

ADDENDUM

ADDENDUM NO: 04

PROJECT: BCSC Columbus East High School – C4 Addition

PROJECT NO: 2025022

DATE: 11/14/2025

BY: Josh Cannaday

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages: ADD4-1 – ADD 4-6

Attached Documents: Specification 08 41 13 – Aluminum-Framed Entrances and Storefronts

Attached Drawing Sheets: C000, C300, C310, C400, C410, C500, A201, A407, A900, P101, E601, Simplex drawings (9, 17, 28, dated 6/30/2010)

PART 0 - GENERAL INFORMATION

0.1 N/A

PART 1 - BIDDING REQUIREMENTS

1.1 N/A

PART 2 - SPECIFICATIONS

2.1 07 42 43 – METAL COMPOSITE MATERIAL WALL PANELS

A. Add 2.02.A.1.k as follows:

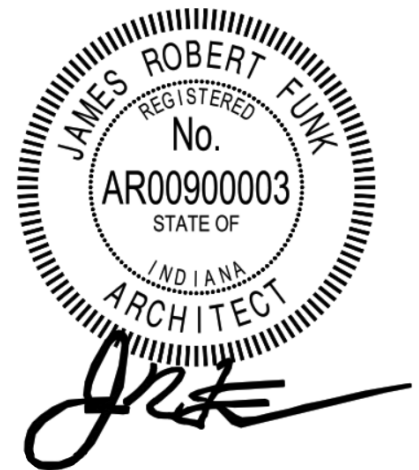
k. Alfrex, Inc.

2.2 08 36 13 – SECTIONAL DOORS

A. Delete 2.3.L. in its entirety and replace with

L. Electric Door Operator: Electric door operator assembly of size and capacity recommended by door manufacturer for door and operation cycles specified, with electric motor and factory-powered motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking door, and accessories required for proper operation.

1. Comply with NFPA 70.
2. Control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA IA 10030; with NFPA 70, Class 2 control circuit, maximum 24 V ac or dc.
3. Safety: Listed in accordance with UL 325 by a qualified testing agency for commercial or industrial use; moving parts of operator enclosed or guarded if exposed and mounted at 8



- ft. or lower.
4. Usage Classification: Standard duty, up to 25 cycles per hour.
 5. Operator type: Manufacturer's standard for door requirements.
 6. Motor: Reversible-type with controller (disconnect switch) for exterior, dusty, wet, or humid motor exposure. Use adjustable motor-mounting bases for belt-driven operators.
 1. Motor Size: As required to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec, without exceeding nameplate ratings or service factor.
 2. Electrical Characteristics: Coordinate wiring requirements and electrical characteristics of motors and other electrical devices with building electrical system and each location where installed.
 7. Limit Switches: Equip motorized door with adjustable switched interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.
 8. Obstruction Detection: Automatic external entrapment protection consisting of automatic safety sensor capable of protecting full width of door opening. Activation of device immediately stops and reverses downward door travel.
 1. Monitored Entrapment Protection: Electric sensor edge on bottom section designed to interface with door-operator control circuit to detect damage or disconnection of sensor and complying with requirements in UL 325.
 9. Control Station: Surface mounted, three-position (open, close, and stop) control.
 1. Operation: Push button.
 2. Interior-Mounted Unit: Full guarded, surface-mounted, standard-duty, weatherproof-type, NEMA IA 10030, Type 4 enclosure.
 3. Exterior-Mounted Unit: Full guarded, surface-mounted, standard-duty, weatherproof-type, NEMA IA 10030, Type 4 enclosure.
 10. Emergency Manual Operation: Push-up type designed so required force for door operation does not exceed 25 lbf.
 11. Emergency Operation Disconnect Device: Hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
 12. Motor Removal: Design operator so motor can be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.

2.3 08 41 13 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- A. Delete references to color anodized finish at 2.3.B.5 and 2.9.A and replace with Clear Anodized Finish.
- B. Add section 2.11 Aluminum-Framed Glazed Exchange Window.

2.4 08 44 13 – GLAZED ALUMINUM CURTAIN WALLS

- A. Delete 2.4 Pressure Plate with Mullion Cap in its entirety.

2.5 10 11 00 – VISUAL DISPLAY UNITS

- A. Revise 2.03.A.4 to read:

- 1. Frame: 5/16-inches

- B. Delete 2.05.B, 2.05.C, and 2.05.D in their entirety.

2.6 10 28 00 – TOILET, BATH, AND LAUNDRY ACCESSORIES

- A. Revise 2.03.B.3 as follows:

- 1. Outside Diameter: 1- 1/4 inches (32 mm).

2.7 10 51 13 – METAL LOCKERS

- A. Add 2.04.L as follows:

- L. Continuous Sloping Tops: Fabricated from 0.048-inch nominal-thickness steel sheet, with a pitch of approximately 20 degrees.

- 1. Closures: Vertical-end type.

2.8 22 13 19 – SANITARY WASTE PIPING SPECIALTIES

- A. Add Sioux Chief as an approved manufacturer.

2.9 22 14 23 – STORM WASTE PIPING SPECIALTIES

- A. Add Sioux Chief as an approved manufacturer.

2.10 22 34 00 – GAS FIRED DOMESTIC WATER HEATERS

- A. Add Lochinvar as an approved manufacturer.

2.11 22 40 00 – PLUMBING FIXTURES

- A. Add Sioux Chief as an approved manufacturer for chair carriers.

PART 3 - DRAWINGS

3.1 C000 – TITLE SHEET

- A. Modified Drawing Index to identify the revised sheets & dates under this Addendum.

3.2 C300 – GRADING PLAN

- A. Added spot shots to clarify pond modifications.

3.3 C310 – EMERGENCY FLOOD ROUTING PLAN

- A. Adjusted drawing's scale

3.4 C400 – DRAINAGE PLAN

- A. Added language to specify the modifications to the existing dry pond. Specifically, a Bottom elevation to the Dry detention note.
- B. Added Keynote #3 to reference the plumbing plans for the proposed pipe under the building.
- C. Added a callout to draw attention to the required coordination with the rammed aggregate piers.
- D. Modified the pipe type for Pipe 206.
- E. Modified pipe 205.

3.5 C410 – STORMWATER PROFILES

- A. Modified Pipe labels and elevations to reflect the changes of pipe 205.
- B. Adjusted the backfill call out over pipe 205 to match plumbing code
- C. Modified the pipe label for pipe 206.

3.6 C500 – UTILITY PLAN

- A. Added a callout to draw attention to the required coordination with the rammed aggregate piers.

3.7 SHEET A201 - FIRST FLOOR PLAN

- A. Revise "SIM section cut 3/A401" to be **1/A407** at Cosmetology Break area

3.8 SHEET A407 - WALL SECTIONS

- A. Add sheet to Construction Document Set

3.9 SHEET A900 - EQUIPMENT SCHEDULE AND DETAILS

- A. Revise Millwork Section 8/A900 to include Model Number for Pass Thru Transaction window.
Model **#S1EW12A**
- B. Revise LK1 to have sloped top to locker.

3.10 E601 – SCHEDULES – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

3.11 P101 – SCHEDULES – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

PART 4 - OTHER ITEMS

4.1 NOT USED

PART 5 - QUESTIONS AND ANSWERS

5.1 C400-Storm pipe shown under the new addition calls for 15" Sch40 pvc. Is this a standard pipe size? Also, what type of pvc pipe is required in the courtyard? It is noted as 12" pvc. Is SDR35 acceptable? Or HDPE? Please advise.

A. No, do not use 15" Sch40 PVC. Refer to the updated C400 sheet. Utilize an 18" Sch40 PVC pipe under the building addition. Use a 12" Sch40 PVC pipe for the courtyard, as shown in the updated C400 sheet.

5.2 This FRP paneling per section 06 64 00 will be required on just the two sides of the mop sink (not complete wall lengths?) for room I-099 custodial and just be 8' tall (since this is an exposed ceiling) ?

A. This is correct

5.3 On A010 wall type 9 does not specify the width of the stud. Please clarify.

A. Stud width is 8"

5.4 Construction Lab Room I-051 There are 2 sets of double doors with no tag numbers, and are not listed on door schedule, please clarify.

A. This was revised as part of Addendum 3

5.5 No welding tables are shown in the welding lab, tag WT-1 please clarify quantity to be installed.

A. Welding Lab Table is Owner Furnished / Contractor Installed

5.6 There is no spec section for the Welding Booths or model listed on equipment schedule.

A. Welding Booths are to be Owner Furnished / Contractor Installed

5.7 Please confirm if sloping hood is required on top of the lockers? The specs do NOT mention any sloping hood/tops. However, per the elevation details on sheet A900, LK1 lockers do NOT show sloping tops but the LK2 lockers do show sloping tops. Please confirm.

A. Lockers are to have sloped hoods. This is for both LK1 and LK2. Specification to be updated to reflect this.

- 5.8 Pedicures Rm I-067 on A901, shows 5 chairs but only 2 have id tags. How many chairs does contractor need to supply.
- A. Refer to plan note #17 on A201. The other 3 chairs are existing chairs that will be relocated by Owner.
- 5.9 Please confirm there is no interior signage spec. Signage spec only calls for exterior cast dimensional characters. Confirm that interior signage is being provided by the owner.
- A. Correct.
- 5.10 Print calls T11 – 24"x84" welded frame mirror (Bobrick B-290). Spec calls for height of 72" which is the max height of a B-290. Please confirm that 72" height is correct.
- A. 72" is correct.
- 5.11 Please confirm the height of "4" in signage C4 COSMETOLOGY.
- A. "4" is 12-inches tall.
- 5.12 There is no fire alarm panel shown, are there additional drawings to show this for proper take off?
- A. Refer to the existing Simplex drawings attached for additional information. Coordinate all scope of work with the local JCI-FP representative. (Drawings 9, 17, 28, dated 6/30/2010)
- 5.13 O2 / ACE / Argon. Are these items supplied by Bottle Supplier or Mechanical contractor?
- A. By bottle supplier.
- 5.14 On Sheet P201 at Col 58 & J, there is a note 8 and nothing there. Please advise.
- A. Delete plan note 8 reference at column line 58/J.

END ADDENDUM #4

SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed entrance and storefront systems.
2. **Aluminum-framed glazed exchange window.**

B. Related Requirements:

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Operating characteristics, electrical characteristics, and furnished accessories.

B. Shop Drawings:

1. Plans, elevations, sections, full-size details, and attachments to other work.
 2. Details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
 3. Full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrance and storefront systems, showing the following:
 - a. Joinery, including concealed welds.
 - b. Anchorage.
 - c. Expansion provisions.
 - d. Glazing.
 - e. Flashing and drainage.
 4. Connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
 5. Point-to-point wiring diagrams showing the following:
 - a. Power requirements for each electrically operated door hardware.
 - b. Location and types of switches, signal device, conduit sizes, and number and size of wires.
 6. Signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.
- D. Samples for Verification: Actual sample of finished products for each type of exposed

finish.

1. Size: Manufacturers' standard size.
- E. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch lengths of full-size components and showing details of the following:
1. Joinery, including concealed welds.
 2. Anchorage.
 3. Expansion provisions.
 4. Glazing.
 5. Flashing and drainage.
- F. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.
- G. Delegated Design Submittals: For aluminum-framed entrances and storefront systems, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

- A. Energy Performance Certificates: For aluminum-framed entrance and storefront systems, accessories, and components, from manufacturer.
1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront system.
- B. Product Test Reports: For aluminum-framed entrance and storefront systems, for tests performed by a qualified testing agency
- C. Source Quality-Control Reports: For aluminum-framed entrance and storefront systems.
- D. Field Quality-Control Reports: For aluminum-framed entrance and storefront systems.
- E. Quality-Control Program: Developed specifically for Project, including fabrication and installation, in accordance with recommendations in ASTM C1401. Include periodic quality-control reports.
- F. Qualification Statements:
1. For Installer and laboratory mockup preconstruction testing agency
- G. Delegated Design Engineer Qualifications: For aluminum-framed entrance and storefront systems.
- H. Sample Warranties: For aluminum-framed entrance and storefront systems.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For aluminum-framed entrance and storefront systems.

- B. Maintenance Data for Structural Sealant: For structural-sealant-glazed storefront. Include ASTM C1401 recommendations for post-installation-phase quality-control program.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Fabricator of products.
 - 2. Entity that employs installers and supervisors who are trained and approved by manufacturer.
 - 3. Authorized representative who is trained and approved by manufacturer.
 - 4. Entity that is certified under the North American Contractor Certification Program (NACC) and that employs installers and supervisors who are trained and approved by manufacturer and who are certified under the Architectural Glass and Metal Technician (AGMT) certification program.
- B. Delegated Design Engineer Qualifications: A professional engineer who is legally qualified to practice in State where Project is located and who is experienced in providing engineering services of the type indicated.
- C. Laboratory Mockup Testing Agency Qualifications: Qualified in accordance with ASTM E699 for testing indicated and accredited by the International Accreditation Service or the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement as complying with ISO/IEC 17025.
- D. Testing Agency Qualifications: Qualified in accordance with ASTM E699 for testing indicated and accredited by IAS or ILAC Mutual Recognition Arrangement as complying with ISO/IEC 17025 and acceptable to Owner and Architect.
- E. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.
- F. Structural-Sealant Glazing: Comply with ASTM C1401 for design and installation of storefront systems that include structural glazing.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrance and storefront systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures
 - b. Faulty operation of doors
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering use.

2. Warranty Period: 5 years from date of Substantial Completion.
- B. Special Finish Warranty, Anodized Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of anodized finishes within specified warranty period.
1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested in accordance with ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D 4214.
 - c. Cracking, peeling, or chipping.
 2. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain all components of aluminum-framed entrance and storefront system, including framing spandrel panels and accessories, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design aluminum-framed entrance and storefront systems.
- B. Energy Performance: Certified and labelled by manufacturer for energy performance as follows:
1. Thermal Transmittance (U-factor):
 - a. Fixed Glazing and Framing Areas: U-factor for the system of not more than 0.31 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
 2. Solar Heat Gain Coefficient (SHGC):
 - a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.25 as determined in accordance with NFRC 200.
- C. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrance and storefront systems representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
1. Aluminum-framed entrance and storefront systems to withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.

- d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- D. Structural Loads:
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Other Design Loads: As indicated on Drawings
- E. Deflection of Framing Members Supporting Glass: At design wind load, as follows:
 - 1. Deflection Normal to Wall Plane: Limited to 1/175 of length of span of the framing member for lengths of up to 13 feet 6 inches and to 1/240 of length of span of the framing member plus 1/4 inch for lengths greater than 13 feet 6 inches
 - 2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch
 - a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.
- F. Structural: Test in accordance with ASTM E330/E330M as follows:
 - 1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
 - 2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
 - 3. Test Durations: As required by design wind velocity, but not less than 10 seconds.
- G. Water Penetration under Static Pressure: Test in accordance with ASTM E331 as follows:
 - 1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested in accordance with a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
- H. Water Penetration under Dynamic Pressure: Test in accordance with AAMA 501.1 as follows:
 - 1. No evidence of water penetration through fixed glazing and framing areas when tested at dynamic pressure equal to 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
 - 2. Maximum Water Leakage: In accordance with AAMA 501.1 Water leakage does not include water controlled by flashing and gutters, or water that is drained to exterior.
- I. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:
 - 1. Air Leakage:

- a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft. when tested in accordance with ASTM E283.
 - b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft at a static-air-pressure differential of 1.57 lbf/sq. ft..
 2. Condensation Resistance Factor (CRF):
 - a. Fixed Glazing and Framing Areas: CRF for the system of not less than 68 as determined in accordance with AAMA 1503.
 - b. Entrance Doors: CRF of not less than 57 as determined in accordance with AAMA 1503.
- J. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
 2. Thermal Cycling: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested in accordance with AAMA 501.5.
 - a. High Exterior Ambient-Air Temperature: That which produces an exterior metal-surface temperature of 180 deg F
 - b. Low Exterior Ambient-Air Temperature: 0 deg F
 - c. Interior Ambient-Air Temperature: 75 deg F
- K. Structural-Sealant Joints:
 1. Designed to carry gravity loads of glazing.
- L. Structural Sealant: ASTM C1184. Capable of withstanding tensile and shear stresses imposed by structural-sealant-glazed, aluminum-framed entrance and storefront systems without failing adhesively or cohesively. When tested for preconstruction adhesion and compatibility, cohesive failure of sealant to occur before adhesive failure.
 1. Adhesive failure occurs when sealant pulls away from substrate cleanly, leaving no sealant material behind.
 2. Cohesive failure occurs when sealant breaks or tears within itself but does not separate from each substrate, because sealant-to-substrate bond strength exceeds sealant's internal strength.

2.3 ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

- A. Manufacturers: Basis of design, Tubelite TU2400 or provide products by one of the following:
 1. EFCO Corporation
 2. Kawneer Company, Inc.; Arconic Corporation
 3. Trulite Glass & Aluminum Solutions, LLC.
 4. Tubelite Inc.
 5. Cross Aluminum Products
- B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.

1. Exterior Framing Construction: Thermally broken.
 2. Interior Vestibule Framing Construction: Nonthermal.
 3. Glazing System: Retained mechanically with gaskets on four sides.
 4. Glazing Plane: Center.
 5. Finish: ~~Color~~ **Clear** anodic finish.
 6. Fabrication Method: Field-fabricated stick system.
 7. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 8. Steel Reinforcement: As required by manufacturer.
- C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- E. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.
1. Door Construction: 2- to 2-1/4-inch overall thickness, with minimum 0.125-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
 - a. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior.
 2. Door Design: Wide stile; 5-inch nominal width.
 3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.
 - a. Provide nonremovable glazing stops on outside of door.
 4. Finish: Match adjacent storefront framing finish.

2.4 ENTRANCE DOOR HARDWARE

- A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware."

2.5 GLAZING

- A. Glazing: Comply with Section 088000 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
- C. Glazing Sealants: As recommended by manufacturer.
- D. Structural Glazing Sealants: ASTM C1184 chemically curing silicone formulation that is compatible with system components with which it comes in contact; specifically formulated and tested for use as structural sealant and approved by structural-sealant manufacturer for use in storefront system indicated.

1. Color: To be selected from manufacturer's full range.

- E. Weatherseal Sealants: ASTM C920 for Type S; Grade NS; Class 25; Uses NT, G, A, and O; chemically curing silicone formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and structural-sealant-glazed storefront manufacturers for this use.

1. Color: Match structural sealant.

2.6 MATERIALS

- A. Sheet and Plate: ASTM B209.
- B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.
- C. Structural Profiles: ASTM B308/B308M.
- D. Steel Reinforcement:
1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
 2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
 3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.
- E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.
- F. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.

2.7 ACCESSORIES

- A. Automatic Door Operators: Section 08 70 00 Door Hardware
- B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
 2. Reinforce members as required to receive fastener threads.
 3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system.
- C. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A123/A123M or ASTM A153/A153M requirements.
- D. Concealed Flashing: Dead-soft, 0.018-inch- thick stainless steel, complying with ASTM

A240/A240M, of type recommended by manufacturer.

- E. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for 30-mil thickness per coat.
- F. Rigid PVC filler.
- G. Flashing and break metal trim, to match storefront framing, as indicated on the drawings.

2.8 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of interior for vision glass and exterior for spandrel glazing or metal panels.
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Storefront Framing: Fabricate components for assembly using head-and-sill-receptor system with shear blocks at intermediate horizontal members
- E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
 - 1. At interior and exterior doors, provide compression weather stripping at fixed stops.
- F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
 - 1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
 - 2. At exterior doors, provide weather sweeps applied to door bottoms.
- G. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- H. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.9 ALUMINUM FINISHES

- A. ~~Color~~ Clear Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.

2.10 SOURCE QUALITY CONTROL

- A. Structural Sealant: Perform quality-control procedures complying with ASTM C1401 recommendations, including, but not limited to, assembly material qualification procedures, sealant testing, and assembly fabrication reviews and checks.

2.11 ALUMINUM-FRAMED GLAZED EXCHANGE WINDOW

- A. **Manufacturers: Basis of design, C. R. Laurence S1EW12A or architect approved equal.**
 - 1. **Frames: Aluminum bullet resistant frame modules shall be to the standards established by U.L. 752 Protection Level 1. Replacement of glazing shall be from the secure side of the window or wall unit and does not require the removal of the frame from the opening. Shapes and sizes are to be in accordance with the contract drawings. Frames must utilize testing recognized under the standards established by U.L. 752 for bullet resistant components.**
- B. **Finish: All aluminum to be clear anodized.**
- C. **Glazing: The glazing must be in accordance with U.L. 752 testing standards Level 1 laminated glass**
- D. **Shelf: Provide a shelf not less than 2" thick with recessed deal tray. The shelf is to be the full width of the window and a minimum of 12" deep centered under the glazing.**
- E. **Voice Transmission: Communication permitted by round 6" stainless steel speak thru.**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

- A. Comply with manufacturer's written instructions.
- B. Do not install damaged components.
- C. Fit joints to produce hairline joints free of burrs and distortion.
- D. Rigidly secure nonmovement joints.
- E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.

