ADDENDUM

OWNER	**WESTERN WAYNE SCHOOLS**
PROJECT	WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS – BID PACKAGE #1 A/E Project 5-6394
PURPOSE	**ADDENDUM 001** THIS ADDENDUM SHALL FORM PART OF THE BIDDING DOCUMENTS. CHANGES, ADDITIONS, CLARIFICATIONS OR DELETIONS HEREIN SUPERSEDE THE DRAWINGS AND SPECIFICATIONS. BIDDERS SHALL INCLUDE ON THE PROPOSAL FORM ACKNOWLEDGEMENT OF THE RECEIPT OF THIS ADDENDUM.
ATTACHMENTS	**New Specifications: 07 53 00** **Reissued Specifications: TOC, 04 20 00, 05 21 00, 07 71 23** **Reissued Sheets: G0.00, C1.01, C3.01, C7.01, S2.1A, S3.1A, S7.02, A1.1A, A2.3A, A2.81, A3.1A, A4.01, A6.01, A6.02, A6.03, A6.10, A7.01, A7.03, A7.04, A7.05, P0.01, P1.1A, P2.1A, P2.80, M3.1A, M9.01, E2.1A, E4.01, E5.01,**
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SPECIFICATION CLARIFICATIONS / REVISIONS

ITEM NO. 1 SECTION 00 01 10 – TABLE OF CONTENTS **(REISSUED)**

Refer to the TABLE OF CONTENTS for new spec section 07 53 00.

ITEM NO. 2 SECTION 04 20 00 - UNIT MASONRY (**REISSUED**)

Refer to Sections 2.2A and 3.8 for revisions.

ITEM NO. 3 SECTION 05 21 00 - STEEL JOIST FRAMING (**REISSUED**)

Refer to Section 1.5 for revisions.

ITEM NO. 4 SECTION 07 71 23 - MANUFACTURED GUTTERS AND DOWNSPOUTS (**REISSUED**)

Refer to Section 2.1 for revisions.

ITEM NO. 5 SECTION 07 53 00 - ELASTOMERIC MEMBRANE ROOFING (**NEW**)

New spec section issued.

SHEET CLARIFICATIONS / REVISIONS

ITEM NO. 6 SHEET G0.00 – COVER SHEET (**REISSUED**)

Added Civil Engineer subconsultant and their contact info to bottom of sheet.

ITEM NO. 7 SHEET C1.01 – SITE DEMOLITION SHEET (**REISSUED**)

Revised extents of site demolition, refer to plan for more details.

ITEM NO. 8 SHEET C3.01 – SITE GRADING, DRAINAGE, & UTILITY PLAN (**REISSUED**)

Revised Storm Water connections, refer to plan for more details.

ITEM NO. 9 SHEET C7.01 – STORMWATER POLLUTION PREVENTION PLAN (**REISSUED**)

Revised Storm Water connections, refer to plan for more details.

ITEM NO. 10 SHEET S2.1A – UNIT 'A' FOUNDATION PLAN (**REISSUED**)

Refer to sheet for slab slope locations at showers.

ITEM NO. 11 SHEET S3.1A – UNIT 'A' FLOOR AND LOW ROOF FRAMING PLAN (**REISSUED**)

Refer to sheet for updated roof slope and deck bearing elevations between gridlines A2 and C1.

ITEM NO. 12 SHEET S7.02 – FRAMING DETAILS (**REISSUED**)

Details 19/S7.02 and 20/S7.02 updated to match new roof slope and deck bearing elevations.

ITEM NO. 13 SHEET A1.1A – UNIT 'A' FIRST FLOOR DEMOLITION PLAN (**REISSUED**)

Refer to sheet for revised Downspout removal.

ITEM NO. 14 SHEET A2.3A – UNIT 'A' ROOF PLAN (**REISSUED**)

Refer to sheet for revised Roof slopes and new scuppers with downspouts.

ITEM NO. 15 SHEET A2.81 – ENLARGED PLANS (**REISSUED**)

Refer to sheet for added downspout.

ITEM NO. 16 SHEET A3.1A – UNIT 'A' FIRST FLOOR REFLECTED CEILING PLAN (**REISSUED**)

Refer to sheet for revised Metal panel appearance.

ITEM NO. 17 SHEET A4.01 EXTERIOR ELEVATIONS (**REISSUED**)

A. Refer to sheet for revised Metal panel appearance.
B. Refer to sheet for added Materials Legend.

ITEM NO. 18 SHEET A6.01 – BUILDING SECTIONS (**REISSUED**)

Refer to sheet for revised Roof slopes.

ITEM NO. 19 SHEET A6.02 – BUILDING SECTIONS (**REISSUED**)

Refer to sheet for revised Metal panel appearance.

ITEM NO. 20 SHEET A6.03 – BUILDING SECTIONS (**REISSUED**)

Refer to sheet for revised Metal panel appearance.

ITEM NO. 21 SHEET A6.10 – WALL SECTIONS (**REISSUED**)

Refer to sheet for revised wall base details.

ITEM NO. 22 SHEET A7.01 – DOOR DETAILS (**REISSUED**)

Refer to sheet for revised door detail.

ITEM NO. 23 SHEET A7.03 – WALL AND WINDOW DETAILS (**REISSUED**)

Refer to sheet for revised window sill detail.

ITEM NO. 24 SHEET A7.04 – DETAILS (**REISSUED**)

Refer to sheet for revised wall details.

ITEM NO. 25 SHEET A7.05 – DETAILS (**REISSUED**)

A. Refer to sheet for revised details.
B. Refer to sheet for new scupper detail.

ITEM NO. 26 SHEET P0.01 – PLUMBING GENERAL INFORMATION (**REISSUED**)

Refer to sheet for added Plumbing Fixture Schedule.

ITEM NO. 27 SHEET P1.1A – UNIT 'A' PLUMBING DEMOLITION PLAN (**REISSUED**)

Replace sheet in its entirety. Revised the demolition scope throughout.

ITEM NO. 28 SHEET P2.1A – UNIT 'A' PLUMBING PLAN (**REISSUED**)

Replace sheet in its entirety. Revised the plumbing scope throughout.

ITEM NO. 29 SHEET P2.80 – ENLARGED PLUMBING PLANS (**REISSUED**)

Replace sheet in its entirety. Revised the plumbing scope throughout on all enlarged plans.

ITEM NO. 30 SHEET M3.1A – UNIT 'A' FIRST FLOOR HYDRONIC PLAN (**REISSUED**)

Thermostat and Existing Blower Coil scope clarified.

ITEM NO. 31 SHEET M9.01 – MECHANICAL SCHEDULES (**REISSUED**)

Scope Clarified.

ITEM NO. 32 SHEET E2.1A – UNIT 'A' FIRST FLOOR POWER & COMMUNICATIONS PLAN (**REISSUED**)

A. Renamed panel 'C1' to 'CS1' to avoid confusion with existing bus duct 'C1'. All 'C1' circuit names updated to 'CS1'.
B. Removed power requirements for north and south basketball goals. Updated circuits for remaining basketball goal motors.
C. Removed contractor installed disconnects for 'BCU-1A', 'BCU-3A', and 'BCU-4A'. The disconnect switches will be manufacturer provided.
D. Revised power requirements for EF-6.
E. Clarified switchboard name is 'SB-1'.

ITEM NO. 33 SHEET E4.01 – POWER DISTRIBUTION ONE-LINE DIAGRAMS (**REISSUED**)

A. Added panel 'CS1' to Switchboard 'SB-1' Power Distribution One-Line Diagram New.
B. Removed scale from Switchboard 'SB-1' Power Distribution One-Line Diagram New.

ITEM NO. 34 SHEET E5.01 – POWER DISTRIBUTION EQUIPMENT SCHEDULES (**REISSUED**)

A. Revised 'SB-1' schedule to include panel 'CS1'. Clarified switchboard name is 'SB-1'.
B. Updated panel schedules for panels 'CS1' and 'AA'.

SECTION 00 01 10 - TABLE OF CONTENTS

(ADDENDUM 001)

END OF SECTION

SECTION 04 20 00 - UNIT MASONRY

(ADDENDUM 001)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Concrete block.
B. Concrete facing brick.
C. Clay facing brick.
D. Ceramic glazed structural clay facing tile
E. Mortar and grout.
F. Reinforcement and anchorage.
G. Flashings.
H. Lintels.
I. Accessories.

1.2 RELATED REQUIREMENTS

A. Section 04 01 00 - Maintenance of Masonry.
B. Section 05 50 00 - Metal Fabrications: Loose steel lintels.
C. Section 07 21 00 - Thermal Insulation: Insulation for cavity spaces.
D. Section 07 62 00 - Sheet Metal Flashing and Trim: Through-wall masonry flashings.
E. Section 07 84 00 - Firestopping: Firestopping at penetrations of fire-rated masonry and at top of fire-rated walls.
F. Section 07 92 00 - Joint Sealants: Sealing control and expansion joints.

1.3 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
B. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.
C. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
D. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement.
E. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete.
F. ASTM C55 - Standard Specification for Concrete Building Brick.
G. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units.
H. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units.
I. ASTM C140/C140M - Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
J. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar.
K. ASTM C150/C150M - Standard Specification for Portland Cement.
L. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes.
M. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale).
N. ASTM C270 - Standard Specification for Mortar for Unit Masonry.

O. ASTM C404 - Standard Specification for Aggregates for Masonry Grout.

P. ASTM C476 - Standard Specification for Grout for Masonry.

Q. ASTM C780 - Standard Test Methods for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry.

R. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete.

S. ASTM C1634 - Standard Specification for Concrete Facing Brick and Other Concrete Masonry Facing Units.

T. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing.

U. BIA Technical Notes No. 28B - Brick Veneer/Steel Stud Walls.

V. BIA Technical Notes No. 46 - Maintenance of Brick Masonry.

W. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures.

1.4 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.

C. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

PART 2 PRODUCTS

2.1 CONCRETE MASONRY UNITS

A. Concrete Block: Comply with referenced standards and as follows:
   1. Size: Standard units with nominal face dimensions of 16 by 8 inches and nominal depths as indicated on drawings for specific locations.
   2. Special Shapes: Provide nonstandard blocks configured for corners, lintels, headers, control joint edges, and other detailed conditions.
      a. Provide bullnose units for outside corners.
   3. Load-Bearing Units: ASTM C90, normal weight.
      a. Provide units with minimum average net-area compressive strength of 2500 psi
         1) Hollow block, as indicated.
         2) Exposed Faces: Manufacturer's standard color and texture where indicated.
   4. Nonloadbearing Units: ASTM C129.
      a. Provide units with minimum average net-area compressive strength of 2500 psi
         1) Hollow block, as indicated.
         2) Normal weight.

B. Concrete Brick:
   1. Size: As indicated on drawings.
      a. Provide units with minimum average net-area compressive strength of 2500 psi.
   2. Concrete Facing Brick: ASTM C1634; solid, lightweight; for architectural, paver, and below grade use.
      a. Exposed Faces: Color and texture to match Architect's sample.

2.2 BRICK UNITS

A. Manufacturers:

1. Belden Brick~~[<>]~~; Commodore Full Range Velour: www.beldenbrick.com/#sle.

B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
1. Color and texture to match Architect's sample.
2. ~~Nominal size: As indicated on drawings.~~Nominal size: 3 5/8" W x 7 5/8" L.
3. Special shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.

2.3 MORTAR AND GROUT MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.
1. Not more than 0.10 percent alkali when tested according to ASTM C114.

B. Hydrated Lime: ASTM C207, Type S.

C. Mortar Aggregate: ASTM C144.

D. Grout Aggregate: ASTM C404.

E. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979/C979M.
1. Color(s): As indicated on drawings.

F. Water: Clean and potable.

2.4 REINFORCEMENT AND ANCHORAGE

A. Manufacturers:
1. Hohmann & Barnard, Inc; X-Seal Anchor: www.h-b.com/#sle.
2. Masonry Reinforcing Corporation of America: www.wirebond.com
3. Heckmann Building Products, Inc.: http://www.heckmannbuildingprods.com/

B. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi), deformed billet bars; galvanized.

C. Single Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss or ladder.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.

D. Adjustable Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Ladder, with adjustable ties or tabs spaced at 16 in on center.
2. Material: ASTM A1064/A1064M steel wire, hot dip galvanized after fabrication to ASTM A153/A153M Class B.
3. Size: 0.1483 inch side rods with 0.1483 inch cross rods and adjustable components of 0.1483 inch inch wire, width of components as required to provide not less than 5/8 inch of mortar coverage from each masonry face.
4. Vertical adjustment: Not more than 2 inches.
5. Insulation Clips: Provide clips at tabs or ties designed to secure insulation against outer face of inner wythe of masonry.

E. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch of mortar coverage from masonry face.

F. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
1. Anchor plates: Not less than 0.075 inch thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
2. Wire ties: Manufacturer's standard shape, 0.1875 inch thick.
3. Vertical adjustment: Not less than 3-1/2 inches.

2.5 FLASHINGS

2.6 LINTELS

A. Precast Concrete Lintels: Precast or formed-in-place concrete lintels complying with requirements in Section 03 30 00 "Cast-in-Place Concrete" and with reinforcing bars indicated.

B. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam CMUs matching adjacent CMUs in color, texture, and density classification, with reinforcing bars placed as indicated and filled with coarse grout (entire height of lintel to be filled in one pour). Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

C. Brickwork Support System: Offset steel relief angles or lintels with hanger brackets for support of brickwork above horizontal masonry joints and openings to allow insulation to span continuously behind brick and eliminate continuous thermal bridges associated with support systems that interrupt continuous insulation.

2.7 MORTAR AND GROUT MIXING

A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
   1. Exterior, loadbearing masonry: Type S.
   2. Exterior, non-loadbearing masonry: Type S.
   3. Interior, loadbearing masonry: Type S.
   4. Interior, non-loadbearing masonry: Type S.
   5. Masonry veneer: Type N
   6. For other applications where a type is not listed use Type S

B. Grout: ASTM C476; consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive masonry.

B. Verify that related items provided under other sections are properly sized and located.

C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

D. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.

3.2 PREPARATION

A. Direct and coordinate placement of metal anchors supplied for installation under other sections.

B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.3 COLD AND HOT WEATHER REQUIREMENTS

A. Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

3.4 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Concrete Masonry Units:
   1. Bond: Running.
   2. Coursing: One unit and one mortar joint to equal 8 inches.
   3. Mortar Joints: Concave.

D. Brick Units:
   1. Bond: Running.
   2. Coursing: Three units and three mortar joints to equal 8 inches.
   3. Mortar Joints: Concave.

3.5 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

B. Lay hollow masonry units with face shell bedding on head and bed joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Remove excess mortar and mortar smears as work progresses.

D. Remove excess mortar with water repellent admixture promptly. Do not use acids, sandblasting or high pressure cleaning methods.

E. Interlock intersections and external corners, except for units laid in stack bond.

F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.

G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

H. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.

I. Isolate masonry partitions from vertical structural framing members with a control joint as indicated.

J. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

3.6 WEEPS/CAVITY VENTS

A. Install weeps in veneer and cavity walls at 24 inches on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

B. Install cavity vents in veneer and cavity walls at 24 inches on center horizontally below shelf angles and lintels and near top of walls.

3.7 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

B. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.

