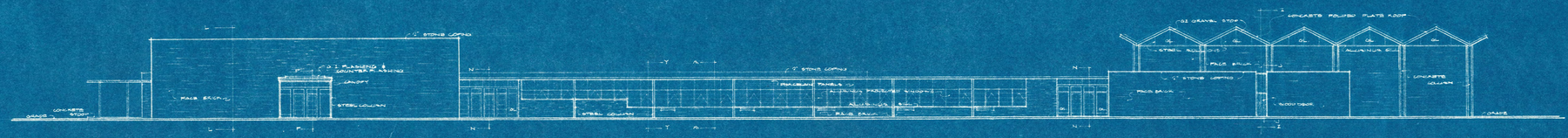
WEST ELEVATION



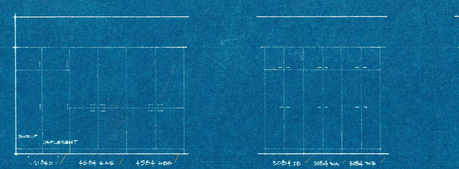
SOUTH ELEVATION



SOUTH ELEVATION
ORIGINAL BUILDING 1949

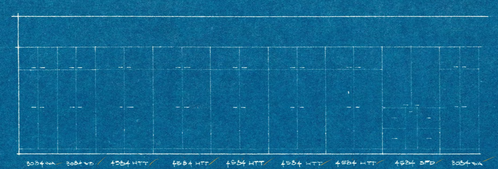


EAST ELEVATION

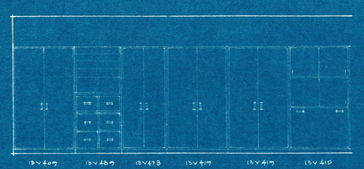


NORTH ELEVATION
HOUSEKEEPING AREA "A"

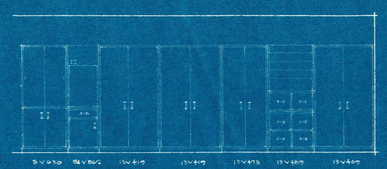
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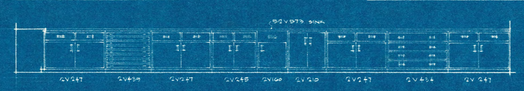
WEST ELEVATION
SEWING AREA "B"



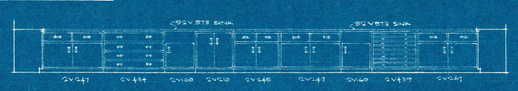
ART AREA "A"
WEST ELEVATION



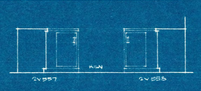
ART AREA "A"
EAST ELEVATION



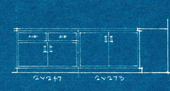
ART AREA "A"
EAST ELEVATION



ART AREA "A"
WEST ELEVATION



ART AREA "A"
NORTH ELEVATION



ART AREA "A"
INSIDE - EAST ELEVATION



ART AREA "A"



ART AREA "A"

NORTH ELEVATION

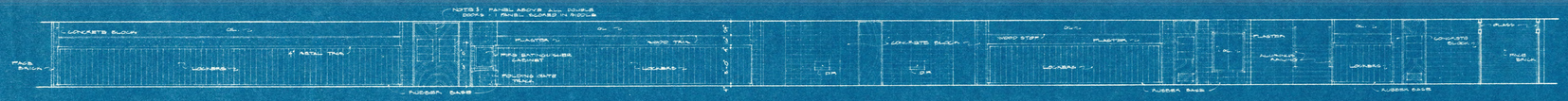
CERTIFIED TO BY Richard L. Wildenrath

RICHARD L. WILDENRATH
REGISTERED
No. 922
STATE OF
ARCHITECT

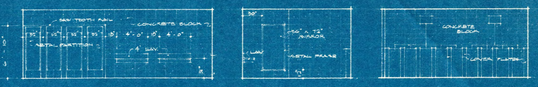
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE SYLVESTER - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDENRATH
ARCHITECT PORTAGE, INDIANA

A-9

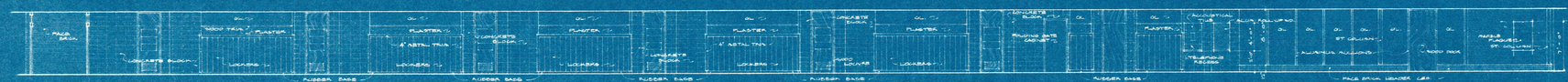
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CHECKED BY: R.L.W.
DATE: 12-15-50
REVISED



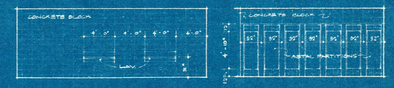
NORTH ELEVATION - CORRIDOR "2



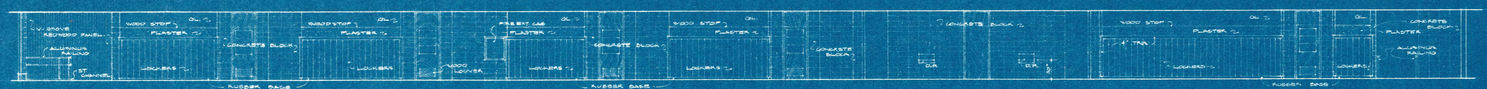
TYPICAL ELEVATIONS - BOYS TOILET



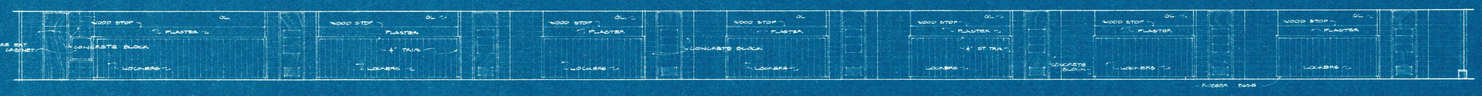
SOUTH ELEVATION - CORRIDOR "2



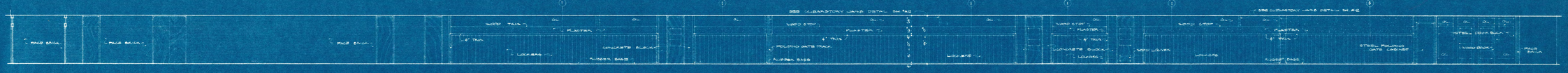
TYPICAL ELEVATIONS - GIRLS TOILET



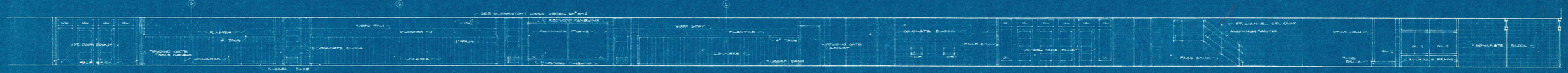
NORTH ELEVATION - CORRIDOR "21



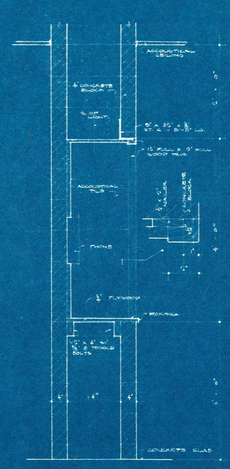
SOUTH ELEVATION - CORRIDOR "21



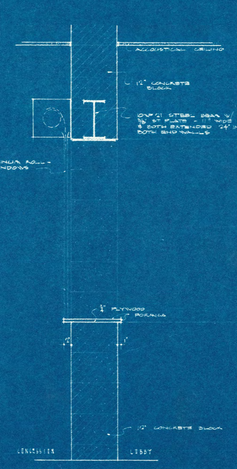
WEST ELEVATION - LOBBY "20 & CORRIDOR "38



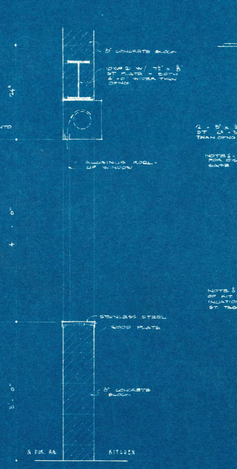
EAST ELEVATION - LOBBY "20 & CORRIDOR "38



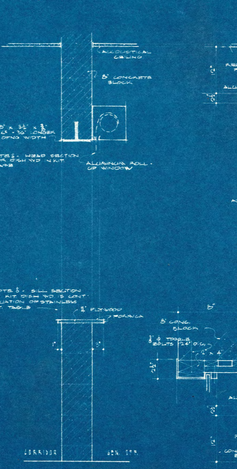
SECTION THRU TELEPHONE booth



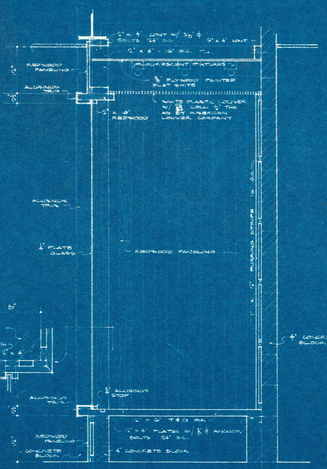
SECTION THRU LOBBY WINDOW



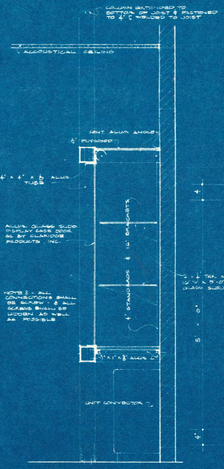
SECTION THRU KITCHEN SERVING WINDOW



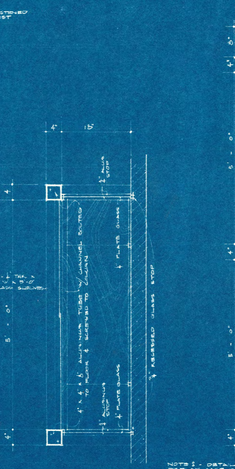
SECTION THRU SERVING WINDOW



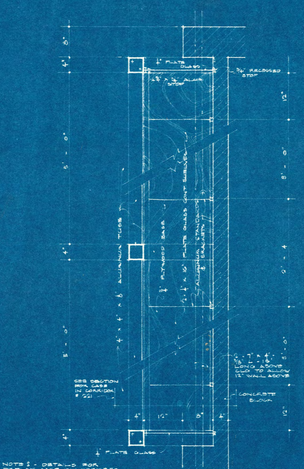
SECTION THRU DISPLAY "20

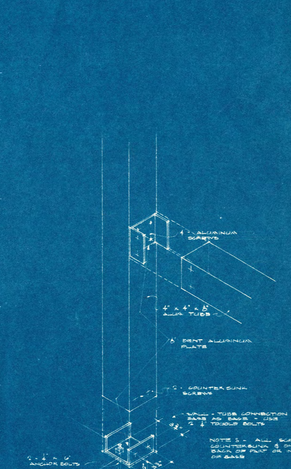


DETAILS - DISPLAY CASE & END CORRIDOR "20

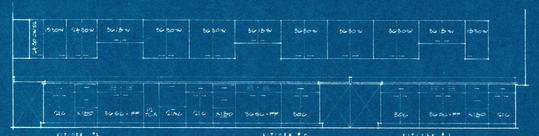


DISPLAY CASE - LOBBY "20

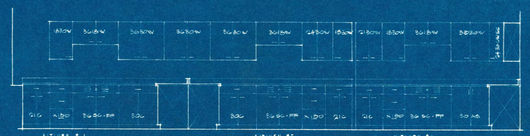




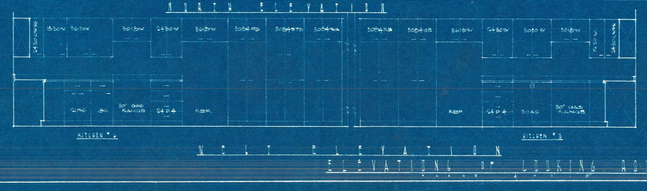
TYPICAL PLYWOOD JAMB



NORTH ELEVATION



NORTH ELEVATION

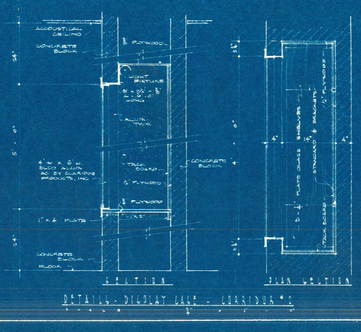


WEST ELEVATION

ELEVATIONS OF LOOKING ROOM "2

NOTE 1: WATER & SOIL IN UNIT SAME AS KITCHEN "1" & "3"

EAST ELEVATION - KITCHEN "2" & "4"
WEST ELEVATION - KITCHEN "5" & "6"



DETAILS - DISPLAY CASE - CORRIDOR "5

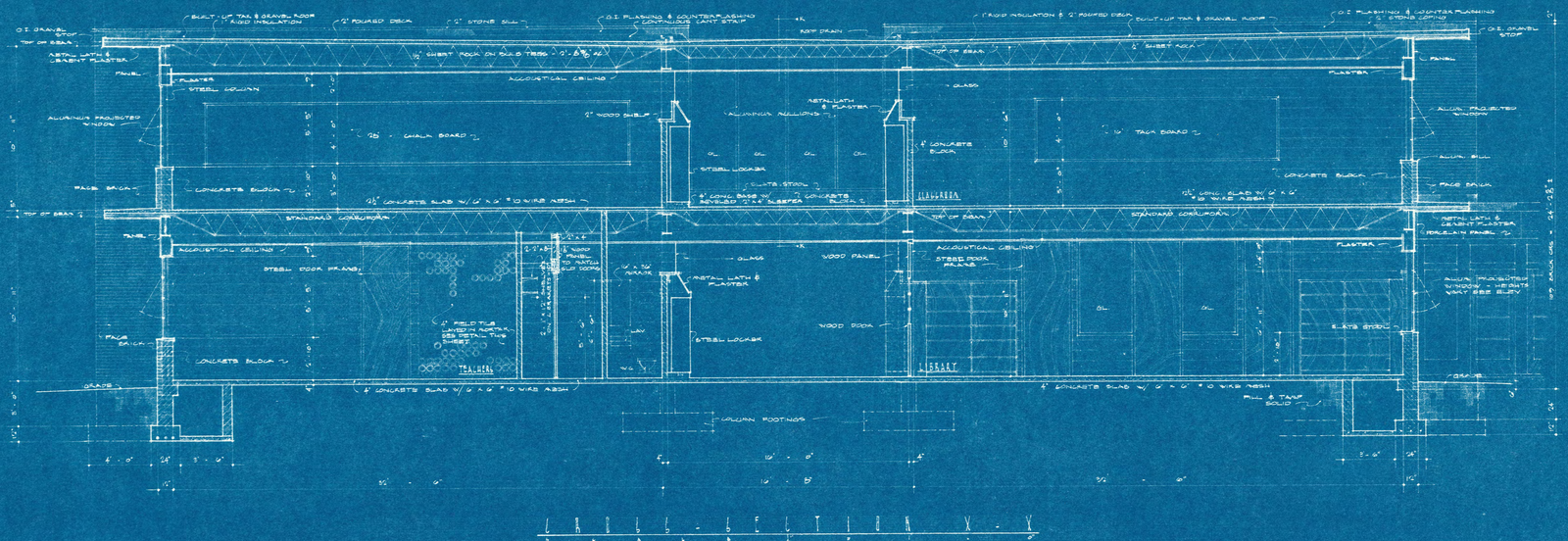
CERTIFIED TO BY Richard L. Wilderman

RICHARD L. WILDERMUTH REGISTERED No. 3228 STATE OF INDIANA ARCHITECT

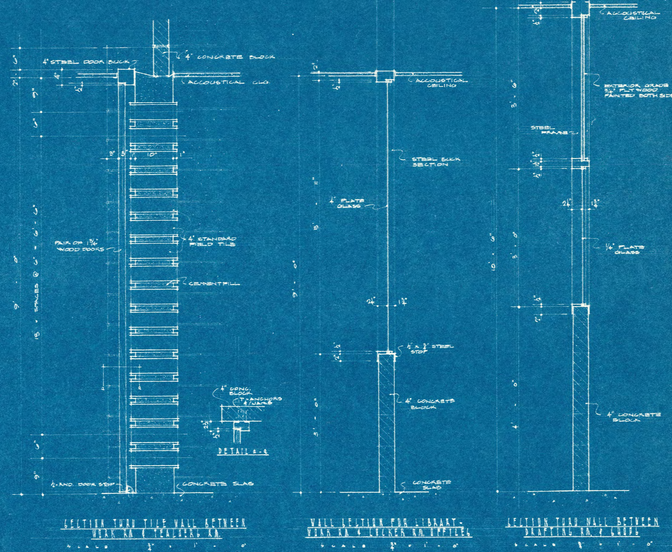
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALSALL ATTENDANTS - CORRESPONDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
VALPO., INDIANA

A-10

DRAWN BY
CHECKED BY
DATE
REVISED



L O N G I T U D I N A L - S E C T I O N X - X



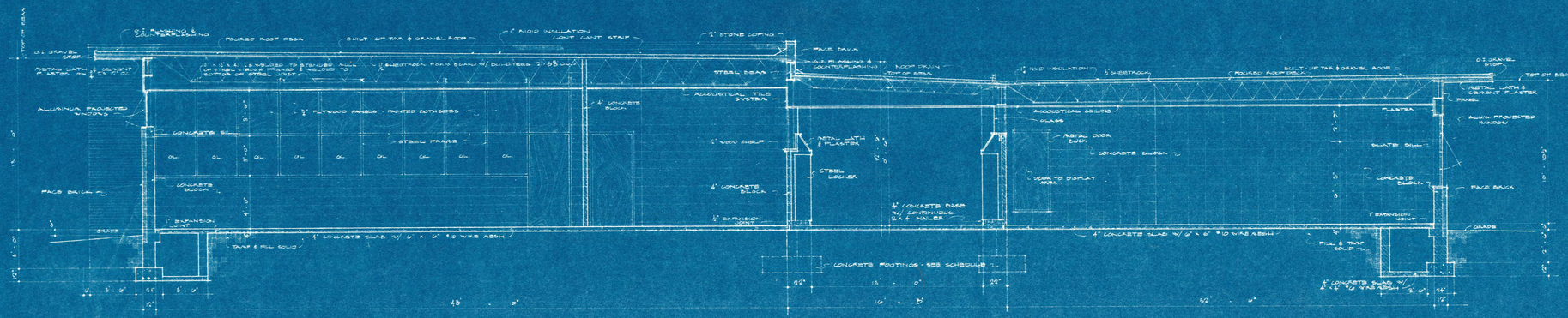
SECTION THRU TILE WALL BETWEEN WORK RM & LIBRARY

SECTION THRU WORK ROOM & LIBRARY

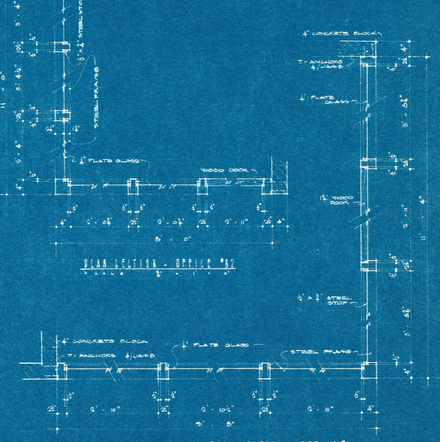
SECTION THRU WALL BETWEEN LIBRARY & CORR.