- F. Seal perimeter and other joints watertight unless otherwise indicated.
- G. Metal Protection:
 - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- H. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.
- I. Install joint filler behind sealant as recommended by sealant manufacturer.
- J. Install components plumb and true in alignment with established lines and grades.
- K. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.
- L. Install entrance doors to produce smooth operation and tight fit at contact points.
 - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
 - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.
- M. Install glazing as specified in Section 088000 "Glazing."
- N. Install structural glazing as follows:
 - 1. Prepare surfaces that will contact structural sealant in accordance with sealant manufacturer's written instructions, to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.
 - 2. Set glazing into framing in accordance with sealant manufacturer and framing manufacturer's written instructions and standard practice. Use a spacer or backer as recommended by manufacturer.
 - 3. Set glazing with proper orientation so that coatings face exterior or interior as specified.
 - 4. Hold glazing in place using temporary retainers of type and spacing recommended by manufacturer, until structural sealant joint has cured.
 - 5. Apply structural sealant to completely fill cavity, in accordance with sealant manufacturer and framing manufacturer's written instructions and in compliance with local codes.
 - 6. Apply structural sealant at temperatures indicated by sealant manufacturer for type of sealant.
 - 7. Allow structural sealant to cure in accordance with manufacturer's written instructions.
 - 8. Clean and protect glass as indicated in Section 088000 "Glazing."
 - 9. After structural sealant has completely cured, remove temporary retainers and insert backer rod between lites of glass as recommended by sealant manufacturer.
 - 10. Install weatherseal sealant to completely fill cavity, in accordance with sealant manufacturer's written instructions, to produce weatherproof joints.

3.3 ERECTION TOLERANCES

- A. Install aluminum-framed entrance and storefront systems to comply with the following maximum tolerances:
 - 1. Plumb: 1/8 inch in 10 feet; 1/4 inch in 40 feet.
 - 2. Level: 1/8 inch in 20 feet; 1/4 inch in 40 feet.
 - 3. Alignment:
 - a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wide, limit offset from true alignment to 1/16 inch.
 - b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offset from true alignment to 1/8 inch.
 - c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offset from true alignment to 1/4 inch.
 - 4. Location: Limit variation from plane to 1/8 inch in 12 feet; 1/2 inch over total length.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests.
- B. Inspection Agency: Owner will engage a qualified inspector to perform inspections.
- C. Aluminum-framed entrance and storefront systems will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.

3.5 MAINTENANCE SERVICE

- A. Entrance Door Hardware Maintenance:
 - 1. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of entrance door hardware.
 - 2. Initial Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of entrance door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door hardware operation at rated speed and capacity. Use parts and supplies that are the same as those used in the manufacture and installation of original equipment.

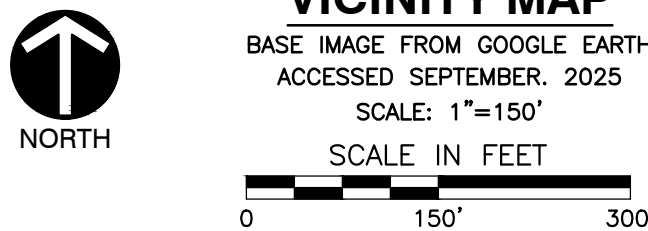
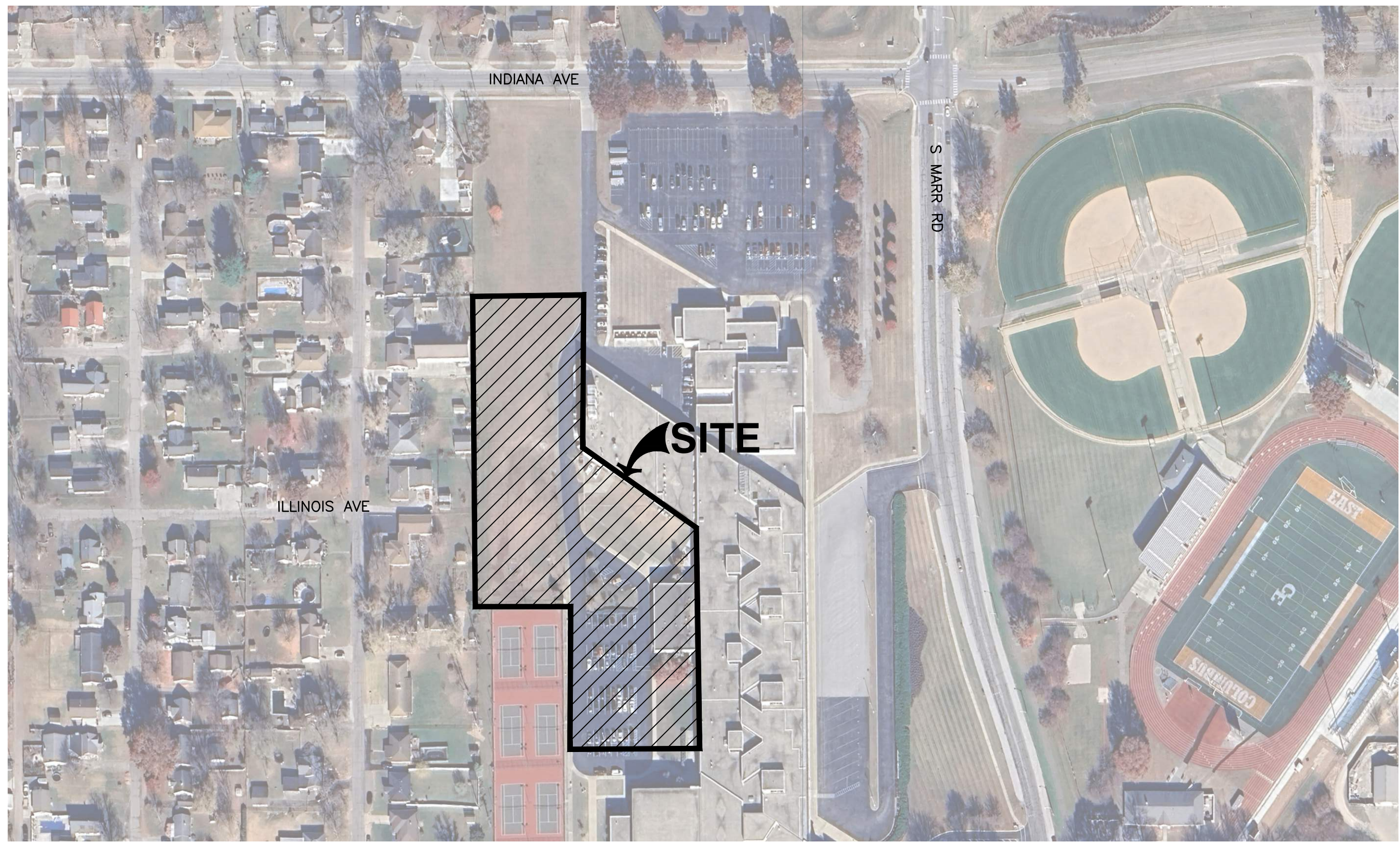
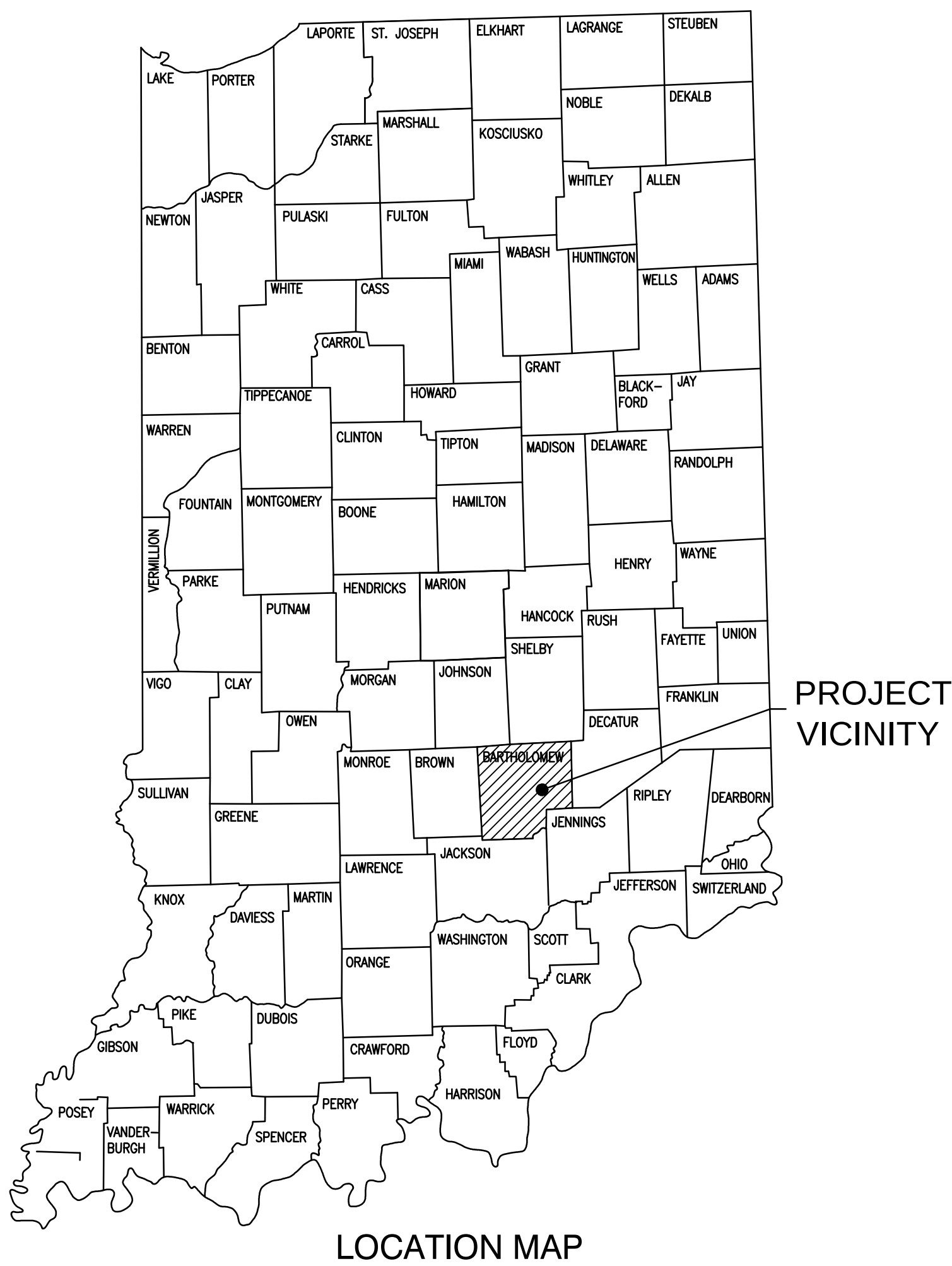
END OF SECTION

C4 BUILDING EXPANSION COLUMBUS EAST HIGH SCHOOL

230 S MARR RD
COLUMBUS, INDIANA 47201
CIVIL PLANS

OCTOBER 24, 2025
ADDENDUM #04 - NOVEMBER 14, 2025

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4-9	TOPOGRAPHIC SURVEY	TOPO
10	EXISTING CONDITIONS OVERALL SITE	C001
11	DEMOLITION PLAN	C100
12	GRADING PLAN	C300
13	EMERGENCY FLOOD ROUTING	C310
14	DRAINAGE PLAN	C400
15	STORMWATER PROFILES	C410
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17	SITE DETAILS	C800
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19	STORMWATER POLLUTION PREVENTION NOTES	C901
20	STORMWATER POLLUTION PREVENTION DETAILS	C902
CITY OF COLUMBUS TYPICAL DETAILS		



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BENCHMARKS:
UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.
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TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY NOTE:
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FLOOD NOTE:
THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONES "X" (UN-SHADED) AND "X" (SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 180500134F, (DATED FEBRUARY 23, 2023) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.



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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C4 ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the interrelationship of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for the performance and completion of the project. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
11/14/2025 - ADDENDUM #04

ISSUE DATE 10/24/25
DRAWN BY JMP
CHECKED BY JMP

DRAWING TITLE:
TITLE SHEET

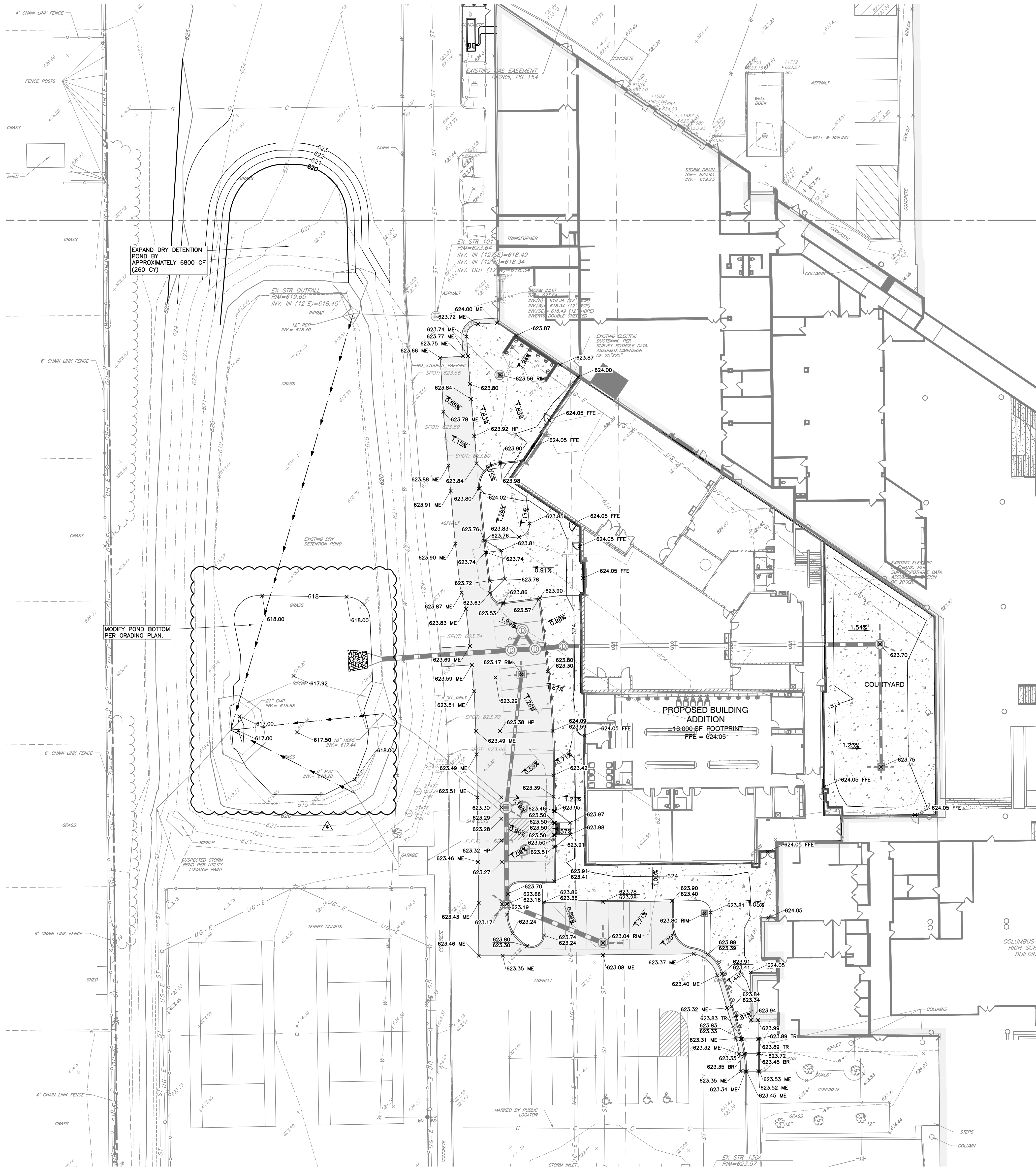
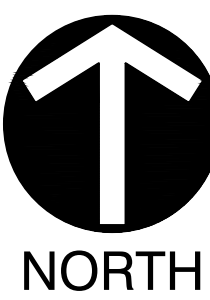
CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
No. PE12100829
10/24/2025

DRAWING NUMBER
C000

PROJECT NUMBER
2025022



REFERENCE
1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.



REFERENCE

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8. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (5" MINIMUM).
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13. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
14. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.
15. TOPSOIL VOLUMES ESTIMATED AS PART OF THIS PROJECT ASSUME THAT A MINIMUM OF 12 INCHES OF SOIL AND TOPSOIL WILL BE STRIPPED FROM THE SITE. THE ACTUAL VOLUME WILL BE BASED ON EQUIPMENT USED AND THE CONTRACTOR'S MEANS AND METHODS. CEC AND THE OWNER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S INTERPRETATION OF TOPSOIL THICKNESS AND RESULTING INCREASED VOLUMES. NO ADDITIONAL COSTS WILL BE PAID TO THE CONTRACTOR FOR AN INCREASE IN THE VOLUME OF TOPSOIL STRIPPED AND STOCKPILED.

GRADING LEGEND:

- 800 PROPOSED INDEX CONTOUR
- 798 PROPOSED INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE SWALE
- PROPOSED GRADE BREAK
- PROPOSED STORM SEWER LINE
- PROPOSED UNDERDRAIN
- PROPOSED SPOT ELEVATION
- PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM
- ABBREVIATIONS:
 - TO = TOP OF CURB
 - BC = BOTTOM OF CURB
 - TM = TOP OF WALL
 - BW = BOTTOM OF WALL
 - TR = TOP OF RAMP
 - BR = BOTTOM OF RAMP
 - ME = MATCH EXISTING
 - FFE = FINISHED FLOOR ELEVATION

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SCALE IN FEET
0 20' 40'



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INDIANAPOLIS, IN 46204
www.cecinet.com

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C4 ADDITION
230 S Marr Rd
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REVISIONS:
11/14/2025 - ADDENDUM #04

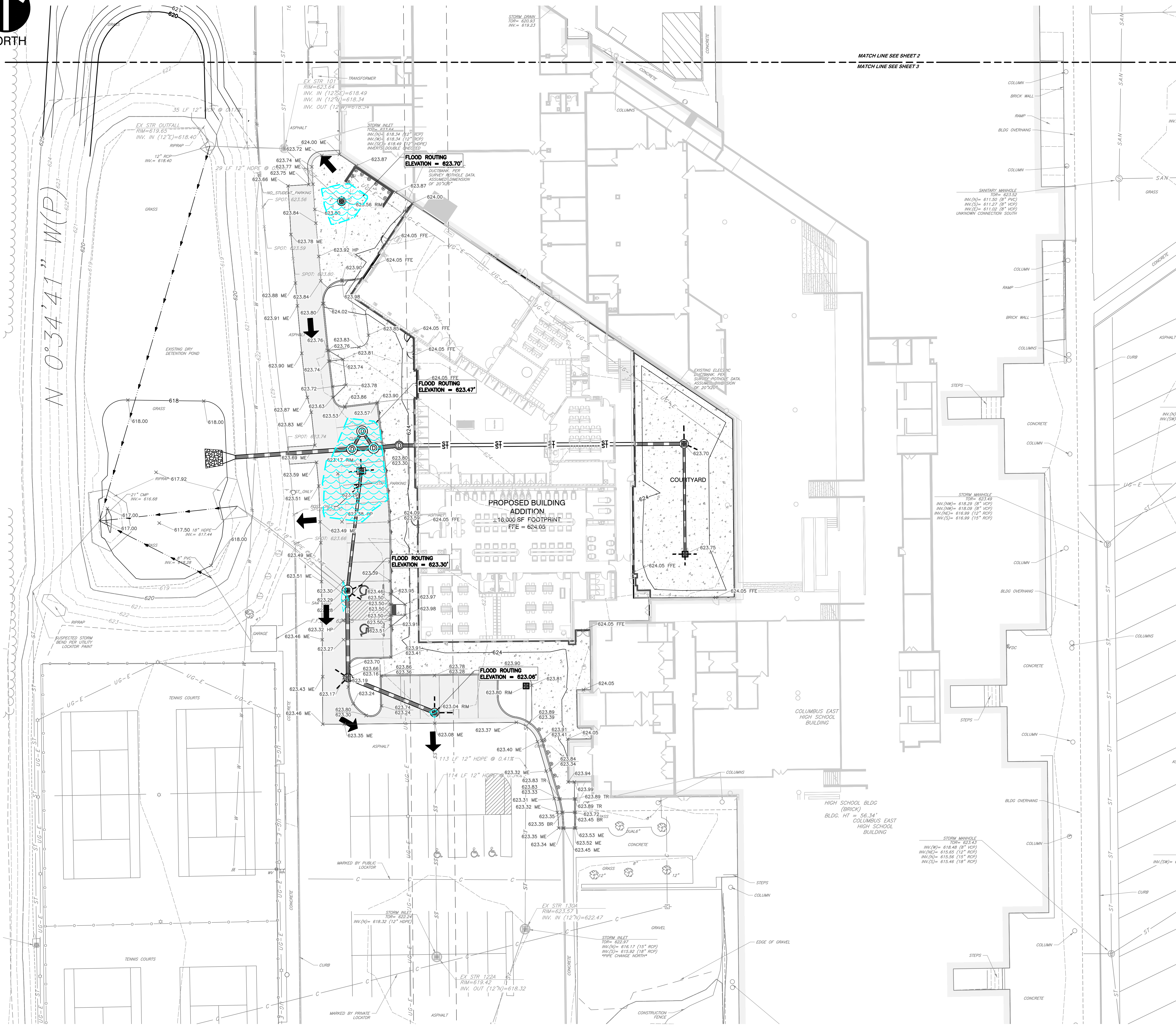
ISSUE DATE 10/24/25 DRAWN BY JMP CHECKED BY JMP

DRAWING TITLE:
GRADING PLAN

CERTIFIED BY:
JONATHAN M. PISKY
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
C300

PROJECT NUMBER
2025022



GRADING NOTES

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- ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.
- TOPSOIL VOLUMES ESTIMATED AS PART OF THIS PROJECT ASSUME THAT A MINIMUM OF 12 INCHES OF SOIL AND TOPSOIL WILL BE STRIPPED FROM THE SITE. THE ACTUAL VOLUME WILL BE BASED ON EQUIPMENT USED AND THE CONTRACTOR'S MEANS AND METHODS. CEC AND THE OWNER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S INTERPRETATION OF TOPSOIL THICKNESS AND RESULTING INCREASED VOLUMES. NO ADDITIONAL COSTS WILL BE PAID TO THE CONTRACTOR FOR AN INCREASE IN THE VOLUME OF TOPSOIL STRIPPED AND STOCKPILED.