C. Install cavity mortar control panels continuously throughout full height of exterior masonry cavities during construction of exterior wythe, complying with manufacturer's installation instructions.

D. Install cavity mortar diverter at base of cavity and at other flashing locations as recommended by manufacturer to prevent mortar droppings from blocking weep/cavity vents.

3.8 REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY

A. ~~Unless otherwise indicated on drawings or specified under specific wall type, tall horizontal joint reinforcement ____ inches on center.~~Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.

B. ~~Unless otherwise indicated on drawings or specified under specific wall type, tall horizontal joint reinforcement ____ inches on center.~~Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.

C. Place masonry joint reinforcement in first horizontal joints above and below openings. Extend minimum 12 inches each side of opening.

D. Place continuous joint reinforcement in first and second joint below top of walls.

E. Embed longitudinal wires of joint reinforcement in mortar joint with at least 5/8 inch mortar cover on each side.

F. Lap joint reinforcement ends minimum 6 inches.

G. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches horizontally and 24 inches vertically.

H. Embed ties and anchors in mortar joint and extend into masonry unit a minimum of 1-1/2 inches with at least 5/8 inch mortar cover to the outside face of the anchor.

3.9 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

A. Masonry Back-Up: Embed anchors to bond veneer at maximum 16 inches on center vertically and 24 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.

B. Stud Back-Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 18 inches on center vertically and 24 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.

3.10 REINFORCEMENT AND ANCHORAGES - MULTIPLE WYTHE UNIT MASONRY

A. Use individual metal ties installed in horizontal joints to bond wythes together. Provide ties spaced as indicated on drawings.

B. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.

3.11 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
   1. Extend flashings full width at such interruptions and at least 6 inches, minimum, into adjacent masonry or turn up flashing ends at least 6 inches, minimum, to form watertight pan at nonmasonry construction.
   2. Remove or cover protrusions or sharp edges that could puncture flashings.
   3. Seal lapped ends and penetrations of flashing before covering with mortar.

B. Terminate flashing up 8 inches minimum on vertical surface of backing:
   1. Install vertical leg of flashing behind water-resistive barrier sheet over backing.

C. Install flashing in accordance with manufacturer's instructions and BIA Technical Notes No. 7.

D. Extend metal flashings to within 1/4 inch of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.

E. Lap end joints of flashings at least 4 inches, minimum, and seal watertight with flashing sealant/adhesive.

3.12 LINTELS

A. Install loose steel lintels over openings where indicated.

B. Install reinforced unit masonry lintels over openings where shown and where openings of more than 12 inches for brick-size units and 24 inches for block-size units are shown without structural steel or other supporting lintels.

C. Maintain minimum 8 inch bearing on each side of opening unless otherwise noted.

D. Install thermal brick support system in accordance with manufacturer’s instructions at locations indicated on drawings

3.13 GROUTED COMPONENTS

A. Reinforce bond beams with 2, No. 5 bars, 1 inch from bottom web.

B. Lap splices minimum 24 bar diameters.

C. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.

D. Place and consolidate grout fill without displacing reinforcing.

E. At bearing locations, fill masonry cores with grout for a minimum 24 inches either side of opening.

3.14 CONTROL AND EXPANSION JOINTS

A. Do not continue horizontal joint reinforcement through control or expansion joints.

B. Form control joint with a sheet building paper bond breaker fitted to one side of the hollow contour end of the block unit. Fill the resultant core with grout fill. Rake joint at exposed unit faces for placement of backer rod and sealant.

C. Size control joints as indicated on drawings; if not indicated, 3/4 inch wide and deep.

D. Form expansion joints in brick as follows:
   1. Build flanges of metal expansion strips into masonry. Lap each joint 4 inches in direction of water flow. Seal joints below grade and at junctures with horizontal exapsion joints if any.
   2. Build flanges of factory-fabricated, expansion joints in masonry
   3. Build in compressible joint fillers where indicated.
   4. Form open joint full depth of brick wythe and of width indicated, but not less than 3/8 inch for installation of sealant and backer rod specified in Section 07 92 00 "Joint Sealants"

E. Provide horizontal, pressure-reliving joints by either leaving an airspace or inserting a compressible filler of width required for installing sealant and backer rod specified in Section 07 92 00 "Joint Sealants", but not less than 3/8 inch.
   1. Locate horizontal, pressure-releaving joints beneath shelf angles supporting masonry.

3.15 BUILT-IN WORK

A. As work progresses, install built-in metal door frames, glazed frames, anchor bolts, and plates and other items to be built into the work and furnished under other sections.

B. Install built-in items plumb, level, and true to line.

3.16 TOLERANCES

A. Install masonry within the site tolerances found in TMS 402/602.

B. Maximum Variation from Alignment of Columns: 1/4 inch.

C. Maximum Variation From Unit to Adjacent Unit: 1/16 inch.

D. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.

E. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.

F. Maximum Variation from Level Coursing: 1/4 inch in 10 ft; 3/8 inch in 20 ft.

G. Maximum Variation of Mortar Joint Thickness: Bed joint, minus 1/8 inch, plus 1/8 inch with maximum thickness of 1/2 inch.

3.17 CUTTING AND FITTING

A. Cut and fit for chases. Coordinate with other sections of work to provide correct size, shape, and location.

B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.18 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

B. Concrete Masonry Unit Tests: Test each variety of concrete unit masonry in accordance with ASTM C140/C140M for compliance with requirements of this specification.

C. Mortar Tests: Test each type of mortar in accordance with ASTM C780, testing with same frequency as masonry samples.

3.19 CLEANING

A. Remove excess mortar and mortar droppings.

B. Replace defective mortar. Match adjacent work.

C. Clean soiled surfaces with cleaning solution.

3.20 PROTECTION

A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION

SECTION 05 21 00 - STEEL JOIST FRAMING

(ADDENDUM 001)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Open web steel joists and shear stud connectors, with bridging, attached seats and anchors.

B. Loose bearing members, such as plates or angles, and anchor bolts for site placement.

C. Supplementary framing for roof openings greater than 18 inches.

1.2 RELATED REQUIREMENTS

A. Section 05 12 00 - Structural Steel Framing: Grouting base plates and bearing plates. Superstructure framing.

B. Section 05 12 00 - Structural Steel Framing: Superstructure framing.

C. Section 05 31 00 - Steel Decking: Bearing plates and angles.

D. Section 05 50 00 - Metal Fabrications: Non-framing steel fabrications attached to joists.

1.3 REFERENCE STANDARDS

A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.

B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

C. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength.

D. ASTM A563/A563M - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric).

E. ASTM E94/E94M - Standard Guide for Radiographic Examination Using Industrial Radiographic Film.

F. ASTM E165/E165M - Standard Practice for Liquid Penetrant Testing for General Industry.

G. ASTM E709 - Standard Guide for Magnetic Particle Testing.

H. ASTM F436/F436M - Standard Specification for Hardened Steel Washers Inch and Metric Dimensions.

I. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength.

J. AWS D1.1/D1.1M - Structural Welding Code - Steel.

K. RCSC (HSBOLT) - Specification for Structural Joints Using High-Strength Bolts; Research Council on Structural Connections.

L. SJI 100 - Standard Specifications for K-Series, LH-Series, and DLH-Series Open Web Steel Joists, and for Joist Girders.

M. SJI Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders.

N. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer.

O. SSPC-SP 2 - Hand Tool Cleaning.

~~UL (FRD) - Fire Resistance Directory.~~

1.4 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate standard designations, joist coding, configurations, sizes, spacings, cambers, locations of joists, joist leg extensions, bridging, connections, and attachments.

C. Fabricator's Qualification Statement.

D. Erector's Qualification Statement.

1.5 QUALITY ASSURANCE

A. Design connections not detailed on drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located.

B. Perform Work, including that for headers and other supplementary framing, in accordance with SJI 100 Standard Specifications Load Tables and SJI Technical Digest No. 9.

~~Design and Installation Requirements: Comply with UL (FRD) Assembly Design No. _____.~~

C. Erector Qualifications: Company specializing in performing the work of this section with minimum 5 years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Transport, handle, store, and protect products to SJI requirements.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Steel Joists:
   1. New Millennium Building Systems: www.newmill.com/#sle.
   2. Nucor-Vulcraft Group: www.vulcraft.com/#sle.

2.2 MATERIALS

A. Open Web Joists: SJI Type K Joists:
   1. Minimum End Bearing on Steel Supports: Comply with referenced SJI standard. Min 2-1/2 inches.
   2. Minimum End Bearing on Concrete or Masonry Supports: Comply with referenced SJI standard. Min 4 inches.
   3. Finish: Shop primed, unless otherwise noted.

B. Anchor Bolts, Nuts and Washers: ASTM A307 hot-dip galvanized per ASTM A153/A153M Class C.

C. High-Strength Structural Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, with matching compatible ASTM A563/A563M nuts and ASTM F436/F436M washers.

D. Tension Control Bolts: Twist-off type; ASTM F3125/F3125M.

E. Structural Steel For Supplementary Framing and Joist Leg Extensions: ASTM A36/A36M.

F. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

G. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

2.3 FINISH

A. Shop prime joists as specified.
   1. Do not prime surfaces that will be fireproofed.

B. Prepare surfaces to be finished in accordance with SSPC-SP 2.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions prior to beginning work.

B. Verify that all materials may be installed in accordance with all pertinent codes and regulations, the original design, and the referenced standards.

C. Discrepancies:

1. In the event of discrepancy, immediately notify the Construction Manager.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 ERECTION

A. Erect joists with correct bearing on supports.

B. Allow for erection loads. Provide sufficient temporary bracing to maintain framing safe, plumb, and in true alignment.

C. Coordinate the placement of anchors for securing loose bearing members furnished as part of the work of this section.

D. After joist alignment and installation of framing, field weld joist seats to steel bearing surfaces.

E. Install supplementary framing for roof openings greater than 18 inches.

F. Do not permit erection of decking until joists are braced, bridged, and secured or until completion of erection and installation of permanent bridging and bracing.

G. Do not field cut or alter structural members without approval of joist manufacturer.

H. After erection, prime welds, damaged shop primer, damaged galvanizing, and surfaces not shop primed , except surfaces specified not to be primed.

3.3 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch.

B. Maximum Offset From True Alignment: 1/4 inch.

3.4 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

B. High-Strength Bolts: Provide testing and verification of field-bolted connections in accordance with RCSC (HSBOLT) "Specification for Structural Joints Using High-Strength Bolts", testing at least 10 percent or 2 bolts at each connection.
   1. Verify high strength bolts used are A325 or A490
   2. Require that contact surfaces be tight for bearing connection.
   3. Require that slip critical connections be tightened by the Turn-of-the-Nut method and witness erectors tensioning method.
   4. Torch Cutting of holes to correct misalignment is not allowed
   5. Visually check bolts for proper length, size, and grade.

C. Perform a cursory inspection of open web steel joists and joist girders for damage, proper anchorage and bridging installation.

D. Welded Connections: Per AWS D1.1
   1. Visually inspect all field-welded connections.
   2. Periodically inspect single-pass fillet welds 5/16 inches or less.
   3. Continuously inspect single-pass fillet welds greater than 5/16 inches.
   4. Continuously inspect multi-pass fillet welds.
   5. Continuously inspect complete and partial penetration groove welds.

E. Welded Connections: Visually inspect all field-welded connections and test at least 10 percent of welds using one of the following:
   1. Radiographic testing performed in accordance with ASTM E94/E94M.
   2. Ultrasonic testing performed in accordance with ASTM E164.
   3. Liquid penetrant inspection performed in accordance with ASTM E165/E165M.
   4. Magnetic particle inspection performed in accordance with ASTM E709.

F. Comply with Code - Building or Municipal building inspection code requirements and special inspections if applicable.

END OF SECTION

SECTION 07 53 00 - ELASTOMERIC MEMBRANE ROOFING

ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Elastomeric roofing membrane application.

B. Deck sheathing.

C. Cover boards.

1.2 RELATED REQUIREMENTS

A. Section 05 31 00 - Steel Decking: Placement of acoustical insulation for deck flutes.

B. Section 06 10 00 - Rough Carpentry: Wood cant strips.

1.3 REFERENCE STANDARDS

A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.

B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.

C. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane.

D. FM DS 1-28 - Wind Design.

E. NRCA (WM) - The NRCA Waterproofing Manual.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all affected installers; review preparation and installation procedures and coordination and scheduling necessary for related work.

1.5 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, surfacing, and fasteners.

C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.

D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

E. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.

F. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.

G. Manufacturer's qualification statement.

H. Installer's qualification statement.

I. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact.

B. Store materials in weather protected environment, clear of ground and moisture.

C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

D. Protect foam insulation from direct exposure to sunlight.

1.8 FIELD CONDITIONS

A. Do not apply roofing membrane during unsuitable weather.

B. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

D. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

1.9 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Correct defective work within a two year period after Date of Substantial Completion.

C. Provide 20 year manufacturer's material and labor warranty to cover failure to prevent penetration of water.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. EPDM Membrane Materials:
   1. Carlisle SynTec Systems; Sure-Seal EPDM: www.carlisle-syntec.com/#sle.
   2. Elevate; Low Slope Fire Retardant (LSFR) RubberGard EPDM Membrane: www.holcimelevate.com/#sle.

2.2 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Membrane: Ethylene-propylene-diene-monomer (EPDM); externally reinforced with fabric; complying with minimum properties of ASTM D4637/D4637M.
   1. Thickness: 60 mil, 0.060 inch, minimum.
   2. Sheet Width: 76 inches, maximum; factory fabricate into widest possible sheets.
   3. Color: Black.

B. Seaming Materials: As recommended by membrane manufacturer.

C. Flexible Flashing Material: Same material as membrane.

2.3 DECK SHEATHING

2.4 COVER BOARDS

A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
   1. Thickness: 5/8 inch, Type X, fire-resistant.
   2. Products:
      a. Georgia-Pacific; DensDeck Prime Roof Boards with EONIC Technology: www.densdeck.com/#sle.

2.5 INSULATION

A. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
   1. Classifications:

a. Type II: Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.
   1) Class 1 - Faced with glass fiber reinforced cellulosic facers on both major surfaces of the core foam.
   2) Compressive Strength: Classes 1-2-3, Grade 2 - 20 psi (138 kPa), minimum.
   3) Thermal Resistance, R-value: At 1-1/2 inches thick; Class 1, Grades 1-2-3 - 8.4 (1.48) at 75 degrees F.

2. Board Size: 48 by 96 inches.
3. Board Thickness: (2) staggered layers of 2.6 inches each for 5.2 inches total (R 30 Minimum total).
4. Products:
   a. Elevate; ISO 95+: www.holcimelevate.com/#sle.
   b. Carlisle; InsulBase; www.carlisle-syntec.com/#sle.

2.6 ACCESSORIES

A. Cant and Edge Strips: Wood fiberboard, compatible with roofing materials ; cants formed to 45 degree angle.

B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.

C. Membrane Adhesive: As recommended by membrane manufacturer.

D. Insulation Adhesive: As recommended by insulation manufacturer.

E. Walkway Pads: Suitable for maintenance traffic, contrasting color or otherwise visually distinctive from roof membrane.
   1. Composition: Asphaltic with mineral granule surface.
   2. Surface Color: White.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces and site conditions are ready to receive work.

B. Verify deck is supported and secure.

C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.