PLAN SECTION - WALL BETWEEN WORK RM & LIBRARY

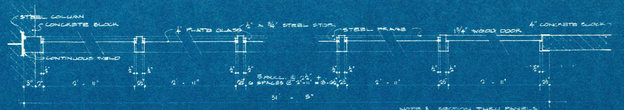


L O N G I T U D I N A L - S E C T I O N Y - Y

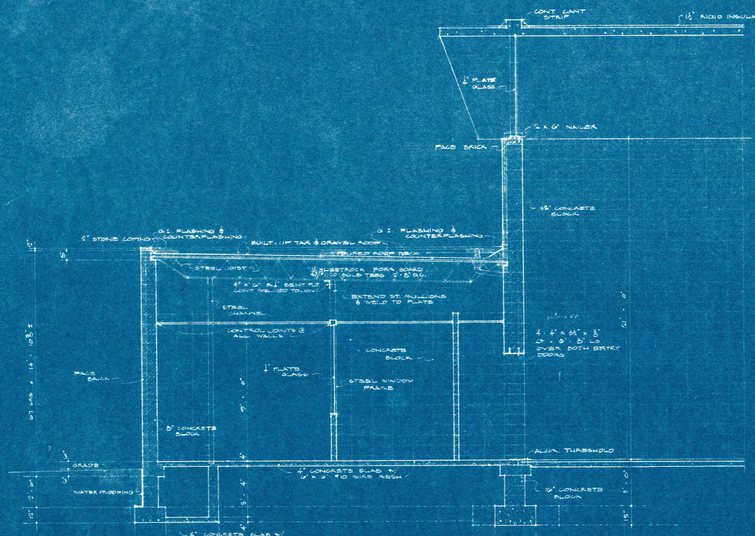


PLAN SECTION - DETAIL "A"

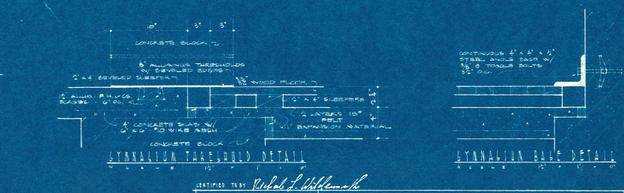
PLAN SECTION - DETAIL "B"



PLAN SECTION - DRAFTING RM. "B"



L O N G I T U D I N A L - S E C T I O N Z - Z



GYMNASIUM THRESHOLD DETAIL

GYMNASIUM SILL DETAIL

CERTIFIED TRUE Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED No. 922 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE STEVENSON - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
DAYTON, INDIANA

A-II

DRAWN BY	C.M.K.
CHECKED BY	R.L.W.
DATE	12-10-41
REVISED	

SECTION A-A (TYPICAL THRU 2-STORY WING)

DETAIL '1'

DETAIL '2'

TYPICAL SECTION THRU CORRIDOR CLERESTORY

SECTION B-B

SECTION C-C

SECTION D-D

SECTION WOOD WALL INTERSECTS MASONRY WALL

CORRIDOR - TYPE ②

CORRIDOR - TYPE ③

LOCKER HEAD SECTIONS

HEAD

JAMB

SILL

SILL - SHOP WING

MULLION

MULLION

TYPICAL WINDOW DETAILS

CORRIDOR WALL

OUTSIDE WALL

LIBRARY SHELVING DETAILS

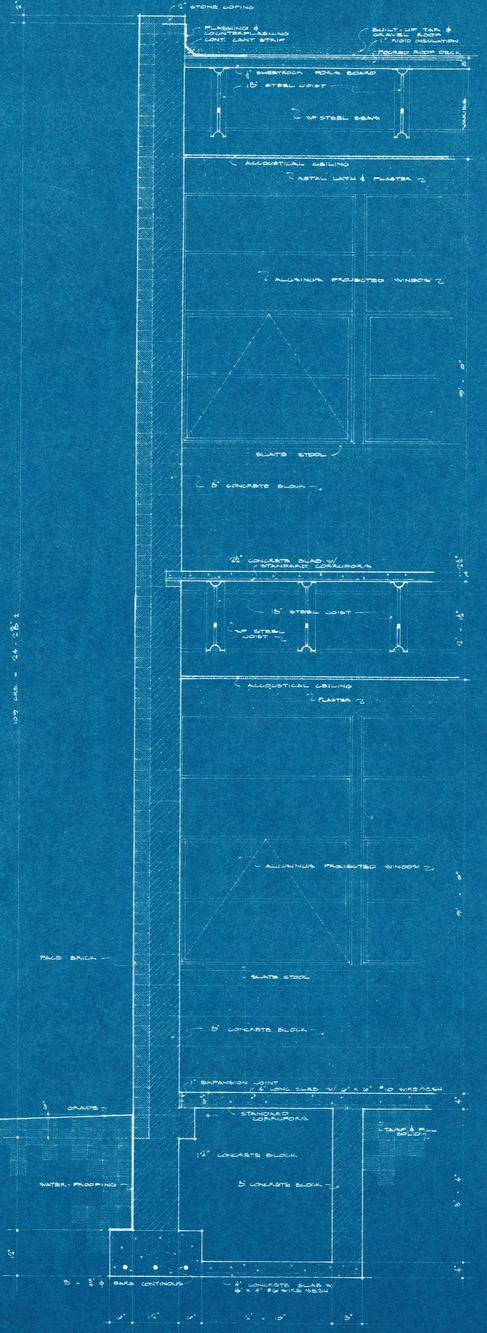
APPROVED BY: Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED ARCHITECT No. 922 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE AYLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L WILDERMUTH
ARCHITECT
GARY, INDIANA

A-12

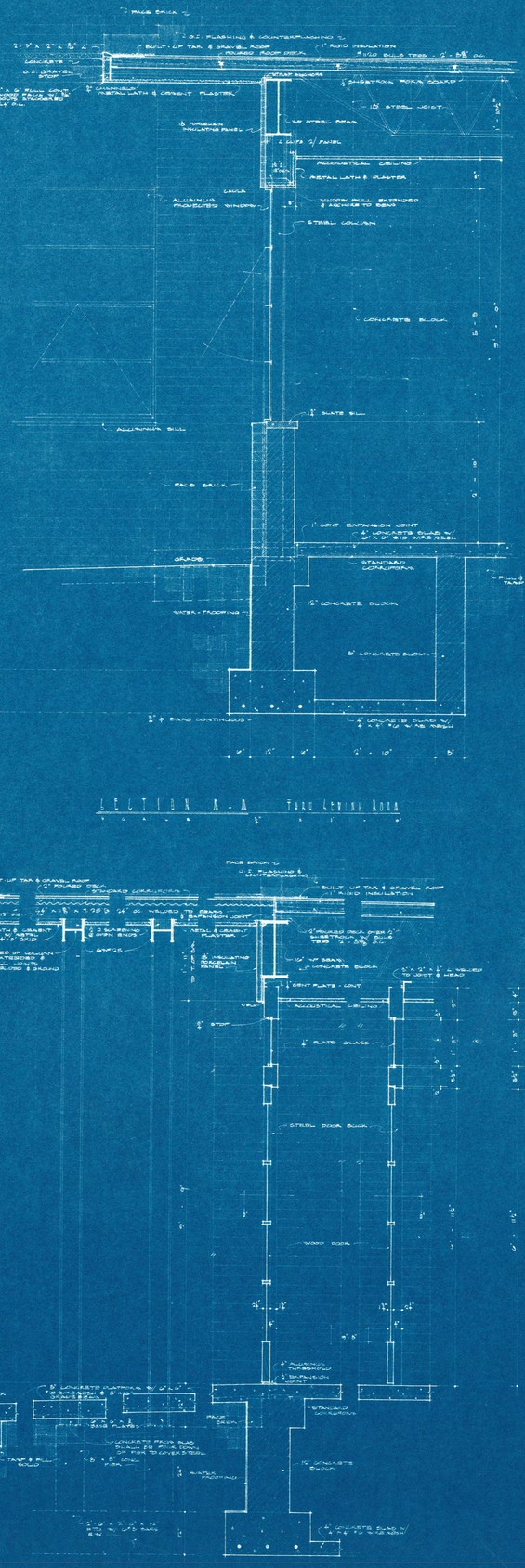
DRAWN BY: C.H.D.
CHECKED BY: R.L.W.
DATE: 12-12-52
REVISED



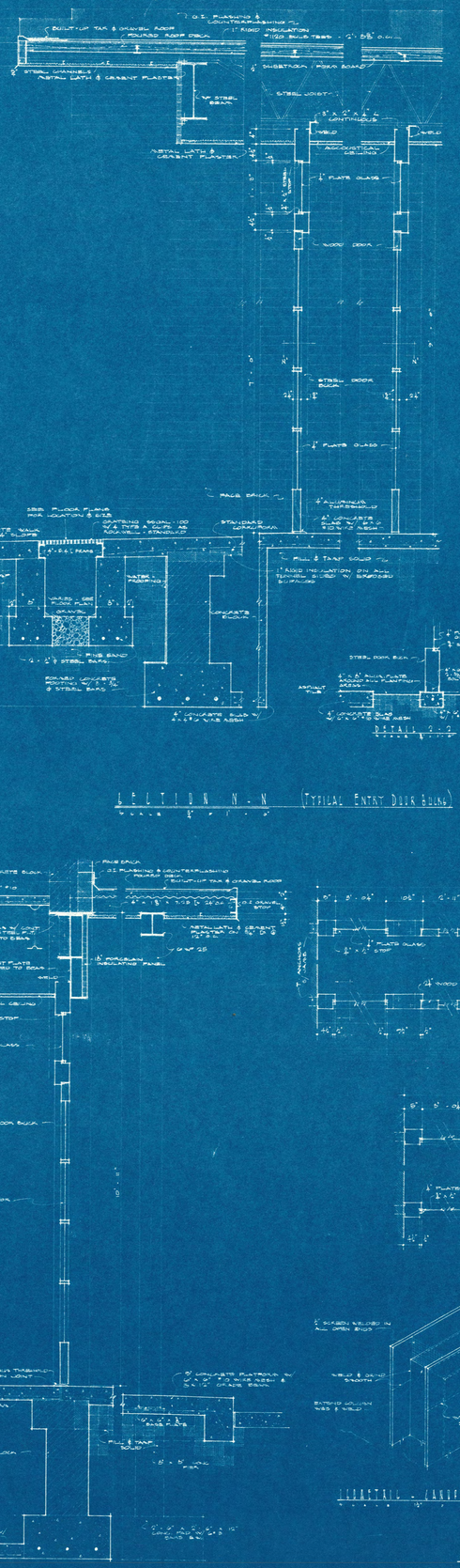
SECTION I - I



CANOPY PLASTER DETAILS



SECTION K - K THRU CENTRAL AREA



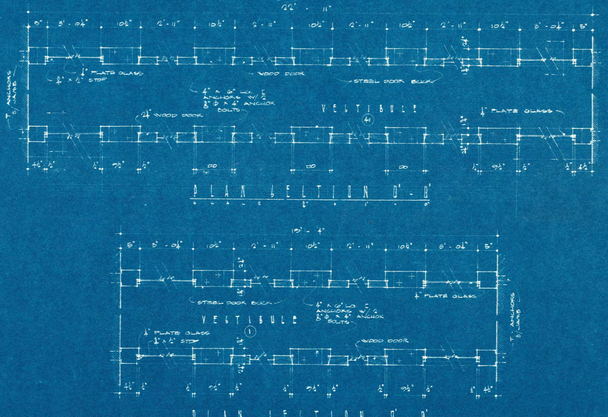
DETAIL C-C

VESTIBULE "D"

VESTIBULE "E"

PLAN SECTION N - N'

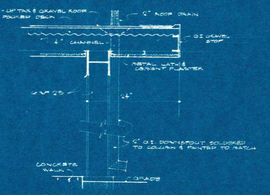
SECTION N - N (TYPICAL ENTRY DOOR BAYS)



PLAN SECTION O - O

PLAN SECTION P - P

TYPICAL CANOPY COLUMN



CANOPY DRAIN DETAIL

SECTION O - O (THRU MAIN ENTRANCE)

SECTION P - P

CERTIFIED TO BY Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED No. 622 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL

FOR

PORTAGE SCHOOL TOWNSHIP

WALLACE AYLESWORTH - SUPERINTENDENT

ERECTED BY

PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L WILDERMUTH

ARCHITECT

GARY, INDIANA

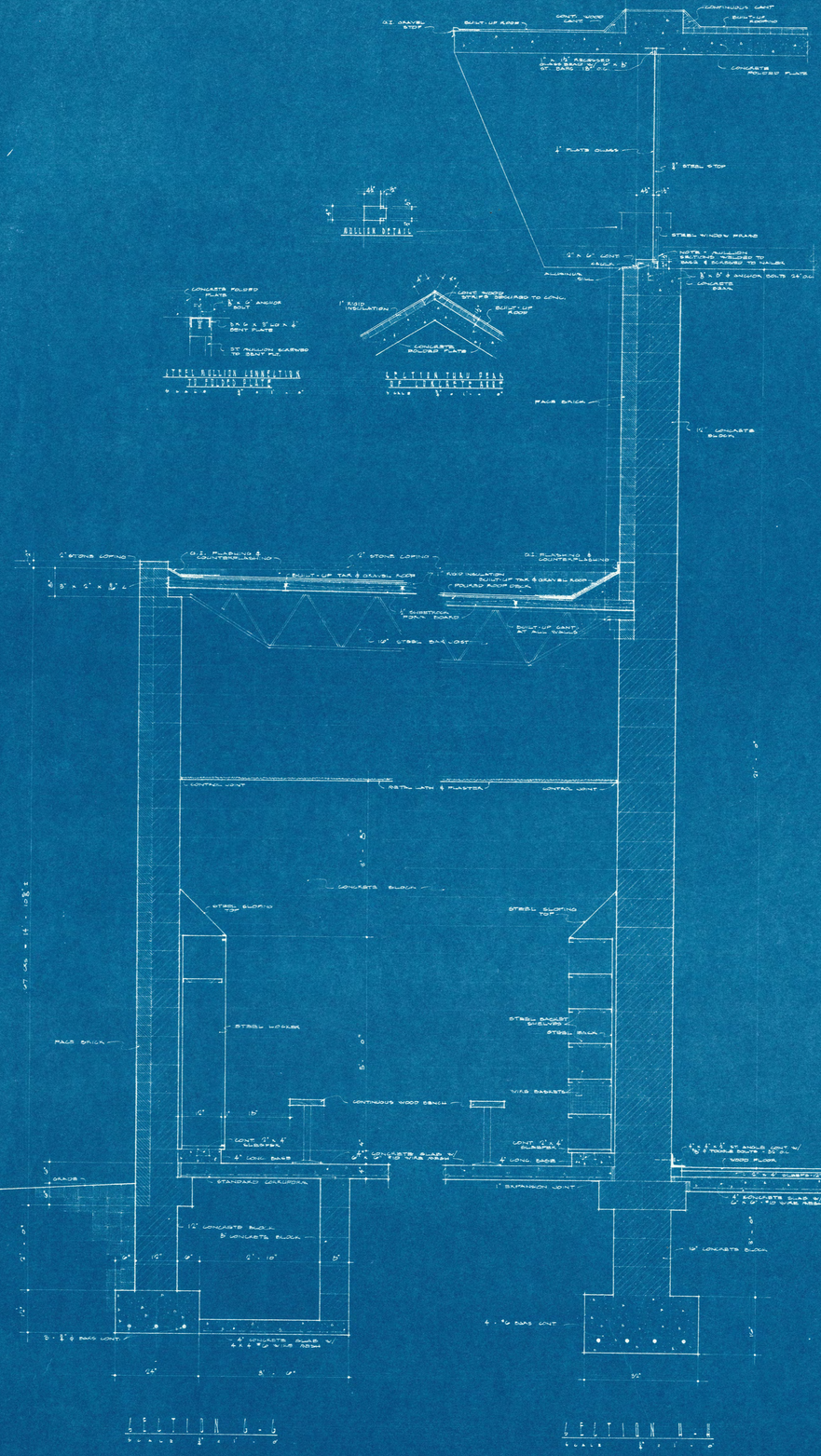
A-13

DRAWN BY: J. M. B.

CHECKED BY:

DATE: 12-12-51

REVISED:



CERTIFIED TO BY Richard L. Wilderauth

RICHARD L. WILDERAUTH REGISTERED No. 922 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL

FOR

PORTAGE SCHOOL TOWNSHIP

WALLACE ATTLESWORTH - SUPERINTENDENT

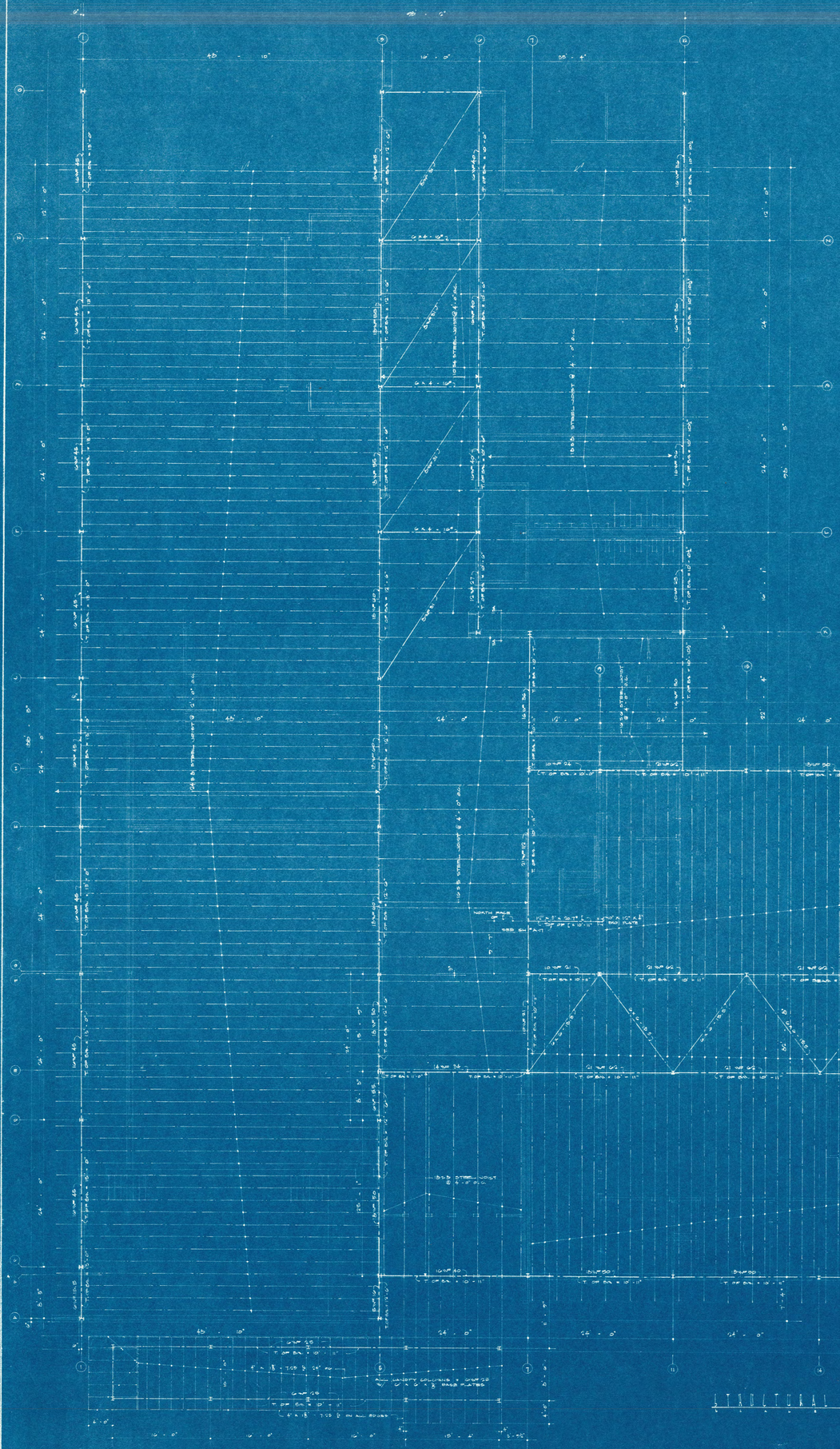
ERECTED BY

PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WILDERAUTH
ARCHITECT
GARY, INDIANA