BENCHMARKS:

- UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD83 (GEOD 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.
- BM#1: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST QUADRANT OF INTERSECTION OF SALZBURG BLVD. AND INDIANA AVE. ELEV. = 622.94
- BM#2: CUT SQUARE ON TOP OF THE NORTH SIDE OF A CONCRETE STADIUM LIGHT BASE LOCATED AT THE SOUTHEAST CORNER OF THE FOOTBALL FIELD. ELEV. = 622.86
- BM#3: CUT SQUARE ON THE INSIDE CORNER OF THE SIDEWALK LOCATED ON THE NORTH SIDE OF HOLLOWELL ST., 375'± EAST OF INDIANA AVE. ELEV. = 619.07
- BM#4: MAG SPIKE ON THE SOUTH SIDE OF UTILITY POLE #211620 LOCATED ON THE NORTH SIDE OF INDIANA AVE., 220'± EAST OF INDIANA AVE. ELEV. = 630.38
- BM#5: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED ON THE WEST SIDE OF MARR RD., 710'± SOUTH OF INDIANA AVE. ELEV. = 622.06
- BM#6: CUT "X" ON THE NORTH BOLT OF A TRAFFIC POLE LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF MARR RD. AND S.R. 46. ELEV. = 622.37
- BM#7: MAG SPIKE ON THE EAST FACE OF SIREN POLE LOCATED 110'± SOUTHWEST OF THE SOUTHWEST CORNER OF THE TENNIS COURTS. ELEV. = 625.25
- TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 250610087 WERE ISSUED FOR THIS SITE. MASON PRIVATE LOCATING, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS.

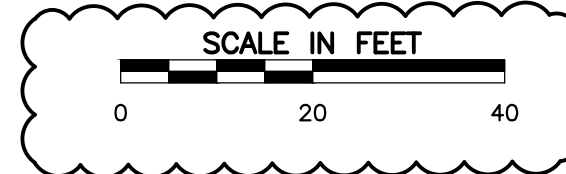
PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONES "X" (UN-SHADED) AND "X" (SHADED) AS SHOWN PARCEL PLOTS ON MAP NUMBER 1800500134F (DATED FEBRUARY 23, 2023) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

GRADING LEGEND:

- | | |
|----------------|---|
| 800 | PROPOSED INDEX CONTOUR |
| 798 | PROPOSED INTERMEDIATE CONTOUR |
| → | PROPOSED DRAINAGE SWALE |
| --- | PROPOSED GRADE BREAK |
| --- | PROPOSED STORM SEWER LINE |
| --- | PROPOSED UNDERDRAIN |
| 766.90 | PROPOSED SPOT ELEVATION |
| 798.50 | PROPOSED CURB SPOT ELEVATION; TOP OF CURB |
| 798.00 | ON TOP, GUTTER ELEVATION ON BOTTOM |
| ABBREVIATIONS: | |
| TC | TOP OF CURB |
| BC | BOTTOM OF CURB |
| TW | TOP OF WALL |
| BW | BOTTOM OF WALL |
| TR | TOP OF RAMP |
| BR | BOTTOM OF RAMP |
| ME | MATCH EXISTING |
| FTE | FINISHED FLOOR ELEVATION |
- 100-YR OVERFLOW PONDING AREAS
- 100-YR OVERFLOW FLOOD ROUTING



CSO

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C-4 ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept. The drawings are not intended to be used for construction or for any other purpose without the written consent of the engineer. The drawings are not intended to be used for any other purpose without the written consent of the engineer.

REVISIONS:
11/14/2025 - ADDENDUM #04

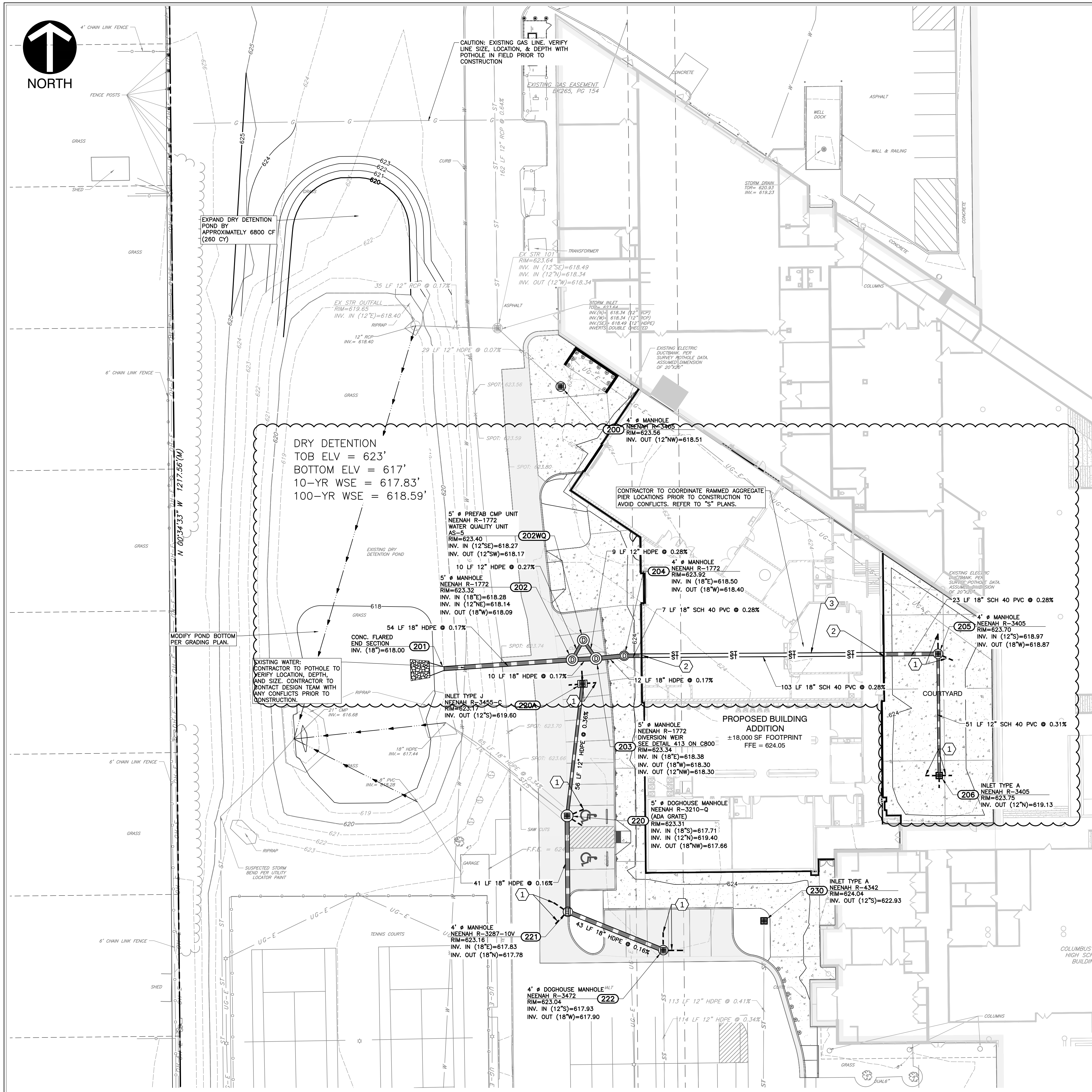
ISSUE DATE 10/24/25
DRAWN BY JUMP
CHECKED BY JUMP

DRAWING TITLE:
EMERGENCY
FLOOD
ROUTING

CERTIFIED BY:
JONATHAN M. PISKY
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
C310

PROJECT NUMBER
2025022



Structure Table				
Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
200	623.56		101A = 618.51	4" # MANHOLE NEENAH R-3405
201	619.72	202 = 618.00		4" # MANHOLE NEENAH R-3405
202	623.32	203 = 618.28 202WQ = 618.14	202 = 618.09	5" # MANHOLE NEENAH R-1772
202WQ	623.40	203WQ = 618.27	202WQ = 618.17	5" # PREFAB CMP UNIT NEENAH R-1772 WATER QUALITY UNIT AS-5
203	623.34	204 = 618.38	203 = 618.30 203WQ = 618.30	5" # MANHOLE NEENAH R-1772 DIVERSION WEIR NEENAH R-3405
204	623.92	205-A = 618.50	204 = 618.40	4" # MANHOLE NEENAH R-1772
205	623.70	206 = 618.97	205-C = 618.87	4" # MANHOLE NEENAH R-3405
206	623.75		206 = 619.13	4" # MANHOLE NEENAH R-3405
220A	623.17		220A = 619.60	Inlet Type A NEENAH R-3405-C
220	623.31	221 = 617.71 220A = 619.40	120 = 617.66	5" # DOGHOUSE MANHOLE NEENAH R-3210-Q
221	623.16	222 = 617.83	221 = 617.78	4" # MANHOLE NEENAH R-3210-Q
222	623.04	122A = 617.93	222 = 617.90	4" # DOGHOUSE MANHOLE NEENAH R-3472
230	624.04		130A = 622.93	Inlet Type A NEENAH R-4342

Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL
202WQ	12	9.6	0.27%	HDPE
202	18	54.4	0.17%	HDPE
203	18	10.1	0.17%	HDPE
203WQ	12	9.5	0.28%	HDPE
204	18	22.7	0.28%	SCH 40 PVC
205-A	18	7.4	0.28%	SCH 40 PVC
206	12	51.5	0.31%	SCH 40 PVC
206	12	56.2	0.36%	HDPE
221	18	40.6	0.16%	HDPE
222	18	43.5	0.16%	HDPE

- GENERAL DRAINAGE NOTES:**
- DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
 - ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
 - ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
 - STORM PIPE MATERIAL SHALL BE RCP OR HDPE DUAL WALL OR PVC UNLESS NOTED OTHERWISE ON PLANS.
 - CONTRACTOR SHALL REMOVE SWPPP CSOP GUIDELINES PRIOR TO TURNOVER TO THE OWNER. CONTRACTOR SHALL HYDROVAC STORM STRUCTURES TO CLEAN & REMOVE DEBRIS AFTER CONSTRUCTION COMPLETION.

- DRAINAGE LEGEND:**
- 855 PROPOSED INDEX CONTOUR
 - 854 PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED DRAINAGE SWALE
 - PROPOSED GRADE BREAK
 - PROPOSED STORM SEWER LINE
 - PROPOSED UNDERDRAIN
 - PROPOSED YARD DRAIN
 - PROPOSED CURB INLET
 - PROPOSED STORM MANHOLE

- KEY NOTES:**
- TYPICAL 4" PARKING LOT PAVEMENT UNDERDRAIN. EXTEND 20 LF BEYOND STRUCTURE. CAP ENDS. SEE DETAIL 406 ON SHEET C800.
 - PIPE TO BE SLEEVED THROUGH STEP DOWN FOUNDATION. REFER TO "S" SERIES PLANS.
 - REFER TO PLUMBING PLANS FOR PIPE DETAILS. CONTRACTOR TO COORDINATE PIPE LAYOUT WITH "S" & "T" PLANS.

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- TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY NOTE:

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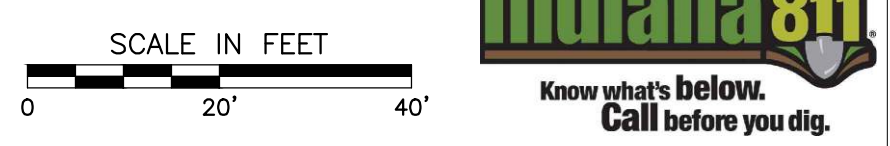
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REFERENCE

- TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.



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INDIANAPOLIS, IN 46204
www.cecinc.com

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C-4 ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:

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REVISIONS:

11/14/2025 - ADDENDUM #04

ISSUE DATE 10/24/25 DRAWN BY JMP CHECKED BY JMP

DRAWING TITLE:

DRAINAGE PLAN

CERTIFIED BY:

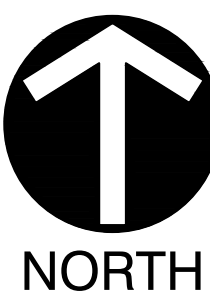
JONATHAN M. PASKY
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER

C400

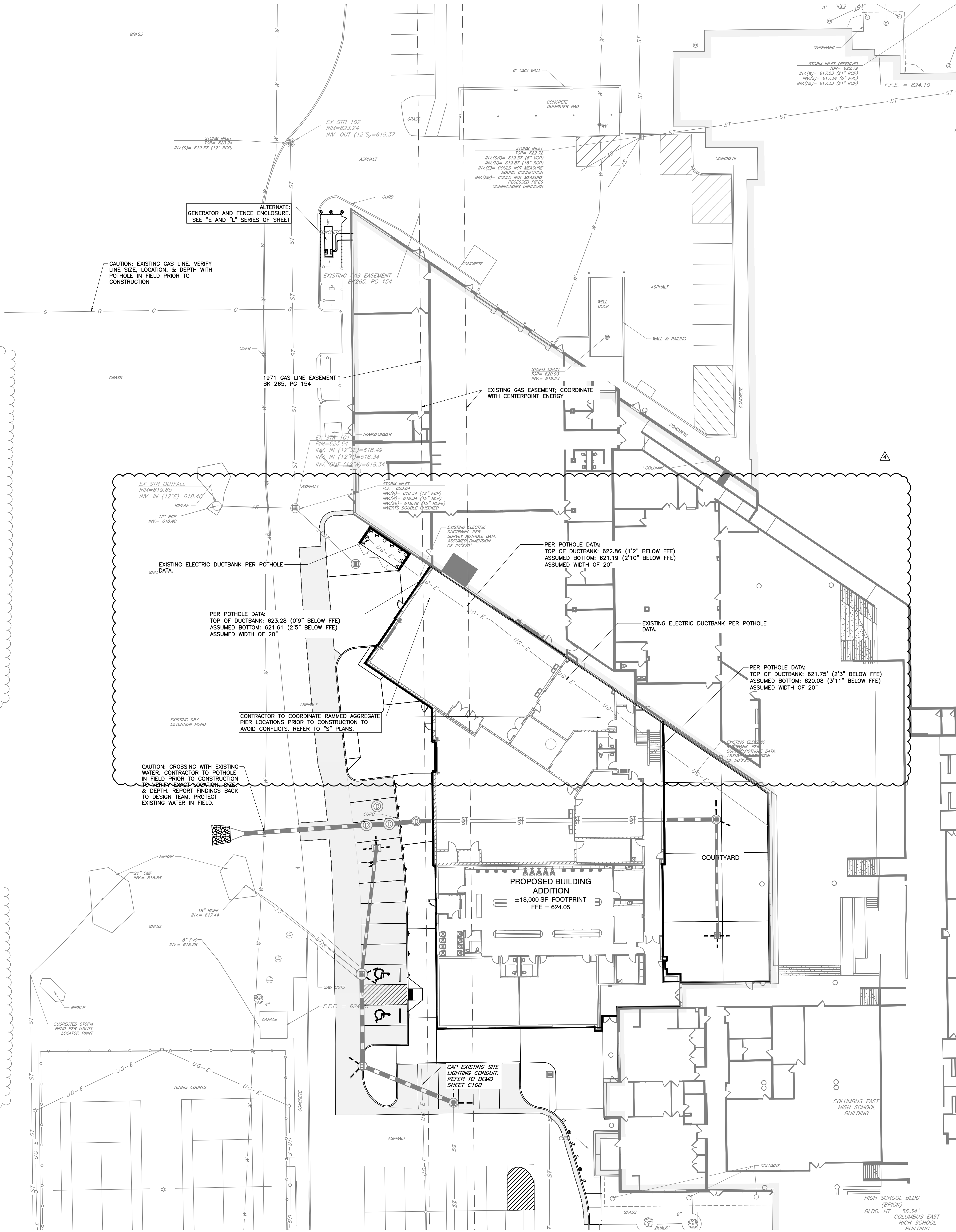
PROJECT NUMBER

2025022



REFERENCE

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC., DATED JULY 17, 2025.



BENCHMARKS:

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- TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY LEGEND:

- | | |
|-------|--|
| — | PROPOSED STORM SEWER LINE |
| — SAN | PROPOSED SANITARY LINE |
| — E | PROPOSED ELECTRIC LINE |
| — T | PROPOSED TELEPHONE LINE |
| — FO | PROPOSED FIBER OPTIC LINE |
| — G | PROPOSED GAS LINE |
| — W | PROPOSED WATER LINE |
| — | PROPOSED OVERHEAD UTILITY LINE |
| --- | PROPOSED CONDUIT |
| ☼ | PROPOSED LIGHT POLE |
| ⊕ | PROPOSED WALL MOUNTED FDC, HYDRANT, WALL PIV, WATER VALVE, FREE STANDING FDC |
| ⊙ | PROPOSED SANITARY MANHOLE, CLEAN OUT |
| ⊠ | PROPOSED ELECTRIC TRANSFORMER |

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SCALE IN FEET

0 20' 40'



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433 N. CAPITOL AVENUE, SUITE 200
INDIANAPOLIS, IN 46204
www.cecin.com

PROJECT: BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C* ADDITION

230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for the performance and completion of the project. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

11/14/2025 - ADDENDUM #4

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25		JMP

DRAWING TITLE:

UTILITY PLAN

CERTIFIED BY:

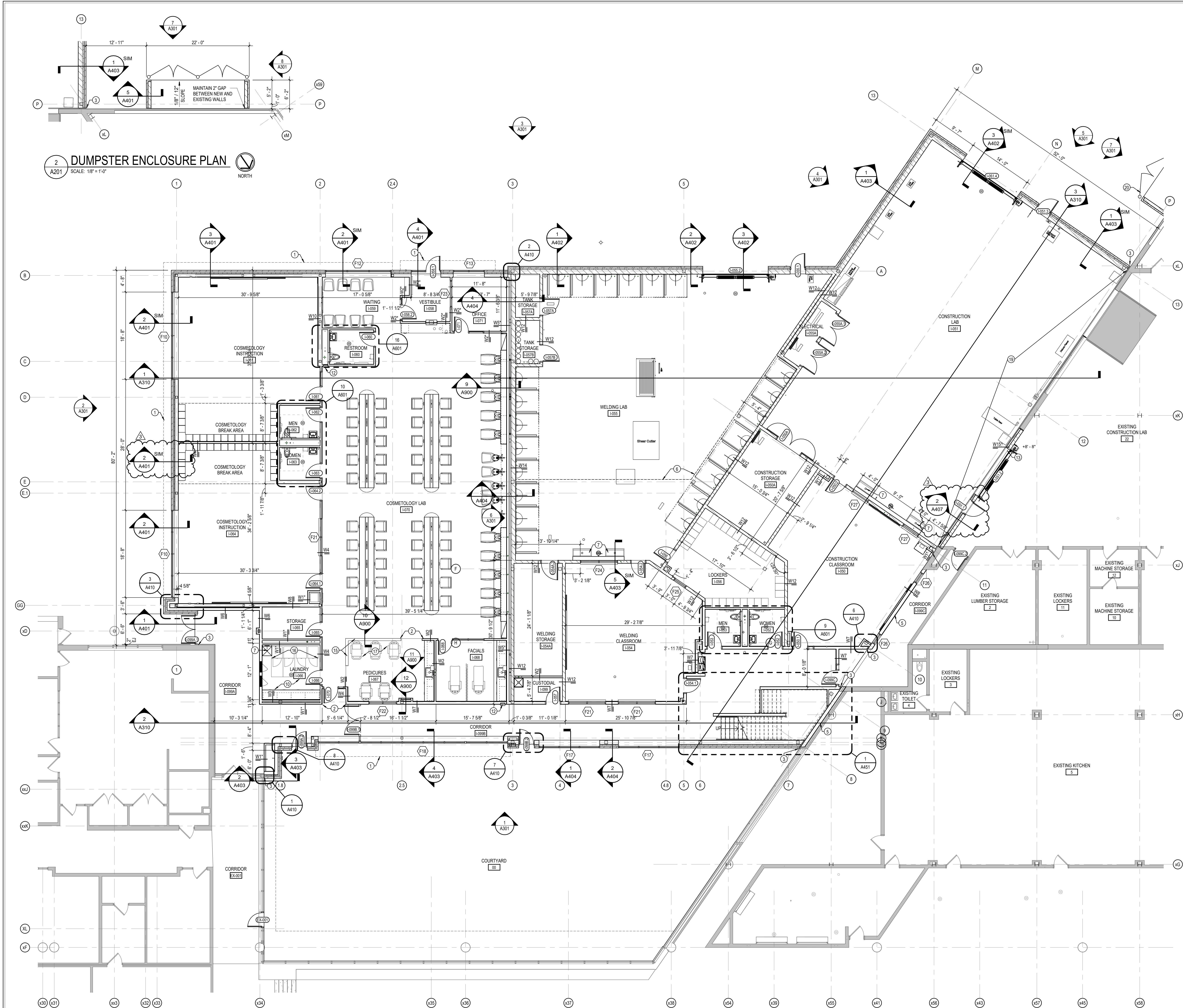
JON THAN M. PISKY
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STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER

C500

PROJECT NUMBER

2025022

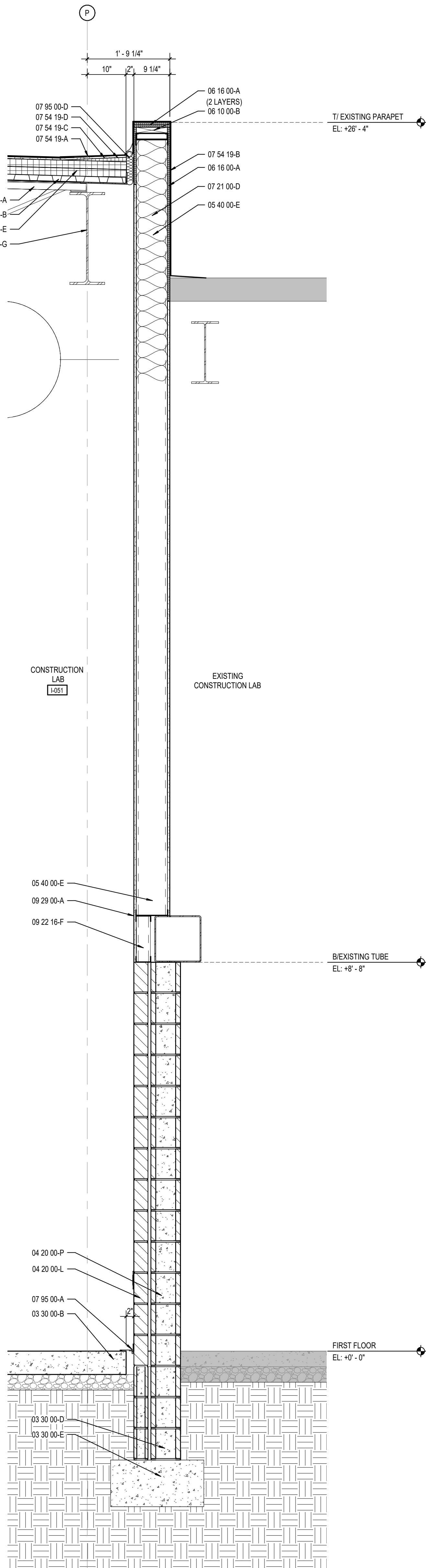


GENERAL NOTES

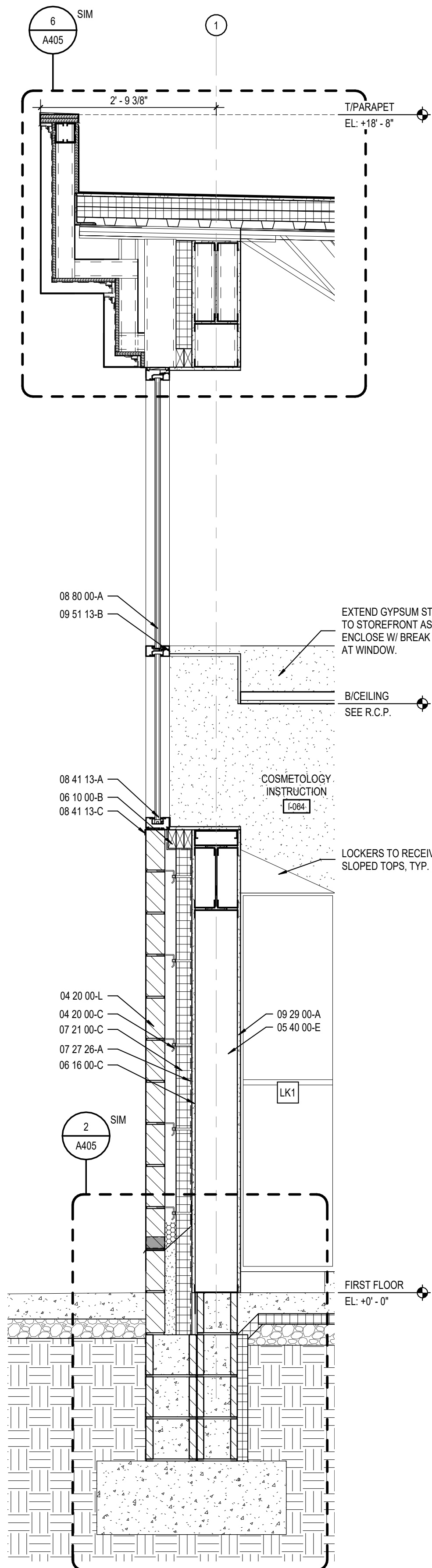
- COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES.
- ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND STANDARDS INCLUDING, BUT NOT LIMITED TO THOSE LISTED ON THE COVER SHEET. ALL APPLICABLE RULES & REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITIONS.
- FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE. FINISH FACE OF WALL, FACE OF MASONRY, OR FACE OF EXISTING.
- ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS.
- REFER TO WALL TYPE SCHEDULE, SHEET A201, TO DETERMINE WHICH WALLS EXTEND TO DECK. SEE STRUCTURAL FOR TOP SUPPORT DETAIL. WHERE METAL STUDS EXTEND TO DECK, PROVIDE SLIP CONNECTIONS FOR ROOF FLOOR DEFLECTION.
- ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT HEIGHT (L240).
- WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION SOUND ATTENUATION.
- REFER TO PLUMBING PLANS FOR LOCATION OF FLOOR DRAINS.
- WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASIS, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
- ALL CONCRETE MASONRY UNITS (CMU) SHALL BE LAID RUNNING BOND (N.O. 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.
- ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (J.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.
- THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'0" MINIMUM (R-15 MIN.) HORIZONTAL.
- PROVIDE MISCELLANEOUS SUPPORT FOR ALL CEILING SUSPENDED ITEMS.
- DOOR AND FRAME NUMBERS CORRESPOND TO ROOM NUMBERS. WHERE MORE THAN ONE DOOR OCCURS IN A ROOM, A SUFFIX HAS BEEN ADDED (E.G. A100-1). SEE A500 SERIES DRAWINGS FOR DOOR SCHEDULE AND DETAILS.
- ALL DOOR FRAMES SHALL BE LOCATED 4" OFF FINISH WALLS OR 4" OFF MASONRY WALLS UNLESS NOTED OTHERWISE.
- ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES AND WINDOW FRAMES IS TO BE 1/4" CLEAR TEMPERED GLASS UNLESS NOTED OTHERWISE.
- AT BUILDING EXPANSION JOINTS, ALL PARTITIONS, CEILINGS, FLOORS AND ALL WALL, FLOOR OR CEILING MOUNTED ITEMS SHALL BE ANCHORED TO THE BUILDING STRUCTURE ON ONLY ONE SIDE OF THE EXPANSION JOINTS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OR INSTALLATION OF ALL ITEMS NOTED TO ASSURE THAT NO SUCH ITEMS BRIDGE ACROSS THE EXPANSION JOINT.
- ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED AND CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.
- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAILS.
- REFER TO MECHANICAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES AND QUANTITIES.
- SEE A800 SERIES DRAWINGS FOR FINISH SCHEDULE AND PLANS.
- SEE A900 SERIES DRAWINGS FOR EQUIPMENT SCHEDULE AND PLANS. PROVIDE BLOCKING IN STUD WALLS AND/OR GROUTED MASONRY CORES AS REQUIRED TO SUPPORT EQUIPMENT.
- PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS AS REQUIRED FOR ALL SURFACE MOUNTED ITEMS.
- WHERE DISMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR UNLESS NOTED OTHERWISE.
- APPLY SEALANT AT ALL JUNCTURES BETWEEN DIFFERENT MATERIALS (E.G. MASONRY TO GYPSUM WALL BOARD) UTILIZING THE APPROPRIATE TYPE PER SPECIFICATIONS. COLOR TO BE SELECTED BY ARCHITECT.
- APPLY SEALANT AT ALL COUNTERTOPS AND BLACKSPASHES AT JUNCTURE WITH WALL.
- ALL DOORS MUST BE INSTALLED WITH AT LEAST THE MINIMUM MANEUVERING CLEARANCE AT THE DOOR APPROACH PER THE MOST CURRENT AMERICANS WITH DISABILITIES ACT.
- BASE FLOOR ELEVATION INDICATED FOR THIS PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

PLAN NOTES

- LINE OF CANOPY ABOVE
- ALIGN FINISH FACE
- 2" EXPANSION JOINT COVER
- MOP SINK: WALL TO RECEIVE 48" HIGH FRP PANEL, FINISH 2'-0" MIN. FROM EDGE OF SINK. PROVIDE TRIM AT CUT EDGES AND PANEL TERMINATIONS.
- INFILL EXISTING OPENING IN WALL WITH NEW STUD CONSTRUCTION. SEE WALL TYPES AND SECTIONS FOR DETAILS.
- LINE OF WALL ABOVE
- PLUMBING FIXTURE. SEE MEP DRAWINGS
- STEEL HANDRAILS
- NOT USED
- 8" ISOLATED SLAB IN THIS ROOM
- CONCRETE RAMP 1:12 SLOPE
- NEW FIRE EXTINGUISHER CABINET/BRACKET TO BE INSTALLED.
- INFILL OPENING IN WALL TO MATCH ADJACENT MATERIALS USED. SEE WALL TYPES AND SECTIONS FOR DETAILS.
- IN WALL RECESSED WATER BOTTLE FILLER
- SOLID SURFACE WALL CAP. SEE SECTION FOR DETAIL.
- EXISTING WASHERS AND DRYERS TO BE RELOCATED BY OWNER
- EXISTING PEDICURE CHAIRS TO BE RELOCATED BY OWNER
- PREMANUFACTURED ALUMINUM SHIPS LADDER
- WHERE EXISTING EXTERIOR MASONRY WALL BECOMES AN INTERIOR WALL, PROVIDE MASONRY CLEANING. REFER TO SPECIFICATION 04 01 10
- DUMPSTER ENCLOSURE. SEE A201 FOR PLAN