D. Verify deck surfaces are dry and free of snow or ice.

E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.2 PREPARATION - METAL DECK

A. Install deck sheathing on metal deck.
   1. Lay with long side at right angle to flutes; stagger end joints; provide support at ends.
   2. Cut sheathing cleanly and accurately at roof breaks and protrusions to provide smooth surface.
   3. Tape joints.

B. Mechanically fasten sheathing to roof deck, in accordance with Factory Mutual recommendations and roofing manufacturer's instructions.
   1. Over entire roof area, fasten sheathing using six fasteners with washers per sheathing board.

3.3 INSTALLATION - MEMBRANE

A. Install elastomeric membrane roofing system in accordance with manufacturer's recommendations and NRCA (WM) applicable requirements.

B. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.

C. Shingle joints on sloped substrate in direction of drainage.

D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches. Seal permanently waterproof. Apply uniform bead of sealant to joint edge.

E. At intersections with vertical surfaces:
   1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
   2. Fully adhere flexible flashing over membrane and up to nailing strips.

F. Around roof penetrations, seal flanges and flashings with flexible flashing.

G. Coordinate installation of roof drains and sumps and related flashings.

3.4 CLEANING

A. See Section 01 70 00 - Execution and Closeout Requirements for additional requirements.

B. Remove bituminous markings from finished surfaces.

C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and comply with their documented instructions.

D. Repair or replace defaced or damaged finishes caused by work of this section.

3.5 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION

SECTION 07 71 23 - MANUFACTURED GUTTERS AND DOWNSPOUTS

ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pre-finished aluminum gutters and downspouts.

1.2 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. SMACNA (ASMM) - Architectural Sheet Metal Manual.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Comply with SMACNA (ASMM) for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.

B. Comply with applicable code for size and method of rain water discharge.

1.4 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on prefabricated components.

C. Shop Drawings: Indicate locations, configurations, jointing methods, fastening methods, locations, and installation details.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.

B. Prevent contact with materials that could cause discoloration, staining, or damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Gutters and Downspouts:
1. Alside, Inc: www.alside.com/#sle.
2. ATAS International, Inc: www.atas.com/#sle.
3. Cheney Flashing Company: www.cheneyflashing.com/#sle.
4. Drexel Metals Inc: www.drexmet.com/#sle.
5. Hickman Edge Systems; Wind Resistant Gutter: www.hickmanedgesystems.com/#sle.
6. Metal-Era Inc; Seal-Tite WR Gutter: www.metalera.com/#sle.
7. SAF Perimeter Systems, a division of Southern Aluminum Finishing Company, Inc: www.saf.com/persys/#sle.

B. Scupper and Collectors:
1. ATAS International, Inc;[_____]: www.atas.com/#sle.
2. [_____]HICKMAN: https://www.hickmanedgesystems.com/.
3. [_____]METAL-ERA:https://www.metalera.com/ METAL-ERA:https://www.metalera.com/.

2.2 MATERIALS

A. Pre-Finished Galvanized Steel Sheet: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 0.02 inch thick base metal.
1. Finish: Shop pre-coated with modified silicone coating.
2. Color: As selected by Architect from manufacturer's standard colors.

2.3 COMPONENTS

A. Gutters: CDA rectangular style profile.

B. Downspouts: CDA rectangular profile.

C. Anchors and Supports: Profiled to suit gutters and downspouts.
   1. Anchoring Devices: In accordance with CDA requirements.
   2. Gutter Supports: Brackets.
   3. Downspout Supports: Brackets.

D. Fasteners: Same material and finish as gutters and downspouts, with soft neoprene washers.

2.4 FABRICATION

A. Form gutters and downspouts of profiles and size indicated.

B. Fabricate with required connection pieces.

C. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints.

D. Hem exposed edges of metal.

E. Fabricate gutter and downspout accessories; seal watertight.

2.5 ACCESSORIES

A. Splash Pads: Precast concrete type, profiles size(s) as indicated; minimum 3,000 psi compressive strength at 28 days, with minimum 5 percent air entrainment.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that surfaces are ready to receive work.

3.2 PREPARATION

A. Paint concealed sheet metal surfaces and surfaces in contact with dissimilar metals with protective backing paint to a minimum dry film thickness of 15 mil, 0.015 inch.

3.3 INSTALLATION

A. Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.

B. Sheet Metal: Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts and accessories.

C. Slope gutters .05 inch per foot , .2 percent minimum.

D. Connect downspouts to storm sewer system. Grout connection watertight.

END OF SECTION

WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

215 E. PARKWAY DRIVE
CAMBRIDGE CITY, INDIANA

BIDS & CONSTRUCTION
01.06.2025
GMB PROJECT # 5-6394

VICINITY MAP

CIVIL ENGINEER

JPS CONSULTING ENGINEERS
9635 COUNSELORS ROW, SUITE 116
INDIANAPOLIS, IN 46240
P. 317.617.4240
WWW.JPSCONSULTINGENGINEERS.COM

OWNER'S REPRESENTATIVE

MAZE DESIGN, INC.
2601 NATIONAL ROAD WEST
RICHMOND, IN 47374
765.962.1300
DI@MAZEDESIGNINC.COM

OWNER

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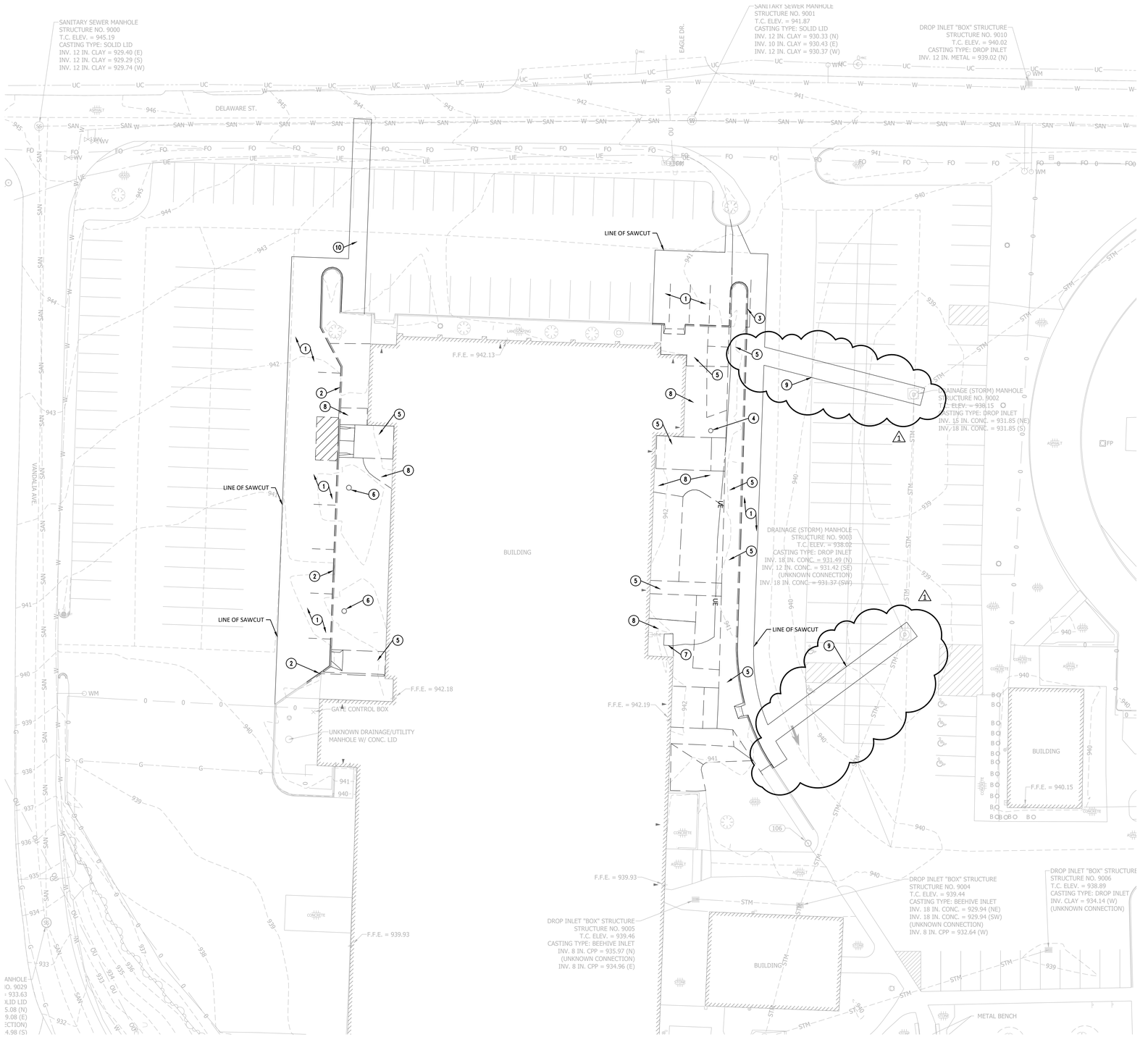

○ PLAN NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT COMPLETE. MAKE STRAIGHT SAW-CUT AT TERMINATION.
2. REMOVE EXISTING CONCRETE CURB COMPLETE. MAKE STRAIGHT SAW-CUT AT TERMINATION.
3. REMOVE EXISTING CONCRETE WALK AND CURB COMPLETE. MAKE STRAIGHT SAW-CUT AT NEXT ADJACENT JOINT.
4. REMOVE EXISTING PLANTINGS COMPLETE.
5. REMOVE EXISTING CONCRETE WALK COMPLETE.
6. REMOVE EXISTING LIGHT COMPLETE.
7. RELOCATE TRANSFORMER.
8. REMOVE GRAVEL.
9. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AS NEEDED TO INSTALL STORM SEWER LINE. PATCH ASPHALT AND RESTORE AREA BACK TO ORIGINAL CONDITION AFTER STORM LINE IN INSTALLED AND OPERATIONAL.
10. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AS NEEDED TO INSTALL SANITARY SEWER LINE. PATCH ASPHALT AND RESTORE AREA BACK TO ORIGINAL CONDITION AFTER SANITARY LATERAL IS INSTALLED AND OPERATIONAL.

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

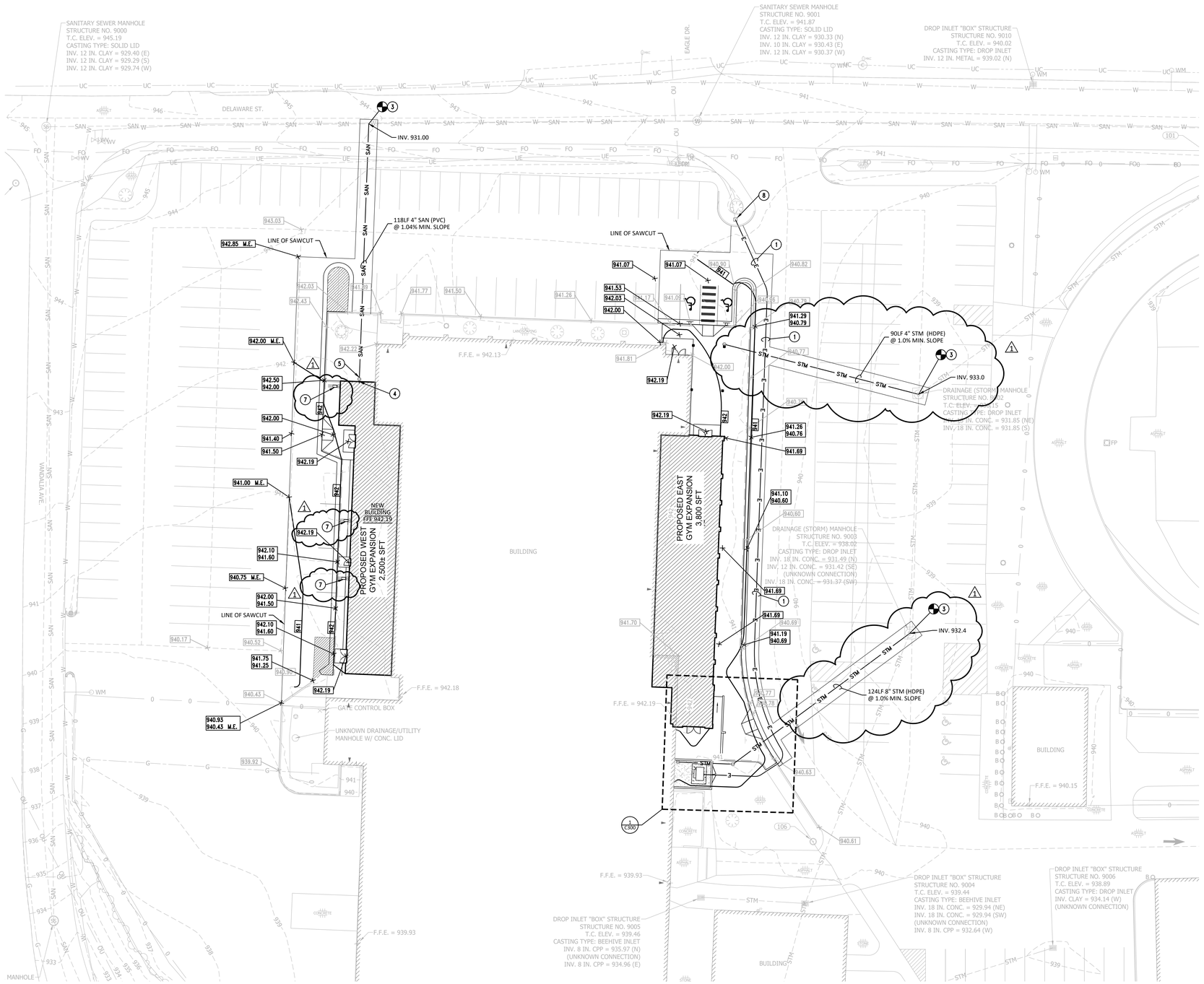
ISSUANCES

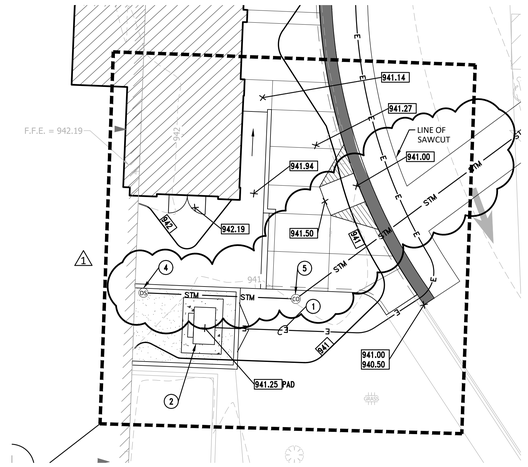
01.06.2025	BIDS & CONSTRUCTION
01.16.2025	ADDENDUM #1

DRAWN	CLM
REVIEWED	ADS
PROJECT NO.	5-6394

SITE DEMOLITION SHEET

C1.01





1 ENLARGEMENT
SCALE: 1"=10'

GENERAL NOTES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE AND FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. CONTRACTOR SHALL VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING SEWERS PRIOR TO START OF CONSTRUCTION.

C. CONTRACTOR SHALL MAINTAIN A COMPLETE AND OPERABLE UTILITY SYSTEM AT ALL TIMES.

D. CONTRACTOR SHALL INCLUDE COSTS FOR CUTTING AND PATCHING AS REQUIRED IN THEIR BID PROPOSAL TO COMPLETELY INSTALL THE WORK INDICATED.