A-14

Drawn By: J.M.S.
Checked By: R.L.W.
Date: 12-10-51
Revised



STRUCTURAL FLOOR PLAN - PART 'A'

• STEEL COLUMN SCHEDULE •

COLUMN NO.	COLUMN SIZE	BASE PLATE	COLUMN NO.	COLUMN SIZE	BASE PLATE	COLUMN NO.	COLUMN SIZE	BASE PLATE
A1, A2	4 x 4 - 10#	4" x 8" x 0'-8"	I27	6 x 6 - 15.5	10" x 1" x 0'-10"			
B8	6 x 6 - 15.5	10" x 8" x 0'-9"	I30	4 x 4 - 10	9" x 8" x 0'-6"			
B7	6 x 6 - 20	11" x 1" x 0'-11"	J8	6 x 6 - 20	10" x 8" x 0'-10"			
B8 - B14 - B10 - B15 B30 - B29 - B34 - B36	6 x 6 - 25#	12" x 1" x 0'-11"	K6	4 x 4 - 10	6" x 8" x 0'-6"			
B30	6 x 6 - 15.5	10" x 8" x 0'-9"	K7	4 x 4 - 10	6" x 8" x 0'-6"			
C1	6 x 6 - 15.5	8" x 8" x 0'-7"	K12	4 x 4 - 10	8" x 8" x 0'-7"			
D1 - F1 - H1 - J1 - L1 - N1	6 x 6 - 15.5	9" x 1" x 0'-8"	L5 - N5 - N6	6 x 6 - 15.5	10" x 1" x 0'-10"			
D6	6 x 6 - 15.5	8" x 8" x 0'-7"	L6	4 x 4 - 13	8" x 8" x 0'-7"			
E5	6 x 6 - 15.5	9" x 8" x 0'-8"	L12	6 x 6 - 15.5	8" x 8" x 0'-7"			
E7	6 x 6 - 20	11" x 1" x 0'-11"	M5-M6-D9-F9-T30-T31	8 x 8 - 18#	8" x 1" x 0'-9"			
E11 - E15 - E14 - E16 - E18 - E17 - E13 - #30452	6 x 6 - 25	12" x 1" x 1'-1"	M12-N12-D12-N12-S12	6 x 6 - 15.5	8" x 8" x 0'-7"			
E24 - E27 - G23	6 x 6 - 25	13" x 1" x 1'-1"	O1	6 x 6 - 15.5	8" x 8" x 0'-8"			
E30 - G30	6 x 6 - 20	11" x 1" x 0'-11"	O8	6 x 6 - 15.5	8" x 8" x 0'-8"			
F5	6 x 6 - 15.5	10" x 8" x 0'-9"	P2	4 x 4 - 10	8" x 8" x 0'-8"			
G1	6 x 6 - 20	10" x 8" x 0'-10"	P8	4 x 4 - 15	8" x 8" x 0'-7"			
G9	6 x 6 - 15.5	10" x 8" x 0'-9"	Q1	4 x 4 - 10	6" x 8" x 0'-6"			
G13	8 x 6 - 25	14" x 1" x 1'-1"	R2	6 x 6 - 15.5	8" x 8" x 0'-7"			
G21	8 x 6 - 25	14" x 1" x 1'-1"	R8	6 x 6 - 15.5	8" x 8" x 0'-7"			
G25	6 x 6 - 15.5	10" x 8" x 0'-10"	S2	6 x 6 - 15.5	8" x 8" x 0'-8"			
G27	6 x 6 - 15.5	10" x 8" x 0'-10"	S5 - T5	6 x 6 - 15.5	8" x 8" x 0'-8"			
G25 - G27	4 x 4 - 10	6" x 8" x 0'-6"	T2	6 x 6 - 15.5	8" x 8" x 0'-7"			
G28 - G27	4 x 4 - 10	6" x 8" x 0'-6"	T12	6 x 6 - 15.5	8" x 8" x 0'-7"			
H5	6 x 6 - 20	10" x 8" x 0'-10"	U2	4 x 4 - 10	6" x 8" x 0'-6"			
I7	6 x 6 - 20	10" x 8" x 0'-10"	U4 - V4	4 x 4 - 12#	6" x 8" x 0'-6"			
I9	6 x 6 - 15.5	8" x 1" x 0'-9"	U5 - V5	4 x 4 - 10#	6" x 8" x 0'-6"			
I15	8 x 6 - 25	12" x 1'-0"	U12	4 x 4 - 10	8" x 8" x 0'-8"			
I16 - I17 - I25	8 x 6 - 28#	12" x 1" x 0'-11"	V5	4 x 4 - 10	6" x 8" x 0'-6"			
I19	6 x 6 - 25	12" x 1" x 1'-1"	V6	4 x 4 - 10	6" x 8" x 0'-6"			
I21	6 x 6 - 25	13" x 1" x 1'-0"						
I26	6 x 6 - 15.5	11" x 1" x 0'-11"						

NOTE :-
ALL DIMENSION LINES ARE TO COLUMN C.L.S. - EXACT LOCATION OF CONSTRUCTION AS SHOWN ON ARCHITECTURAL DETAILS.

CERTIFIED TO BY Richard L. Wildermuth

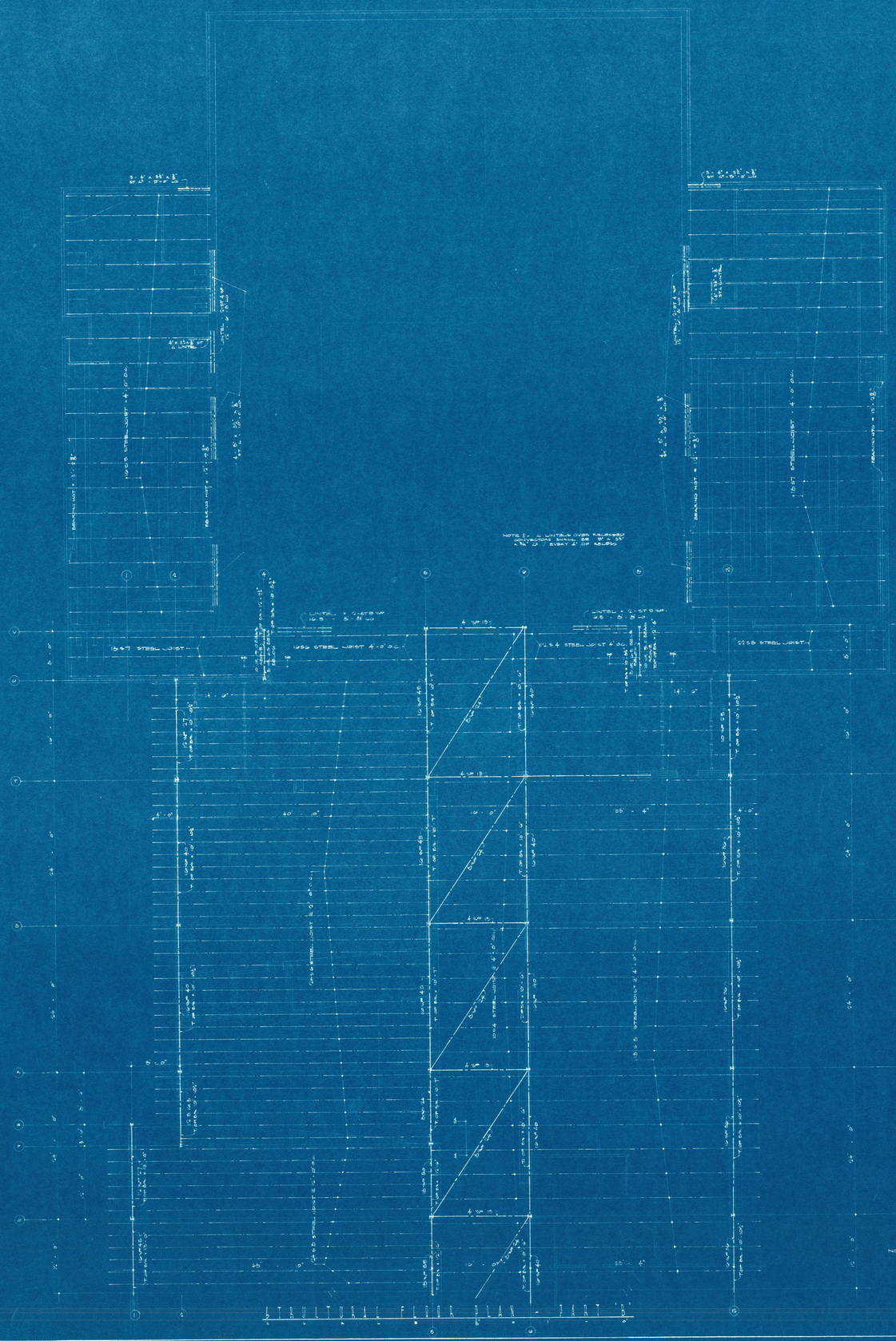
RICHARD L. WILDERMUTH REGISTERED ARCHITECT No. 922 STATE OF INDIANA

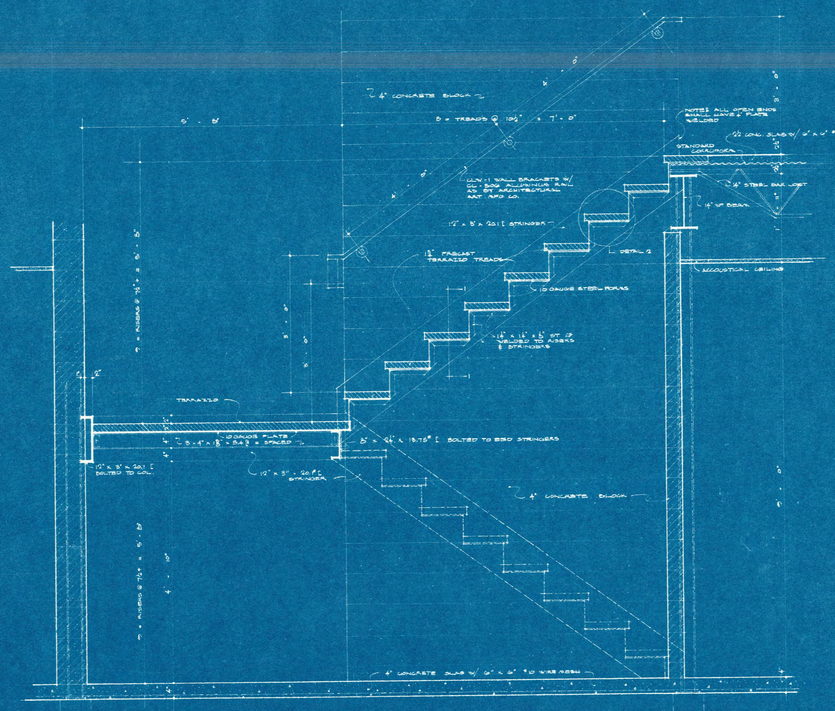
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE CIVIL TOWNSHIP
WILLIAM AYLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION

ALFRED L. WILDERMUTH
ARCHITECT GARY, INDIANA

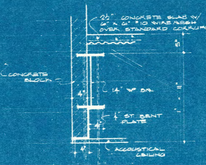
A-15

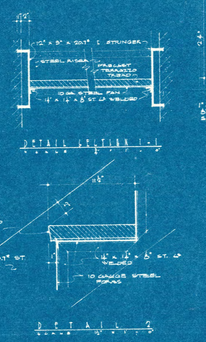
DRAWN BY: C. Mc G.
CHECKED BY: R.L.W.
DATE: 11-15-41
REVISED


NOTE: 2" LINTELS OVER DOORWAY OPENINGS SHALL BE 3" X 12" X 1/4" @ EVERY 4' OF HEIGHT
NOTE: TOP OF BEAM & TOP OF SLAB TO BE FLUSH
NOTE: BOTTOM OF BEAM & TOP OF SLAB TO BE FLUSH
NOTE: TOP OF BEAM & TOP OF SLAB TO BE FLUSH
NOTE: BOTTOM OF BEAM & TOP OF SLAB TO BE FLUSH
NOTE: TOP

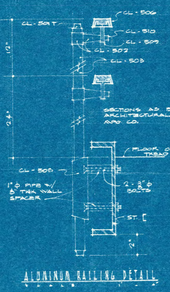


SECTION A-B - THRU STAIRWELL "B"





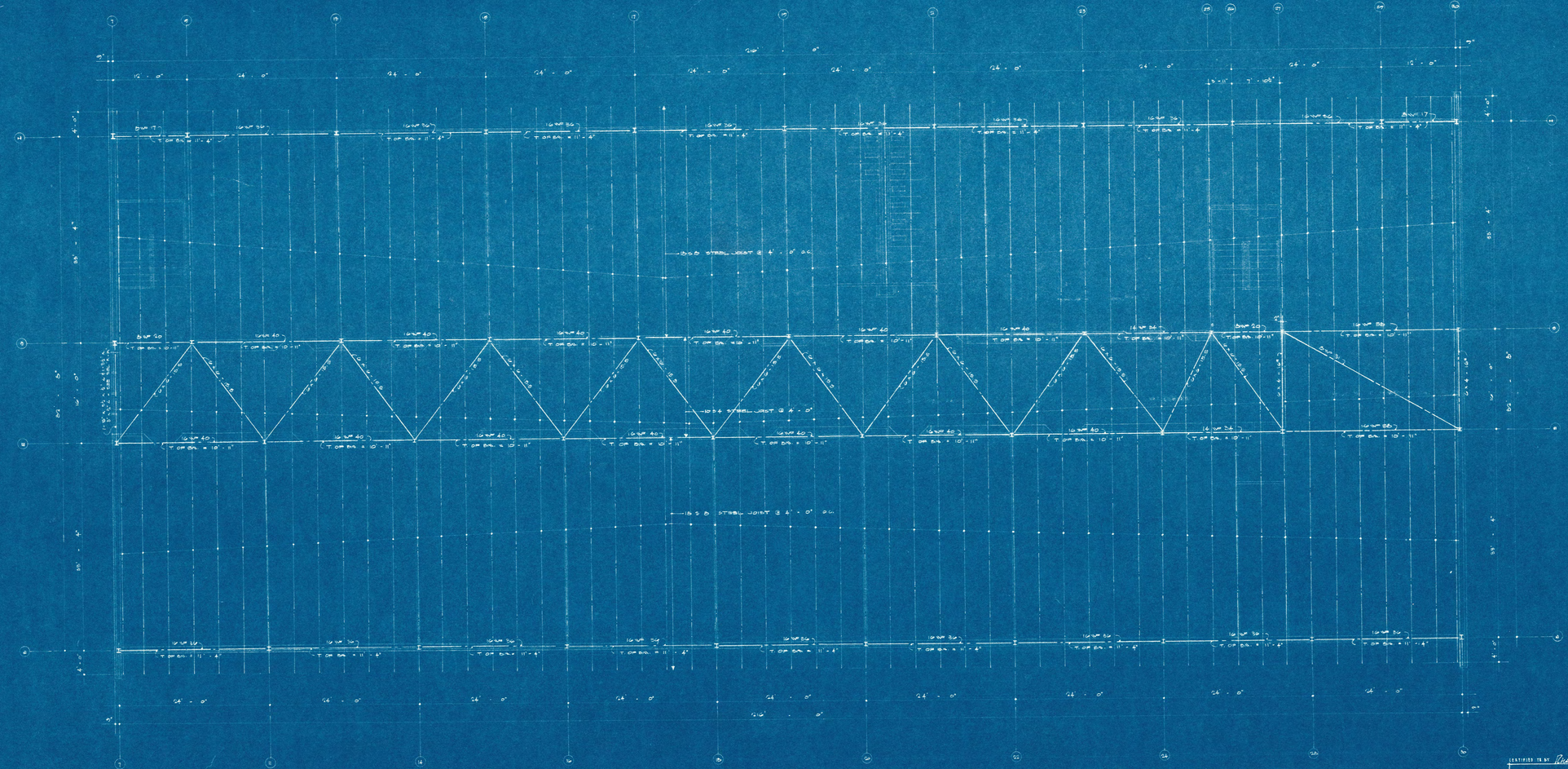
DETAIL SECTION 1-1



ALUMINUM RAILING DETAIL

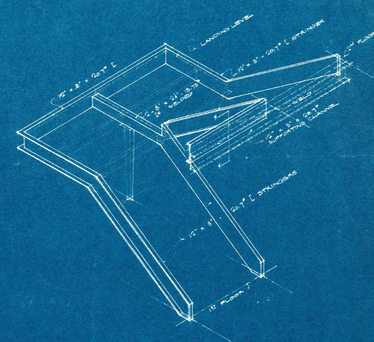
SECTION C-D - THRU STAIRWAY LOBBY "A"

DETAIL SECTION 3-3

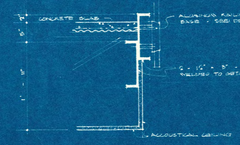


STRUCTURAL PLAN - SECOND FLOOR

NOTE:
"T OF BM." REFERS TO TOP OF BEAM, &
THE DIMENSIONS SHOWN AND THE HEIGHTS FROM TOP OF FIRST FLOOR SLAB TO TOP OF SECOND FLOOR BEAMS.



ISOMETRIC DIAGRAM - MAIN STEEL OF STAIRWAY LOBBY "A"



DETAIL SECTION 4-4

CERTIFIED TO BY Richard L. Wilderanth

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WILLIS ATLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERANTH
ARCHITECT
GARY, INDIANA

A-17

DRAWN BY: C.H.D.
CHECKED BY: R.L.W.
DATE: 1-12-51
REVISED:

NOTE:
FOR MECHANICAL SHOP LTG. LAYOUT SEE SH. #E3

NOTE:
FOR CORRIDOR #38 LTG. LAYOUT SEE SH. #E3

NOTE:
- 2'X2' GUTH PRISMOID PANELS CUT TO FIT C.L.G. OF DISPLAY CASE. - SEE ARCH. DETAIL
- ALL FRAMING BY GENERAL CONTR.
TYPE 'CC' FIXTURES

NOTE:
ALL TYPE "L" FIXTURES SHALL BE WIRED SO THAT THE (2) INNER & (2) OUTER LAMPS OF EA. ARE ON SEPARATE SWITCH LEGS.

NOTE:
TYPICAL FIXT. SPACING FOR CLRM. LTG.