2 WALL SECTION
SCALE: 3/4" = 1'-0"



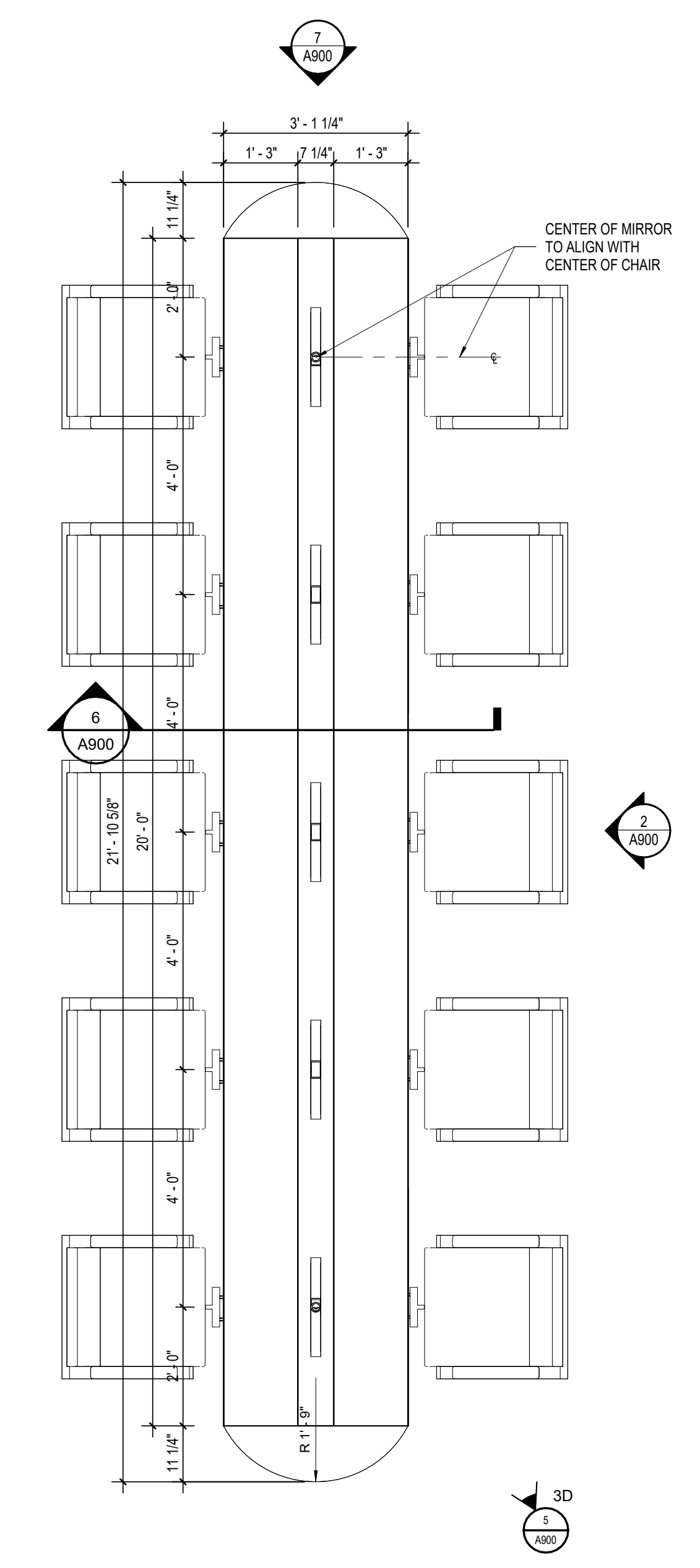
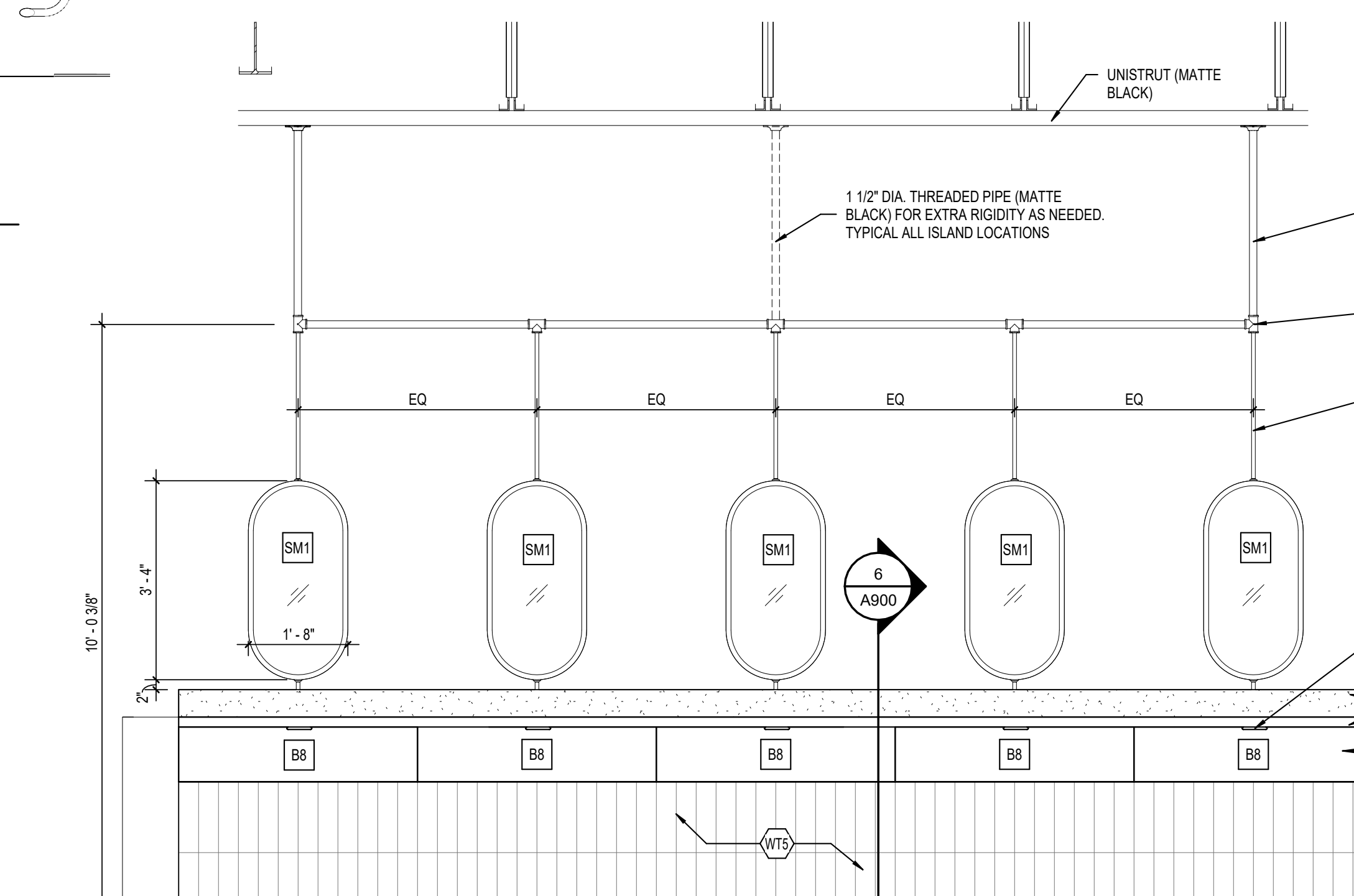
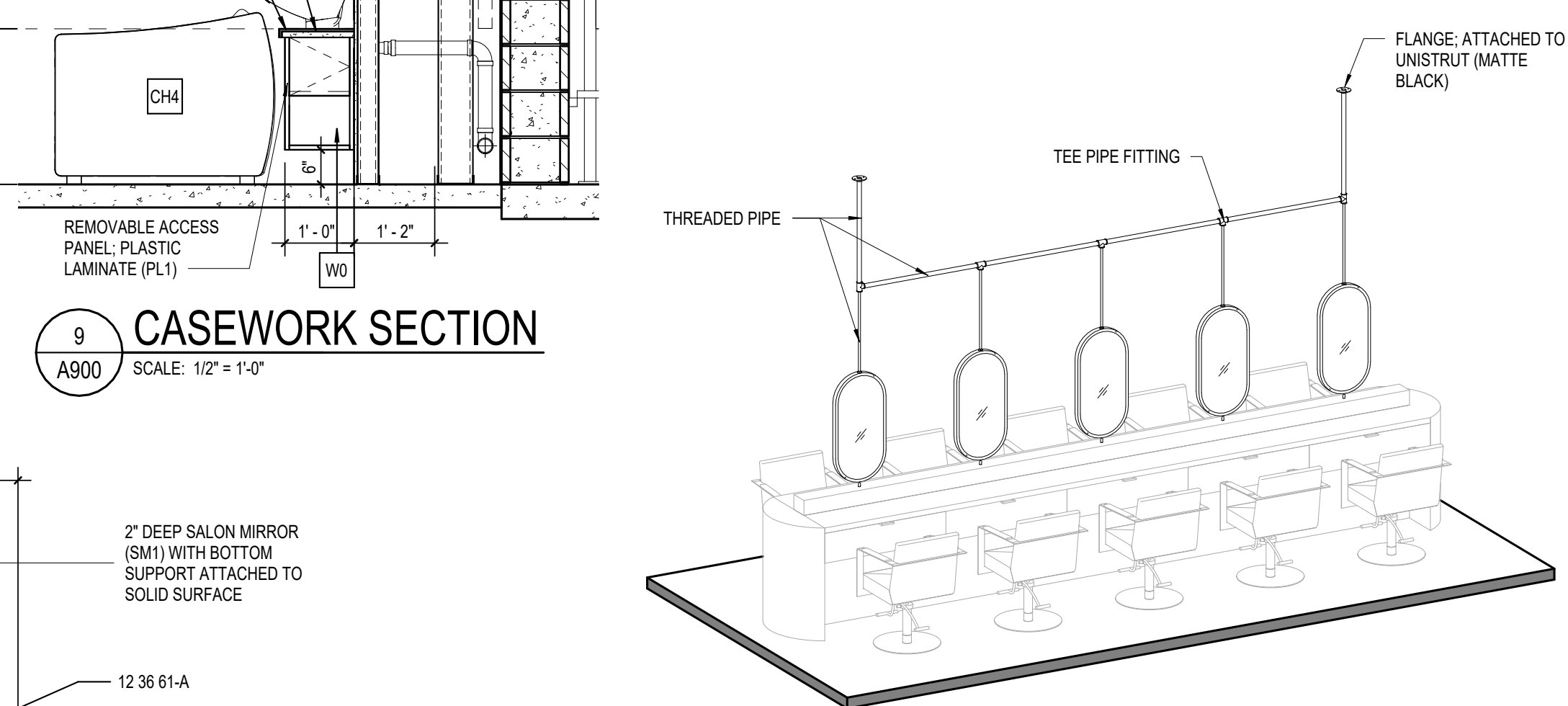
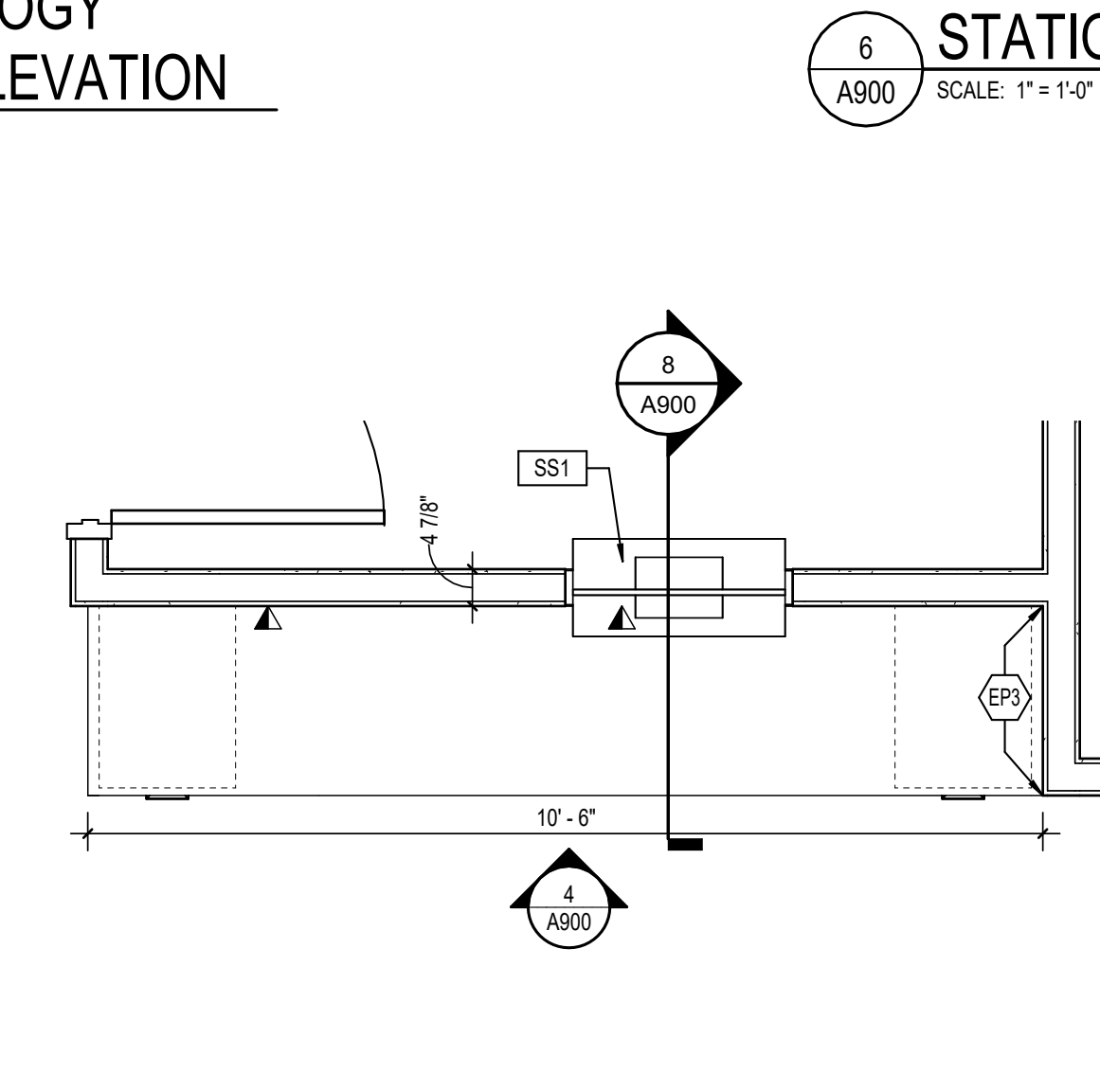
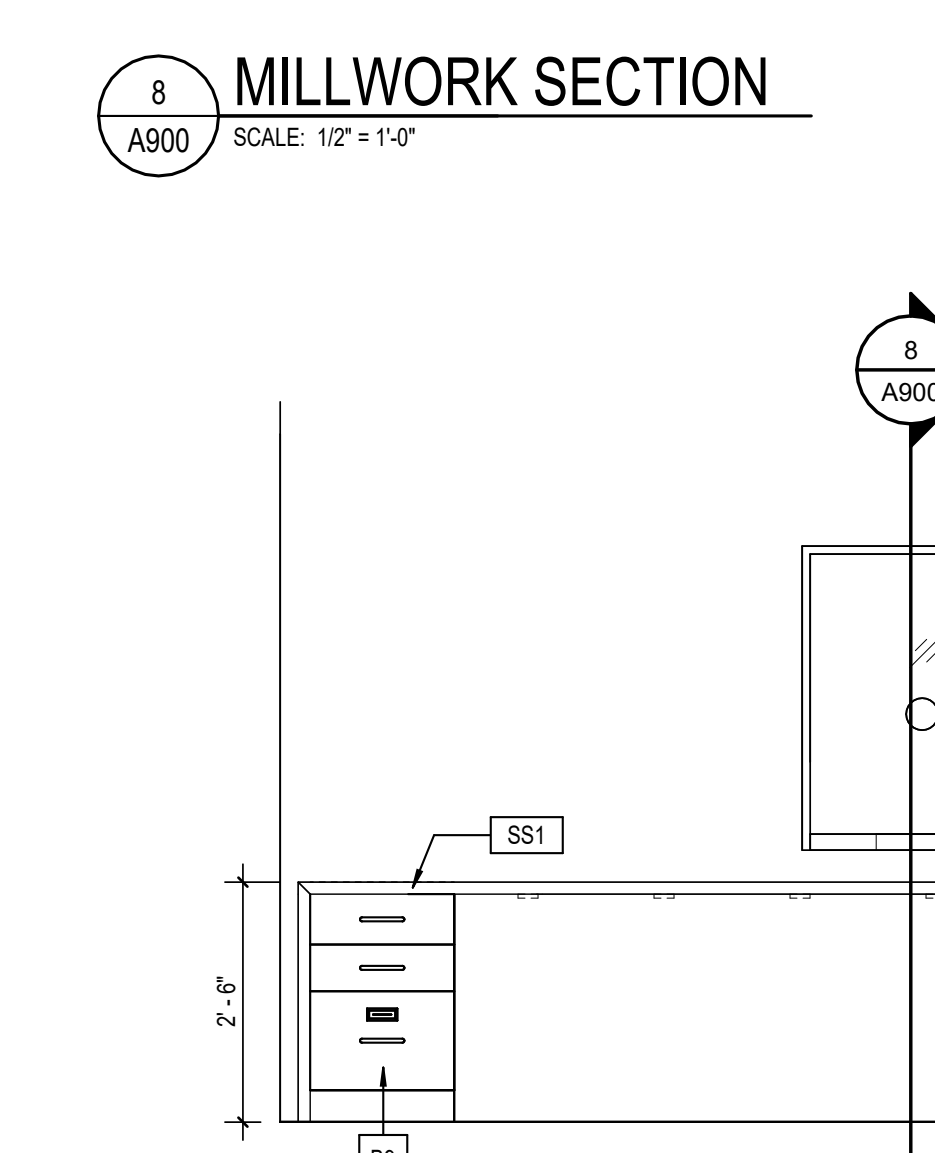
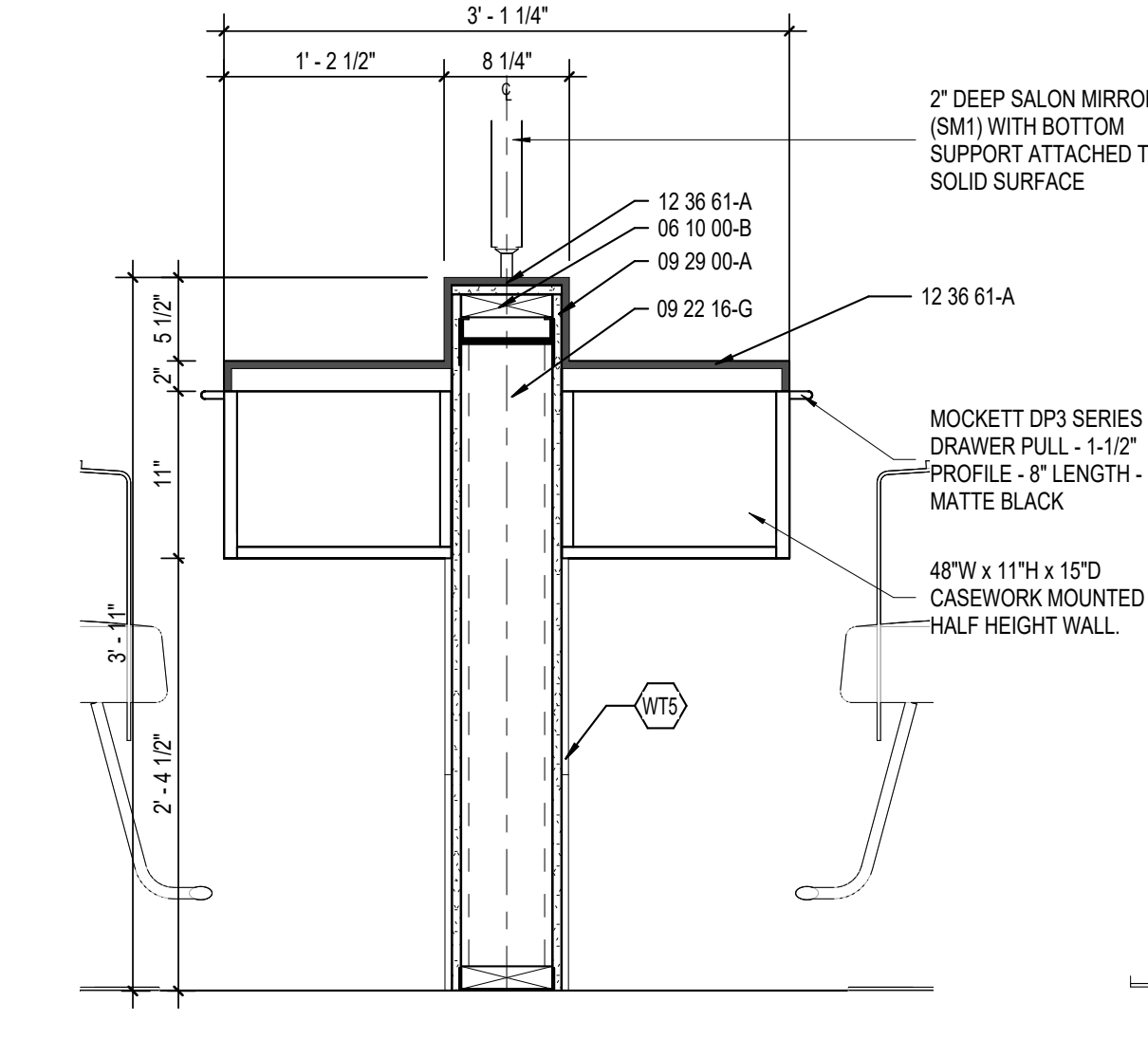
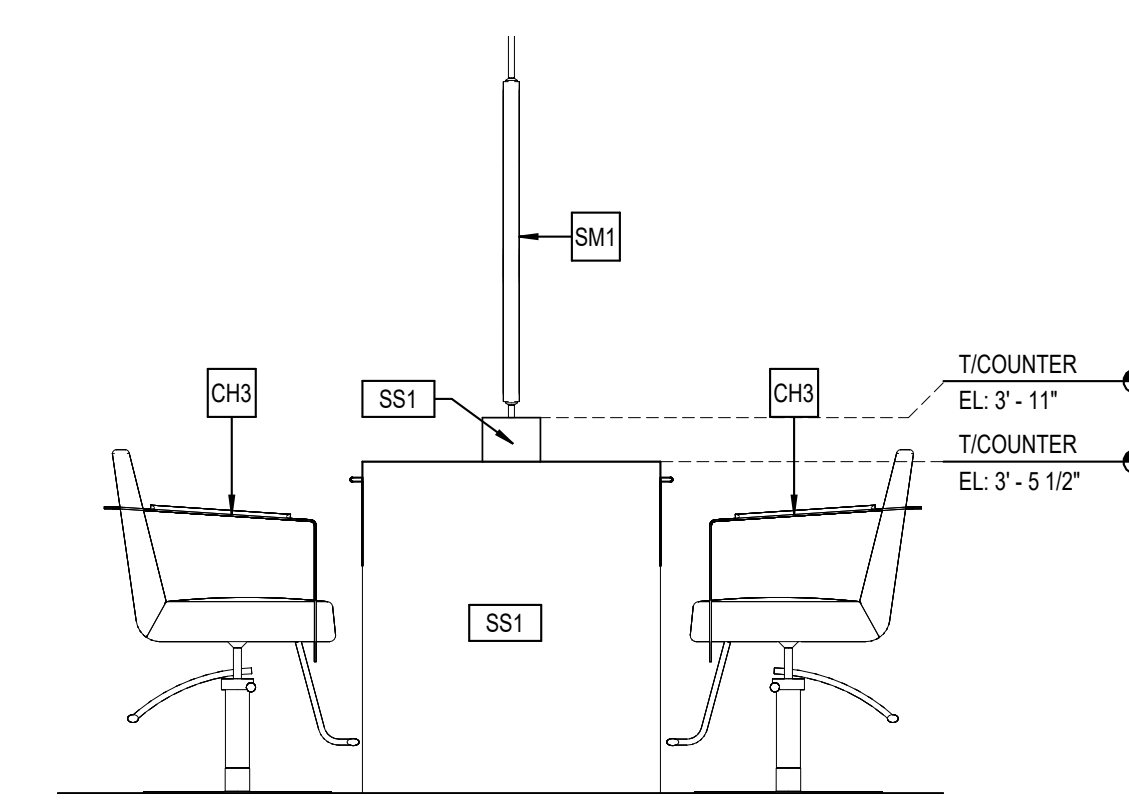