E. CONTRACTOR SHALL INCLUDE ALL TAP FEES, PERMIT FEES AND APPLICATION FEES IN THEIR BID PROPOSAL AS NECESSARY TO COMPLETELY INSTALL THE WORK INDICATED.

F. INFORMATION SHOWN WAS OBTAINED FROM AN OWNER FURNISHED SITE SURVEY OF EXISTING CONDITIONS AND IS UNCONFIRMED. CONTRACTOR IS REQUIRED TO FIELD VERIFY THIS INFORMATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES SO MODIFICATION CAN BE MADE.

G. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. UTILIZE THE INDIANA UNDERGROUND UTILITY LOCATION SERVICE AT 811 OR 800-382-5544 PRIOR TO ANY EXCAVATION ON THE SITE.

○ PLAN NOTES

1. NEW ELECTRICAL LINE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. NEW TRANSFORMER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER LOCATION, ELEVATION AND SIZE.
4. COORDINATE SIZE, LOCATION AND ELEVATION OF PIPING WITH PLUMBING PLANS.
5. NEW EXTERIOR CLEANOUT.
6. WATER AND SEWER CROSSING, MINIMUM 18" CLEARANCE OR USE CONCRETE CRADLE.
7. NEW SPLASH BLOCK AND RIP RAP AT ALL DOWNSPOUT LOCATIONS.
8. NEW ELECTRICAL MANHOLE. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES	
01.06.2025	BIDS & CONSTRUCTION
01.16.2025	ADDENDUM #1

DRAWN	CLM
REVIEWED	ADS
PROJECT NO.	5-6394

SITE GRADING, DRAINAGE, & UTILITY PLAN

C3.01

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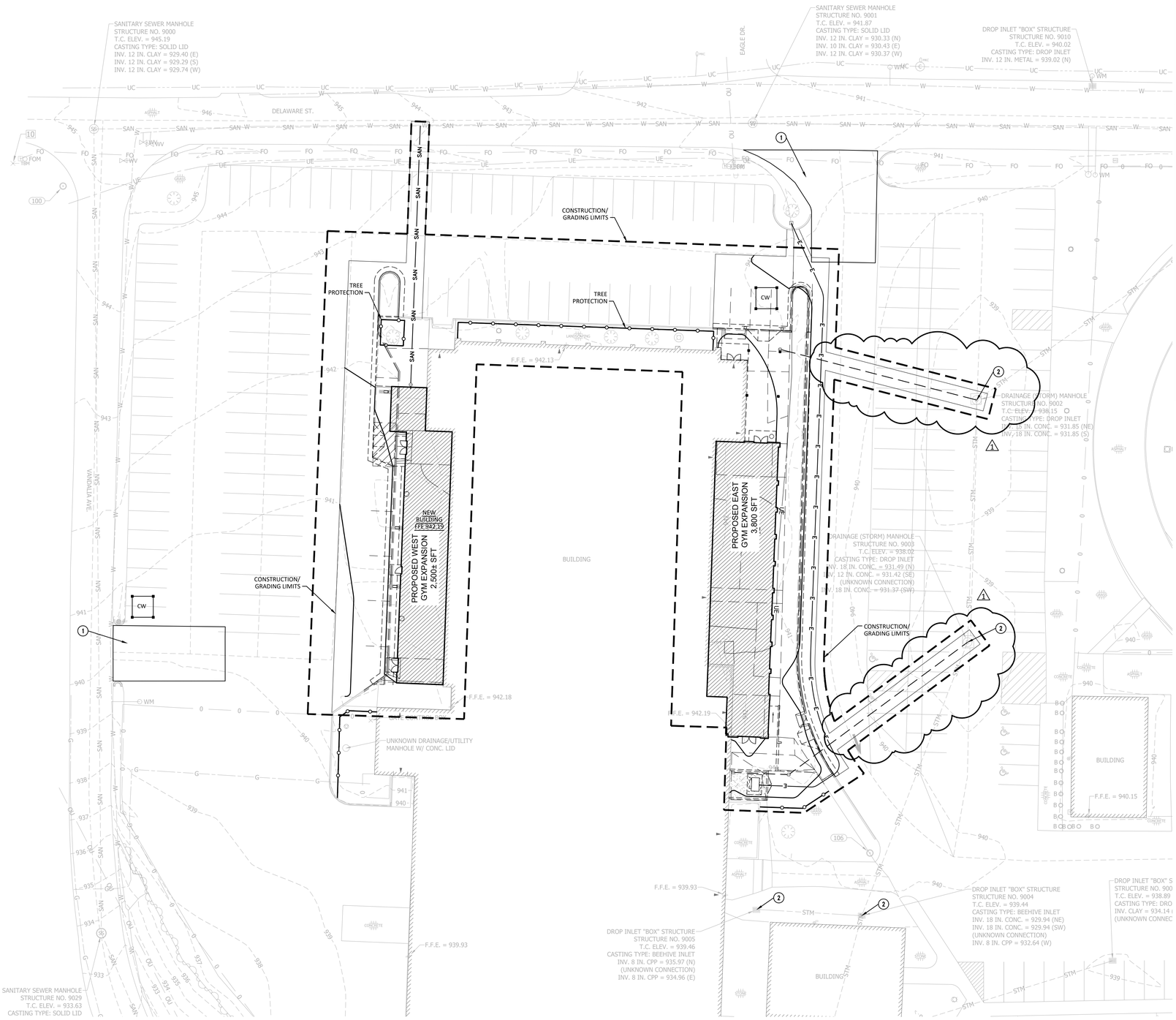

GENERAL NOTES

A. TEMPORARILY SEED ALL DISTURBED AREA.
B. REFER TO LANDSCAPE SHEETS FOR AREAS OF PERMANENT SEEDING AND/OR SOD.
C. REFER TO STORMWATER POLLUTION PREVENTION NOTES AND DETAIL SHEETS.
D. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
E. ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

PLAN NOTES

1. CONSTRUCTION ENTRANCE UTILIZING EXISTING ASPHALT PAVEMENT. CONTRACTOR TO SWEEP AND CLEAN PAVEMENT AS NEEDED TO PREVENT SEDIMENT TRACKING ONTO ADJACENT ROADWAYS.
2. BASKET INLET PROTECTION.

PLAN SYMBOLS

- CW — CONCRETE WASHOUT AREA
- SILT FENCE
- PROPOSED STORM SEWERS
- CONSTRUCTION/GRADING LIMITS
- PROPOSED CONTOURS
- PROPOSED IMPROVEMENTS

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025	BIDS & CONSTRUCTION
01.16.2025	ADDENDUM #1

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PROJECT NO.	5-6394

STORMWATER POLLUTION PREVENTION PLAN

C7.01

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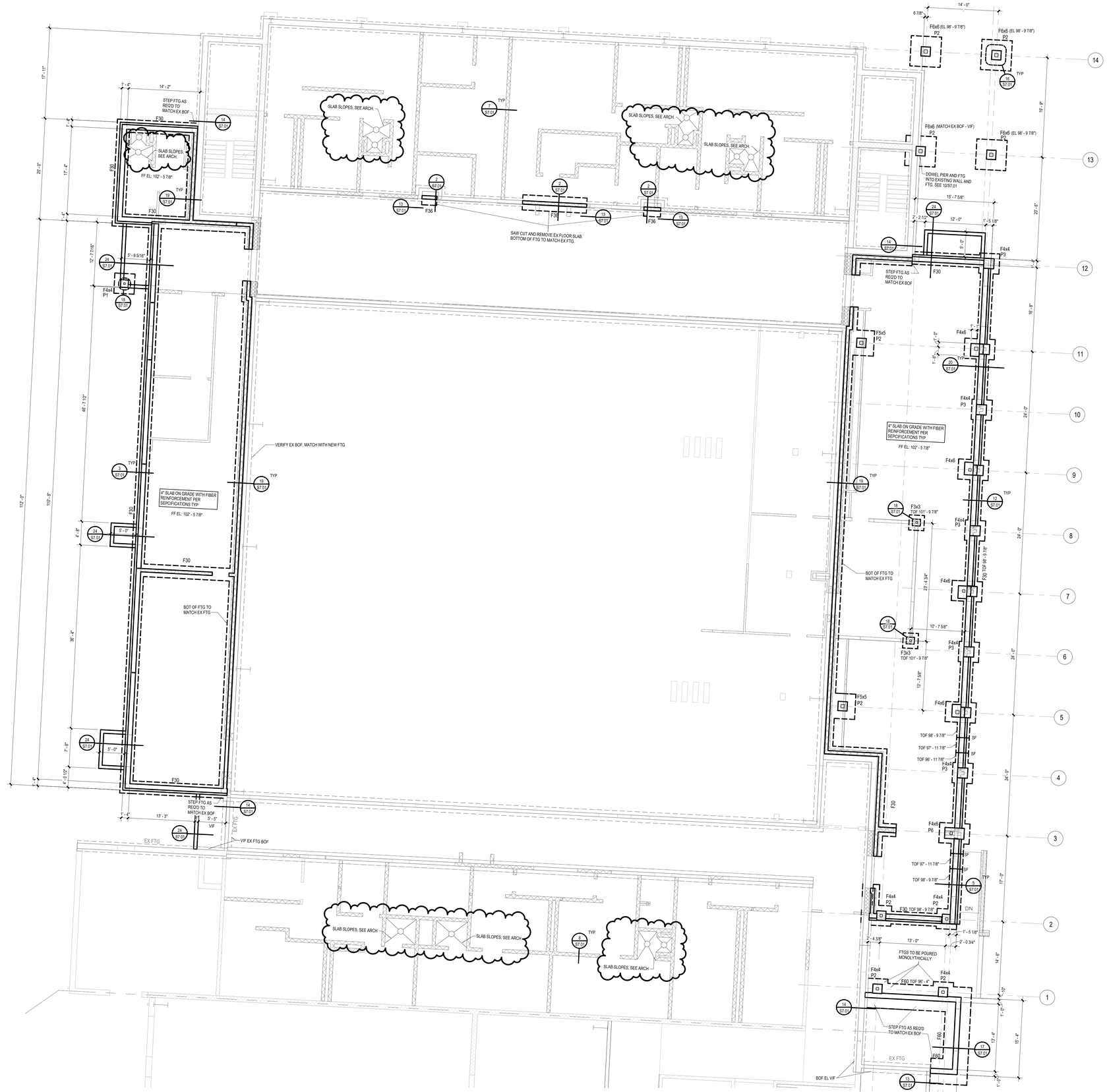
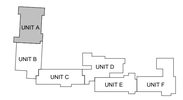


UNIT 'A' FOUNDATION PLAN

1/8" = 1'-0"



KEYPLAN

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION

01.16.2025 ADDENDUM 001

DRAWN SFG

REVIEWED AND

PROJECT NO. 5-6394

UNIT 'A' FOUNDATION PLAN

S2.1A

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394S 2022.rvt
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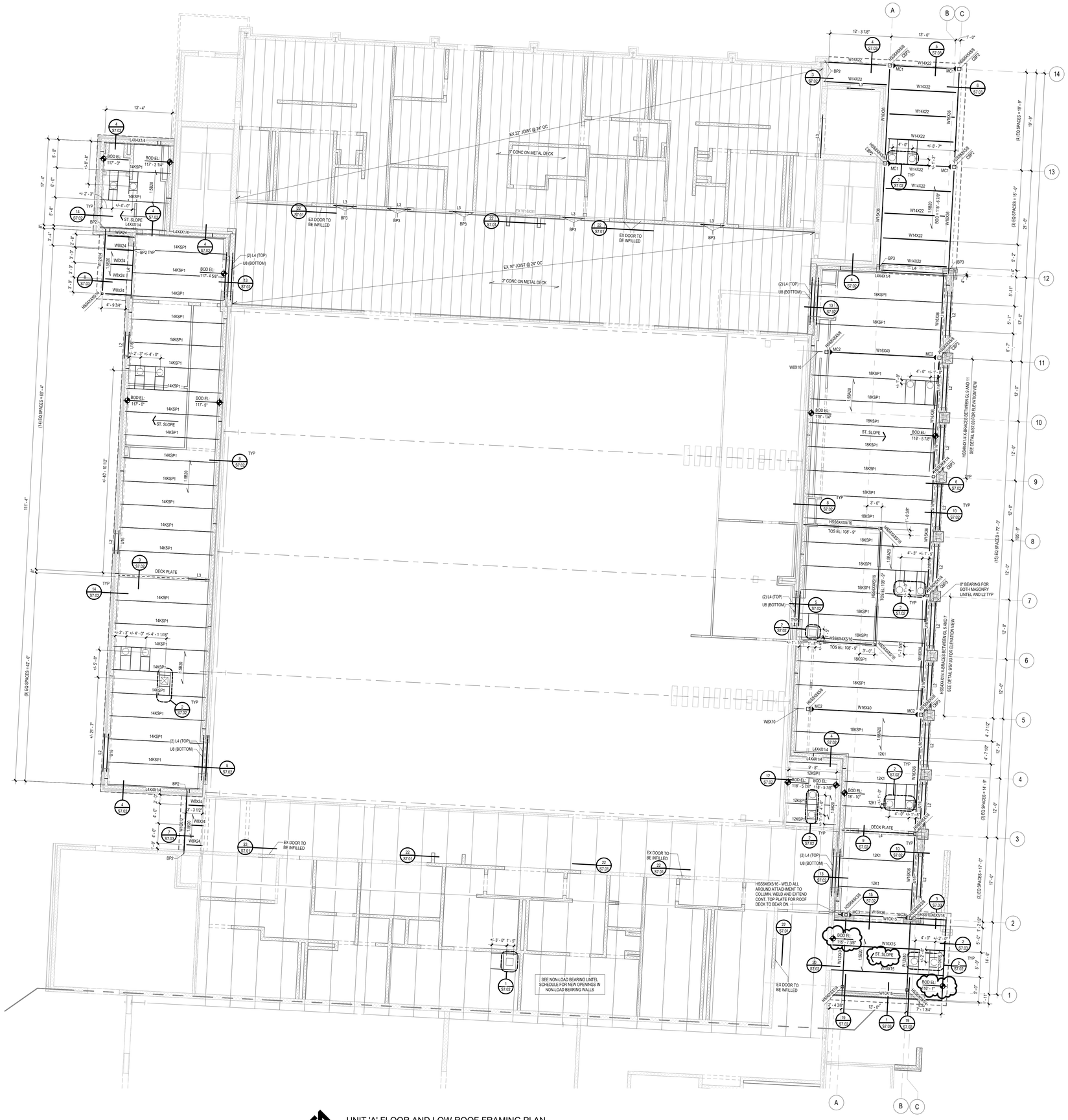

UNIT 'A' FLOOR AND LOW ROOF FRAMING PLAN

1/8" = 1'-0"

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

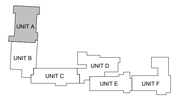
CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN SFG
REVIEWED AND