DRAFTING ROOM #61 · STORAGE #59 · CORRIDOR #58 · FINISHING #57 · WOOD SHOP #56 · STORAGE #53 · KITCHEN #47 · MULTI-PURPOSE ROOM #45 · LOBBY #26 · BOYS TOILET #24 · PANEL "F" · JAN. #52 · GIRLS TOILET #20 · SEWING ROOM #36 · VEST. · AUDIO-VISUAL #20 · WORK RM. #22 · STORAGE #21 · LIBRARY #18 · BOYS TOILET #16 · GIRLS TOILET #12 · JANITOR #14 · ART ROOM #10 · STORAGE #6 · ART ROOM #4 · VEST. #1 · CORRIDOR #2 · BUILT-IN SHOW CASE · DISPLAY CASE · BOYS GUIDANCE · GENERAL OFFICE · STORAGE · GIRLS GUIDANCE · HEALTH · PRINCIPAL · ASSIST. PRINC. · WORK RM. · TEACHERS RM. · VEST. #41 · CLASSROOM #13 · CLASSROOM #11 · CLASSROOM #9 · CLASS ROOM #7 · CLASSROOM #5 · CLASSROOM #3 · PANEL "C" · BOILER RM. #43 · BOILER · AIR HANDING UNIT · ELECT. SERV. MAIN DISC. & DIST. PNL. · PNL. "D" · BMG. PNL. METER · PANEL "K" · STORAGE #33 · BOOT EXHAUST FAN · LOCKER · LOCATE REMOTE BALLAST OUT OF SIGHT - AS REQ'D. · PHONE BOOTH · CANOPY · OVERHANG · MATCH LINE

- (E) MULTI-PURPOSE ROOM #45 UNDERCUT FIXTS. MTD. INSIDE EXH. HOOD AS REQ'D.
- (E) MULTI-PURPOSE ROOM #45 UNDERCUT FIXTS. MTD. OUTSIDE EXH. HOOD AS REQ'D.
- C.H. #E-X 20A W/ #E-V585 SMALL DIA. DOWNL. REFL. CEIL. FROOF. W/ 200 W INC. - SEE DWG. #E2 FOR CIRCUITING
- (2) 3-WAY SWTS. & (2) #E-A28 FOR CORRIDOR #38 LTG. (SEE SH. #E3)
- TO MULTI-PURPOSE ROOM #45 UNDERCUT FIXTS. MTD. INSIDE EXH. HOOD AS REQ'D.
- TO EMG. PNL. CONTACTOR
- TO EMG. PNL. CONTACTOR
- E1-2-3 TO BMG. PNL. CONTACTOR
- CCT. E1-2 UP TO EXIT-S FIXT. ABOVE
- CCT. 30-1-2 TO ROOF EXH.
- D38 - TIME SW. CONTROLLED
- D34-35-36
- D4-5-6
- F4-5-6
- F1-2-3
- F16-17-18
- F7-8-9
- B16-17-18
- B11-12
- B13-14-15
- B10-11-12
- B7-8-9
- B4-5-6
- B1-2-3
- B19-20-21
- REMOTE (2) LAMP BALLAST FOR SHOW CASE FIXTURES SHALL BE MTD. ABOVE LAY-IN TILE CLG. - W/A SUITABLE ENCLOSURE W/ LOUVERED COVER.
- CRT. MTD. 11'-0" ABOVE FINISHED GRADE

ALTERNATE "C-4" - LIBRARY LIGHTING PLAN
SCALE 1/8" = 1'-0"

FIRST FLOOR - ELECTRICAL LIGHTING PLAN - PART "A"
SCALE 1/8" = 1'-0"

CERTIFIED TO BY James F. Hamming · Richard L. Wildermuth

REGISTERED ARCHITECT No. 5905 STATE OF INDIANA

REGISTERED ARCHITECT No. 922 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE AYLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
VALPARAISO, INDIANA

E-1

DRAWN BY: E. S.
CHECKED BY: RICH.
DATE: 10-10-61
REVISED

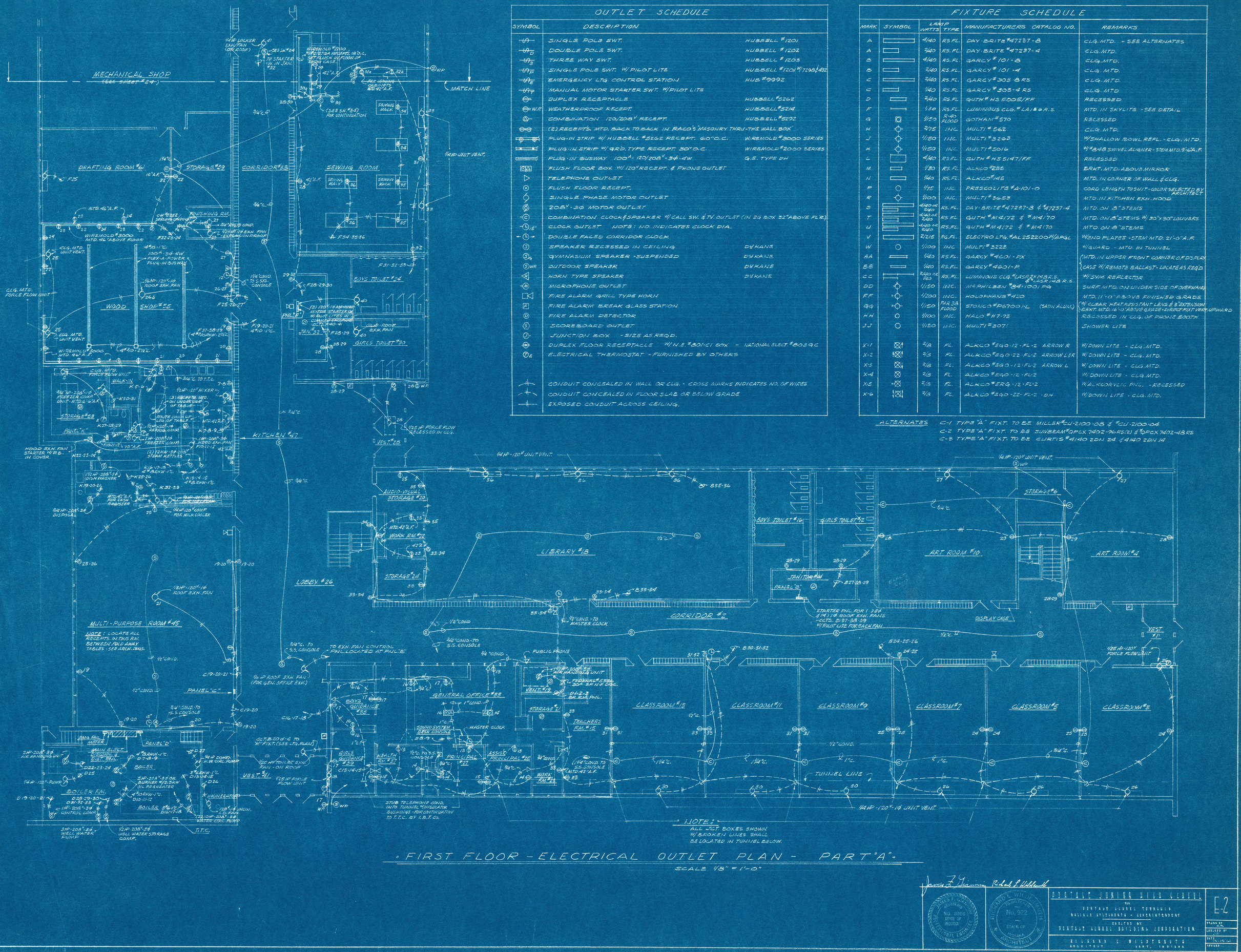
OUTLET SCHEDULE

SYMBOL	DESCRIPTION	
⊣	SINGLE POLE SWT.	HUBBELL #1201
⊣D	DOUBLE POLE SWT.	HUBBELL #1202
⊣3	THREE WAY SWT.	HUBBELL #1203
⊣P	SINGLE POLE SWT. W/ PILOT LITE	HUBBELL #1201 W/ 7298 & 432
⊣E	EMERGENCY LTG. CONTROL STATION	HUB. #9992
⊣M	MANUAL MOTOR STARTER SWT. W/ PILOT LITE	
⊖	DUPLEX RECEPTACLE	HUBBELL #5262
⊖ W.P.	WEATHERPROOF RECEPT.	HUBBELL #5274
⊖A	COMBINATION 120/208V RECEPT.	HUBBELL #5292
⊖⊖	(2) RECEPT'S. MTD. BACK TO BACK IN RACO'S "MASONRY THRU-THE WALL BOX"	
	PLUG-IN STRIP W/ HUBBELL #5262 RECEPT. 60" O.C.	W/REMOLD #3000 SERIES
	PLUG-IN STRIP W/ GRD. TYPE RECEPT. 30" O.C.	WIREMOLD #2000 SERIES
	PLUG-IN BUSWAY 100A - 120/208V - 3Φ - 4W	G.E. TYPE PH
⊡A	FLUSH FLOOR BOX W/ 120V RECEPT. & PHONE OUTLET	
▷	TELEPHONE OUTLET	
⊙	FLUSH FLOOR RECEPT.	
◊	SINGLE PHASE MOTOR OUTLET	
◊	208V - 3Φ MOTOR OUTLET	
C	COMBINATION CLOCK & SPEAKER W/ CALL SW. & TV. OUTLET (IN 2-G BOX 32" ABOVE FL.R.)	
(L) 15	CLOCK OUTLET NOTE: NO. INDICATES CLOCK DIA.	
←(L)→	DOUBLE FACED CORRIDOR CLOCK	
S	SPEAKER RECESSED IN CEILING	DYKANE
S_G	GYMNASIUM SPEAKER - SUSPENDED	DYKANE
S_{WP}	OUTDOOR SPEAKER	DYKANE
◁	HORN TYPE SPEAKER	DYKANE
M	MICROPHONE OUTLET	
⊏◁	FIRE ALARM GRILL TYPE HORN	
F	FIRE ALARM BREAK GLASS STATION	
D	FIRE ALARM DETECTOR	
S	SCOREBOARD OUTLET	
J	JUNCTION BOX - SIZE AS REQ'D.	
⊖	DUPLEX FLOOR RECEPTACLE W/ N.E. #301-C1 BOX - NATIONAL ELECT. #8039C	
TE	ELECTRICAL THERMOSTAT - FURNISHED BY OTHERS	
	CONDUIT CONCEALED IN WALL OR CLG. - CROSS MARKS INDICATES NO. OF WIRES	
	CONDUIT CONCEALED IN FLOOR SLAB OR BELOW GRADE	
	EXPOSED CONDUIT ACROSS CEILING.	

FIXTURE SCHEDULE

MARK	SYMBOL	LAMP WATTS	LAMP TYPE	MANUFACTURERS CATALOG NO.	REMARKS
A		4/40	RS.FL.	DAY-BRITE #47237-B	CLG.MTD. - SEE ALTERNATES
A		3/40	RS.FL.	DAY-BRITE #47237-4	CLG.MTD.
B		4/40	RS.FL.	GARCY #101-B	CLG.MTD.
B		3/40	RS.FL.	GARCY #101-4	CLG.MTD.
C		3/40	RS.FL.	GARCY #303-B RS	CLG.MTD.
C		1/40	RS.FL.	GARCY #303-4 RS	CLG.MTD.
D		2/40	RS.FL.	GUTH #HS 5005/FF	RECESSED
F		1/30	RS.FL.	LUMINOUS CLG. # LA/B & R.S.	MTD. IN SKYLITE - SEE DETAIL
G		1/150	R-40 FLOOD	GOTHAM #570	RECESSED
H		2/75	I.N.C.	MULTI # 562	CLG. MTD.
J		1/150	I.N.C.	MULTI #3263	W/SHALLOW BOWL REFL. - CLG. MTD.
K		1/150	I.N.C.	MULTI #5016	W/#848 SW.VEL.ALIGNER - STEM MTD. 9'-6" A.F.
L		4/40	RS.FL.	GUTH #HS 5147/FF	RECESSED
M		1/30	RS.FL.	ALKCO #285	BRKT. MTD. ABOVE MIRROR
N		1/40	RS.FL.	ALKCO #145	MTD. IN CORNER OF WALL & CLG.
P		1/75	I.N.C.	PRESCOLITE #A-101-O	CORD LENGTH TO SUIT - COLOR SELECTED BY ARCHITECT
R		1/100	I.N.C.	MULTI #3653	MTD. IN KITCHEN EXH. HOOD
S		4/40 OR 2/40	RS.FL.	DAY-BRITE #47237-B & #47237-4	MTD. ON 8" STEMS
T		4/40 OR 2/40	RS.FL.	GUTH #M4172 & #M4170	MTD. ON 8" STEMS W/ 30"x30" LOUVERS
U		4/40 OR 2/40	RS.FL.	GUTH #M4172 & #M4170	MTD. ON 8" STEMS
V		2/215	PG.FL.	ELECTRO LTG. #AL 252200 W/AP9L	W/END PLATES - STEM MTD. 21'-0" A.F.
W		1/100	I.N.C.	MULTI #3222	W/GUARD - MTD. IN TUNNEL
AA		1/40	RS.FL.	GARCY #4601-PX	MTD. IN UPPER FRONT CORNER OF DISPLAY CASE W/REMOTE BALLAST - LOCATE AS REQ'D
BB		1/40	RS.FL.	GARCY #4601-P	
CC		2/40 OR 1/40	RS.FL.	LUMINOUS CLG. #LASRRX148RS. & #LASR148R.S.	W/SYM. REFLECTOR
DD		1/150	I.N.C.	McPHILBEN #84-100 P9	SURF. MTD. ON UNDER SIDE OF OVERHANG
FF		1/200	I.N.C.	HOLOPHANE #420	MTD. 11'-0" ABOVE FINISHED GRADE
GG		1/150	PAR 38 FLOOD	STONCO #P6700 I-L (SATIN ALUM.)	(W/ CLEAR HEAT RESISTANT LENS & 8" EXTENSION) BRKT. MTD. 16'-0" ABOVE GRADE - DIRECT FIXT VERT. UPWARD
HH		1/100	I.N.C.	HALO #H7-72	RECESSED IN CLG. OF PHONE BOOTH
JJ		1/150	I.N.C.	MULTI #3071	SHOWER LITE
X-1		2/8	FL.	ALKCO #EGO-12-FL-2 ARROW R	W/ DOWN LITE - CLG. MTD.
X-2		3/8	FL.	ALKCO #EGO-22-FL-2 ARROW LER	W/ DOWN LITE - CLG. MTD.
X-3		2/8	FL.	ALKCO #EGO-12-FL-2 ARROW L	W/ DOWN LITE - CLG. MTD.
X-4		2/8	FL.	ALKCO #EGO-12-FL-2	W/ DOWN LITE - CLG. MTD.
X-5		2/8	FL.	ALKCO #ERG-12-FL-2	W/ ACRYLIC PNL. - RECESSED
X-6		3/8	FL.	ALKCO #EGO-22-FL-2 - DH	W/ DOWN LITE - CLG. MTD.

ALTERNATES C-1 TYPE "A" FIXT. TO BE MILLER #CU-2100-08 & #CU-2100-04
C-2 TYPE "A" FIXT. TO BE SUNBEAM #DPCX 7402-96RS(2) & #DPCX 7402-48RS
C-3 TYPE "A" FIXT. TO BE CURTIS #4140 2DN 24 & 4140 2DN 14



FIRST FLOOR - ELECTRICAL OUTLET PLAN - PART "A"

SCALE 1/8" = 1'-0"

JAMES F. GIANNINI REGISTERED PROFESSIONAL ENGINEER NO. 8009 STATE OF INDIANA

RICHARD L. WILPERSTATH REGISTERED ARCHITECT NO. 522 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WILLARD STEVENSON - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILPERSTATH ARCHITECT PORTAGE, INDIANA

E-2

DRAWN BY
CHECKED BY
DATE
REVISED

GYMNASIUM

NOTE: CLG. CONSTRUCTION SEE ARCHITECTS DWGS.

VEST. RM. SEE SH. #24 FOR LTG.

SEE SH. #24 FOR CIRCUITING

NOTE: (3) TYPE "AA" DISPLAY CASE FIXTURES (MTD. IN UPPER FRONT CORNER OF CASE) W/ 60 WATT BALLAST MTD. ABOVE LAY-IN TILE CEIL. PANEL "G" IN SUITABLE ENCLOSURE W/ CONCEALED WIRE.

TO 3-WAY SWT. "X"

DISPLAY CASE

LOBBY

10 RHW-1" CONC. TO EMG. PNL. CONTACTORS

E4-5 TO CORRIDOR EMG. LTG. FIXT.

BAND ROOM

CONCESSION

COOKING ROOM

PRAC. RM.

PRAC. RM.

OFFICE

VOCAL MUSIC RM.

STORAGE

OVERHANG

4 #10 RHW-3/4" C. D 39-40-41-173 CONTROLLED

CORRIDOR #38 (SEE CORRIDOR LTG. PLAN-THIS SH.)

OVERHANG

HOMEMAKING AREA

MECHANICAL SHOP

DISPLAY GROOMING

TO 3-WAY SW. "Z"

MATCH LINE

FIRST FLOOR - ELECTRICAL LTG. PLAN - PART "B"

SCALE 1/8" = 1'-0"

SEE LTG. PLAN-PART "B" FOR CONTINUATION OF EMG. LTG. SYSTEM.