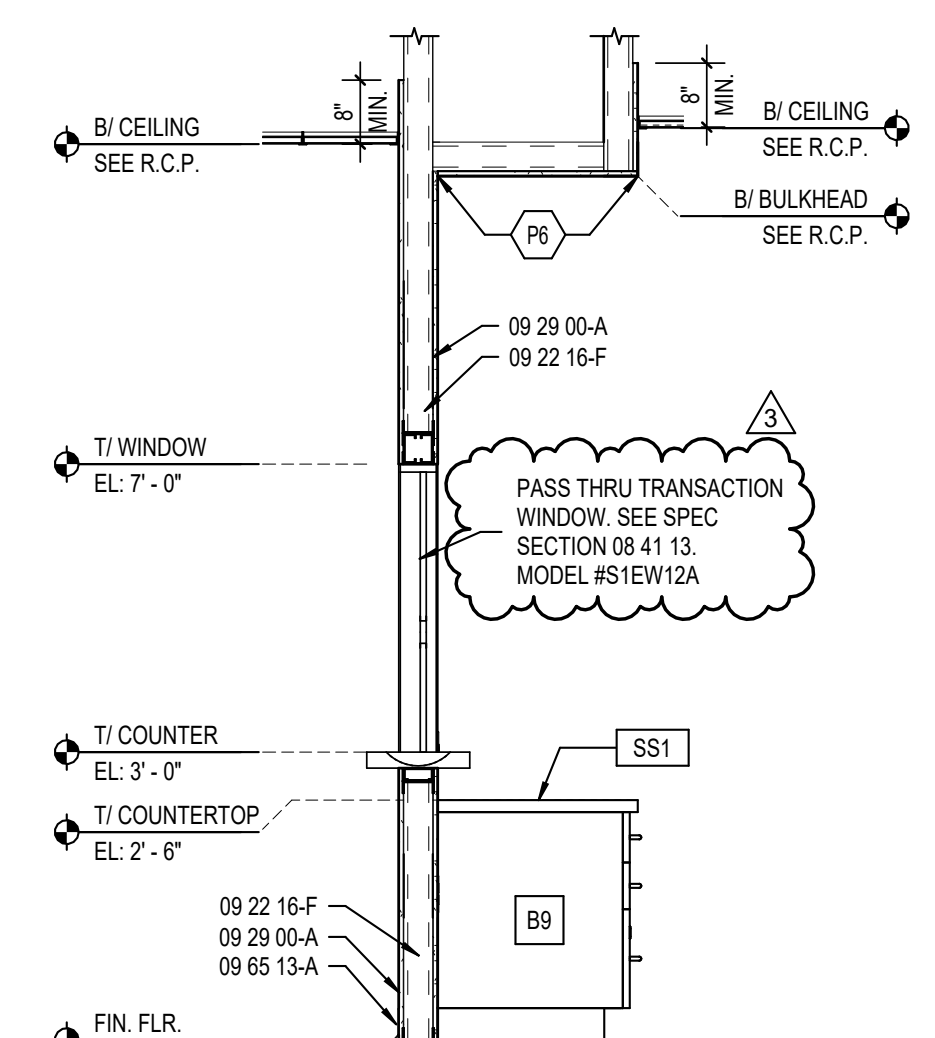
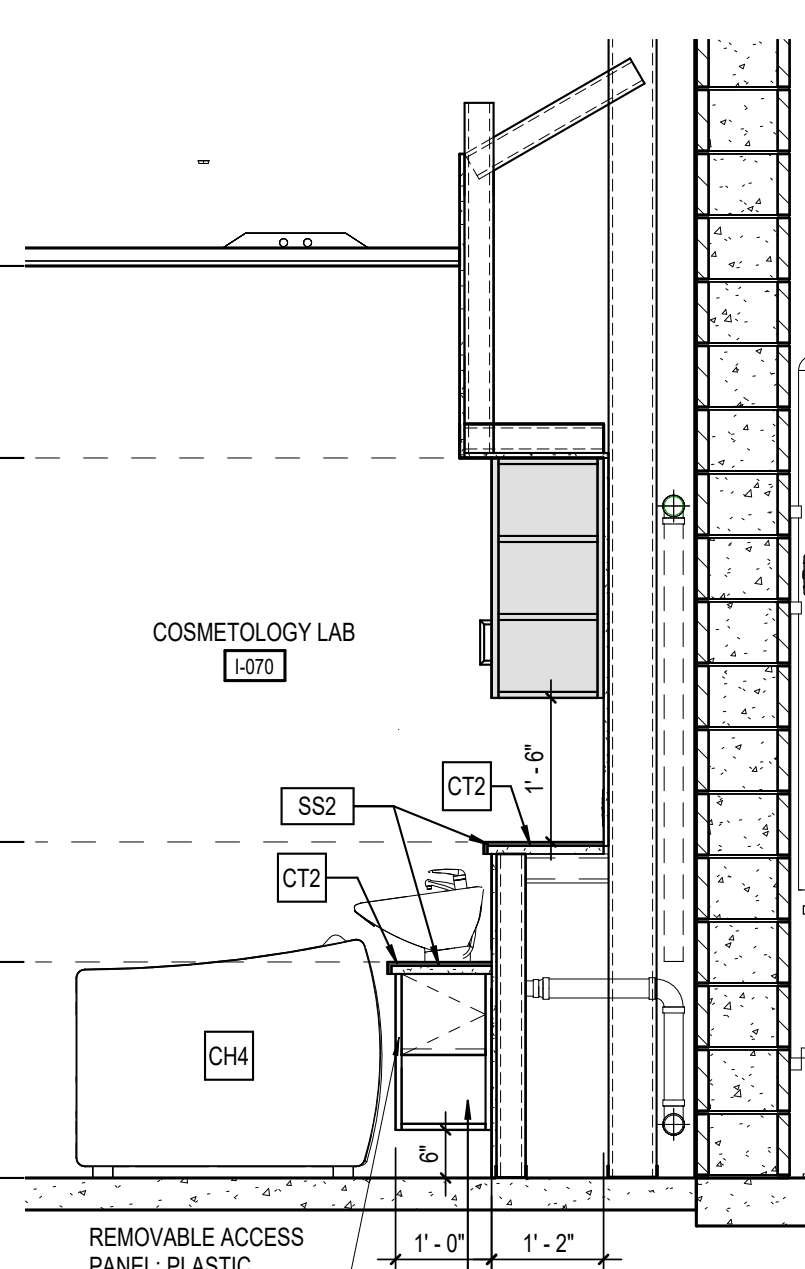
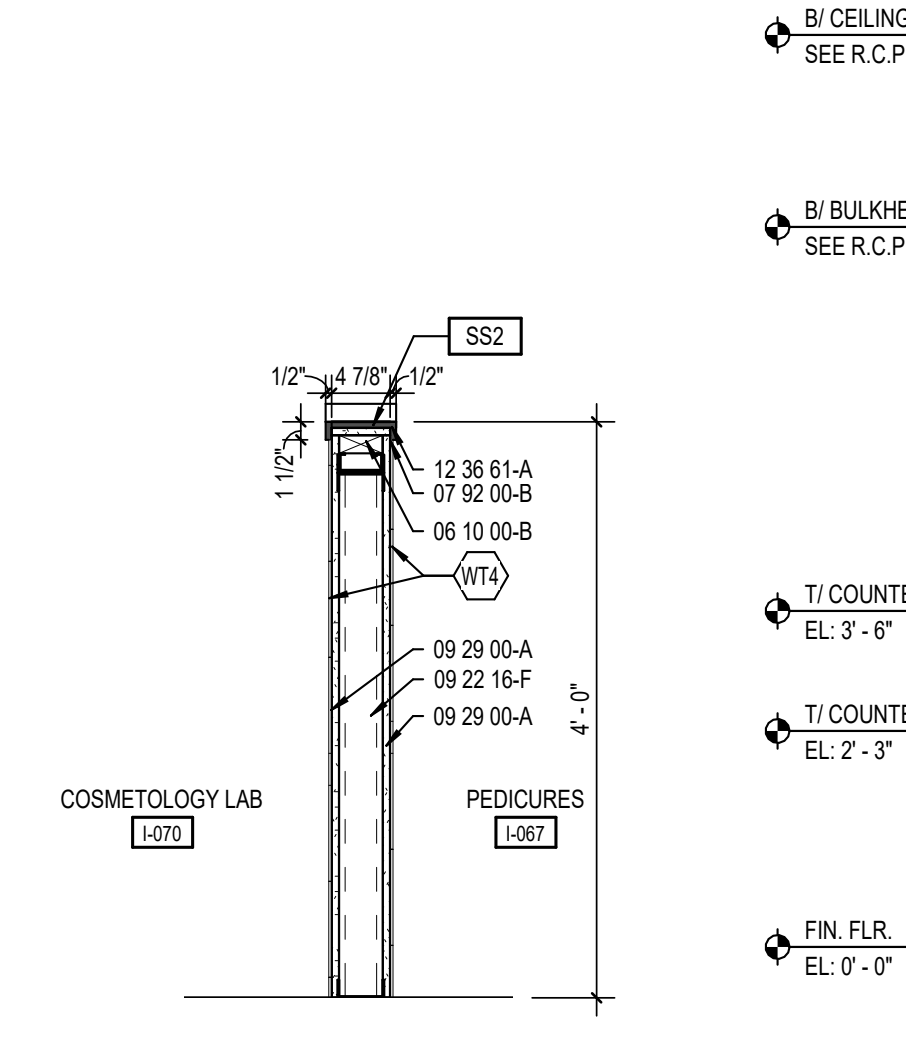
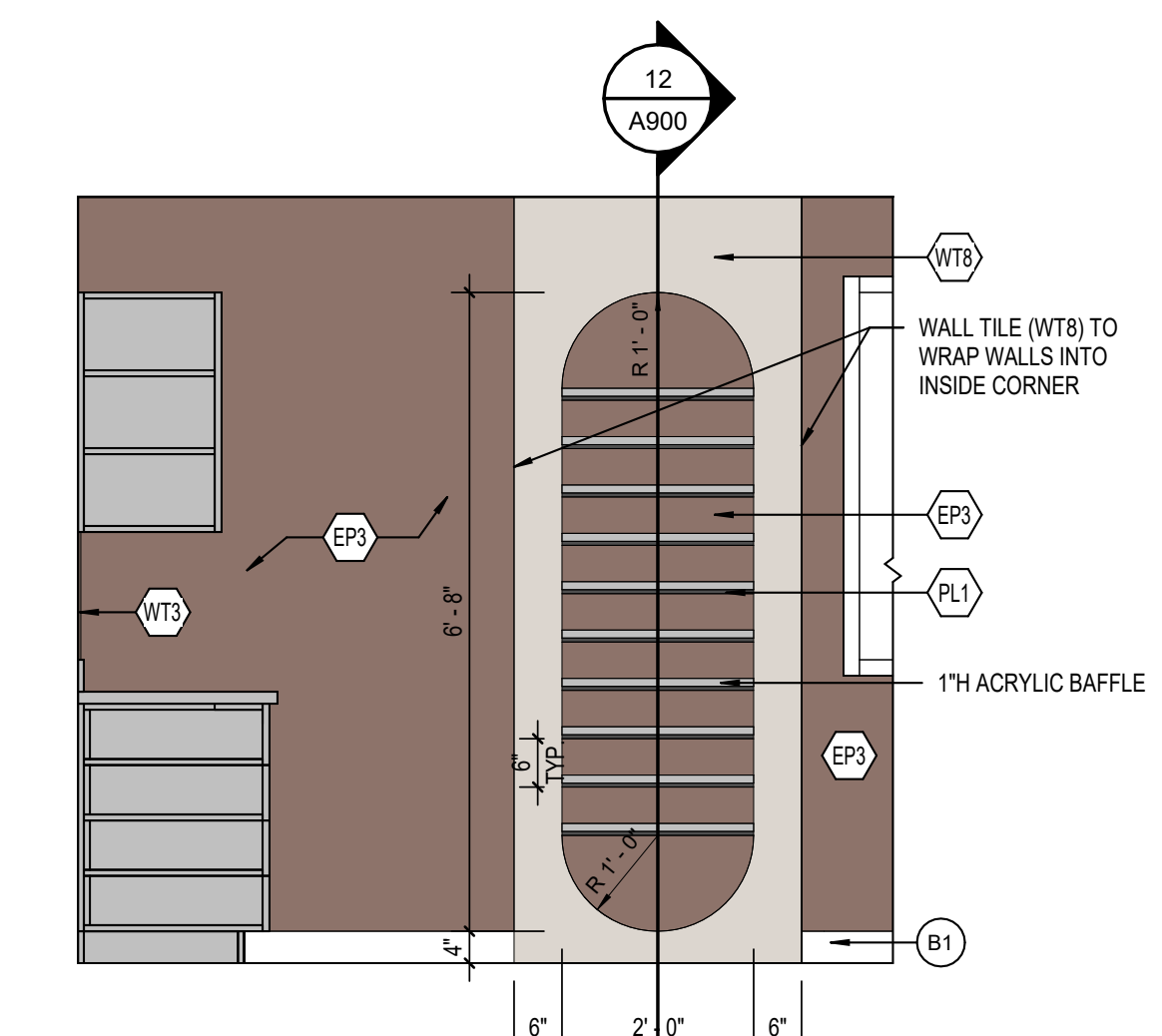
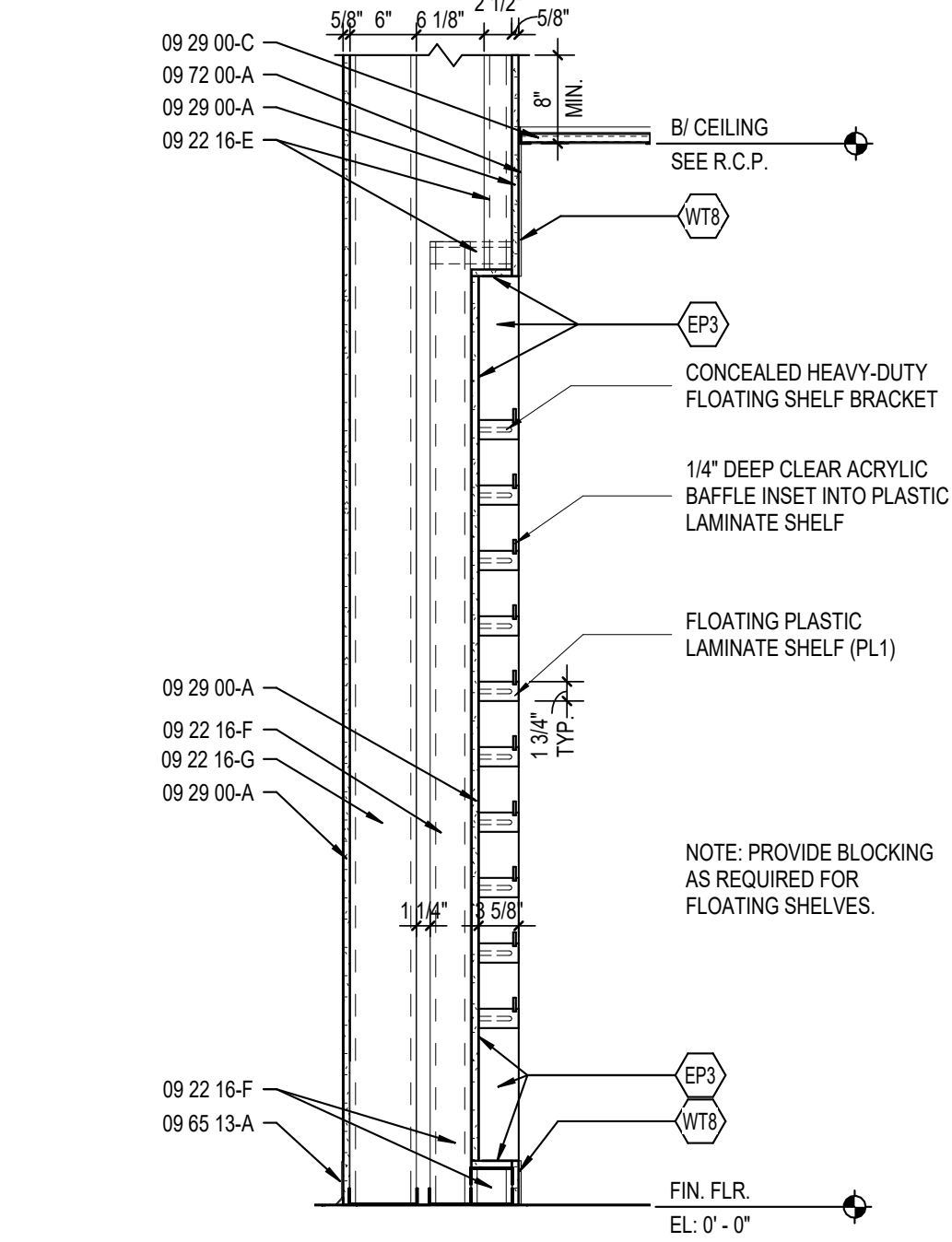
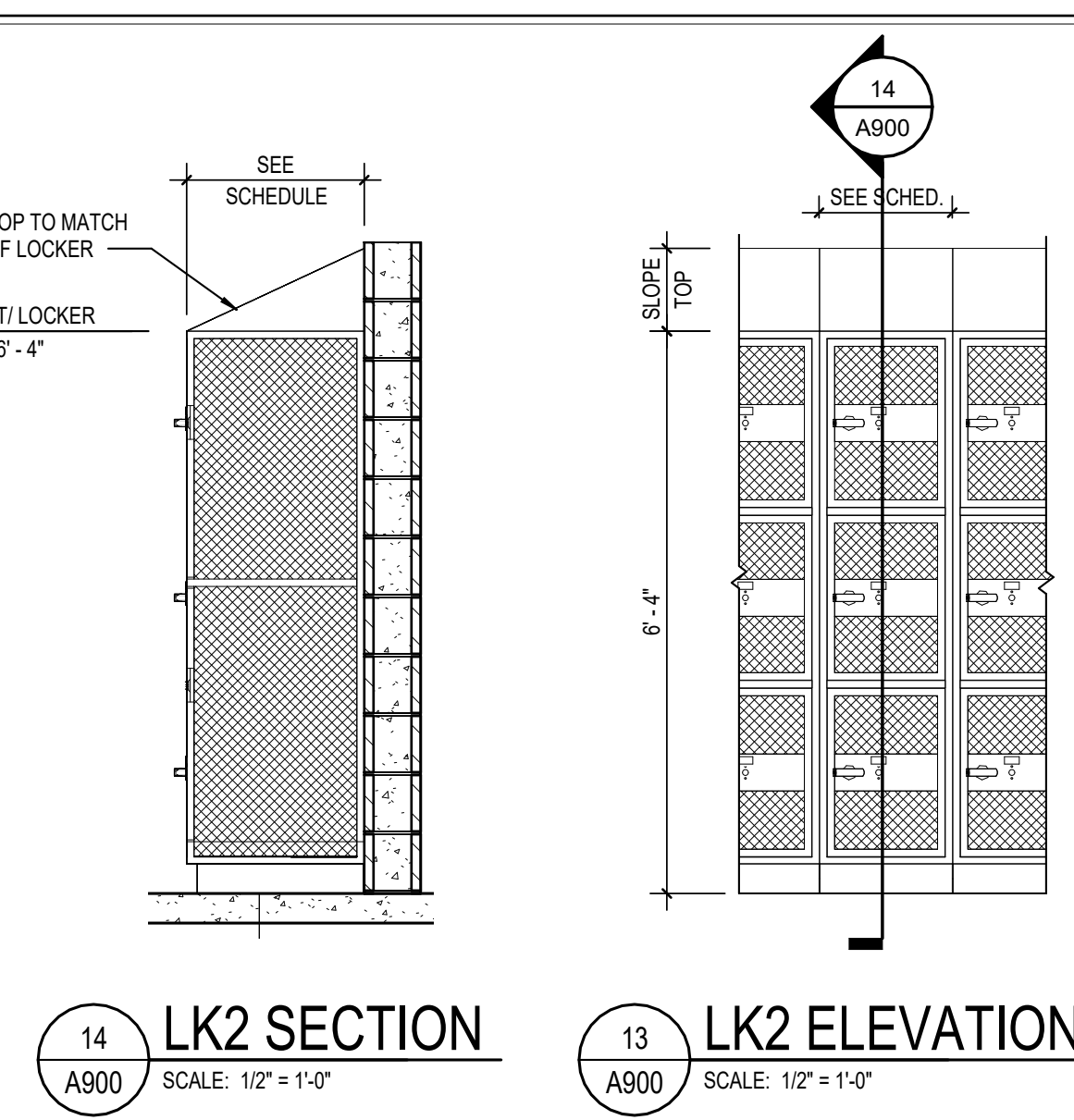
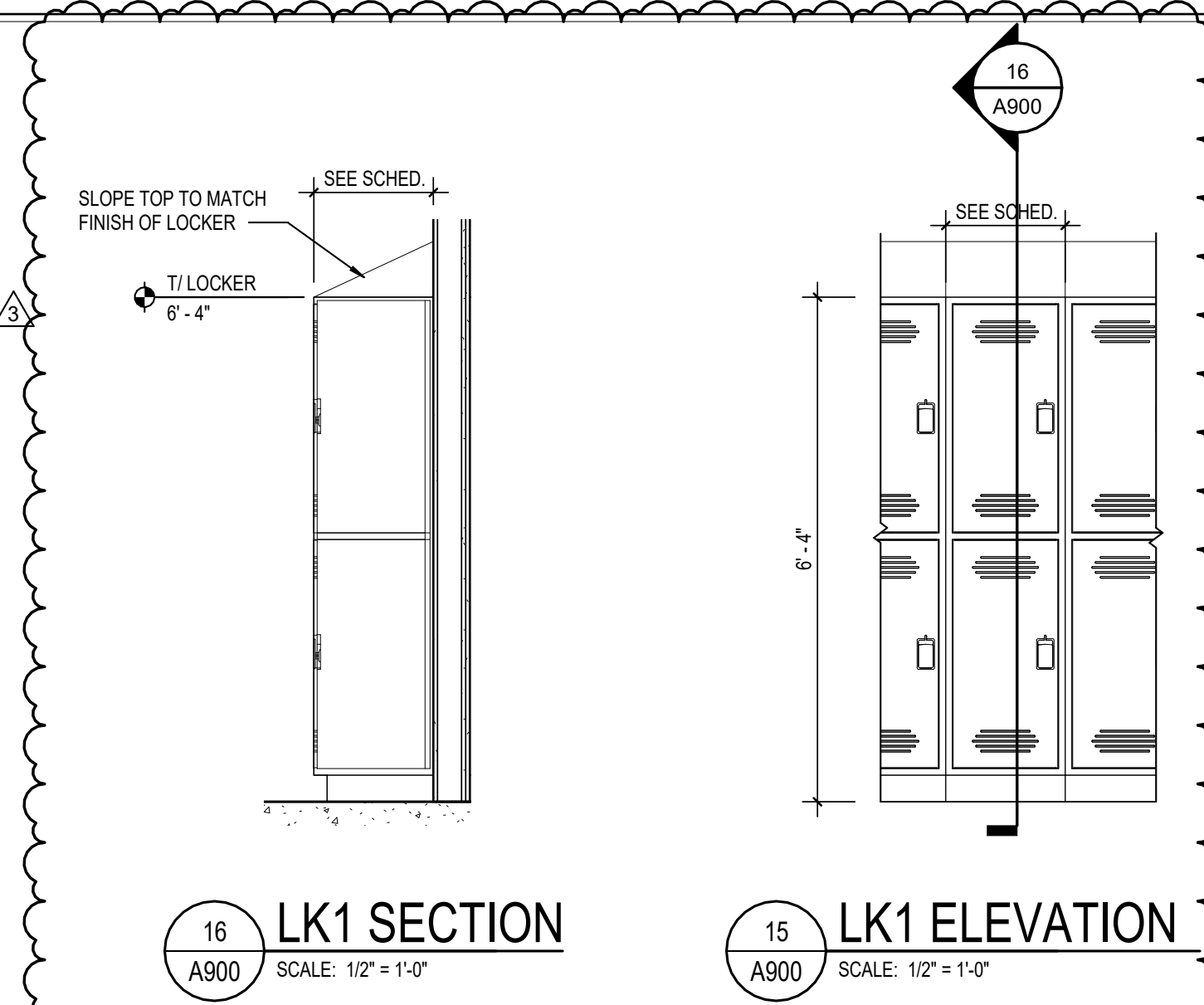
1 WALL SECTION
SCALE: 3/4" = 1'-0"