PROJECT NO. 5-6394



KEYPLAN

UNIT 'A' FLOOR AND LOW ROOF FRAMING PLAN

S3.1A

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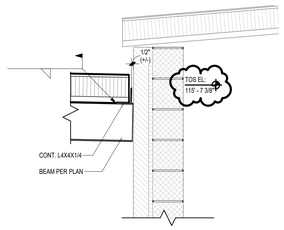
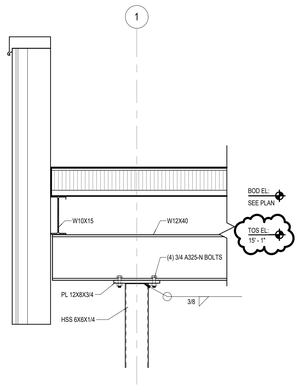
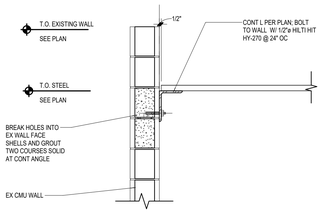


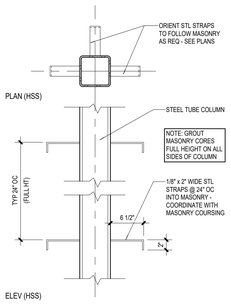
20 S7.02 BEAM CANTILEVER END DETAIL
3/4" = 1'-0"



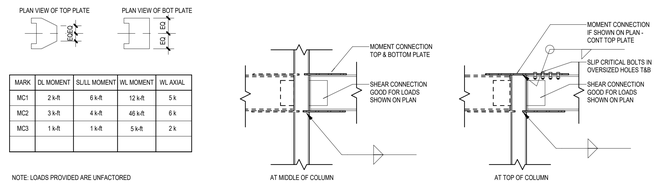
19 S7.02 CANOPY COLUMN BEARING DETAIL
3/4" = 1'-0"



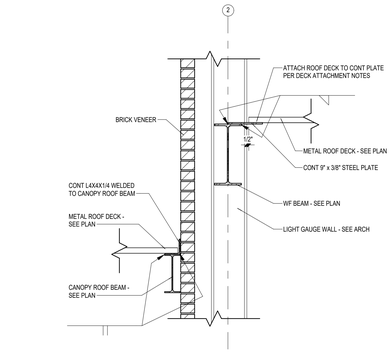
18 S7.02 DECK BEARING ON EXISTING MASONRY
3/4" = 1'-0"



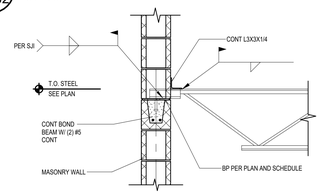
17 S7.02 FRAMING DETAIL
1" = 1'-0"



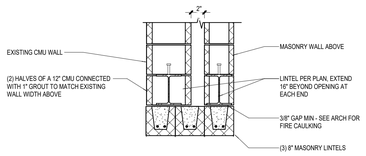
16 S7.02 HSS MOMENT CONNECTION TABLE
1/2" = 1'-0"



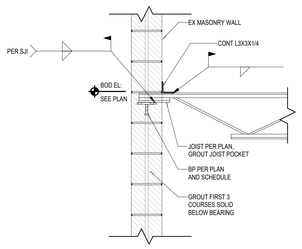
15 S7.02 MOMENT FRAME EDGE DETAIL @ CANOPY
3/4" = 1'-0"



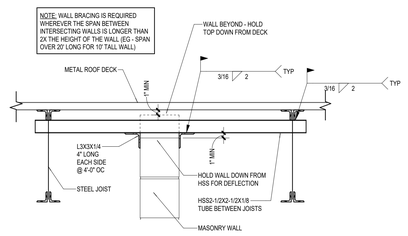
14 S7.02 JOIST BEARING ON MASONRY WALL
3/4" = 1'-0"



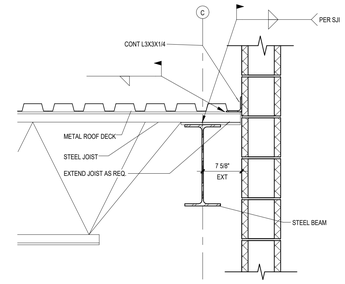
13 S7.02 MODIFIED PORTAL FRAME
3/4" = 1'-0"



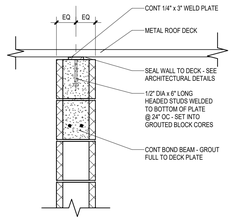
12 S7.02 JOIST BEARING ON EX WALL
3/4" = 1'-0"



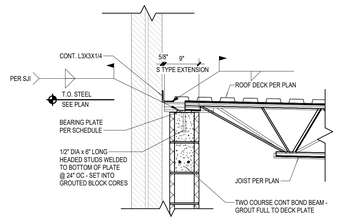
11 S7.02 WALL BRACING DETAIL
1" = 1'-0"



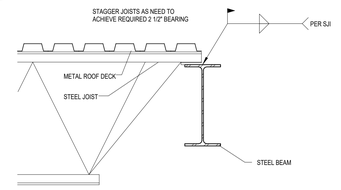
10 S7.02 JOIST BEARING ON BEAM
1" = 1'-0"



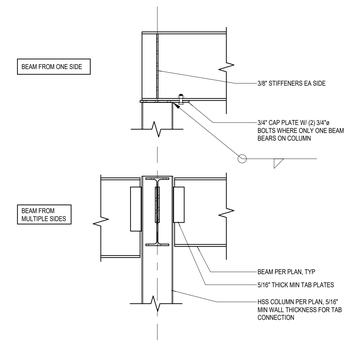
9 S7.02 WALL WELD PLATE DETAIL
1" = 1'-0"



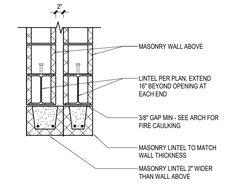
8 S7.02 JOIST BEARING CONDITION
3/4" = 1'-0"



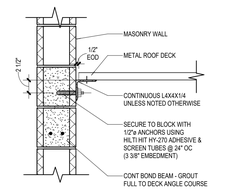
7 S7.02 JOIST BEARING ON BEAM
1" = 1'-0"



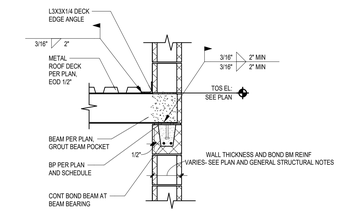
6 S7.02 TYPICAL BEAM AT HSS COLUMN
3/4" = 1'-0"



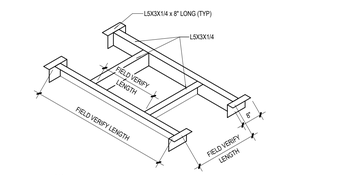
5 S7.02 PORTAL FRAME
3/4" = 1'-0"



4 S7.02 TYPICAL ROOF DECK ANGLE
1" = 1'-0"



3 S7.02 TYPICAL BEAM BEARING
3/4" = 1'-0"

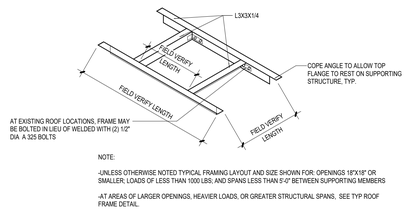


NOTE:

-UNLESS OTHERWISE NOTED TYPICAL FRAMING LAYOUT AND SIZE SHOWN FOR TYPICAL ROOF EQUIPMENT OPENINGS. SEE FRAMING PLAN (& COORD W/ ARCH & MECH PLANS) FOR LOCATIONS.

-AT LARGE OPENINGS, SEE FRAMING PLANS FOR FRAME MEMBER SIZES

2 S7.02 TYPICAL ROOF FRAME DETAIL
1/2" = 1'-0"



NOTE:

-UNLESS OTHERWISE NOTED TYPICAL FRAMING LAYOUT AND SIZE SHOWN FOR: OPENINGS 18"X18" OR SMALLER; LOADS OF LESS THAN 1000 LBS; AND SPANS LESS THAN 5'-0" BETWEEN SUPPORTING MEMBERS

-AT AREAS OF LARGER OPENINGS, HEAVIER LOADS, OR GREATER STRUCTURAL SPANS, SEE TYP ROOF FRAME DETAIL.

1 S7.02 SMALL ROOF FRAME DETAIL
1/2" = 1'-0"

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

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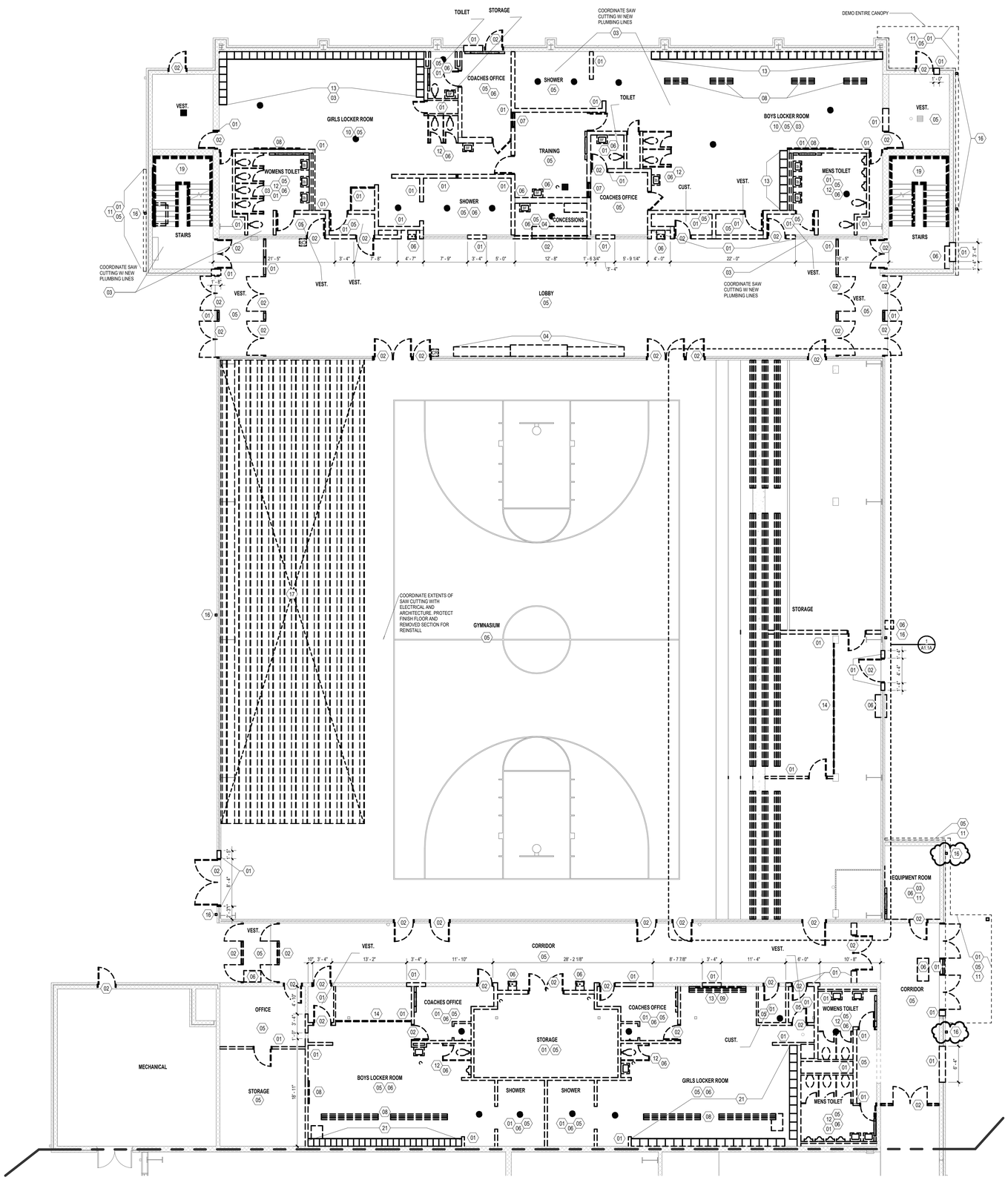
REVIEWED PMB

PROJECT NO. 5-6394

FRAMING DETAILS

S7.02



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

DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
- ALL MASONRY BLOCK AND BRICK WALLS TO BE REMOVED MUST BE TOOTHED TO RECEIVE NEW MASONRY, UNLESS NOTED OTHERWISE ON DRAWINGS.
- DEMOLITION CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED. REFER TO STRUCTURAL & ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL DEMOLITION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE DAMAGED (MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION. FOR NEW OPENINGS IN EXISTING WALLS, COORDINATE NEW LINTELS W/ MASONRY CONTRACTOR.
- PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL LOUVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL W/ CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
- ALL TRADES ARE TO COORDINATE THE REMOVAL OF EXISTING LOOSE EQUIPMENT WITH ARCHITECT AND/OR OWNER. ADDITIONAL EQUIPMENT FOUND THAT IS NOT NOTED ON DEMOLITION PLAN SHALL BE REMOVED AS PART OF GENERAL DEMOLITION AFTER VERIFICATION WITH ARCHITECT/OWNER.

01 REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.

02 REMOVE EXISTING BORROWED LITE OR DOOR & DOOR FRAME. (DOOR LINTEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN - SEE STRUCTURAL FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09 90 00. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.

03 SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB- COORDINATE WITH MECHANICAL/ ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXISTING ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.

04 REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.

05 REMOVE EXISTING SUSPENDED/PLASTER CEILING - INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REFL. CEILING PLANS.

06 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, FIN TUBE, MECH. DUCTWORK, UNIT VENTS, ETC.)

07 REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW: FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.

08 REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.

09 REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.

10 REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBEDS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.

11 REMOVE PORTION OF EXISTING ROOF & STRUCTURE (AS SHOWN ON DEMOLITION PLAN). PROVIDE TEMPORARY WEATHER PROTECTION AS NEEDED AROUND PERIMETER OF ROOF REMOVAL AS REQUIRED. PROVIDE TEMPORARY SHORING & BRACING AS REQUIRED.

12 REMOVE EXISTING TOILET PARTITION, DISPENSERS AND/OR TOILET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.

13 REMOVE EXISTING LOCKERS AND LOCKER BASE. CUT SLOPED LOCKER TOP & BASE AS NECESSARY. RE-USE/RELOCATE EXISTING END PANEL(S) AS REQUIRED. REVISE & PREPARE FOR NEW FINISHES.

14 REMOVE FENCE AND PREP AFFECTED FLOORS AND WALLS FOR NEW FINISHES. SAVE ITEMS AT OWNER'S REQUEST.

15 REMOVE EXISTING WINDOW BLINDS. PREP AFFECTED WALLS FOR NEW FINISHES.

16 REMOVE DOWNSPOUT. CLEAN ADJACENT BRICK.

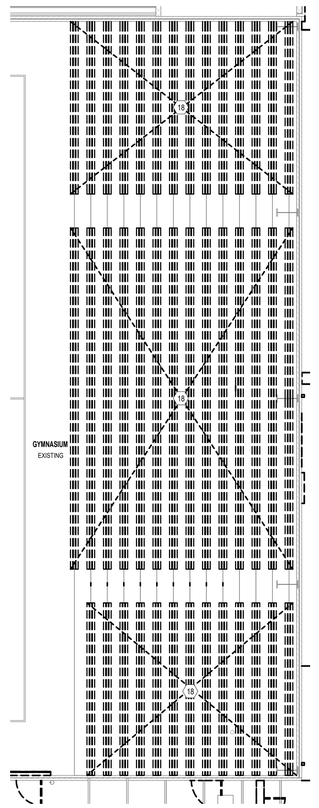
17 REMOVE EXISTING BLEACHER STRUCTURE.