PANEL "F"

JAN. #32

SEE LTG. PLAN-PART "A" FOR CONTINUATION (SEE SH. #21)

E4-2 TO EMG. PNL. CONTRACTOR

TYPE "L" FIXTS. SHOWN IN LOBBY #2d (LTG. PLAN PART "A")

CORRIDOR #38 - ELECT. LTG. PLAN

SCALE 1/8" = 1'-0"

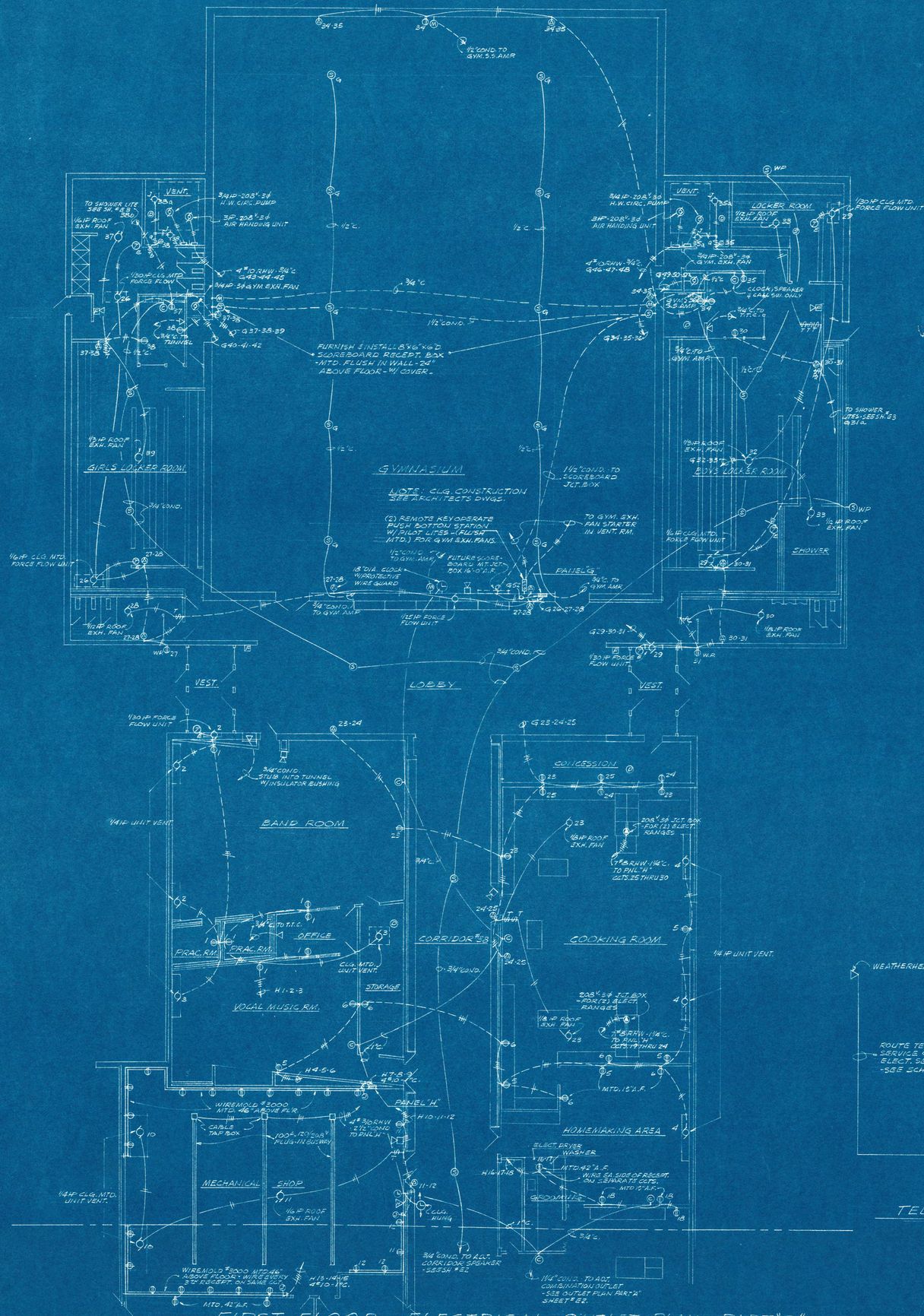
PORTALES JUNIOR HIGH SCHOOL

PORTALES, NEW MEXICO

WALLACE ATKINSON - SUPERINTENDENT

EXECUTED BY PORTALES SCHOOL BUILDING CORPORATION

E-3


GYMNASIUM
LOCKER ROOM
BOYS LOCKER ROOM
GIRLS LOCKER ROOM
SHOWER
LOBBY
VEST.
BAND ROOM
OFFICE
FRAC. RM.
VOCAL MUSIC RM.
STORAGE
CORRIDOR #38
COMMISSION
COOKING ROOM
HOMEMAKING AREA
MECHANICAL
SHOP
GROOMING
VENT.
PANEL "G"
PANEL "H"
LOTS: CLG. CONSTRUCTION SEE ARCHITECTS DWGS.
FURNISH & INSTALL 8"x6"x6" D. SCOREBOARD RECEPT. BOX - MTD. FLUSH IN WALL 24" ABOVE FLOOR - W/ COVER -
(2) REMOTE KEY OPERATE PUSH BOTTON STATION W/ PILOT LITES - (RUSH MTD.) FOR GYM. EXH. FANS.
TO GYM. EXH. FAN STARTER IN VENT. RM.
FUTURE SCORE-BOARD MT. - JCT. BOX 16'-0" A.F.
1½" COND. TO GYM. AMP.
1½" COND. TO SCOREBOARD JCT. BOX
3¾" COND. TO GYM. AMP.
3¾" COND. TO GYM. AMP.
3¾" COND. STUB INTO TUNNEL W/ INSULATOR BUSHING
1¼" COND. TO T.T.C.
CLG. MTD. UNIT VENT.
1¼" C.
WIREMOLD #3000 MTD. 46" ABOVE FLR.
CABLE TAP BOX
100 A. 120/208 V. PLUG-IN BUSWAY
4" 3 #6 RHW - 1¼" C. TO PNL. "H"
CLG. HUNG
3¾" COND. TO ADJ. CORRIDOR SPEAKER - SEE SH #E2
1¼" COND. TO ADJ. COMBINATION OUTLET - SEE OUTLET PLAN PART "A" SHEET #E2.
WIREMOLD #3000 MTD. 46" ABOVE FLOOR - WIRE ELECTRICITY 3 RECEPT. ON SAME CIR.
MTD. 42" A.F.
MTD. 15" A.F.
ELECT. DRYER
WASHER
MTD. 42" A.F. W. RES. EA. SIDE OF RECEPT. ON SEPARATE CCTS.
MTD. 15" A.F.
8" DIA. CLOCK W/ PROTECTIVE WIRE GUARD
3¾" HP - 208 - 3¢ AIR HANDLING UNIT
3¾" HP - 208 - 3¢ H.W. CIRC. PUMP
4" 10 RHW - 3¾" C. G 33-34-43
3¾" HP - 3¢ GYM. EXH. FAN
1½" C.
3¾" C.
1½" C.
1½" C.
1½

NOTE:
50"x50" SKYLITE W/(4) TYPE "F" STRIP FIXTS. IN EA.
-SEE DETAIL

CLASSROOM #220 | CLASSROOM #218 | CLASSROOM #216 | CLASSROOM #214 | BOYS #212 | GIRLS #208 | SCIENE ROOM #206 | SCIENCE ROOM #202

CORRIDOR #221

CLASSROOM #219 | CLASSROOM #217 | CLASSROOM #215 | CLASSROOM #213 | CLASSROOM #211 | CLASSROOM #209 | SCIENCE ROOM #207 | SCIENCE ROOM #201

JANITOR #210 | PANEL "A" | SDR #203 | WORK RM #205

REMOTE SHOW CASE FIXT. BALLAST - LOCATED IN CAB. - RM. #201

SECOND FLOOR - ELECTRICAL LIGHTING PLAN
SCALE 1/8" = 1'-0"

EXTERIOR PLASTIC DOME
(4) TYPE "F" FIXTURES
ROOF
ACOUSTICAL CEILING
INTERIOR PLASTIC DOME SEE ARCHITECTURAL DETAIL

CEILING DOME LIGHTING DETAILS
N.T.S.

NOTE:
ALL JCT. BOXES SHOWN AT UNIT VENT. CABINET SHALL BE 4" DEEP BOX EXTENDING THRU CORRUGATED ACCESSIBLE FROM ABOVE 1st FLOOR CEILING LAY-IN TILE.

NOTE:
SEE ARCHITECT DWGS. FOR EXACT LOCATION OF U.V.

NOTE:
FURNISH & INSTALL ½" GREENFIELD FROM COND. STUB 6" ABOVE FLOOR TO RECEPT. IN INSTRUCTORS LAB. DESK (RECEPT TO BE FURN. BY OTHERS)
-TYPICAL (4) LOCATIONS

SKYLITE | STAIRWELL | CLASSROOM #220 | CLASSROOM #218 | CLASSROOM #216 | CLASSROOM #214 | BOYS TOILET #212 | GIRLS TOILET #208 | SCIENCE ROOM #206 | STORAGE #204 | STAIR WELL | SCIENCE ROOM #202

1/4 HP UNIT VENT. | 1/8 HP UNIT VENT. | 1/4 HP UNIT VENT.

1" COND. | 1½" COND. | 1¼" COND. | ¾" COND. | ½" COND.

1/4 HP ROOF EXH. FAN | 1/3 HP 120 V. 1 Ø WRAP ROOF EXH. FAN | 1/2 HP-208 V. 3 Ø -LOCATE EXH. FAN

1/25 HP FORCE FLOW | 1/20 HP FORCE FLOW UNIT

DN. TO EXH. FAN CONTROL PNL. AT PNL "B" BELOW

1¼" COND. DN. TO S.S.T.B. GEN. OFFICE

1¼" COND. DN. TO S.S.T.B. IN GENERAL OFFICE BELOW

CLASSROOM #219 | CLASSROOM #217 | CLASSROOM #215 | CLASSROOM #213 | CLASSROOM #211 | CLASSROOM #209 | SCIENCE ROOM #207 | STOR. #203 | WORK RM. #205 | SCIENCE ROOM #201

LAB. DESK | INSTRUCTORS LAB. DESK

WIREMOLD SERIES 2000 WALL MTD. 42" ABOVE FLOOR

STUB CONDS. INTO 1900 BOX @ A.R.

1/4 HP - 120 V. UNIT VENT. | 1/8 HP UNIT VENT. | 1/4 HP UNIT VENT.

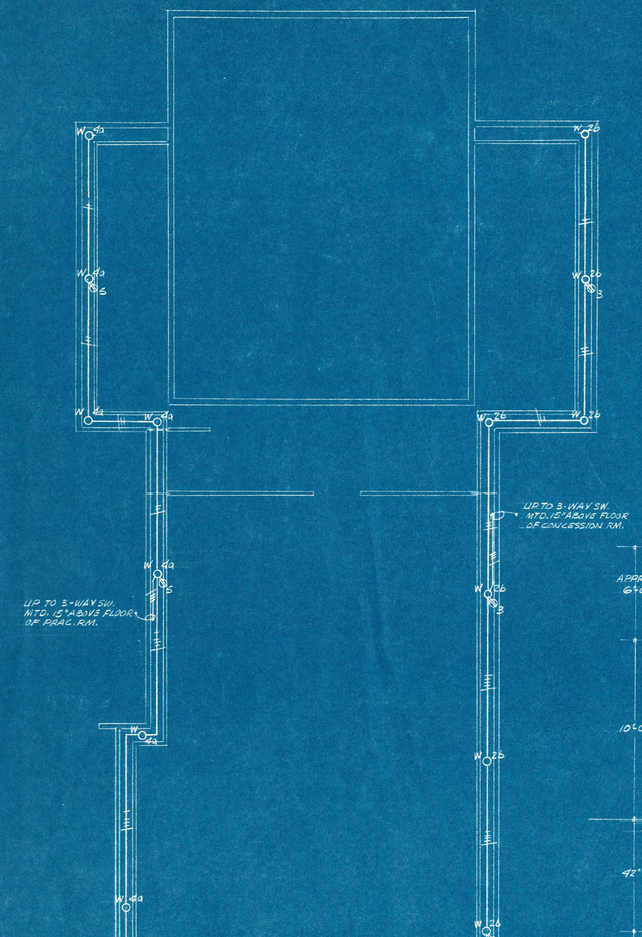
SECOND FLOOR - ELECTRICAL OUTLET PLAN
SCALE 1/8" = 1'-0"

PORTAGE JUNIOR HIGH & HIGH SCHOOL
FOR
PORTAGE CIVIL TOWNSHIP
WILLARD STELLWAGEN - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WOLFENBARGER
ARCHITECT
GARY, INDIANA

E-5

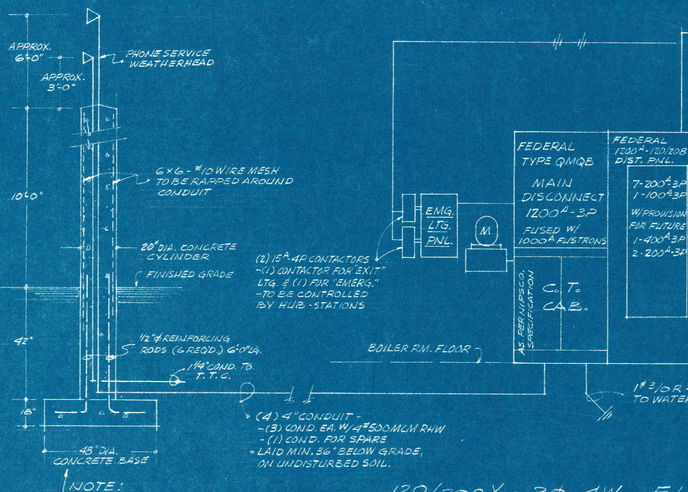
DRAWN BY: R.W.
CHECKED BY: J.W.
DATE: 10-10-56
REVISED:



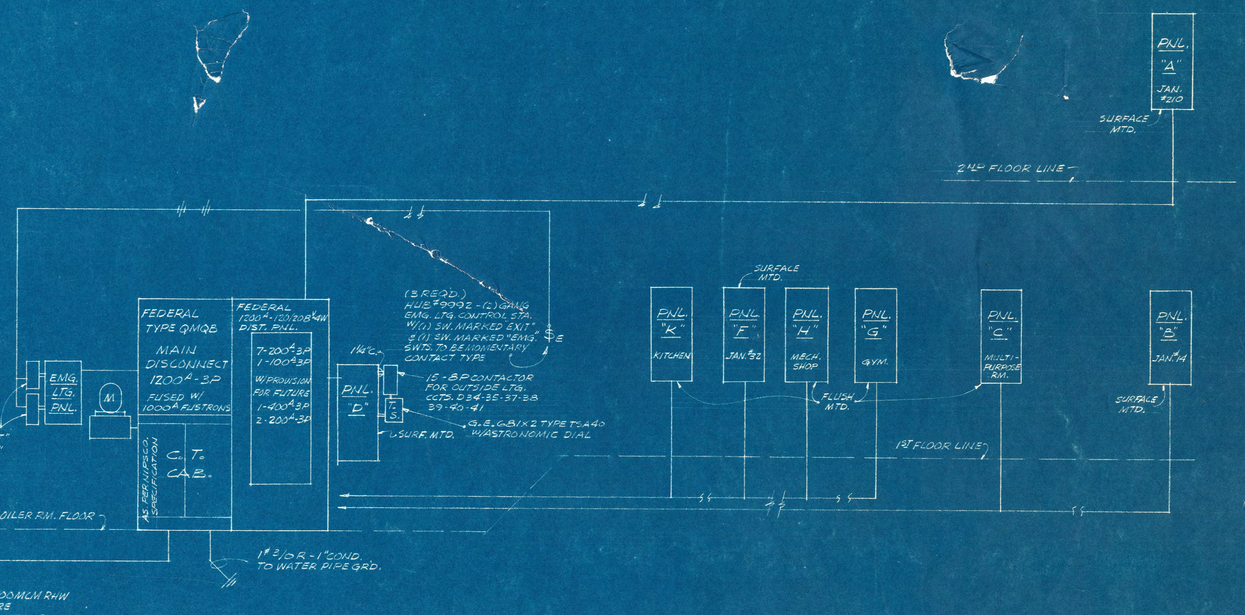
NOTE:
ALL 3-WAY & 4-WAY SWTS. FOR TUNNEL LITES SHALL BE INSTALLED W/ PILOT LITES

TUNNEL LIGHTING PLAN

SCALE 1/16" = 1'-0"



NOTE:
LOCATE 5'-0" FROM N.I.P.S.CO. TRANSF. POLE AT WEST PROPERTY LINE - SEE PLOT PLAN



120/208V - 3Φ - 4W ELECTRICAL SERVICE SCHEMATIC DIAGRAM

120/208V-4W PANEL SCHEDULE

PANEL MARK	FEDERAL CAT. NO.	MAINS	BRANCH BRKRS 20A/1	20A/2	20A/3	30A/3	40A/3	50A/3	100A/3	SPARE 20A./P	1-POLE SPACE ONLY	FEEDER CABLE (RHW)	FEEDER COND.
A	NALP 42-4L	225A MLO	38							4	-	250 MCM	3"
B	NALP 42-4L	225A MLO	36		1					3	-	4#4/0	3"
C	NALP 30-4L	100A MLO	21							3	6	4#3	1 1/2"
D	NALP 42-4L	225A MLO	17		4		2	2		1	-	4#3/0	2 1/2"
EMG.	#3/2-24	100A MLO	9							3	-	4#2	1 1/2"
F	NALP 42-4L	225A MLO	38						1	1	-	4#4/0	3"
G	NALP 30-4L (2 REQ'D.) W/COMMON TRIM	225A MLO	40		2	2				4	4	4#4/0	3"
H	NALP 42-4L	225A MLO	18				4		1	6	3	4#4/0	3"
K	NALP 42-4L	225A MLO	14	2	3			2		9	-	4#3/0	2 1/2"

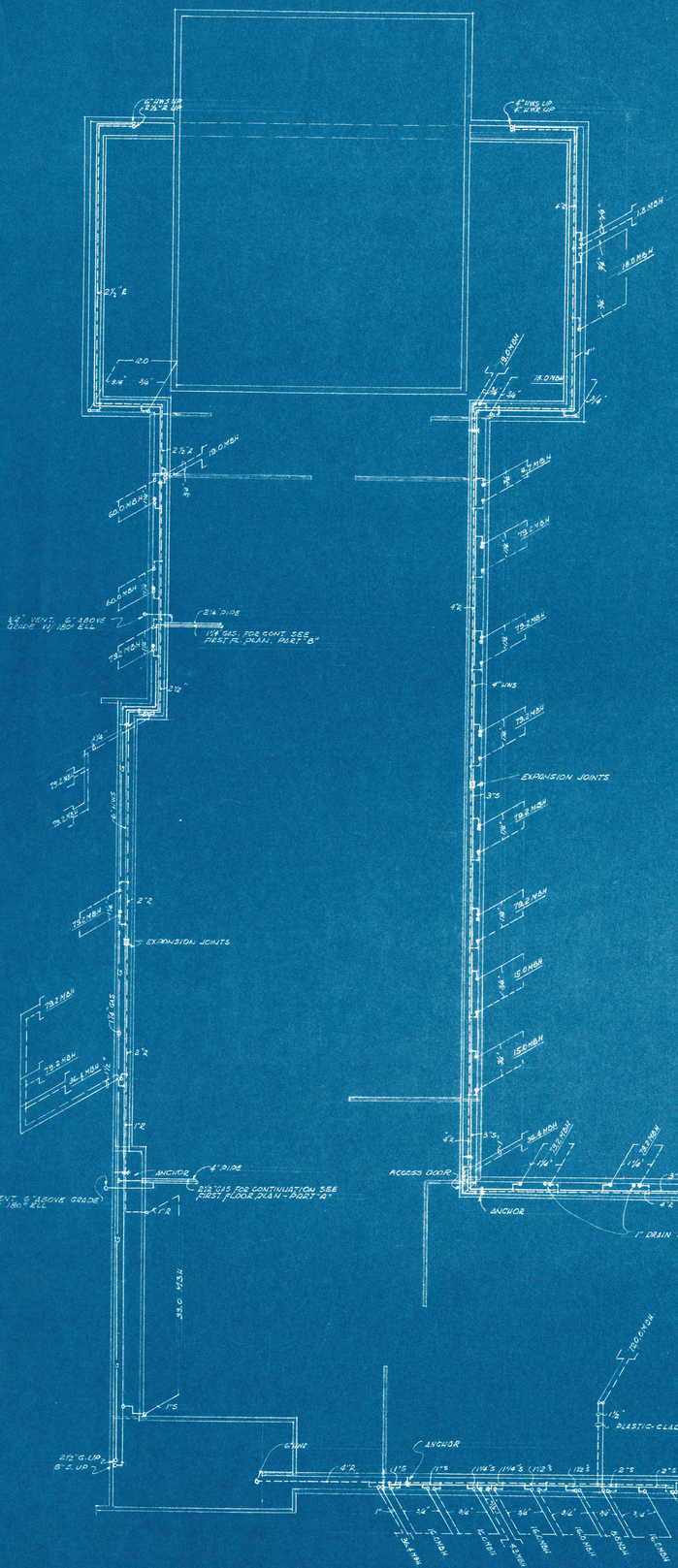
James F. Timmis — Robert L. Wildermuth

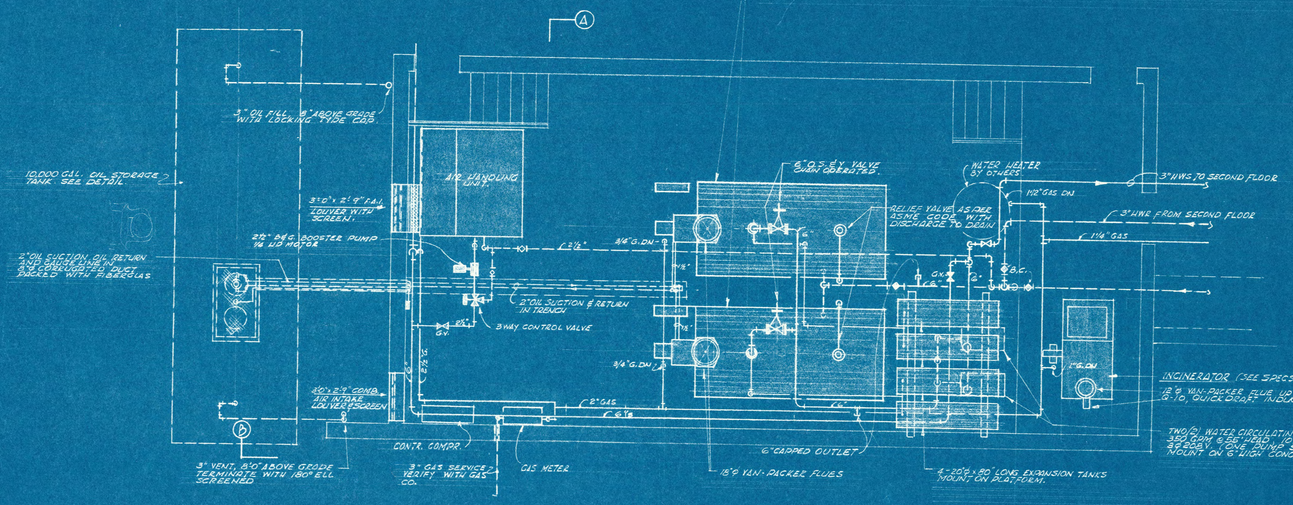
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE ATLEBURN - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION