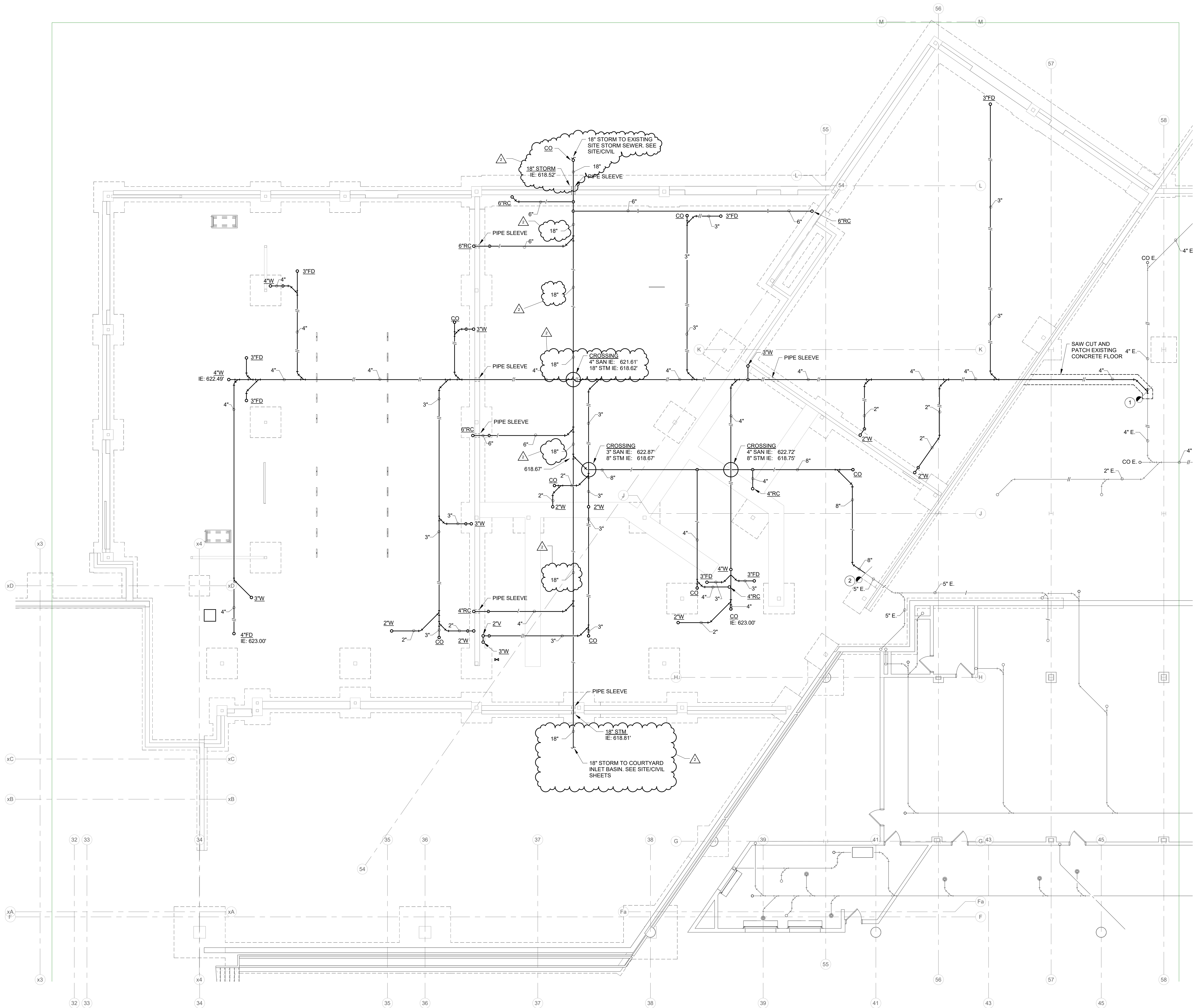
KEYNOTE LEGEND

02 00 00-A	EXISTING TO REMAIN
03 30 00-B	CONCRETE SLAB OVER VAPOR BARRIER ON DRAINAGE FILL. SEE STRUCTURAL
03 30 00-C	CONCRETE SLAB ON METAL DECK- SEE STRUCTURAL
03 30 00-D	CONCRETE FOUNDATION- SEE STRUCTURAL
03 30 00-E	CONCRETE FOOTING- SEE STRUCTURAL
03 30 00-G	1/2" EXPANSION MATERIAL
03 30 00-H	CONCRETE RAMP ON METAL DECK
03 30 00-J	CONCRETE RAMP ON GEOFOAM
04 20 00-A	GROUT CORE SOLID
04 20 00-B	JOINT REINFORCEMENT AT 16" O.C. VERTICALLY
04 20 00-C	MASONRY TILE
04 20 00-D	ADJUSTIBLE MASONRY VENEER ANCHOR AT 16" O.C. VERTICALLY
04 20 00-G	THROUGH WALL FLASHING W/ STAINLESS STEEL DRIP EDGE
04 20 00-H	WEEP HOLES AT 16" O.C.
04 20 00-K	CAVITY DRAINAGE MATERIAL
04 20 00-L	8" TILE BRICK
04 20 00-M	4" CONCRETE MASONRY UNIT
04 20 00-P	8" CONCRETE MASONRY UNIT
04 20 00-Q	10" CONCRETE MASONRY UNIT
04 20 00-R	12" CONCRETE MASONRY UNIT
04 20 00-S	BULLNOSE UNIT
04 20 00-T	BOND BEAM MASONRY UNIT
04 20 00-V	BOND BEAM MASONRY LINTEL
04 42 00-C	DIMENSIONED LIMESTONE COPING, 1/2" PROJECTION
05 12 00-A	STRUCTURAL STEEL FRAMING MEMBER- SEE STRUCTURAL
05 12 00-B	STEEL ANGLE- SEE STRUCTURAL
05 12 00-E	STEEL BENT PLATE- SEE STRUCTURAL
05 12 00-F	STEEL TUBE- SEE STRUCTURAL
05 12 00-G	STEEL BEAM- SEE STRUCTURAL
05 12 00-H	STEEL COLUMN- SEE STRUCTURAL
05 21 00-A	STEEL JOIST- SEE STRUCTURAL
05 31 00-A	METAL ROOF DECKING- SEE STRUCTURAL
05 31 00-B	ACOUSTICAL METAL DECKING - SEE STRUCTURAL
05 40 00-A	2 1/2 16 GA. GALVANIZED STEEL STUD
05 40 00-B	3 5/8 16 GA. GALVANIZED STEEL STUD
05 40 00-D	6 16 GA. GALVANIZED STEEL STUD
05 40 00-E	8 16 GA. GALVANIZED STEEL STUD
05 40 00-EE	DIAGONAL BRACE
05 40 00-F	10 16 GA. GALVANIZED STEEL STUD
05 51 13-A	MANUFACTURED STEEL FRAMED STAIR
05 51 13-B	CONCRETE FILLED METAL PAN TREAD AND RISER
05 51 13-C	STAIR METAL STRINGER- CHANNEL
05 51 13-D	STAIR METAL STRINGER- PLATE
05 51 13-E	CLOSURE PLATE
05 51 13-G	PRE-MANUFACTURED SHIPS LADDER
05 52 13-D	1-1/4" I.D. STAINLESS STEEL HANDRAIL
05 52 13-F	1-1/4" I.D. PAINTED STEEL PIPE HANDRAIL
06 10 00-A	1X WOOD BLOCKING
06 10 00-B	2X WOOD BLOCKING
06 16 00-A	5/8" EXTERIOR GRADE PLYWOOD
06 16 00-B	3/4" EXTERIOR GRADE PLYWOOD
06 16 00-C	5/8" EXTERIOR GYPSUM SHEATHING
07 21 00-A	SLAB PERIMETER RIGID INSULATION (R-15 FOR 24")
07 21 00-B	FULL THICKNESS GLASS FIBER BATT INSULATION
07 21 00-C	2" CAVITY WALL EXTRUDED POLYSTYRENE INSULATION (R-16.8)
07 21 00-D	MINERAL WOOL BATT INSULATION
07 21 00-E	THERMALLY BROKEN Z-CLIPS @ 16" O.C. COORDINATE DIRECTION WITH METAL PANEL MANUFACTURER
07 21 19-A	FOAMED INFILL INSULATION
07 27 26-A	FLUID APPLIED MEMBRANE AIR BARRIER
07 42 13-E	FLASHING
07 42 43-A	COMPOSITE METAL WALL/SOFFT PANEL
07 42 43-B	BRAKE METAL TRIM/ FLASHING TO MATCH COMPOSITE METAL PANEL
07 42 43-C	METAL HAT CHANNEL (16 GA. MIN.) - SEE SECTIONS FOR DEPTH
07 54 19-A	POLYVINYL-CHLORIDE (PVC) MEMBRANE ROOFING SYSTEM
07 54 19-B	MEMBRANE ROOFING - EXTEND OVER AND ATTACH TO FRONT FACE OF PARAPET
07 54 19-C	1/2" COVER BOARD
07 54 19-D	TAPERED POLYISO INSULATION BOARD
07 54 19-E	2 LAYERS OF 2" POLYISO INSULATION BOARD (R-26)
07 54 19-G	ROOF SYSTEM VAPOR RETARDER
07 62 00-D	DRIP EDGE
07 62 00-E	WALL FLASHING
07 71 00-A	MANUFACTURED COPING
07 71 00-B	MANUFACTURED GRAVEL STOP - TO MATCH ADJACENT EXISTING
07 84 13-A	PENETRATION FIRESTOPPING SYSTEM
07 92 00-A	BACKER ROD AND SEALANT
07 92 00-B	SEALANT EACH SIDE, TYPICAL
07 95 00-A	FLOOR EXPANSION JOINT COVER
07 95 00-B	WALL EXPANSION JOINT COVER
07 95 00-C	CEILING EXPANSION JOINT COVER
07 95 00-D	EXTERIOR WALL EXPANSION JOINT SYSTEM
08 11 13-A	HOLLOW METAL DOORS/BORROWED LIGHT FRAME
08 11 13-B	HOLLOW METAL DOOR
08 11 13-C	GROUT SOLID
08 11 16-A	ALUMINUM DOOR AND FRAME
08 41 13-A	4 1/2" ALUMINUM-FRAMED STOREFRONT
08 41 13-B	WIDE STYLE ALUMINUM ENTRANCE DOOR
08 41 13-C	ALUMINUM BRAKE METAL TO MATCH STOREFRONT FRAME
08 44 13-A	7" DEEP ALUMINUM CURTAINWALL SYSTEM
08 44 13-D	ALUMINUM BREAK/METAL TO MATCH CURTAINWALL FRAME
08 71 00-A	ALUMINUM THRESHOLD
08 80 00-A	GLAZING - SEE SCHEDULE/ELEVATIONS
09 22 16-E	2 1/2" STEEL STUD
09 22 16-F	3 5/8" STEEL STUD
09 22 16-G	6" STEEL STUD
09 22 16-H	8" STEEL STUD
09 22 16-I	METAL STUD KICKERS AS REQUIRED
09 29 00-A	5/8" GYPSUM WALL BOARD (SEE SPECS FOR TYPE)
09 29 00-B	SOUND ATTENUATION INSULATION
09 29 00-C	SUSPENDED GYPSUM BOARD CEILING ASSEMBLY
09 29 00-D	METAL L- MOLD
09 51 13-A	ACOUSTICAL CEILING SUSPENSION ASSEMBLY
09 51 13-B	DECORATIVE ACOUSTICAL CEILING EDGE TRIM
09 65 13-A	RESILIENT BASE
09 65 13-B	RESILIENT STAIR NOSING
09 65 13-C	RESILIENT STAIR TREADS & RISERS
09 72 00-A	WALL COVERING- SEE A800 SHEETS
10 14 19-A	SIGNS- DIMENSIONAL CHARACTERS AND LOGO FOR EXTERIOR USE
12 24 13-A	ROLLER WINDOW SHADE
12 36 16-A	METAL COUNTERTOP
12 36 61-A	SOLID SURFACE
31 20 00-B	COMPACTED EARTH
31 20 00-C	DRAINING GRANULAR FILL
32 13 13-A	SIDEWALK- SEE CIVIL SHEETS

SPECIALTY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER	MODEL NO.	REMARKS	FURNISHED BY	INSTALLED BY
AP1	FRONT LOAD ELECTRIC DRYER	-	EXISTING	EXISTING	-	OWNER	OWNER
AP2	4.5 CU. FT. FRONT LOAD WASHER	-	EXISTING	EXISTING	-	OWNER	OWNER
AP3	REFRIGERATOR	11 31 00	GE	GT522KYNRFS	COORDINATE HOOK-UPS PER ELECTRICAL/PLUMBING DRAWINGS.	CONTRACTOR	CONTRACTOR
BE1	DRILL PRESS	-	-	-	-	OWNER	OWNER
BE2	VERTICAL BAND SAW	-	-	-	-	OWNER	OWNER
BE3	COMPOUND MITER SAW	-	-	-	-	OWNER	OWNER
BE4	DELUXE PLANER	-	-	-	-	OWNER	OWNER
BE5	TABLE SAW	-	-	-	-	OWNER	OWNER
BE6	CNC PLASMA CUTTER	-	-	-	-	OWNER	OWNER
BE7	SHEAR CUTTER	-	-	-	-	OWNER	OWNER
BE8	BENCH GRINDER	-	-	-	-	OWNER	OWNER
CC1	CUBICLE CURTAIN AND TRACK	10 21 23	INPRO	NANOTRACK	TERMINATE 18" A.F.F.	CONTRACTOR	CONTRACTOR
CG1	SURFACE MOUNTED CORNER GUARD - LENGTH VARIES	10 26 00	ACROVYN	PS92	LENGTH FROM TOP OF VINYL WALL BASE TO FINISHED CEILING HEIGHT	CONTRACTOR	CONTRACTOR
CH1	PEDICURE CHAIR	-	PIBBS	-	FIBERGLASS FOOTSTIE PEDICURE SPA, BLACK, MANICURE TRAYS, PLUMBLESS	CONTRACTOR	CONTRACTOR
CH2	FACIAL CHAIR	-	SILVER FOX	223SD	GLO-ELECTRIC FACIAL & TREATMENT CHAIR, DARK GREY	CONTRACTOR	CONTRACTOR
CH3	STYLING / BARBER CHAIR	-	COMFOTEL	ROXANNE STYLING CHAIR	TEXTURED BLACK, HYDRAULIC STANDARD HEIGHT BLACK LIFT, OMEGA ROUND BLACK BASE, BLACK T FOOTREST	CONTRACTOR	CONTRACTOR
CH4	HAIR WASHING CHAIR	-	COLLINS	DIGNO	LEVER-CONTROL SHAMPOO CHAIR W/ KICK OUT LEGREST	CONTRACTOR	CONTRACTOR
CR1	CLOSET ROD	06 40 00	KANPE & VOGT	CLOSET-PRO HEAVY DUTY	1 5/16" DIAMETER ROD (MATTE BLACK) TO EXTEND FULL WIDTH OF OPENING, MOUNT 68" A.F.F.	CONTRACTOR	CONTRACTOR
DC1	4' x 3' x 9" TACK BOARD CABINET	10 11 00	CLARIDGE	1023	-	CONTRACTOR	CONTRACTOR
FE1	FIRE EXTINGUISHER CABINET	10 44 13	J. L. INDUSTRIES, INC.	C102TV10	1027 ALUMINUM, 3" ROLLED TRIM	CONTRACTOR	CONTRACTOR
FE2	FIRE EXTINGUISHER & BRACKET	10 44 13	J. L. INDUSTRIES, INC.	SEE SPECS	-	CONTRACTOR	CONTRACTOR
GT1	GROW TOWER	-	-	-	-	OWNER	OWNER
HD1	MOBILE HAIR DRYER	-	OWNER	-	COORDINATE POWER WITH MEP	OWNER	CONTRACTOR
LK1	DOUBLE TIER LOCKER	10 51 00	ASI STORAGE	ASI TRADITIONAL COLLECTION	18" W x 18" D x 72" H	CONTRACTOR	CONTRACTOR
LK2	TRIPLE TIER LOCKER	10 51 00	DEBOURGH	APEX ATHLETIC LOCKERS	18" W x 24" D x 72" H	CONTRACTOR	CONTRACTOR
MB1	8'4" WIDE x 4'0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ 17'-0"	CONTRACTOR	CONTRACTOR
MB2	12'0" WIDE x 4'0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ 17'-0"	CONTRACTOR	CONTRACTOR
MB3	16'0" WIDE x 4'0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ 17'-0"	CONTRACTOR	CONTRACTOR
RS1	MANUALLY OPERATED DUAL ROLLER SHADE	12 24 13	DRAPER INC.	-	ROLLER SHADE TO BE FULL WIDTH OF WINDOW.	CONTRACTOR	CONTRACTOR
RS2	MANUALLY OPERATED SINGLE ROLLER SHADE	12 24 13	DRAPER INC.	-	ROLLER SHADE TO BE FULL WIDTH OF WINDOW.	CONTRACTOR	CONTRACTOR
SL1	SHIP'S LADDER	05 50 00	O'KEEFFES, INC.	520	75 DEGREE INCLINE	CONTRACTOR	CONTRACTOR
SM1	SUSPENDED SALON MIRROR	08 83 00	CUSTOM	-	18" W x 36" H x 2" D DOUBLE SIDED PILL SHAPED MIRROR W/ 1" W MATTE BLACK FRAME, 2'DIA. MATTE BLACK DOWNROD	CONTRACTOR	CONTRACTOR
WB1	WELDING BOOTH W/ CURTAIN	-	-	-	-	OWNER	CONTRACTOR
WT1	STANDARD WELD TABLE	-	-	-	-	OWNER	CONTRACTOR





RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

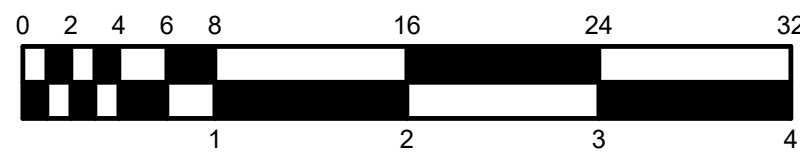
GENERAL NOTES:

- REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.
- COORDINATE SANITARY AND STORM PIPING ROUTING WITH STRUCTURAL FOUNDATION PIERS AND EXISTING ELECTRICAL DUCT BANK. SEE STRUCTURAL AND CIVIL PLANS.

PLAN NOTES:

- CONNECT TO EXISTING 4" WASTE
- CONNECT 8" STORM TO EXISTING 5" STORM.

UNDERSLAB PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
F.F.E: 624.50'



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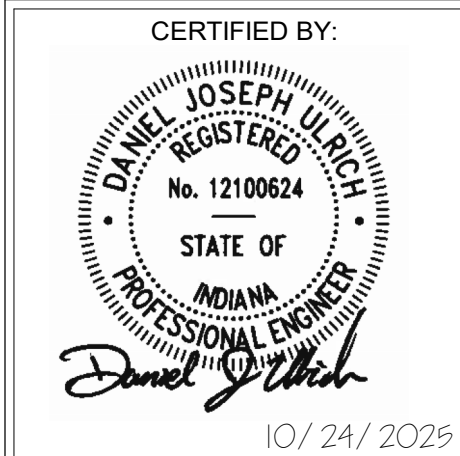
PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Mar Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, layout, and construction details. The design and construction details are the property of the engineer and are not to be used for any other purpose without the written consent of the engineer.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:		
1	Addendum 3	11/10/25
2	Addendum 4	11/14/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:
**UNDERSLAB
PLAN -
PLUMBING**



DRAWING NUMBER
P101

PROJECT NUMBER
2025022

LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	MOUNTING	WATTS	CRI	COLOR	LUMENS	VOLTS	MANUFACTURER(S)			MARK
F01-14	LINEAR 4-INCH WIDE BY LENGTH INDICATED, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT.	RECESSED	99 W	80	3500K	725/FT	120-277V	AXIS BBRLED SERIES LUMENWERX VAGR SERIES Pinnacle EX3 Series			F01-14
F10-8	LINEAR DIRECT 4-INCH WIDE BY LENGTH INDICATED, DAMP LOCATION LISTED, AIRCRAFT CABLE, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	SUSPENDED	57 W	80	3500K	650/FT	120-277V	AXIS BBRLED SERIES LUMENWERX VAGR SERIES Pinnacle EX3 Series			F10-8
F10-12	SAME AS FIXTURE TYPE 'F10-8,' EXCEPT LENGTH.	SUSPENDED	85 W	80	3500K	650/FT	120-277V				F10-12
F10-12X	SAME AS FIXTURE TYPE 'F10-12,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SUSPENDED	85 W	80	3500K	650/FT	120-277V				F10-12X
F24	2 BY 2-FOOT ARCHITECTURAL TROFFER, DIFFUSE CENTER BASKET OPTIC, FROSTED ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT, SELECTABLE LUMENS AND CCT.	RECESSED	38 W	80	3500K/ 4000K/ 5000K	3000/ 4000/ 5000	120-277V	COLUMBIA LCAT22-LSCS SERIES LITHONIA STARS 2X2 SERIES METALUX 2240S SERIES			F24
F24X	SAME AS FIXTURE TYPE 'F24,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	38 W	80	3500K/ 4000K/ 5000K	3000/ 4000/ 5000	120-277V				F24X
F50	3-INCH CYLINDER, STEM MOUNT, ADJUSTABLE TILT AND ROTATION, ALUMINUM HOUSING, CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM DISTRIBUTION, STEM MOUNT, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	SUSPENDED	21 W	80	3500K	1500	120-277V	GOTHAM EVO2PTRC SERIES LITON L CALDJ SERIES LUMENWERX AE3FXCYP SERIES			F50
F52	OVAL RING, NOMINAL 2-INCH WIDE, 8-FOOT BY 48-FOOT OVERALL SIZE, 4-FOOT RADIUS, DIRECT DISTRIBUTION, AIRCRAFT CABLE, WHITE ACRYLIC LENSING, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	PENDENT	920 W	80	3500K	750/FT	120-277V	AXIS 'SKETCH 2' SK2PD OV SERIES BETA CALCO MICRO SQUIGGLE' SC SERIES G LIGHTING 'FREESTYLE' F' SERIES			F52
F60	4-FOOT LENSED INDUSTRIAL FORMED STEEL HOUSING, WHITE FINISH, CURVED SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	48 W	80	3500K	5000	120-277V	COLUMBIA MPS SERIES LITHONIA ZL1D SERIES METALUX SNLED SERIES			F60
F60X	SAME AS FIXTURE TYPE 'F60,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SURFACE/ CHAIN HUNG	48 W	80	3500K	5000	120-277V				F60X
F70	2-FOOT NOMINAL UNDERCOUNTER LIGHT, WHITE DIFFUSER, MULTI-VOLT, ON/OFF ROCKER SWITCH, ANTI-MICROBIAL FINISH.	SURFACE	12 W	80	3500K	1200	120-277V	ACUTITY HUC SERIES AIREY-THOMPSON 13L SERIES FAIL-SAFE UCL SERIES			F70
F82	4-FOOT INDUSTRIAL, WET-LOCATION LISTED, GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE/ SURFACE WALL	47 W	80	3500K	4850	120-277V	COLUMBIA LXEM SERIES METALUX 4VT2 SERIES LITHONIA FEM SERIES			F82
F83	2-FOOT INDUSTRIAL DOWNLIGHT, HIGH ABUSE, TRIANGULAR STEEL HOUSING, 0.25-INCH POLYCARBONATE LENS, COORDINATE LOCATION IN FIELD.	SURFACE/ SURFACE WALL	25 W	80	3500K	2000	120-277V	KENALL WCB SERIES NEW STAR 55S2 SERIES FAIL-SAFE FWLDL SERIES			F83
F84	RECTANGULAR HIGH-BAY FIXTURE, FROSTED ACRYLIC LENS, GENERAL DISTRIBUTION.	SUSPENDED	105 W	80	4000K	18000	120-277V	COLUMBIA HHLV SERIES COOPER HBLED SERIES LITHONIA IBG SERIES			F84
F84X	SAME AS FIXTURE TYPE 'F84,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SUSPENDED	105 W	80	4000K	18000	120-277V				F84X
F85	SAME AS FIXTURE TYPE 'F84,' EXCEPT OUTPUT.	SUSPENDED	76 W	80	4000K	12000	120-277V				F85
FA	OPEN DOWNLIGHT, FULL CUTOFF, 6-INCH DIAMETER APERTURE, WET LOCATION LISTED, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT.	RECESSED	10 W	80	3000K	1000	120-277V	HALO COMMERCIAL HC6 SERIES LITHONIA LDM6 SERIES PRESCOLITE LBRP-6RD SERIES			FA
FD	CAST ALUMINUM FIXTURE, FULL CUTOFF, POWDERCOATED FINISH, TYPE IV DISTRIBUTION, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD AND CUSTOM FINISHES.	SURFACE WALL	109 W	70	3000K	13,000	120-277V	HUBBELL AIRO SERIES LITHONIA RSX SERIES LUMARK PREVAIL SERIES			FD
FE	SAME AS FIXTURE TYPE 'FD,' EXCEPT OUTPUT.	SURFACE WALL	51 W	70	3000K	6,500	120-277V				FE
FN	ARCHITECTURAL WALL PACK, FULL CUTOFF, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD AND CUSTOM FINISHES.	SURFACE WALL	11 W	70	3000K	1500	120-277V	HUBBELL SG SERIES LITHONIA WPX SERIES LUMARK XTOR SERIES			FN
X1	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	UNIVERSAL	4 W	80	RED	N/A	120-277V	DUAL LITE EVE SERIES SURE-LITES LPX SERIES LITHONIA LQM SERIES			X1
X6	HIGH ABUSE EXIT SIGN, ALUMINUM HOUSING, GASKETED, POLYCARBONATE SHIELD, NEMA 4X, VANDAL RESISTANT, WET LOCATION LISTED, SELF POWERED, SELF DIAGNOSTIC.	UNIVERSAL	4 W	80	RED	N/A	120-277V	DUAL-LITE SEWL SERIES SURE-LITES LX SERIES LITHONIA LV SERIES			X6

- NOTES:
- CONTRACTOR SHALL SET OUTPUT AND COLOR TEMPERATURE OF ADJUSTABLE FIXTURES AS DIRECTED IN THE FIELD BY THE ENGINEER.
 - VERIFY EXIT SIGN LETTERING COLOR WITH EXISTING FIXTURES IN BUILDING PRIOR TO ORDERING.