18 REMOVE EXISTING BLEACHER BENCH, AND OTHER FURNISHING ATTACHED TO CONCRETE BLEACHERS. SAVE ITEMS AT OWNER'S REQUEST. PREP FOR INSTALLATION OF NEW BENCHES

19 REMOVE EXISTING RAILING, AND EQUIPMENT ATTACHED TO RAILING AND PREP FOR NEW RAILING AND EQUIPMENT

20 REMOVE AND REPLACE DAMAGED CEILING TILES.

21 REMOVE EXISTING LOCKERS AND ACCESSORIES FOR NEW FINISH AND RE-INSTALLATION. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL INFORMATION



1 A1.1A BLEACHER DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

- EXISTING WALL TO BE DEMOLISHED
- PORTION OF EXISTING WALL TO BE DEMOLISHED
- EXISTING OBJECT TO BE DEMOLISHED
- AREA OF FLOOR CUTTING
- AREA OF CEILING REMOVAL AND REINSTALL
- EXISTING WALLS TO REMAIN
- EXISTING OBJECTS TO REMAIN
- (XX) DEMOLITION TAG: SEE DEMOLITION NOTES
- ROOM NAME / FLOOR FINISH / CEILING FINISH — EXISTING ROOM FINISH INFORMATION: ROOM NAME, FLOORING TYPE, CEILING TYPE

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REVIEWED AGS

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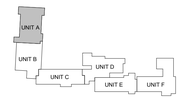
UNIT 'A' FIRST FLOOR DEMOLITION PLAN

A1.1A



KEYPLAN

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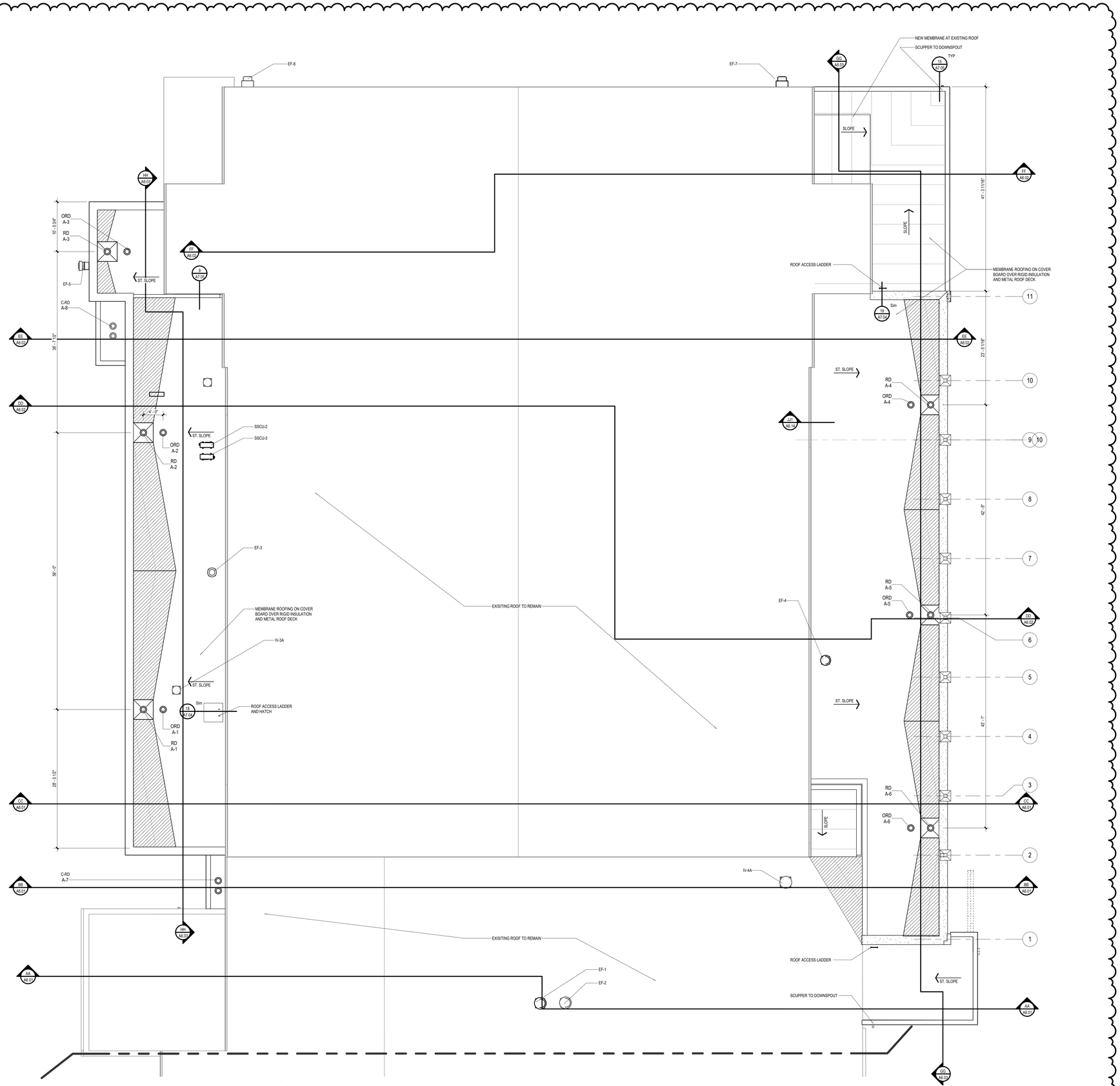

UNIT 'A' ROOF PLAN

1/8" = 1'-0"

LEGEND

- TAPERED RIGID INSULATION (4" - 0" SECTIONS) 1/4" PER FOOT SLOPE UNLESS OTHERWISE NOTED
- TAPERED RIGID INSULATION (4" - 0" SECTIONS @ 1/2" SLOPE PER FOOT AT CRICKETS) CRICKETS SLOPE TO ROOF DRAINS.
- ST. SLOPE — DIRECTION OF STRUCTURAL ROOF SLOPE (SEE STRUCTURAL PLANS FOR ROOF FRAMING SLOPES)
- SLOPE — DIRECTION OF ROOF SLOPE WITH TAPERED INSULATION
- STANDARD ROOF DRAIN
- C-RD-5-1 — ROOF DRAIN LABEL
  - ROOF DRAIN NUMBER
  - ROOF AREA (SEE ROOF KEYPLAN)
  - RD OR ORD
  - C OR NOTHING
- + 7 1/4" — THICKNESS OF TAPERED INSULATION AT PERIMETER OR DRAIN (NOT INCLUDING BASE INSULATION THICKNESS)
- CR#1 — CORE SAMPLE LOCATIONS SEE LEGEND FOR DESCRIPTION
- ROOF HATCH
- ROOF WALKWAY PAD (SEE SPEC. FOR MATERIAL)

GENERAL NOTES

1. ROOF DETAILS - LOCATED ON SHEET A7.04
   - ROOF DRAIN
   - ROOF OVERFLOW DRAIN
   - FASTENING ENHANCEMENT AT CORNER - SEE SPEC AND DETAIL
   - PLUMBING VENT
   - STACK FLASHING
   - METAL COPING SPLICE DETAIL
   - ROOF CURB DETAIL
2. RE-ROOFING EXISTING NAILERS / BLOCKING TO REMAIN: CONTRACTOR TO FIELD VERIFY THE EXISTING NAILERS / BLOCKING WILL COMPLY TO MEET THE WIND UP LIFT CRITERIA. REMOVE ALL DAMAGED NAILERS / BLOCKING AND / OR INSTALL ADDITIONAL FASTENER AS REQUIRED TO COMPLY.
3. REFER TO PLUMBING DRAWINGS FOR LOCATION AND NUMBER OF PLUMBING VENTS THRU ROOF.
4. REFER TO MECHANICAL DRAWINGS TO COORDINATE ALL ROOF PENETRATIONS & LOCATIONS.
5. PROVIDE 1/2" TAPERED CRICKETS AT ALL ROOF HATCHES AND MECHANICAL ROOF PENETRATIONS UNLESS OTHERWISE NOTED. TAPER SHALL PROVIDE DRAINAGE AROUND HATCH AND EQUIPMENT.
6. SEE SPECIFICATION FOR ROOFING SYSTEM TO BE USED AND ROOF PLAN FOR LOCATIONS OF TAPERED INSULATION AND OR SLOPE CHANGES OF ROOF
7. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL SQUARE FOOTAGE VALUES NOTED ON PLANS
8. IN AREAS WHERE EXISTING ROOF DRAINS ARE BEING REPLACED WITH NEW ROOF DRAIN TO BE INSTALLED IN THE EXACT LOCATION OF EXISTING AND WILL BE CONNECTED TO EXISTING PIPING AS REQUIRED.
9. SCUPPER LOCATIONS TO BE COORDINATED SO THAT THEY DO NOT APPEAR OVER DOORS, WINDOWS OR MECHANICAL LOUVERS
10. STANDARD ROOF ABBREVIATIONS
    RD = ROOF DRAIN
    ORD = OVERFLOW ROOF DRAIN
    EF = EXHAUST FAN
    IV = INTAKE VENT
    RTU = ROOF TOP UNIT
    RV = RELIEF VENT

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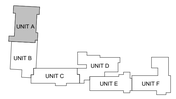

KEYPLAN

UNIT 'A' ROOF PLAN

A2.3A

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394A 2022.rvt
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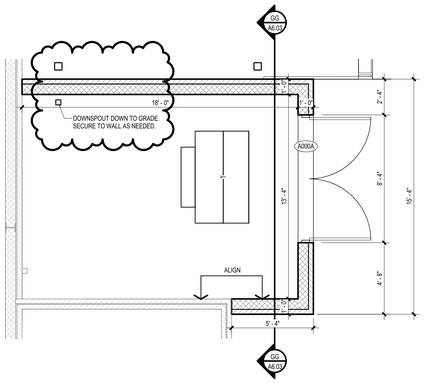
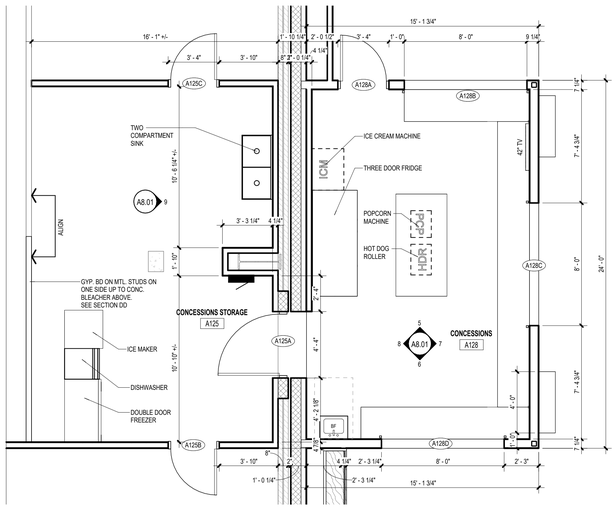
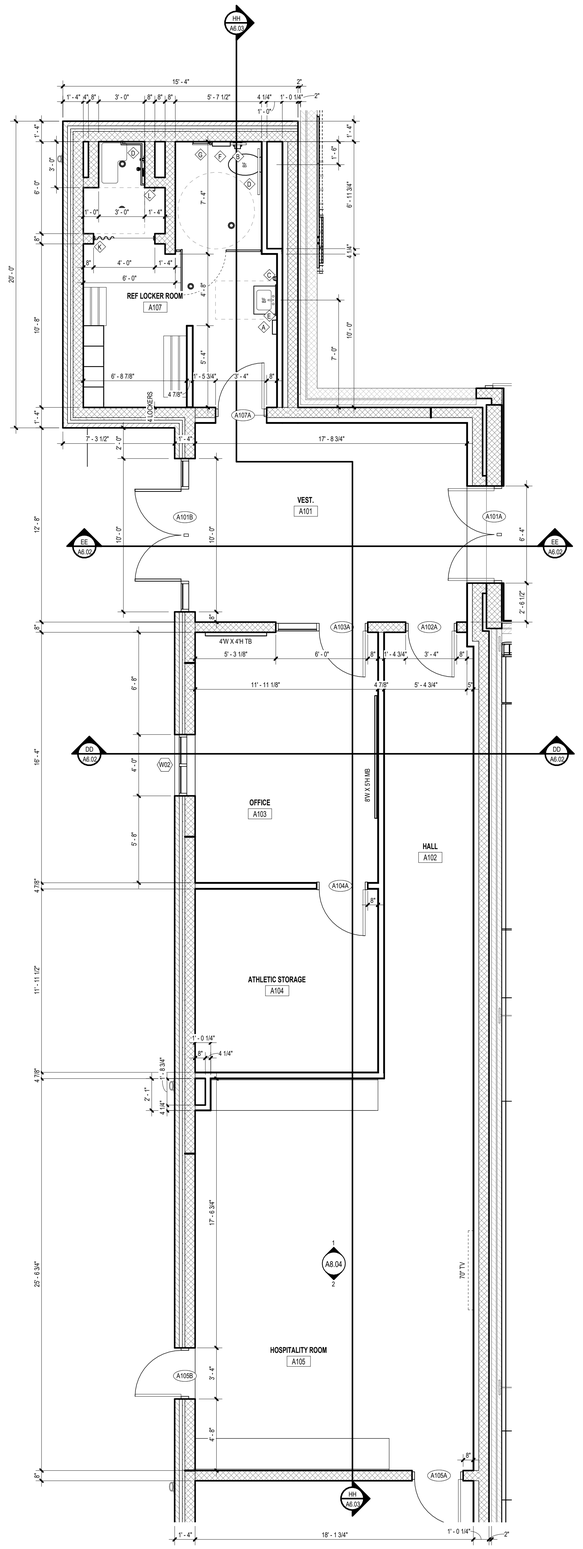


3 / A2.81 ENCLOSURE ENLARGED PLAN
1/4" = 1'-0"



2 / A2.81 UNIT 'A' CONCESSIONS ENLARGED PLAN
1/4" = 1'-0"



1 / A2.81 UNIT 'A' OFFICE AREA ENLARGED PLAN
1/4" = 1'-0"

WALL LEGEND

4 7/8"	5/8" GYP. BOARD BOTH SIDES 3 5/8" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
6 1/8"	2 LAYERS OF 5/8" GYP. BOARD BOTH SIDES 3 5/8" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
7 1/4"	5/8" GYP. BOARD BOTH SIDES 6" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
SEE PLAN	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (8" TYPICAL U.N.O.)
SEE PLAN	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS, BANDING, ETC. (3 5/8" BRICK & 8" CMU TYPICAL U.N.O.)
5' - 0 1/4"	CMU WALL W/ GYP. BD. ON 3 5/8" MTL STUDS. SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS, BANDING, ETC. (8" CMU TYPICAL U.N.O.)
10 1/8"	CMU WALL W/ 5/8" GYP. BOARD ON 1 1/2" HAT CHANNEL. SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN.
2 7/8" OR 1 1/2"	5/8" GYP. BOARD ON HAT CHANNEL REPEATING AT 16" O.C.

-FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN

-DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

TOILET ACCESSORIES LEGEND

(SEE SHEET G0.01 FOR MOUNTING HEIGHTS)
(SEE SPECS)

A PAPER TOWEL DISPENSER	G NAPKIN DISPOSAL (RECESSED)
B TOILET PAPER DISPENSER	H NAPKIN DISPOSAL (WALL MOUNTED)
C SOAP DISPENSER	J BABY CHANGING STATION
D BARRIER FREE GRAB BARS	K SHOWER ROD AND CURTAIN
E 24" x 36" FRAMED GLASS MIRROR	L ROBE HOOK
F NAPKIN DISPENSER (WALL MOUNTED)	M 18" X 36" FRAMED GLASS MIRROR

FLOOR PLAN KEYNOTES

01 TOOTH-IN NEW CMU AND OR BRICK

02 INFILL WITH GYP. & MTL. STUDS

03 4' - 0" TALL BLOCK WALL

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WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

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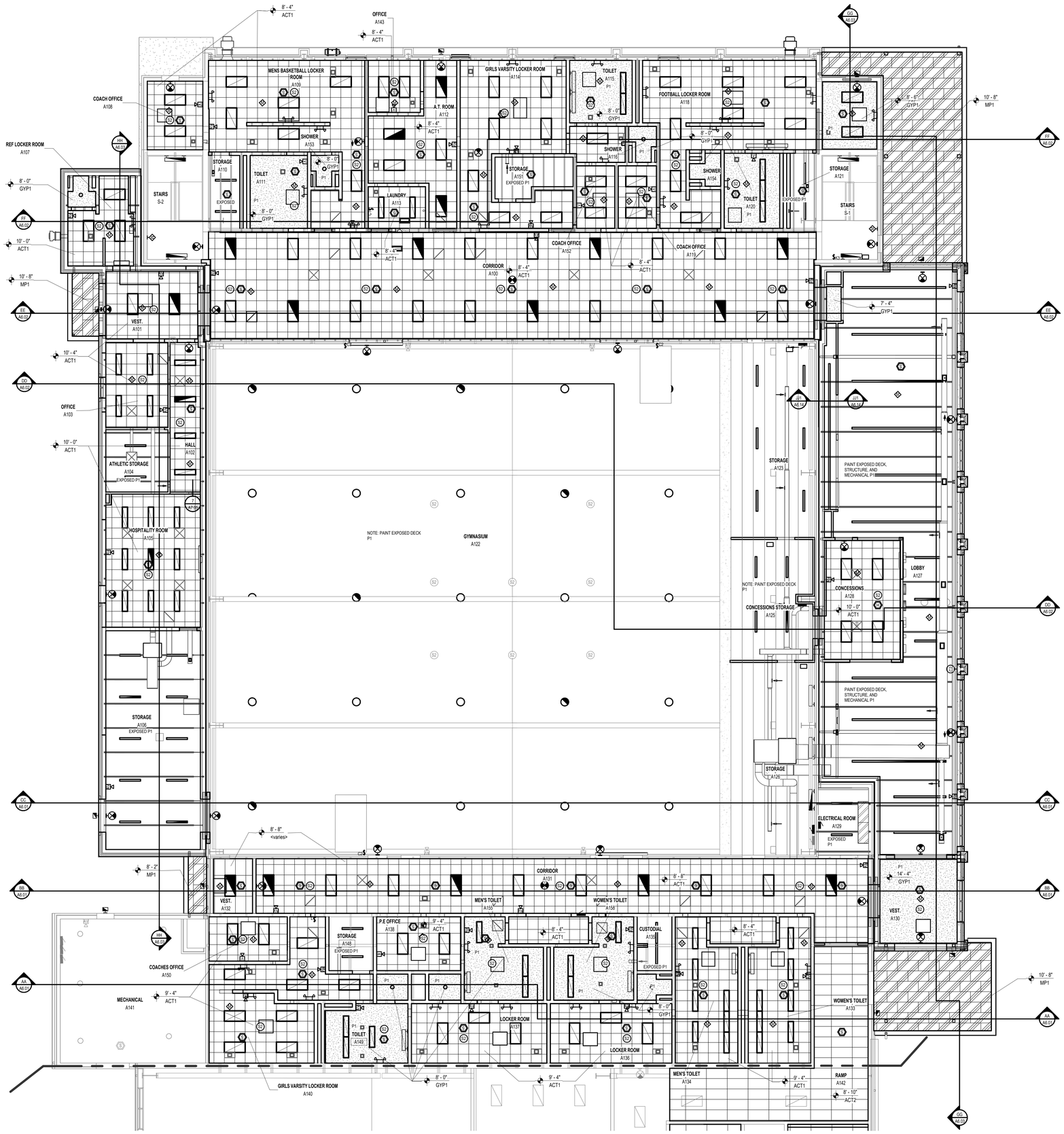
ENLARGED PLANS

A2.81



UNIT 'A' FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

GENERAL REFLECTED CEILING NOTES:

1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
2. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
3. WIRE CEILING SYSTEM FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS, CEILING DIFFUSERS, AND OTHER DEVICES. WIRING TO METAL DECK IS STRICTLY PROHIBITED.
4. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2' - 0" x 2' - 0" OR 2' - 0" x 4' - 0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
7. PROVIDE 2' - 0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

REFLECTED CEILING LEGEND

- 10' - 2" HEIGHT ABOVE FINISH FLOOR / XXX1 CEILING TYPE — CEILING TAG
- ACT1 — ACOUSTICAL CEILING TILE SYSTEM, GRID SPACING: 24" X 24", SUPPORT: SUSPENSION SYSTEM
- ACT2 — ACOUSTICAL CEILING TILE SYSTEM, GRID SPACING: 48" X 24", SUPPORT: SUSPENSION SYSTEM
- GYP1 — GYPSUM BOARD CEILING OR BULKHEAD, C.J. SPACED 30' - 0" O.C. MAX. UNLESS SHOWN OTHERWISE, SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING, PAINT: PX UNLESS NOTED OTHERWISE
- MP1 — METAL PANEL SOFFIT, C.J. SPACED 30' - 0" O.C. MAX. UNLESS SHOWN OTHERWISE, SUPPORT: METAL STUD FRAMING
- AREA OF CEILING REMOVAL AND REINSTALL
- C.J. CONTROL JOINT
- E.J. EXPANSION JOINT
- CUT TILE
- RECESSED LIGHT FIXTURE
- SURFACE / PENDANT MOUNT LIGHT FIXTURE
- MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
- EXIT SIGN (CEILING OR WALL-MOUNTED)
- ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL/TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION, NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES

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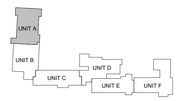
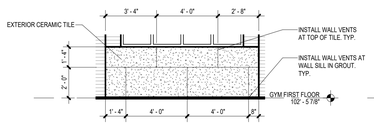


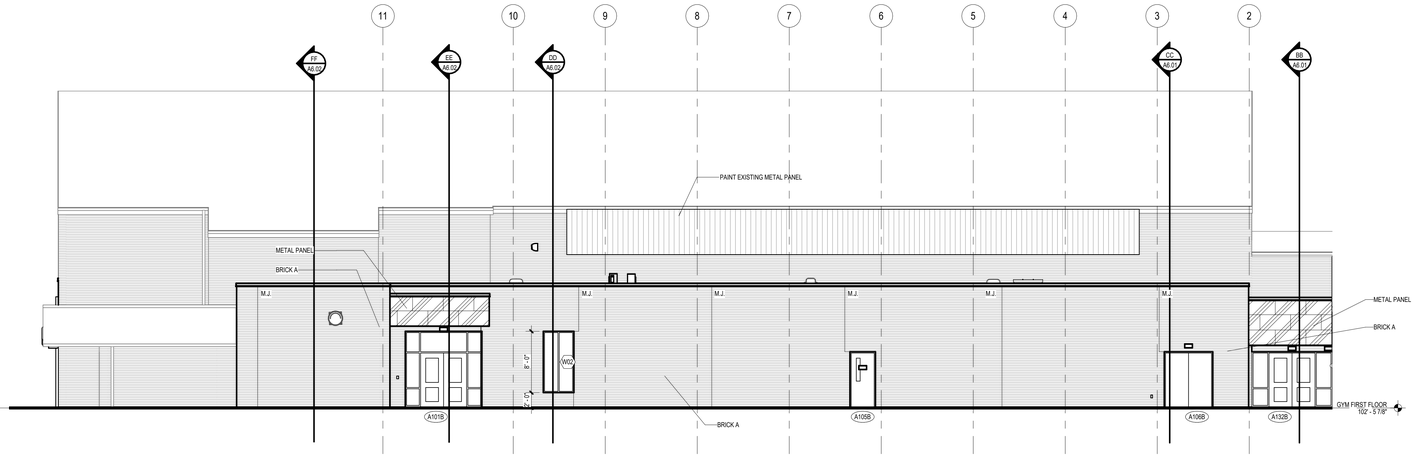
KEYPLAN

UNIT 'A' FIRST FLOOR REFLECTED CEILING PLAN

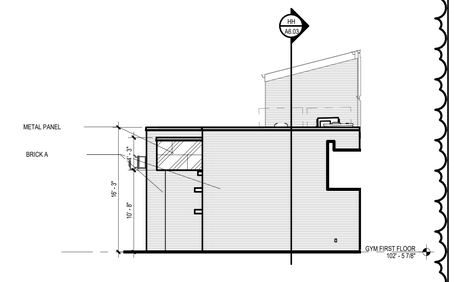
A3.1A



6 A4.01 EXTERIOR WALL TILE CALLOUT
1/4" = 1'-0"

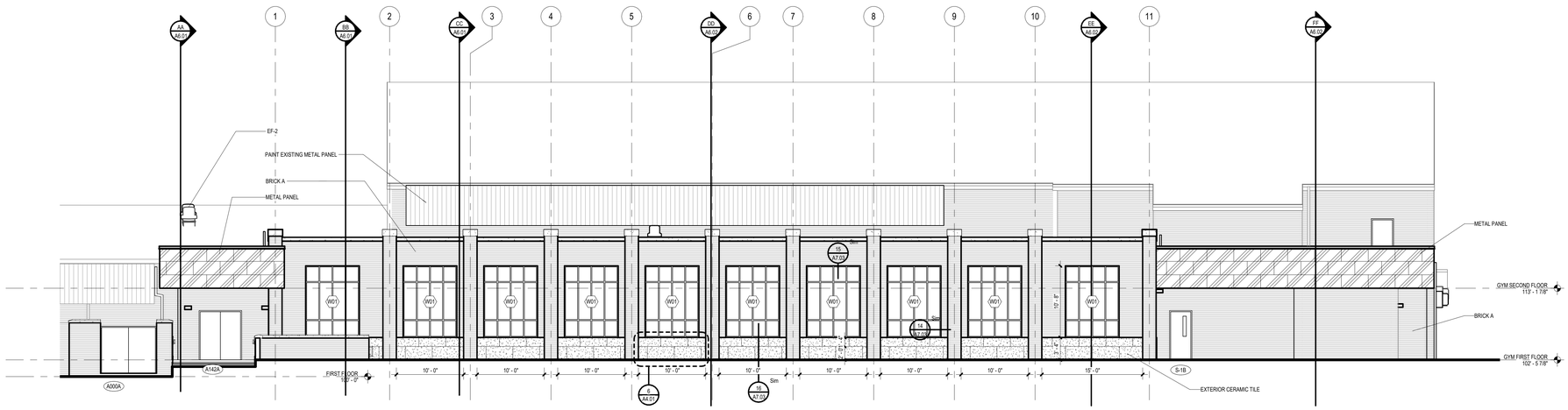


5 A4.01 WEST ELEVATION
1/8" = 1'-0"

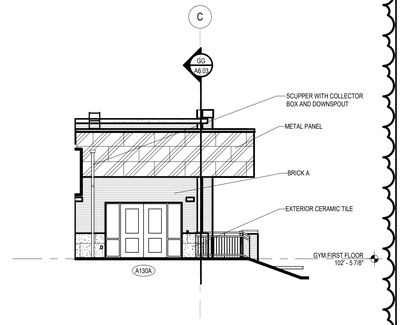


4 A4.01 PARTIAL SOUTH ELEVATION - WEST
1/8" = 1'-0"

3 A4.01 NORTH ELEVATION
1/8" = 1'-0"



2 A4.01 EAST ELEVATION
1/8" = 1'-0"



1 A4.01 PARTIAL SOUTH ELEVATION - EAST
1/8" = 1'-0"

MATERIAL LEGEND
(BASIS OF DESIGN)

METAL PANEL (EXTERIOR)
MFR: ALPOLIC
COLOR: CBF BLUE
SIZE: 24 X 48

CERAMIC TILE WALL (EXTERIOR TILE)
MFR: CERCOM
STYLE: IN CONTRO
COLOR: CREAM
SIZE: 24 X 48
GROUT: TBD
CONTACT: VIRGINIA TILE, LISA MCLEAN

4" FACE BRICK (EXTERIOR)
MFR: BELDING BRICK COMPANY
COLOR: COMMODORE FULL RANGE VELOUR
SIZE: 4

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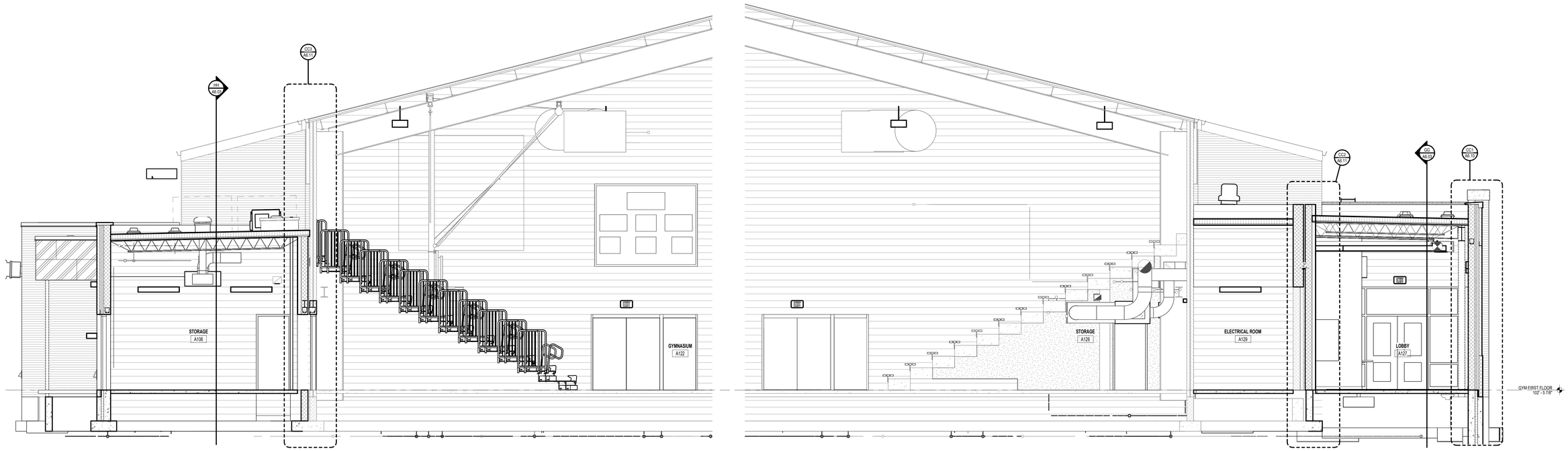
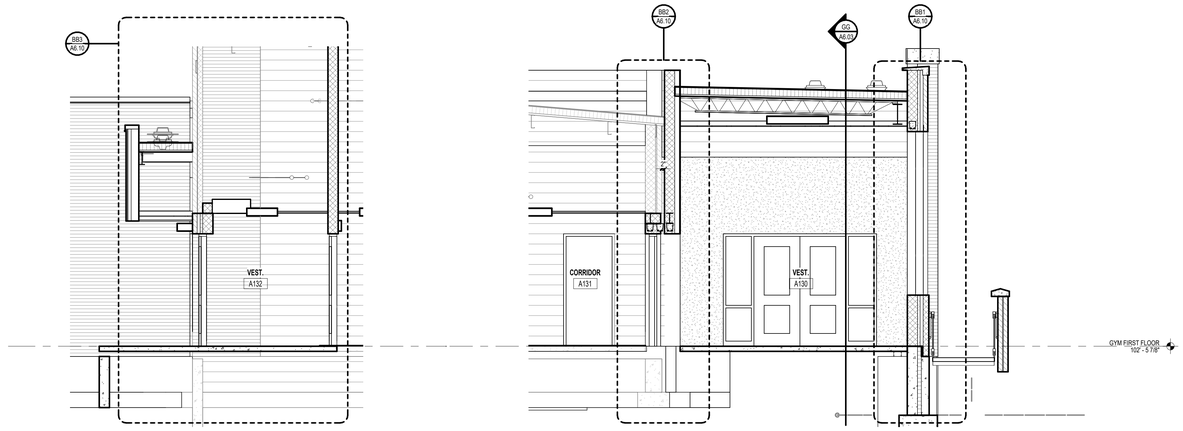
EXTERIOR ELEVATIONS