E-6

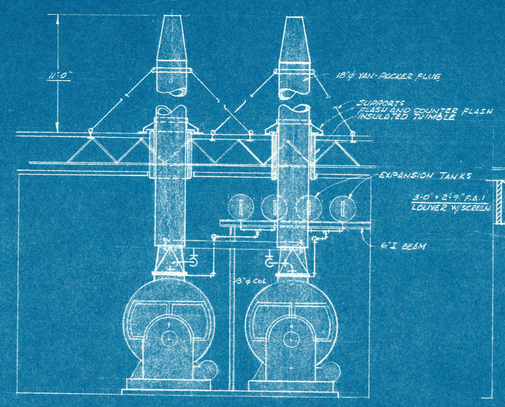
DRAWN BY: R.W.
CHECKED BY: J.F.T.
DATE: 5-10-54
REVISED

EDWARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

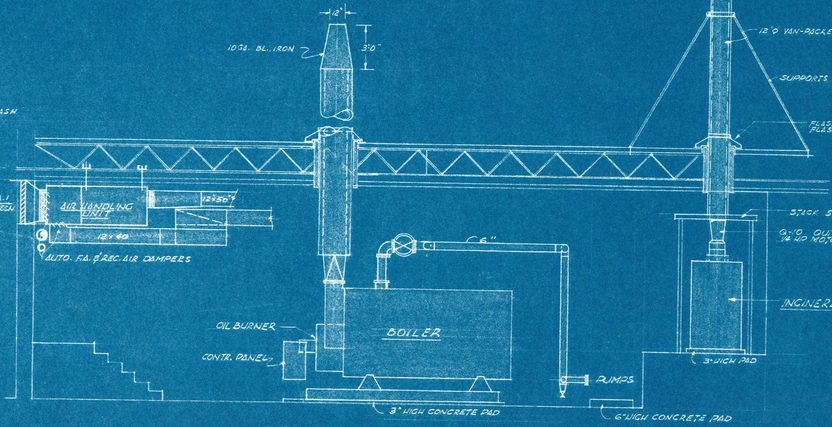




BOILER ROOM FLOOR PLAN
1/4" = 1'-0"



ELEVATION A-A'
1/4" = 1'-0"



ELEVATION B-B
1/4" = 1'-0"

FOUNDATION AND PIPE TUNNEL PLAN
1/16" = 1'-0"

James F. Gannon CERTIFIED Richard L. Wildermuth

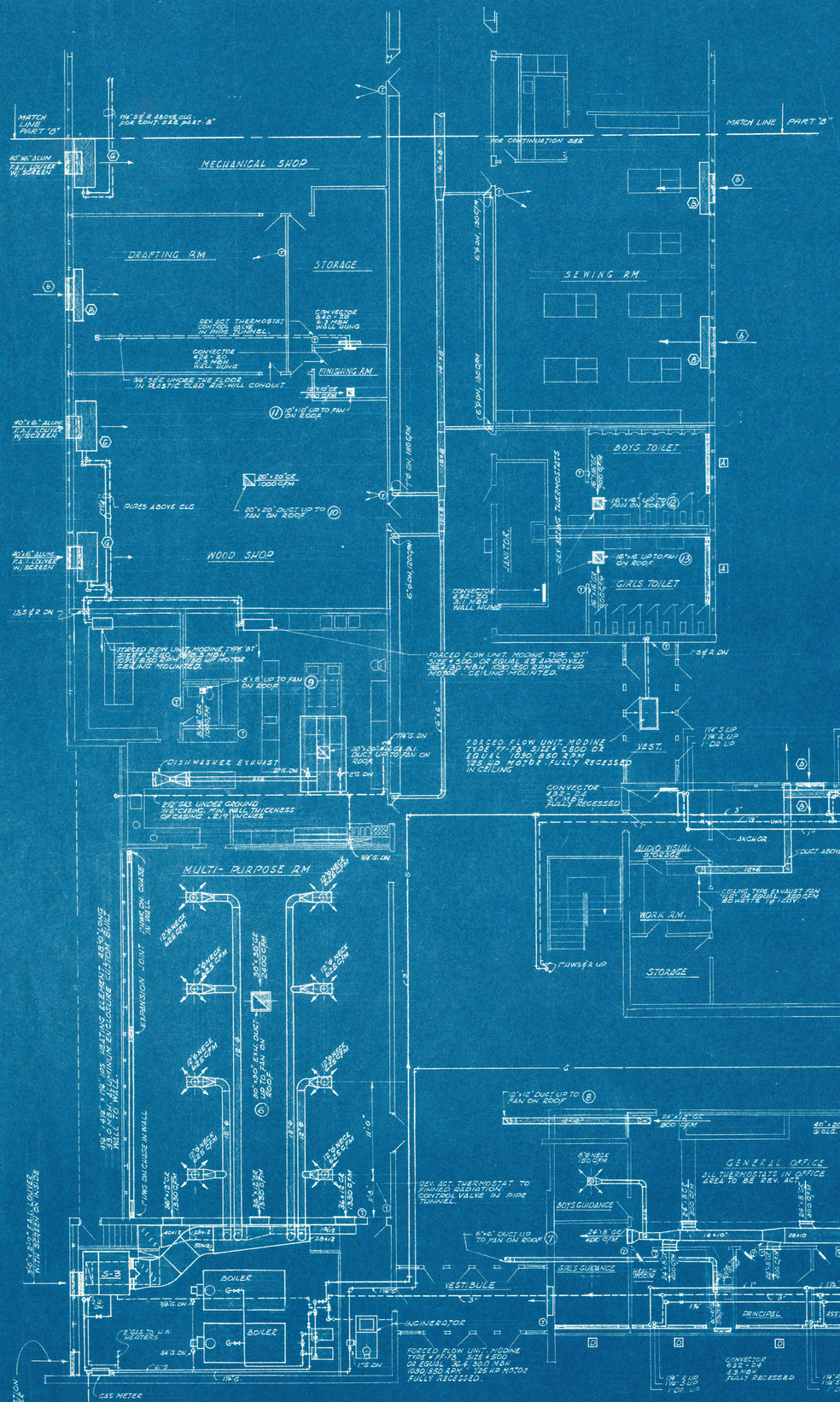
JAMES F. GANNON REGISTERED NO. 8006 STATE OF INDIANA PROFESSIONAL ENGINEER

RICHARD L. WILDERMUTH REGISTERED NO. 522 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE SCHOOL TOWNSHIP
WALLACE ATKINSON - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

HV-1

DRAWN BY: G.C.
CHECKED BY: J.G.
DATE: 10-15-54
REVISED


MATCH LINE PART "B"
MECHANICAL SHOP
DRAFTING RM.
STORAGE
SEWING RM.
FINISHING RM.
WOOD SHOP
BOYS TOILET
GIRLS TOILET
JAN. CLOS.
MULTI-PURPOSE RM.
VEST.
VESTIBULE
BOILER
BOILER
INCINERATOR
GAS METER
3" GAS SERVICE
DISHWASHER EXHAUST
FORCED FLOW UNIT, MODINE TYPE "DT" SIZE 1500 OR EQUAL AS APPROVED 35% HP MOTOR CEILING MOUNTED.
FORCED FLOW UNIT, MODINE TYPE "DT" SIZE 1500 OR EQUAL AS APPROVED 35% HP MOTOR CEILING MOUNTED.
FORCED FLOW UNIT, MODINE TYPE FP-FB SIZE 2800 OR EQUAL, 2800, 850 R.P.M. 1 HP MOTOR FULLY RECESSED IN CEILING
FORCED FLOW UNIT, MODINE TYPE FP-FB SIZE A 3010 OR EQUAL, 3000 H.P.M. 1030, 850 RPM. 1 HP MOTOR FULLY RECESSED.
FORCED FLOW UNIT, MODINE TYPE FP-FB SIZE 4350 OR EQUAL 4350 H.P.M. 1030 850 R.P.M. 1 1/2 HP MOTOR FULLY RECESSED.
CONVECTOR 4 FT. - 30 S.I. H.W. WALL MTG.
CONVECTOR 4 FT. - 30 S.I. H.W. WALL HUNG
CONVECTOR 6 FT. - 30 S.I. H.W. WALL HUNG
REV. ACT. THERMOSTAT CONTROL VALVE IN PIPE TUNNEL.
REV. ACTING THERMOSTATS
AUTO. F.A. & REC. AIR DAMPERS
80"x20" DUCT UP TO FAN ON ROOF
80"x30" EXH. DUCT UP TO FAN ON ROOF
60"x20" DUCT UP TO FAN ON ROOF
54"x18" DUCT UP TO FAN ON ROOF
42"x18" DUCT UP TO FAN ON ROOF
36"x18" DUCT UP TO FAN ON ROOF
30"x18" DUCT UP TO FAN ON ROOF
24"x18" DUCT UP TO FAN ON ROOF
16"x16" UP TO FAN ON ROOF
8"x8" UP TO FAN ON ROOF
40"x8" ALUM. F.A. LOUVER W/ SCREEN
12"x8" F.A. LOUVER W/ SCREEN
40"x12" ALUM. F.A. LOUVER W/ SCREEN
3/4" G. UP
1 1/4" G. UP
2" G. UP
3" G. UP
4" G. UP
1 1/4" G. DN
2" G. DN
3" G. DN
4" G. DN
3/4" G. DN
1 1/4" G. DN
2" G. DN
3" G. DN
4" G. DN
3/4" G. ON ROOF
1 1/4" G. ON ROOF
2" G. ON ROOF
3" G. ON ROOF
4" G. ON ROOF
1 1/4" G. ON
2" G. ON
3" G. ON
4" G. ON
3/4" G. ON
1 1/4" G. ON
2" G. ON
3" G. ON
4" G. ON
1 1/4" G. UP
2" G. UP
3" G. UP
4" G. UP
1 1/4" G. UP
2" G. UP
3" G. UP
4" G. UP
1 1/4" G. DN
2" G. DN
3" G. DN
4" G. DN

SHOWERS

SHOWERS

36"x36" F.A.I. LOUVERS WITH SCREEN ON INSIDE

3'-2" ø DN TO TUNNEL

AIR HANDLING UNIT S-1

72"x12" GR 2800 C.F.M.

FINNED RADIATION - NESBITT SILL-LINE TYPE C-24 - 24" H.G. ELEM. 4.6 MBH, ENCLOSURE WALL TO WALL

36"x36" DN TO GRILLE AND UP TO FAN ON ROOF (14)

3'0"x5'0" EXHAUST GRILLE

36"x36" GRILLE IN CEILING

72"x12" GR 2800 C.F.M.

EXPANSION JOINTS

GYMNASIUM

28"x28" GR 2000 C.F.M.

28"x28" UP TO FAN ON ROOF

72"x12" GR 2800 C.F.M.

FORCED FLOW UNIT, MODINE TYPE "BT" SIZE 4 C270 OR EQUAL 4,610 CFM 850 RPM 1/6 HP MOTOR. UNIT MOUNTED ON CEILING.

ANCHOR

1" UNDER ON CHASE IN WALL

FORCED FLOW UNIT, MODINE TYPE "BT" SIZE 4 C270 OR EQUAL 4,610 CFM 850 RPM 1/6 HP MOTOR. UNIT MOUNTED ON CEILING.

REV. ACT. THERMOSTAT

DROPS ABOVE CEILING

EXPANSION JOINTS

REV. ACT. THERMOSTAT

WOMEN

MEN

LOBBY

VESTIBULE

VESTIBULE

FORCED FLOW UNIT, MODINE TYPE "FP-PB" SIZE 4 C250 OR EQUAL 19,115 B.T.U.H. 1090 RPM 1/30 HP MOTOR. UNIT FULLY RECESSED.

FORCED FLOW UNIT, MODINE TYPE "FP-PB" SIZE 4 C250 OR EQUAL 19,115 B.T.U.H. 1090 RPM 1/30 HP MOTOR. UNIT FULLY RECESSED.

CONNECTOR 24"x8" A.S.A. FULLY RECESSED.

BAND ROOM

ALL DUCTS ABOVE SUSPENDED CLG.

12"x6" GR & FLOOR 150 C.F.M.

12"x6" GR & FLOOR 150 C.F.M.

12"x6" GE 150 C.F.M.

12"x6" DN

28"x5" R.A.I. DUCT UP

36"x5" R.A.I. DN TO GRILLE IN FLOOR

12"x6" GR & FLOOR 150 C.F.M.

12"x6" GR 150 C.F.M.

OFFICE

STORAGE

8"x8" NECK 150 C.F.M.

LINE INSIDE OF SUPPLY AND RETURN DUCT WITH 1/2" THICK FIBERGLAS ACOUSTICAL MATERIAL.

VOCAL MUSIC ROOM

1 1/2" GAS PIPE UNDER FLOOR IN 4'-0" VENTED CABINET. MINIMUM CASING WALL THICKNESS 1 1/8 INCHES

MECHANICAL SHOP

40"x42" ALUM. F.A.I. LOUVER W/ SCREEN EXT. ARCH. TYPE AT LOCATION

20"x20" UP TO FAN ON ROOF (10)

20"x20" GR 1000 C.F.M.

1" FOR CONT. SEE 1ST FL. PLAN - PART "A"

CONCESSION

DUCT ABOVE CLG.

12"x6" GE

12"x6" GE

1" GAS DN

1" GAS DN

12"x12" UP TO FAN ON ROOF (25)

11" GAS BELOW FLOOR

COOKING ROOM

12"x12" UP TO FAN ON ROOF (24)

12"x6" GE

12"x6" GE

1 1/4" GAS DN

DUCT ABOVE CLG.

HOMEMAKING AREA

16"x16" UP TO FAN ON ROOF (23)

FOR CONT. SEE FIRST FLOOR PLAN PART "A"

MATCH LINE

AIR HANDLING UNIT S-2

72"x12" GR 2800 C.F.M.

3'0"x5'0" EXHAUST GRILLE

36"x36" DN TO GRILLE AND UP TO FAN ON ROOF (14)

72"x12" GR 2800 C.F.M.

72"x12" GR 2800 C.F.M.

36"x36" F.A.I. LOUVER WITH SCREEN ON INSIDE

4'-2" ø DN TO TUNNEL

TEAM LOCKER RM

ANCHOR

FORCED FLOW UNIT, MODINE TYPE "BT" SIZE 4 C270 OR EQUAL 4,610 CFM 850 RPM 1/30 HP UNIT MTD. ON CLG.

36"x36" GR IN CEILING

FINNED RADIATION - NESBITT SILL-LINE TYPE A-24 - 6,010 C.F.M. ELEMENT G.O.MBH. ENCLOSURE WALL TO WALL.

DROP BELOW JOISTS

8" NECK, 100 C.F.M.

DUCT BETWEEN JOISTS

EXPANSION JOINTS

BOYS LOCKER RM

CONNECTOR 420-20 1.8MBH FULLY RECESSED.

30"x30" UP TO FAN ON ROOF (16)

20"x30" GR 2200 C.F.M.

72"x12" GR 2800 C.F.M.

12"x12" UP TO FAN ON ROOF (21)

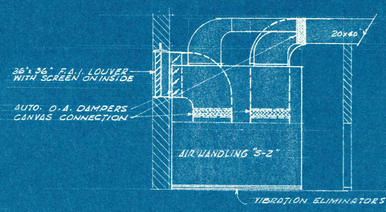
FORCED FLOW UNIT, MODINE TYPE "BT" SIZE 4 C270 OR EQUAL 4,610 CFM 850 RPM 1/6 HP MOTOR. UNIT MOUNTED ON CEILING

ANCHOR

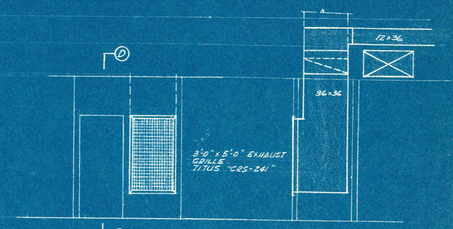
REV. ACT. THERMOSTAT

14"x14" GR 450 C.F.M.

MEN

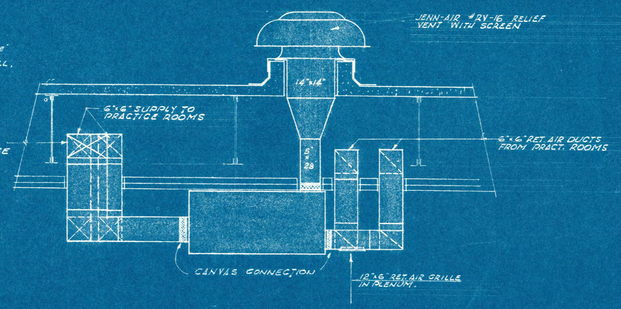


SECTION "B-B"



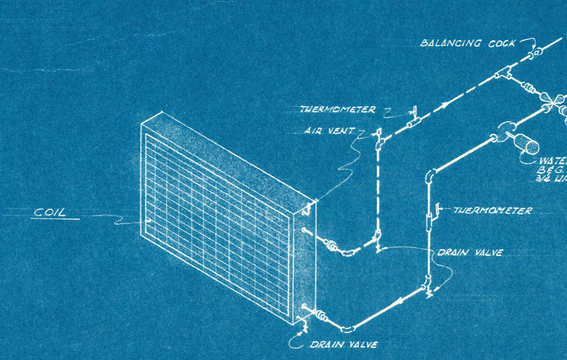
ELEVATION "C-C"

SECTION "D-D"



SECTION A-A

3/4" = 1'-0"



GYMNASIUM AIR HANDLING UNITS
WATER COIL PIPING DIAGRAM

AIR HANDLING UNITS SCHEDULE

MARK	MAKE & STYLE	C.F.M.	S.P.	H.P.	E.L.E. SYS. CHARACT.	COIL AREA 150 FT. & NO. OF ROWS	B.T.U.H. HEATING CAPACITY	REMARKS
S-1	AMED. AIR FILTER CO. #1248 S. VERTICAL	8500	1.6"	3	3ø 60-208	22.5 FT² 3 ROW	600,000	FLAT FILTER SECTION WITH 10"x20"x2" V. FILTERS PROVIDE VIBRATION ELIM.
S-2	AMED. AIR FILTER CO. #2258 S. VERTICAL	8500	1.6"	3	3ø 60-208	22.5 FT² 3 ROW	600,000	FLAT FILTER SECTION WITH 10"x20"x2" V. FILTERS PROVIDE VIBRATION ELIM.