CSO

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DIA #26076

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732 North Capitol Avenue Indianapolis, IN 46204
Phone: (317) 634-4672 Fax: (317) 638-8726

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Mar Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical and plumbing systems. The design is not intended to be a final design and is subject to change. The design is not intended to be a final design and is subject to change. The design is not intended to be a final design and is subject to change.

REVISIONS:		
1	Addendum 3	11/10/25
2	Addendum 4	11/14/25

ISSUE DATE 10/24/2025	DRAWN BY DK	CHECKED BY DW
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DRAWING TITLE:
SCHEDULES -
ELECTRICAL

CERTIFIED BY:

THOMAS E. HILL

No. PE19800083

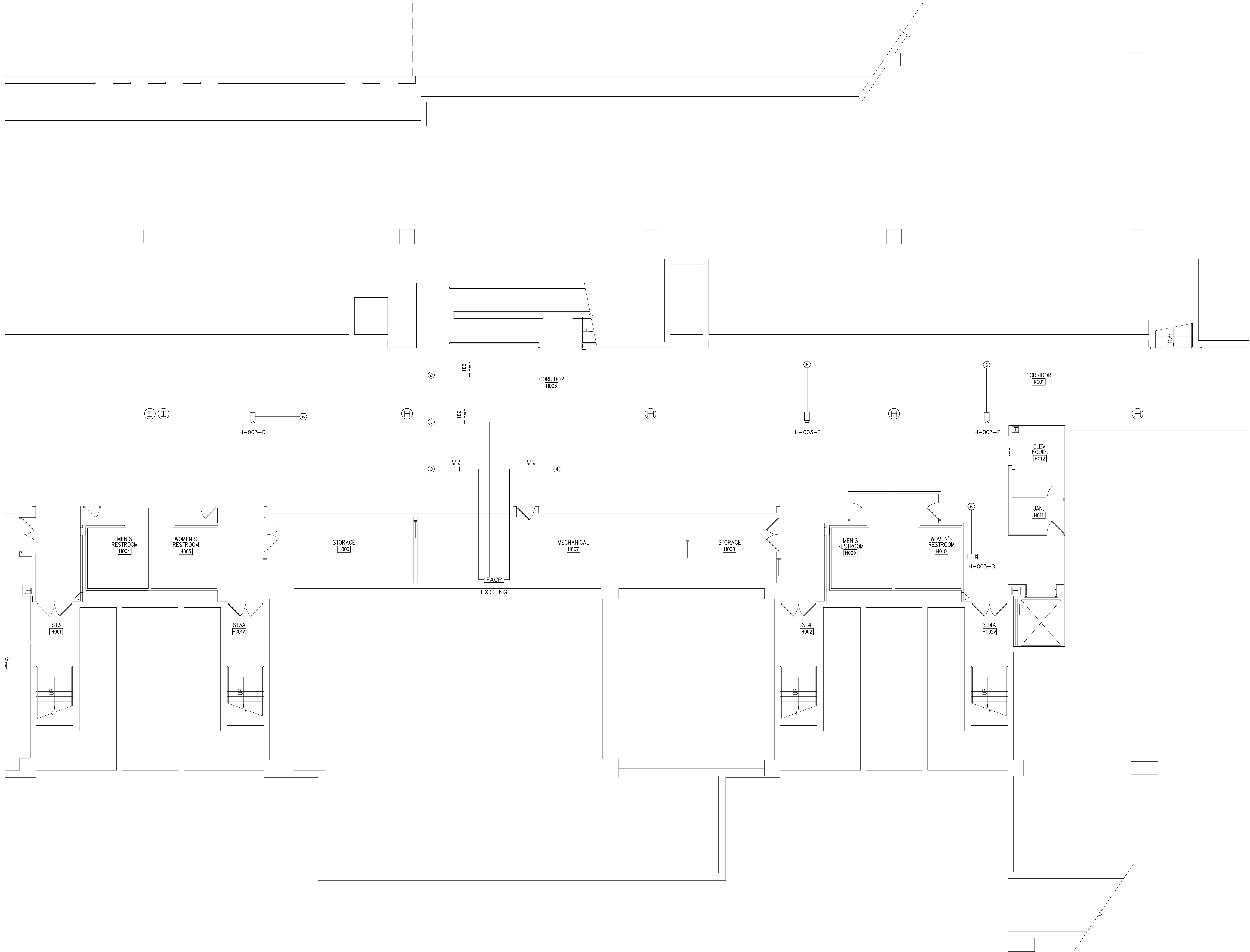
STATE OF INDIANA

PROFESSIONAL ENGINEER

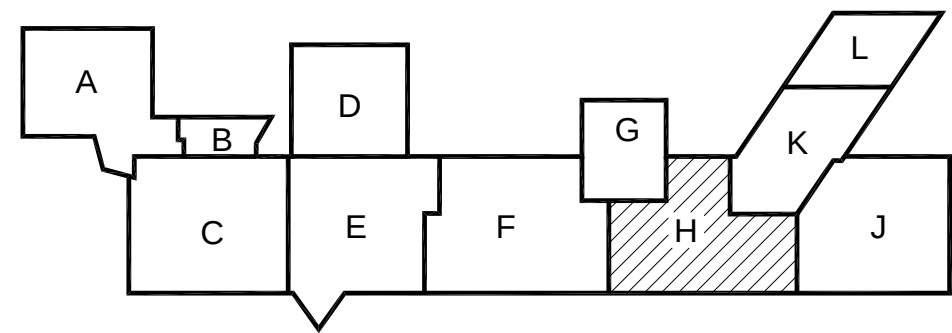
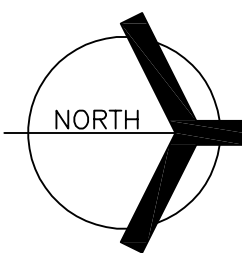
10/24/2025

DRAWING NUMBER
E601

PROJECT NUMBER
2025022



CCTV SYSTEM PLAN
LOWER LEVEL - UNIT H



FIRE ALARM & SECURITY SYMBOL LEGEND
CCTV FIXED CAMERA 4

FIRE ALARM WIRE LEGEND WITH WEST PENN CATALOG NUMBER (OR EQUAL)
AC=1pr. TWISTED & SHIELDED #18 AWG(ANNUNCIATOR COMMUNICATION) W.P.#D975 OR W.P.#D60975(PLENUM)
AP=2C#14 AWG(ANNUNCIATOR POWER) W.P.#994 OR W.P.#60993(PLENUM)
ID#1pr. TWISTED & SHIELDED #18 AWG(IDNET CIRCUIT) W.P.#D975 OR W.P.#D60975(PLENUM)
PW=2C#14 AWG(24VDC POWER CIRCUIT) W.P.#994 OR W.P.#60993(PLENUM)

GENERAL FIRE ALARM NOTES

- 1). VERIFY EXACT LOCATION OF ALL EQUIPMENT BEFORE INSTALLATION.
- 2). ALL FIRE ALARM EQUIPMENT TO BE INSTALLED PER NFPA 72 AND NATIONAL ELECTRIC CODE STANDARDS.
- 3). MOUNT ALL SMOKE DETECTORS MINIMUM OF 3" FROM ANY AIR DIFFUSER.
- 4). DUCT DETECTORS TO BE MOUNTED A MINIMUM OF SIX DUCT WIDTHS FROM BENDS OR INLETS TO AVOID AIR TURBULENCE, AND NOT TO BE MOUNTED OUTSIDE OF BUILDING.
- 5). SIGNAL, ZONE, AND SPEAKER CIRCUITS ARE NOT TO BE "T-TAPPED".

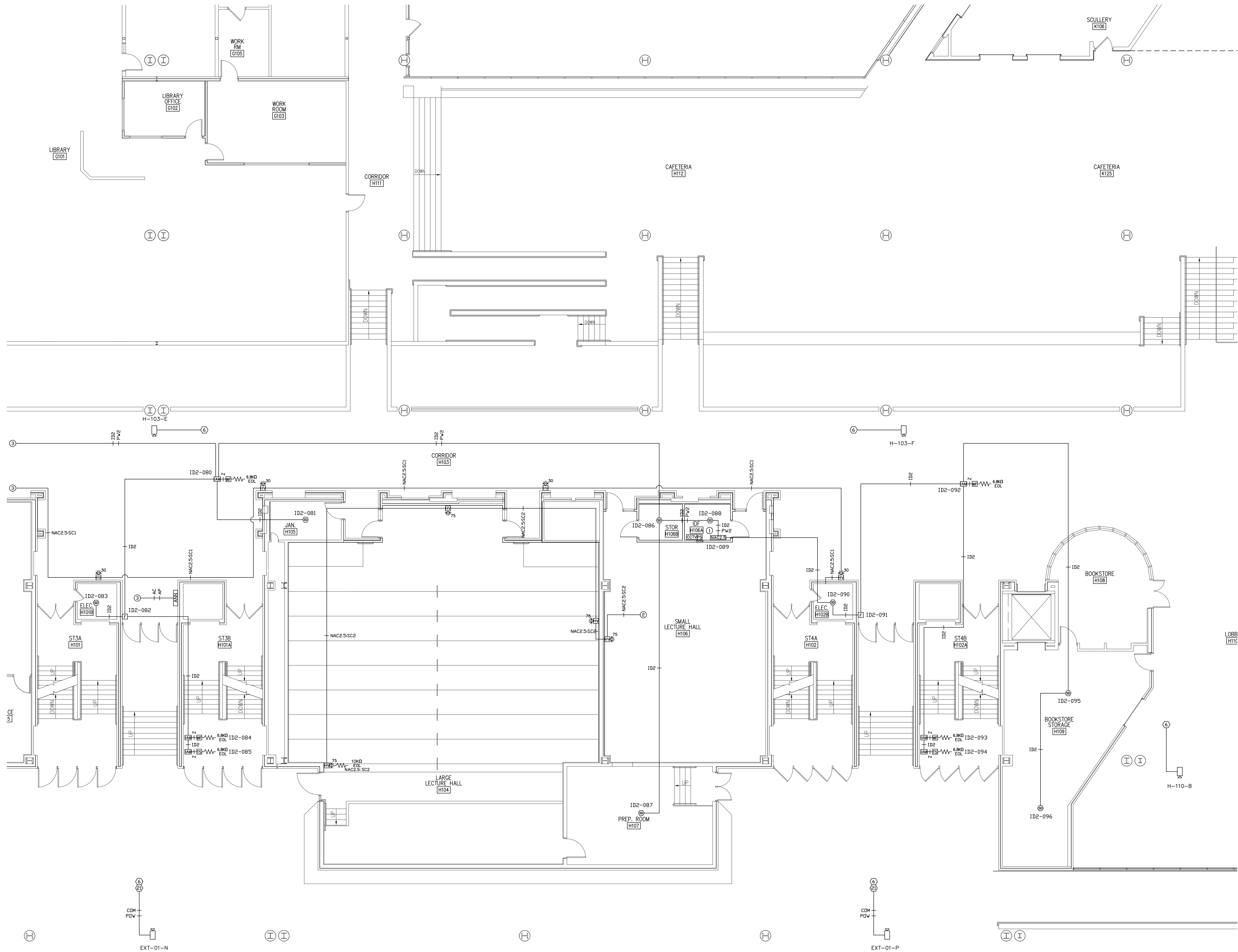
FIRE ALARM PLAN NOTES

- ① NEW IDNET #2 PLUS 24VDC FOR LOWER & FIRST LEVEL.
- ② NEW IDNET #3 PLUS 24VDC FOR SECOND & THIRD LEVEL.
- ③ TO REMOTE ANNUNCIATOR IN UNIT E FIRST LEVEL.
- ④ TO REMOTE ANNUNCIATOR IN UNIT H FIRST LEVEL.

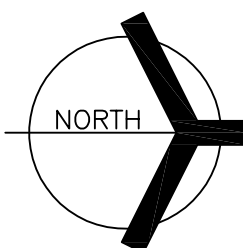
SECURITY PLAN NOTES

- ① CAT 6/6 NETWORK CABLEING TO IDF ROOM A018.
- ② CAT 6/6 NETWORK CABLEING TO IDF ROOM C038A.
- ③ CAT 6/6 NETWORK CABLEING TO IDF ROOM E124.
- ④ CAT 6/6 NETWORK CABLEING TO IDF ROOM F106A.
- ⑤ CAT 6/6 NETWORK CABLEING TO IDF ROOM G106A.
- ⑥ CAT 6/6 NETWORK CABLEING TO IDF ROOM H106A.
- ⑦ CAT 6/6 NETWORK CABLEING TO IDF ROOM J117.
- ⑧ CAT 6/6 NETWORK CABLEING TO EXISTING IDF ROOM.
- ⑨ CAT 6/6 NETWORK CABLEING TO EXISTING IDF ROOM.
- ⑩ CAT 6/6 NETWORK CABLEING TO IDF ROOM K161.
- ⑪ CAT 6/6 NETWORK CABLEING TO IDF ROOM E208.
- ⑫ CAT 6/6 NETWORK CABLEING TO IDF ROOM F238.
- ⑬ CAT 6/6 NETWORK CABLEING TO IDF ROOM H214.
- ⑭ CAT 6/6 NETWORK CABLEING TO IDF ROOM H307.
- ⑮ CAT 6/6 NETWORK CABLEING TO IDF ROOM E338.
- ⑯ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF A018.
- ⑰ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF C038.
- ⑱ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF E124.
- ⑲ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF F106A.
- ⑳ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN EXISTING IDF ROOM.
- ㉑ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF H106A.
- ㉒ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN EXISTING IDF ROOM.

FIRE ALARM & SECURITY SYSTEM PLAN					ENG	CAD	NO.	DATE	REVISION DESCRIPTION
LOWER LEVEL - UNIT H					SS	TJC	△	6/30/10	PANEL RELOCATIONS
COLUMBUS EAST HIGH SCHOOL									
DRAWN BY:					DATE:				
TCLINE					2/26/10				
DESIGNED BY:					DATE:				
APPROVED BY:					DATE:				
SS					4/7/10				
PROJECT NUMBER:									
948942014									
SHEET TITLE:									
COLUMBUS EAST-4									
SHEET NUMBER:									
9									



CCTV & FIRE ALARM SYSTEM PLAN
FIRST LEVEL - UNIT H



Columbus East NAC Schedules									
NAC Circuit Calculations									
NAC Panel #2.5 First Level Unit H Electrical Room H102B									
First Level (North)									
110 of audio/visual	@	0.243	=	0					
75 of audio/visual	@	0.184	=	0					
30 of audio/visual	@	0.101	=	1.01					
15 of audio/visual	@	0.054	=	0.054					
110 of Visual /Only	@	0.226	=	0					
75 of Visual /Only	@	0.169	=	0					
30 of Visual /Only	@	0.085	=	0					
15 of Visual /Only	@	0.055	=	0					
110 of audio/visual	@	0.243	=	0					
75 of audio/visual	@	0.184	=	0.92					
30 of audio/visual	@	0.101	=	0					
15 of audio/visual	@	0.054	=	0					
110 of Visual /Only	@	0.226	=	0					
75 of Visual /Only	@	0.169	=	0					
30 of Visual /Only	@	0.085	=	0					
15 of Visual /Only	@	0.055	=	0					
110 of audio/visual	@	0.243	=	0					
75 of audio/visual	@	0.184	=	0					
30 of audio/visual	@	0.101	=	0.202					
15 of audio/visual	@	0.054	=	0					
110 of Visual /Only	@	0.226	=	0					
75 of Visual /Only	@	0.169	=	0					
30 of Visual /Only	@	0.085	=	0					
15 of Visual /Only	@	0.055	=	0					
110 of audio/visual	@	0.243	=	0					
75 of audio/visual	@	0.184	=	0					
30 of audio/visual	@	0.101	=	0					
15 of audio/visual	@	0.054	=	0					
110 of Visual /Only	@	0.226	=	0					
75 of Visual /Only	@	0.169	=	0					
30 of Visual /Only	@	0.085	=	0					
15 of Visual /Only	@	0.055	=	0					
NAC total									2.196

FIRE ALARM & SECURITY SYMBOL LEGEND

MANUAL PULL STATION	2
SMOKE DETECTOR	8
MULTI-CANDELA HORN VISUAL	8
MONITOR IAM	6
TAMPER SWITCH (BY OTHER)	2
WATER FLOW SWITCH (BY OTHER)	4
END-OF-LINE RESISTOR	7
4009 FIRE ALARM NAC PANEL	1
CCTV FIXED CAMERA	5
FIRE ALARM ANNUNCIATOR PANEL	1
CCTV HEADEND EQUIPMENT	1
CCTV CAMERA POWER SUPPLY	1

FIRE ALARM WIRE LEGEND WITH WEST PENN. CATALOG NUMBER (OR EQUAL)

AC=1pr. TWISTED & SHIELDED #18 AWG(ANNUNCIATOR COMMUNICATION)	W.P.#0975 OR W.P.#060975(PLENUM)
AP=2C#14 AWG(ANNUNCIATOR POWER)	W.P.#994 OR W.P.#60993(PLENUM)
ID#1pr. TWISTED & SHIELDED #18 AWG(DNET CIRCUIT)	W.P.#0975 OR W.P.#060975(PLENUM)
PW=2C#14 AWG(24VDC POWER CIRCUIT)	W.P.#994 OR W.P.#60993(PLENUM)
Z=2C#16 AWG(ZONE CIRCUIT)	W.P.#990 OR W.P.#60991(PLENUM)
NAC# SC# 2C#12 AWG(NAC PANEL SIGNAL CIRCUIT)	W.P.#998 OR W.P.#60995(PLENUM)
OPTIONAL STRANDED	CSC #564214

GENERAL FIRE ALARM NOTES

- 1). VERIFY EXACT LOCATION OF ALL EQUIPMENT BEFORE INSTALLATION.
- 2). ALL FIRE ALARM EQUIPMENT TO BE INSTALLED PER NFPA 72 AND NATIONAL ELECTRIC CODE STANDARDS.
- 3). MOUNT ALL SMOKE DETECTORS MINIMUM OF 3' FROM ANY AIR DIFFUSER.
- 4). MOUNT ALL IAMs NO MORE THAN 5' OFF OF THE FINISHED FLOOR.
- 5). SIGNAL, ZONE, AND SPEAKER CIRCUITS ARE NOT TO BE "T-TAPPED".

FIRE ALARM PLAN NOTES

- ① DEVICE REQUIRES DEDICATED 120VAC POWER CIRCUIT WITH GROUND. 120VAC CABLE TO BE RUN IN SEPARATE CONDUIT THAN THAT OF 24VDC FIRE ALARM CABLES. SEE GROUNDING DETAIL ON DETAIL SHEET FOR GROUNDING REQUIREMENTS.
- ② HOME RUN CIRCUIT(S) TO 4009 FIRE ALARM NAC PANEL #2.5.
- ③ CIRCUIT(S) TO UNIT F.

SECURITY PLAN NOTES

- ① CAT 6/6 NETWORK CABLEING TO IDF ROOM A018.
- ② CAT 6/6 NETWORK CABLEING TO IDF ROOM C038A.
- ③ CAT 6/6 NETWORK CABLEING TO IDF ROOM E124.
- ④ CAT 6/6 NETWORK CABLEING TO IDF ROOM F106A.
- ⑤ CAT 6/6 NETWORK CABLEING TO IDF ROOM H108A.
- ⑥ CAT 6/6 NETWORK CABLEING TO IDF ROOM H109A.
- ⑦ CAT 6/6 NETWORK CABLEING TO EXISTING IDF ROOM.
- ⑧ CAT 6/6 NETWORK CABLEING TO EXISTING IDF ROOM.
- ⑨ CAT 6/6 NETWORK CABLEING TO EXISTING IDF ROOM.
- ⑩ CAT 6/6 NETWORK CABLEING TO IDF ROOM K161.
- ⑪ CAT 6/6 NETWORK CABLEING TO IDF ROOM E208.
- ⑫ CAT 6/6 NETWORK CABLEING TO IDF ROOM F238.
- ⑬ CAT 6/6 NETWORK CABLEING TO IDF ROOM H214.
- ⑭ CAT 6/6 NETWORK CABLEING TO IDF ROOM H307.
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- ⑱ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF E124.
- ⑲ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF F106A.
- ⑳ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN EXISTING IDF ROOM.
- ㉑ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN IDF H108A.
- ㉒ 24VAC HEATER POWER (16/2 AWG) TO CAMERA POWER SUPPLY IN EXISTING IDF ROOM.