FIRST FLOOR PLAN - PART "B"

1/8" = 1'-0"

James B. Lennie Behalf of Wilderhuth

STATE OF INDIANA REGISTERED No. 9005 PROFESSIONAL ENGINEER

RICHARD L. WILDERHUTH REGISTERED No. 922 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR High SCHOOL
FOR
PORTAGE CIVIL TOWNSHIP
WALLACE W. LEWBATH
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WILDERHUTH ARCHITECT PORT, INDIANA

H-3

DRAWN BY G.C.
CHECKED BY
DATE
REVISED

UNIT VENTILATOR SCHEDULE

MARK	STYLE	C.F.M STANDARD AIR	% OF MIN. OUTSIDE AIR	MIXED AIR TEMP.	TOTAL MBH	SURPL MBH	WATER RATE & HEADLOSS	COIL TYPE	FINAL TEMP °F.	QUANTITY REQ'D	REMARKS
(A)	NESBITT TYPE "A"	1500	25%	50%	96.0	63.4	4.8 GPM @ 1.6 FT	4 ROW & PDL COOLER	103°		SEMI- RECESSED.
(B)	NESBITT TYPE "A"	1250	25%	50%	79.2	52.1	4.0 GPM @ 1.0 FT	DO	108°		DO
(C)	NESBITT TYPE "A"	1000	25%	50%	60.0	38.3	3.0 GPM @ 2.0 FT	DO	108°		DO
(D)	NESBITT TYPE "V"	1250	25%	50°	79.2	52.1	4.0 GPM @ 1.0 FT	DO	108°		BUILT-IN.
(E)	NESBITT TYPE "V"	1000	25%	50°	60.0	38.3	3.0 GPM @ 2.0 FT.	DO	105°		Do
(F)	NESBITT TYPE "V"	1500	25%	50°	96.0	63.4	4.8 GPM @ 1.6 FT	DO	103		DO
(G)	NESBITT TYPE "U"	1250	25%	50°	79.2	52.1	4.0 GPM @ 1.0 FT.	DO	108°	4	CEILING MTD
(H)	NESBITT TYPE "UN"	500	25%	50°	41.6	31.6	3 GPM @ 2.0 FT.	DO	108	1	CEILING MTD.
⬡											

UNIT VENT. OUTSIDE AIR LOUVER SCHEDULE.

MARK	STYLE	LENGTH	WIDTH	HEIGHT	QUANTITY
(a)	NESBITT STYLE-1	74"	2⅞"	10⅜"	
(b)	NESBITT STYLE-1	62"	2⅞"	10⅜"	
(c)	NESBITT STYLE-1	50"	2⅞"	10⅜"	
(d)	NESBITT STYLE-1	62"	2⅞"	10⅜"	
(e)	NESBITT STYLE-1	50"	2⅞"	10⅜"	
(f)	NESBITT STYLE-1	74"	2⅞"	10⅜"	
⬡					

EXHAUST FAN SCHEDULE

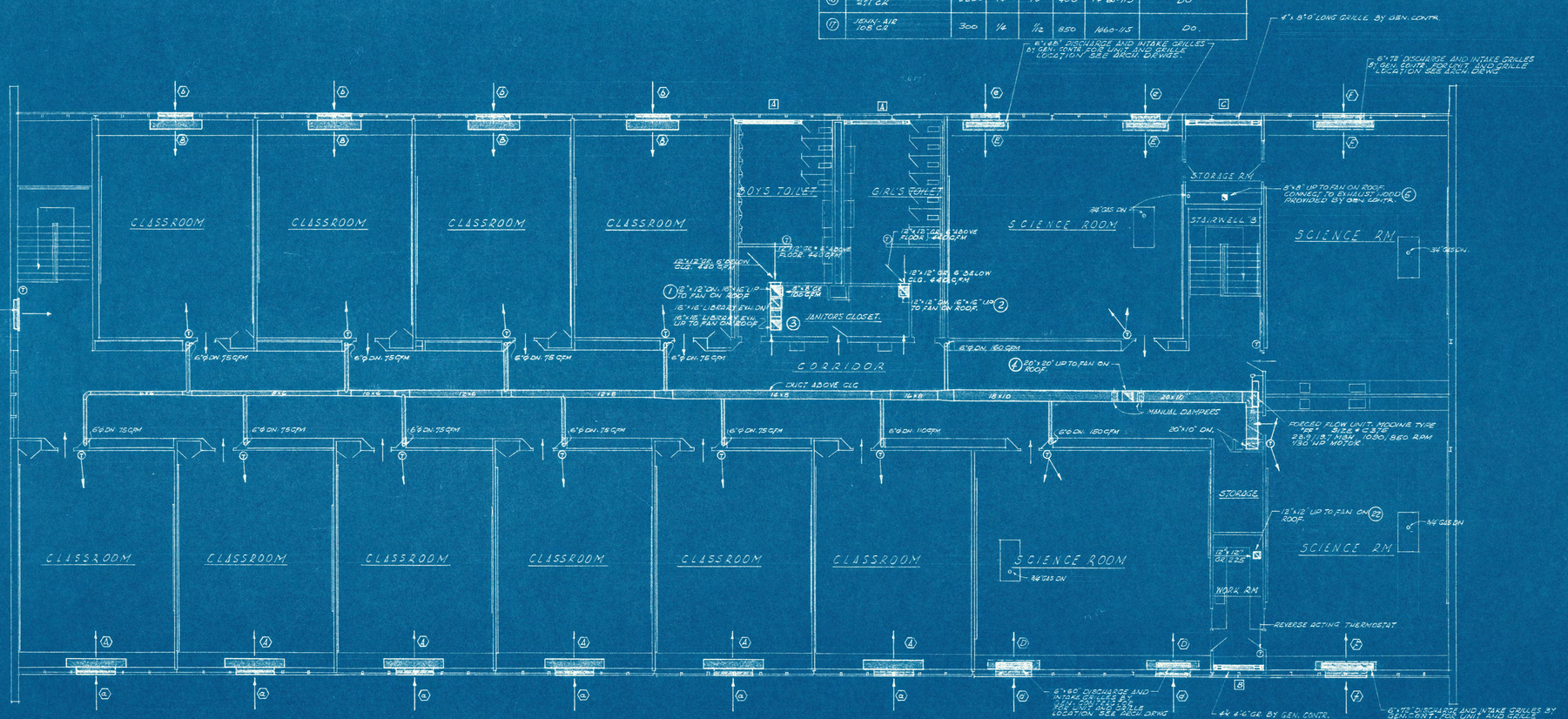
MARK	MAKE & TYPE	C.F.M	S.P	H.P	R.P.M	ELECTRICAL CHARACT.	REMARKS
(1)	JENN-AIR 241 CK	1800	¼"	½	445	1660-115V	PROVIDE SCREEN AND GRAVITY BACK DRAFT DAMPER.
(2)	JENN-AIR 241 CK	1800	¼"	¼	445	1660-115V	DO.
(3)	JENN-AIR 271 CK	2400	¼"	⅓	400	1660-115V	DO
(4)	JENN-AIR 272 CK	2400	½"	½	500	3960-208V	DO
(5)	JENN-AIR 70CR	225	¼"	1/25	1550	1660-115V	DO.
(6)	JENN-AIR 271 CK	2400	½"	⅓	400	1660-115	DO
(7)	JENN-AIR 71 CR	100	¼"	1/25	1550	1660-115	DO
(8)	JENN-AIR 111CR	800	3/8"	⅙	1140	1660-115	DO
(9)	JENN-AIR 71CR	100	¼"	1/25	1550	1660-115	DO
(10)	JENN-AIR 111CR	1000	¼"	⅙	1140	1660-115	DO
(11)	JENN-AIR 70CR	200	¼"	1/25	1550	1660-115	DO EXPL PROOF MOTOR
(12)	JENN-AIR 101CR	900	⅛"	⅙	1140	1660-115	DO
(13)	JENN-AIR 101CR	900	⅛"	⅙	1140	1660-115	DO
(14)	JENN-AIR 361CR (2 REQ'D)	5000	⅜	¾	375	3960-208	PROVIDE SCREEN AND AUTO. BACK DRAFT DAMPERS.
(15)	JENN-AIR 271 CK	2000	¼"	⅓	370	1660-115	PROVIDE SCREEN AND GRAVITY BACK DRAFT DAMPER.
(16)	JENN-AIR 271 CK	2200	¼"	⅓	400	1660-115	DO
(17)	JENN-AIR 108 CR	300	¼	½	850	1660-115	DO.

FINNED RADIATION SCHEDULE

MARK	MAKE AND TYPE	HTG. ELEM. LENGTH	MBH TOTAL	ENCLOSURE LENGTH & HEIGHT	REMARKS
(a)	NESBITT "SILL-LINE" C-2¢	7'-6"	15.2	WALL TO WALL 24" HIGH	
(b)	NESBITT C-23 HTG ELEMENT ONLY	6'-6"	8.8	BEHIND CABINETS	
(c)	NESBITT C-23 HTG ELEMENT ONLY	8'-6"	16.8	BEHIND CABINETS	
(d)	NESBITT "SILL-LINE" C-2¢	8'-0"	16.0	WALL TO WALL 24" HIGH	
(e)	NESBITT "SILL-LINE" A-11	12'-0"	12.0	WALL TO WALL 13" HIGH	
(f)	NESBITT "SILL-LINE" A-11	18'-0"	18.0	WALL TO WALL 13" HIGH	

EXHAUST FAN SCHEDULE (CONT'D)

(18)	JENN-AIR 91 CR	950	¼"	⅛	1140	1660-115V	PROVIDE SCREEN AND BACK DRAFT DAMPER.
(19)	JENN-AIR 111CR	800	¼"	⅙	1140	1660-115V	DO
(20)	JENN-AIR 113CR	530	¼	½	850	1660-115V	DO
(21)	JENN-AIR 108 CR	350	¼"	½	850	1660-115V	DO
(22)	JENN-AIR 70CR	225	¼"	1/25	1550	1660-115V	DO
(23)	JENN-AIR 241 CR	1700	½"	¼"	445	1660-115V	DO
(24)	JENN-AIR 91 CR	600	¼"	⅛	1140	1660-115V	DO
(25)	JENN-AIR 91 CR	600	¼"	⅛	1140	1660-115V	DO



SECOND FLOOR PLAN

SCALE: ⅛" = 1'-0"

Revised 12-4-61

James F. Dennis Richard L. Wilderanth

PORTAGE JUNIOR HIGH SCHOOL

FOR

PORTAGE SCHOOL TOWNSHIP
WILLARD ATLESWORTH - SUPERINTENDENT

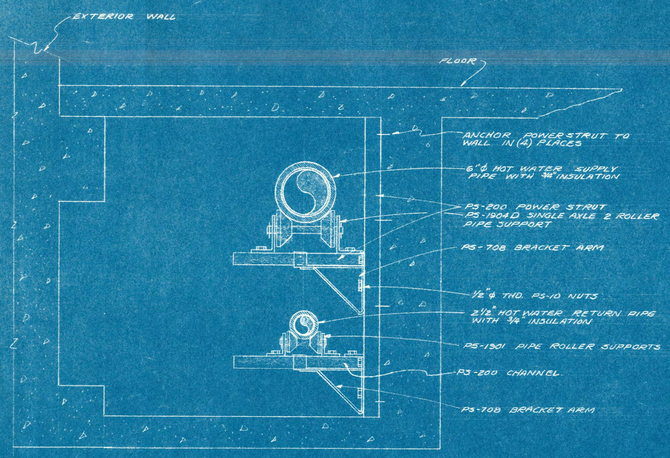
ERECTED BY

PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WILDERANTH
ARCHITECT PORTAGE, INDIANA

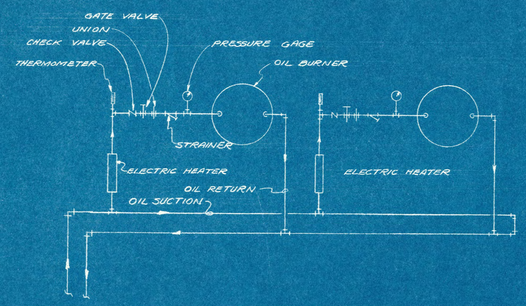
HV-4

DRAWN BY: R.L.W.
CHECKED BY: R.L.W.
DATE: 10-12-61
REVISED

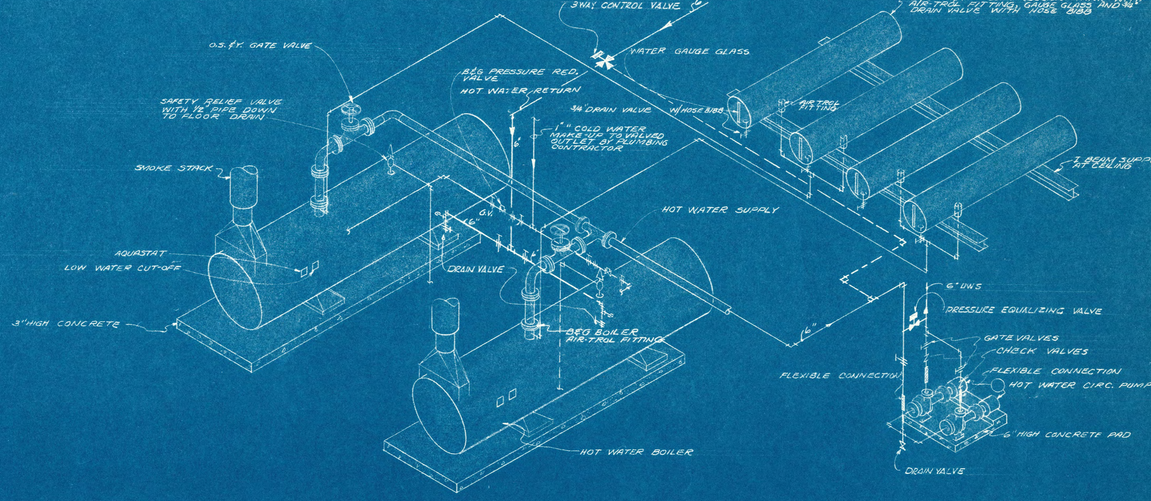


PIPE TUNNEL & PIPE SUPPORT DETAIL

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



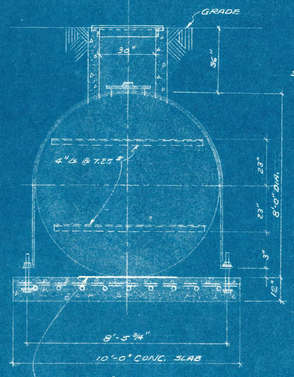
FUEL OIL BURNER PIPING DIAGRAM

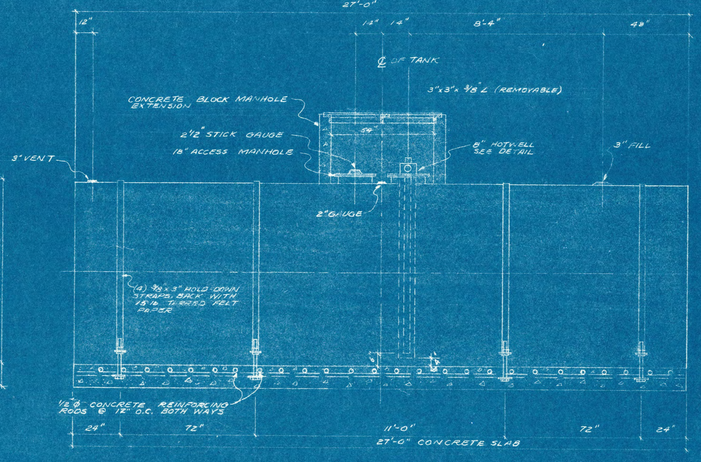


BOILER PIPING DIAGRAM

NO SCALE

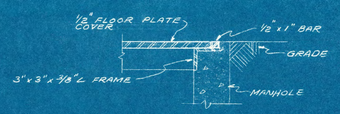
NOTE- TANK CONSTRUCTED OF 1/4" PLATE THRU-OUT AND, TO BEAR U.L. LABEL. PAINT ONE ENDS COAT & ONE FIELD COAT OF BLACK ASPHALTUM



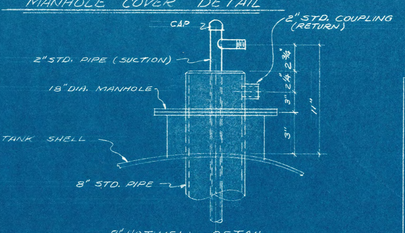


10,000 GALLON FUEL OIL TANK 8'-0" DIA. x 27'-0" LONG DETAILS

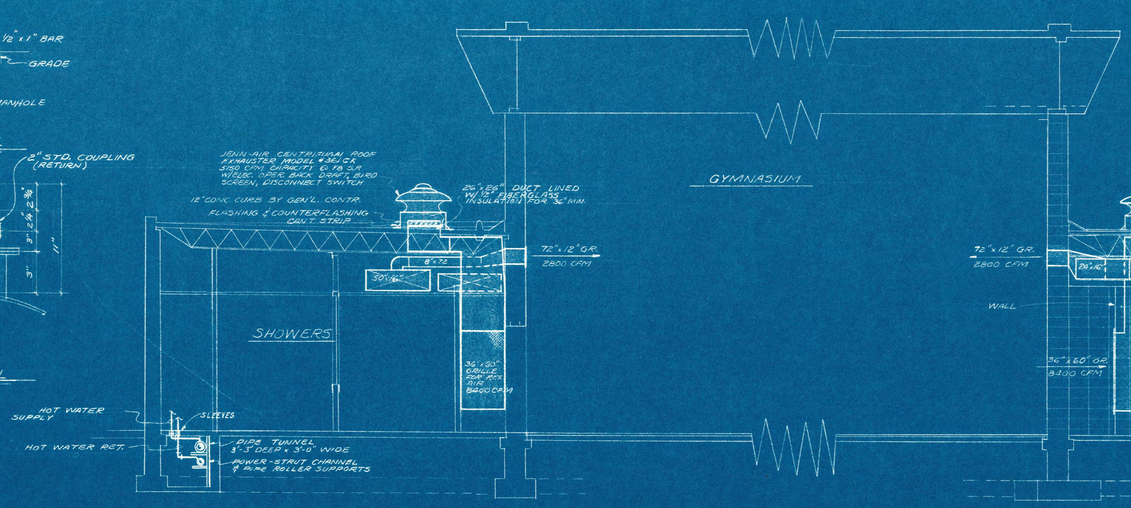
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MANHOLE COVER DETAIL



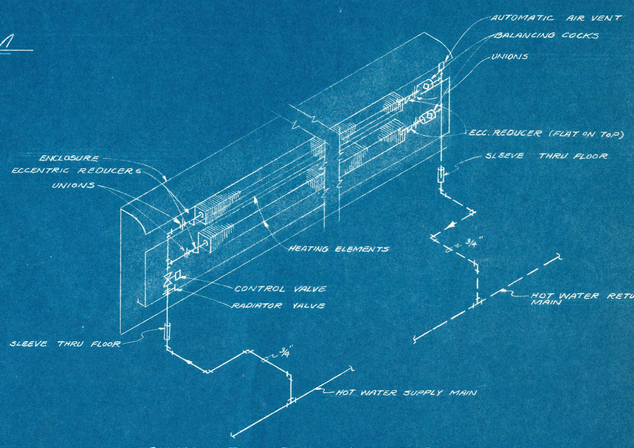
8" HOTWELL DETAIL



PIPE TUNNEL ELEVATION - SECTION "D-D"

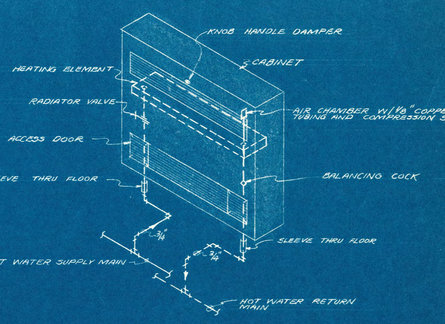
ELEVATION OF SUPPLY & RETURN AIR DUCTWORK IN SHOWER ROOM CEILING

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



PIPING DETAIL OF 2-HIGH FIN-TUBE RADIATION

NO SCALE



CONVECTOR PIPING DIAGRAM

NO SCALE

James F. Stamm — Richard L. Wilbernath

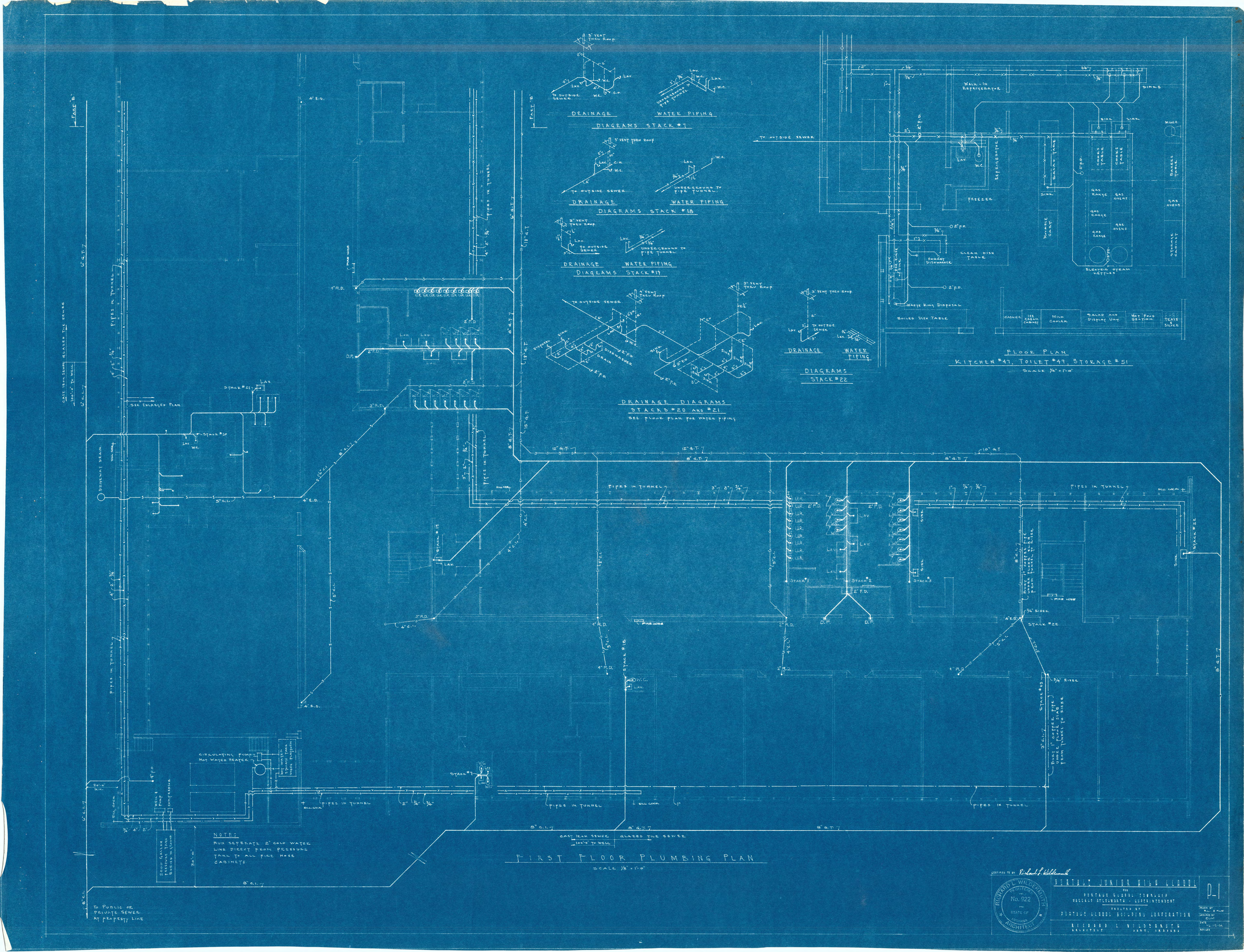
REGISTERED PROFESSIONAL ENGINEER No. 8004 STATE OF INDIANA

REGISTERED ARCHITECT No. 022 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
PTA
PORTAGE SCHOOL TOWNSHIP
WALLACE AYLESWORTH - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILBERNATH
ARCHITECT GARY, INDIANA

HV-5

DRAWN BY: JCC
CHECKED BY: RLW
DATE: 12-19-41
REVISED



FIRST FLOOR PLUMBING PLAN

SCALE 1/8" = 1'-0"

DRAINAGE — WATER PIPING

DIAGRAMS STACK #7

DRAINAGE — WATER PIPING

DIAGRAMS STACK #18

DRAINAGE — WATER PIPING

DIAGRAMS STACK #19

DRAINAGE DIAGRAMS

STACKS #20 AND #21

SEE FLOOR PLAN FOR WATER PIPING

DRAINAGE — WATER PIPING

DIAGRAMS STACK #22

FLOOR PLAN

KITCHEN #47, TOILET #49, STORAGE #51

SCALE 1/4" = 1'-0"

CERTIFIED TO BY Richard L. Wildermuth

RICHARD L. WILDERMUTH REGISTERED No. 022 STATE OF INDIANA ARCHITECT

PORTAGE JUNIOR HIGH SCHOOL

FOR

PORTAGE SCHOOL TOWNSHIP

WALLACE ATTERBURY - SUPERINTENDENT

ERECTED BY

PORTAGE SCHOOL BUILDING CORPORATION

RICHARD L. WILDERMUTH

ARCHITECT PORT, INDIANA

P-1

DRAWN BY A. M.W.

CHECKED BY R.L.W.

DATE 10-12-34

REVISED

SYMBOLS

SANITARY DRAIN
VENT
STORM DRAIN
COLD WATER SUPPLY
HOT WATER SUPPLY
HOT WATER RECIRCULATING
TEMPERED WATER SUPPLY

STORM SEWER TO CREEK

STACK #8
STACK #9
STACK #10
STACK #11
STACK #12
STACK #13
STACK #14
STACK #15
STACK #16
STACK #17

PIPES IN TUNNEL
SILL COCK
HYDROGUARD
FIRE HOSE
INTO TUNNEL
5' CORRUGATED GALVANIZED CULVERT
TO PARKING LOT CATCH BASINS
FAST A'

DRAINAGE DIAGRAM
STACK #17

WATER PIPING DIAGRAM
STACK #17

DRAINAGE DIAGRAM
STACK #8

WATER PIPING DIAGRAM
STACK #8

DRAINAGE DIAGRAM
STACK #9

WATER PIPING DIAGRAM
STACK #9

DRAINAGE DIAGRAM
STACK #10 AND STACK #11

WATER PIPING DIAGRAM
STACK #10 AND STACK #11

DRAINAGE DIAGRAM
STACK #12

WATER PIPING DIAGRAM
STACK #12

DRAINAGE DIAGRAM
STACK #13

WATER PIPING DIAGRAM
STACK #13

DRAINAGE DIAGRAM
STACK #14

WATER PIPING DIAGRAM
STACK #14

DRAINAGE DIAGRAM
STACK #15

WATER PIPING DIAGRAM
STACK #15

DRAINAGE DIAGRAM
STACK #16

WATER PIPING DIAGRAM
STACK #16

FIRST FLOOR PLUMBING PLAN

PART "B"

SCALE 1/8 - 1'-0"

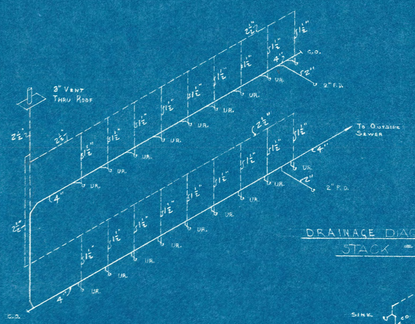
CERTIFIED TO BY Richard L. Wilderaute

RICHARD L. WILDERAUTE No. 922 STATE OF INDIANA REGISTERED ARCHITECT

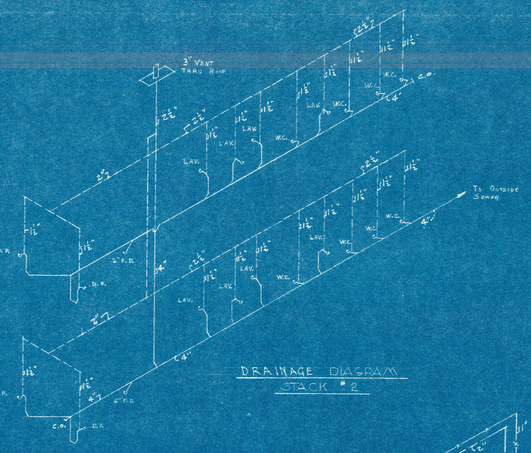
PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE CIVIL TOWNSHIP
WILLIAM ATKINSON - SUPERINTENDENT
BUILT BY
PORTAGE CIVIL BUILDING CORPORATION
RICHARD L WILDERAUTE
ARCHITECT
GARY, INDIANA

P-2

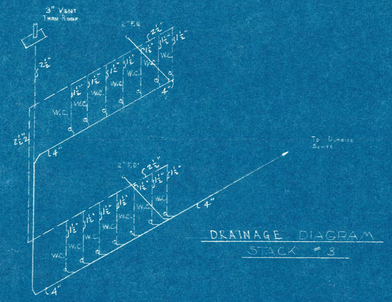
DRAWN BY
CHECKED BY
DATE 10/15/41
REVISED



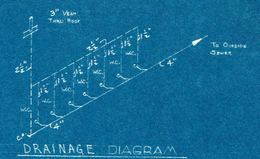
DRAINAGE DIAGRAM
STACK # 1



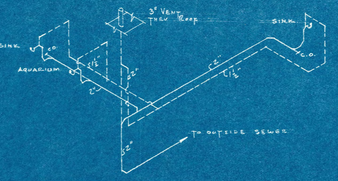
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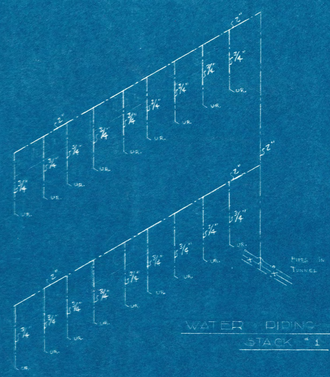
DRAINAGE DIAGRAM
STACK # 3



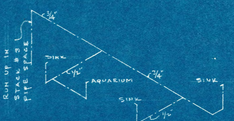
DRAINAGE DIAGRAM
STACK # 4



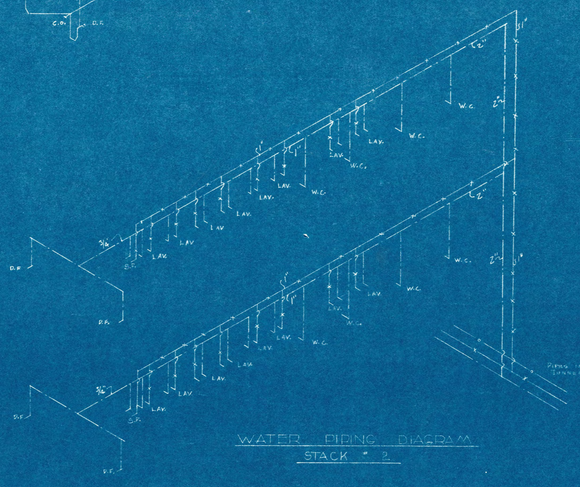
DRAINAGE DIAGRAM
STACK # 22



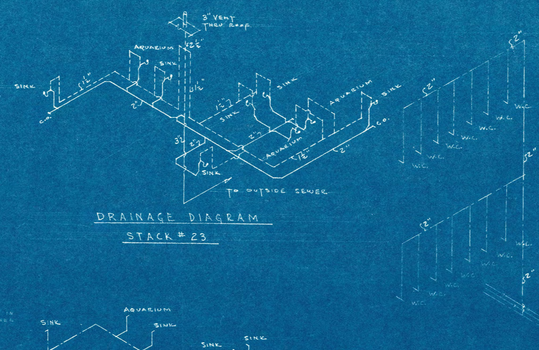
WATER PIPING DIAGRAM
STACK # 1



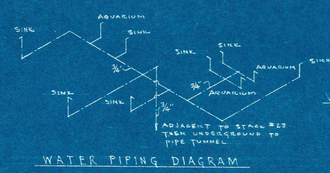
WATER PIPING DIAGRAM
STACK # 22



WATER PIPING DIAGRAM
STACK # 2



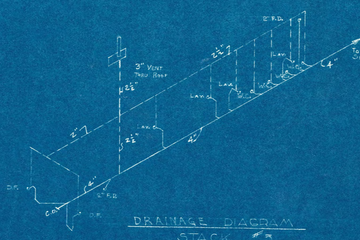
DRAINAGE DIAGRAM
STACK # 23



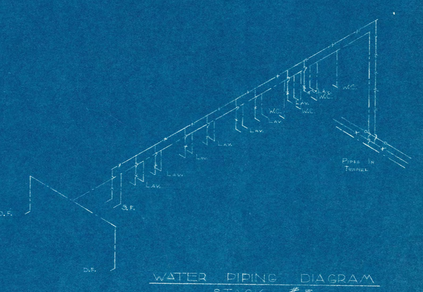
WATER PIPING DIAGRAM
STACK # 23



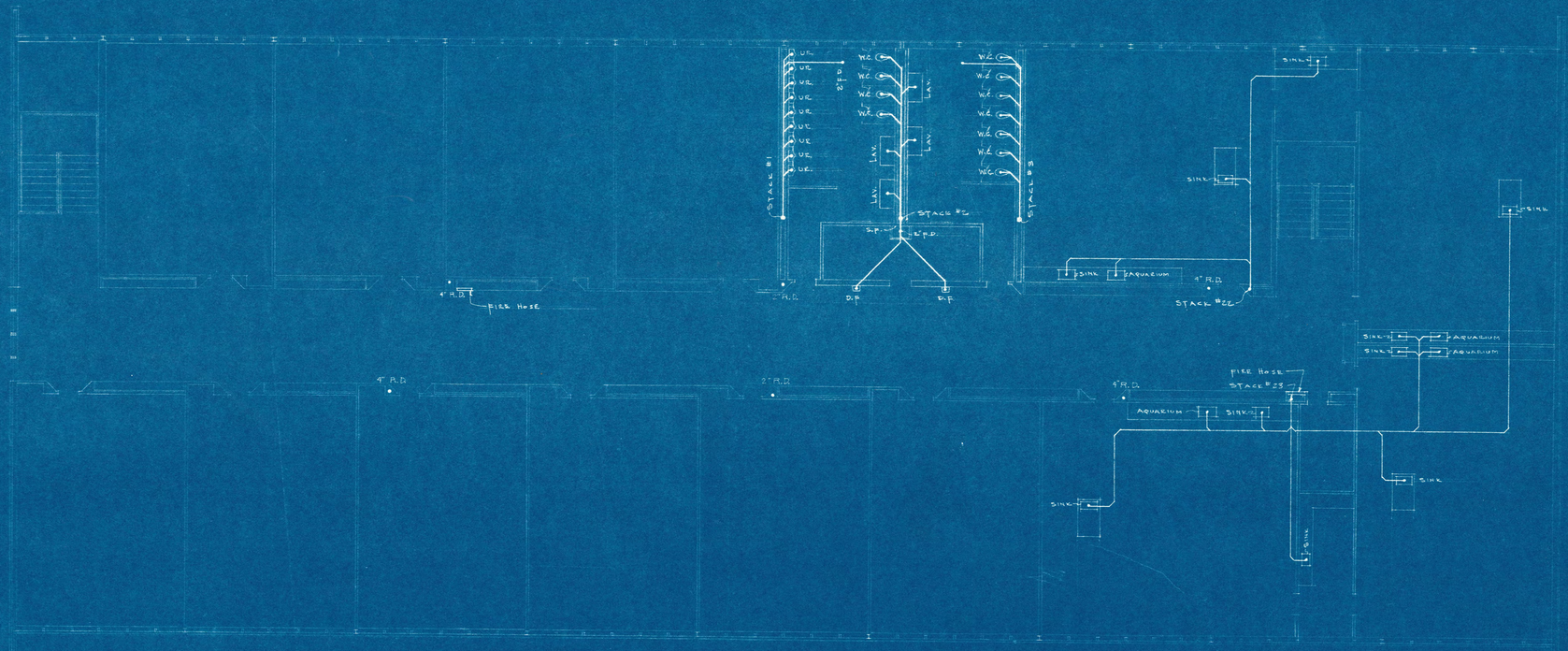
WATER PIPING DIAGRAM
STACK # 3



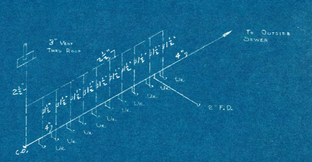
DRAINAGE DIAGRAM
STACK # 5



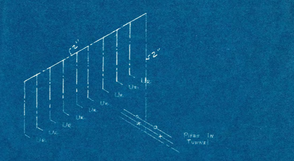
WATER PIPING DIAGRAM
STACK # 5



SECOND FLOOR PLUMBING PLAN
SCALE 1/8" = 1'-0"



DRAINAGE DIAGRAM
STACK # 6



WATER PIPING DIAGRAM
STACK # 6

CERTIFIED TO BY Richard L. Wildermuth

REGISTERED CIVIL ENGINEER No. 922 STATE OF INDIANA

PORTAGE JUNIOR HIGH SCHOOL
FOR
PORTAGE CIVIL TOWNSHIP
WALLACE ATTACHMENTS - SUPERINTENDENT
ERECTED BY
PORTAGE SCHOOL BUILDING CORPORATION
RICHARD L. WILDERMUTH
ARCHITECT
GARY, INDIANA

P-3

DRAWN BY: Author
APPROVED BY:
DATE: 10-12-55
REVISED