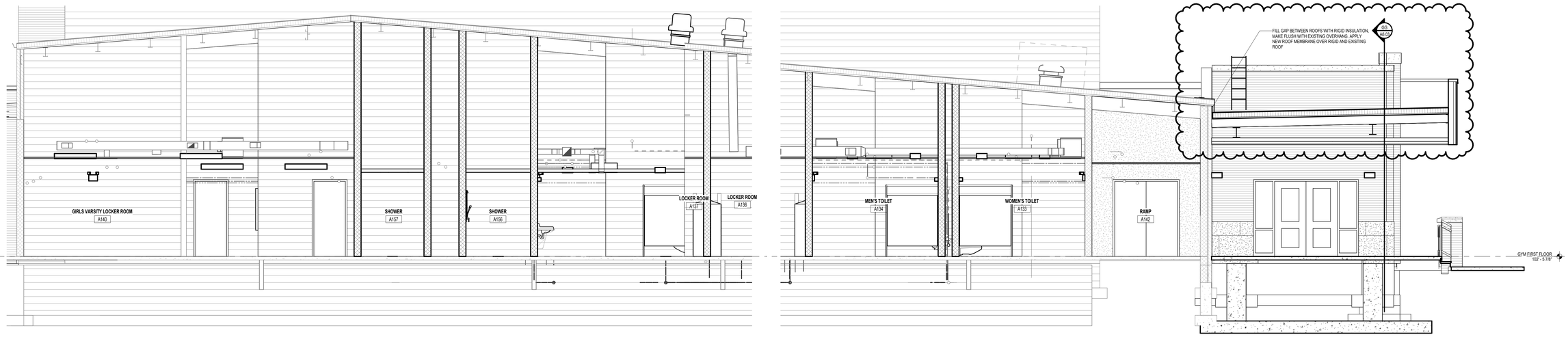
A4.01



CC A6.01 BUILDING SECTION CC
1/4" = 1'-0"



BB A6.01 BUILDING SECTION BB
1/4" = 1'-0"



AA A6.01 BUILDING SECTION AA
1/4" = 1'-0"

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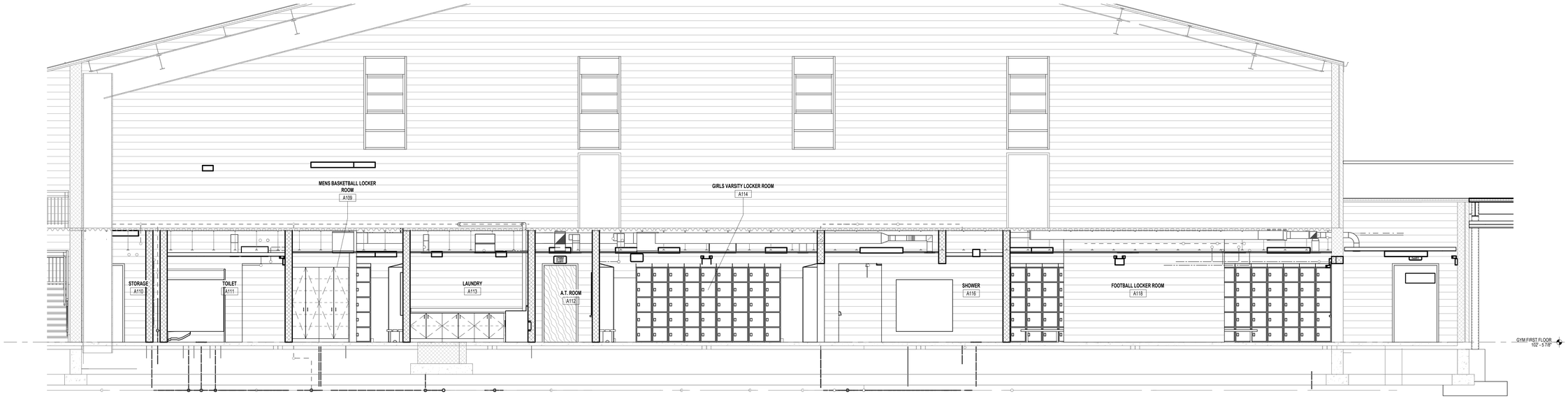
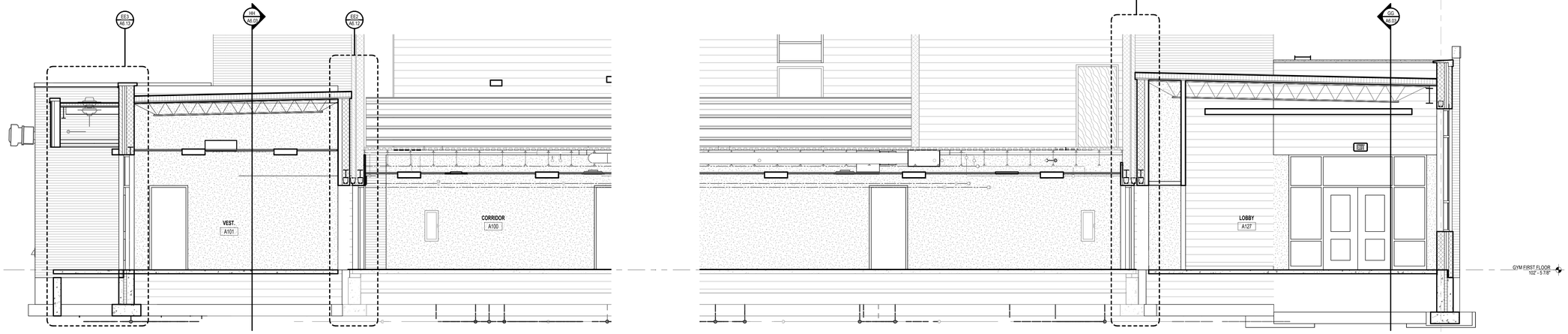
BUILDING SECTIONS

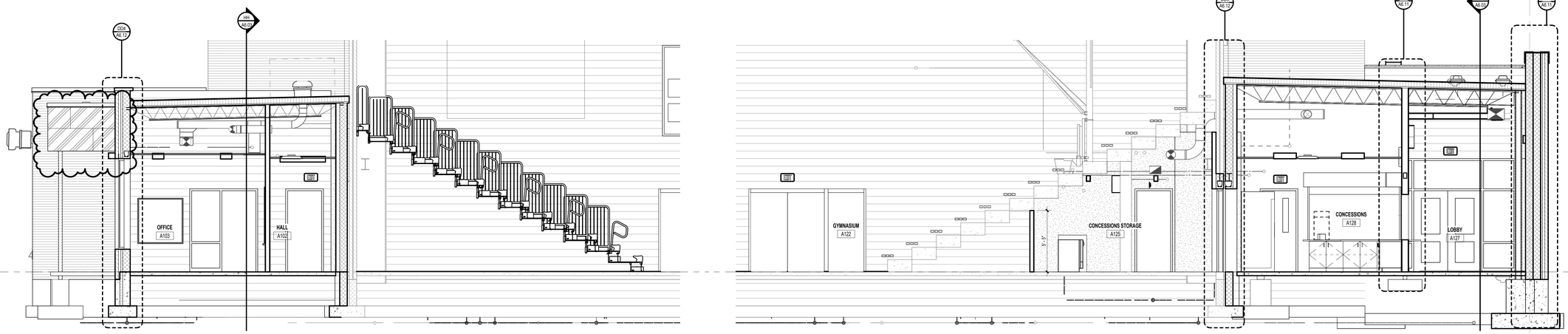
A6.01



FF A6.02 BUILDING SECTION FF
1/4" = 1'-0"



EE A6.02 BUILDING SECTION EE
1/4" = 1'-0"



DD A6.02 BUILDING SECTION DD
1/4" = 1'-0"

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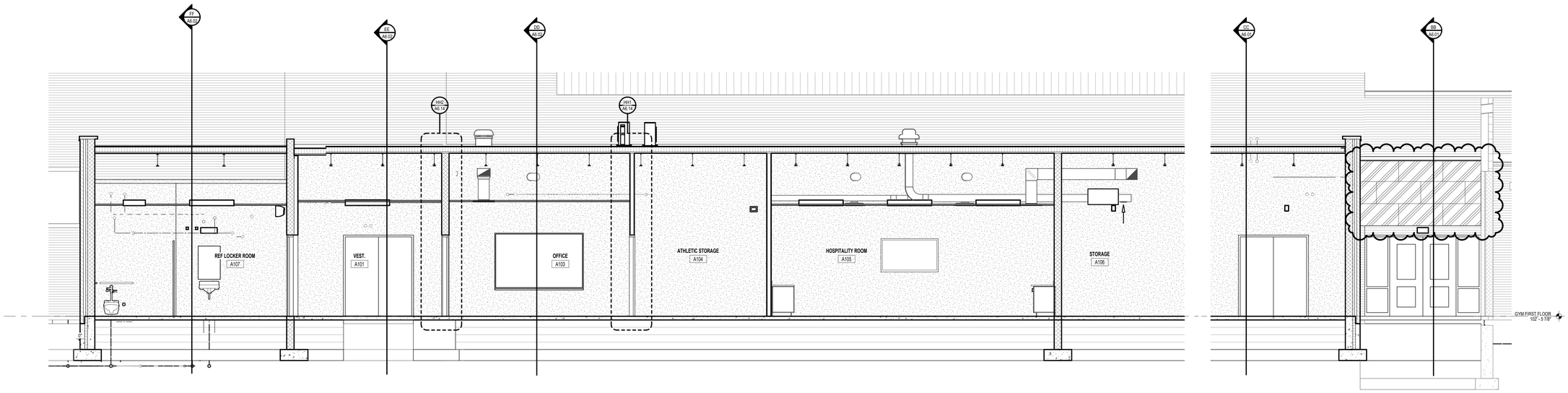
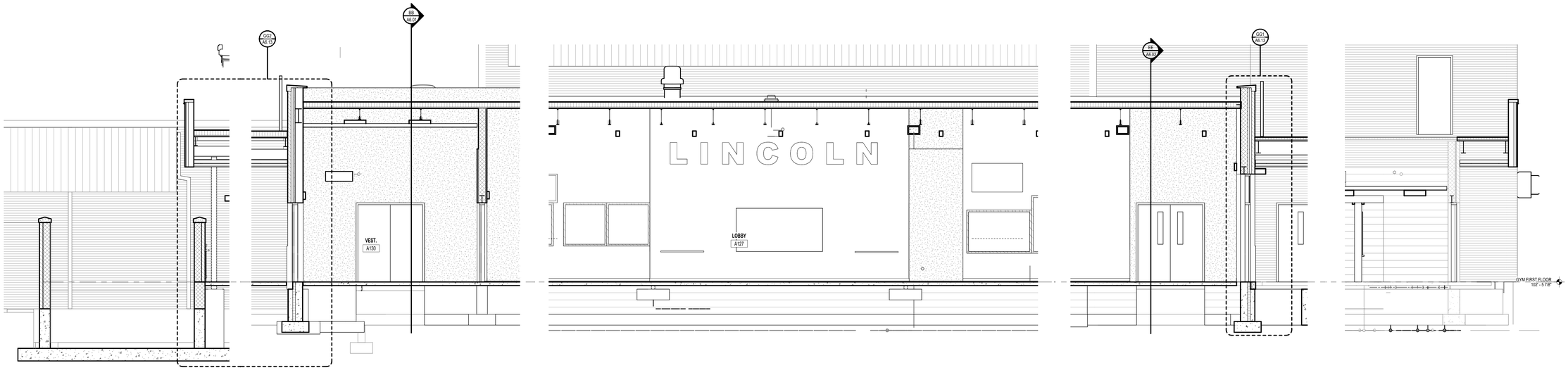
BUILDING SECTIONS

A6.02



HH
A6.03 BUILDING SECTION HH

1/4" = 1'-0"



GG
A6.03 BUILDING SECTION GG

1/4" = 1'-0"

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A6.03

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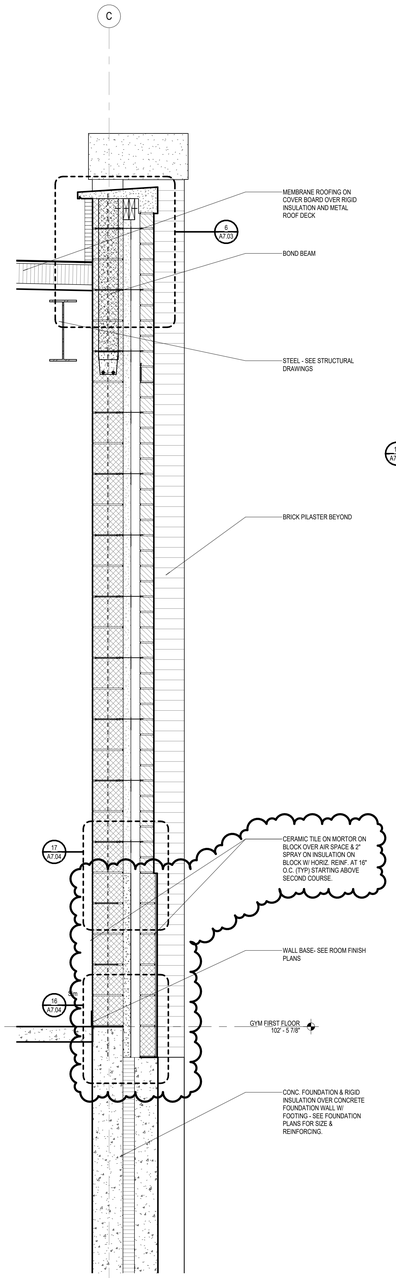
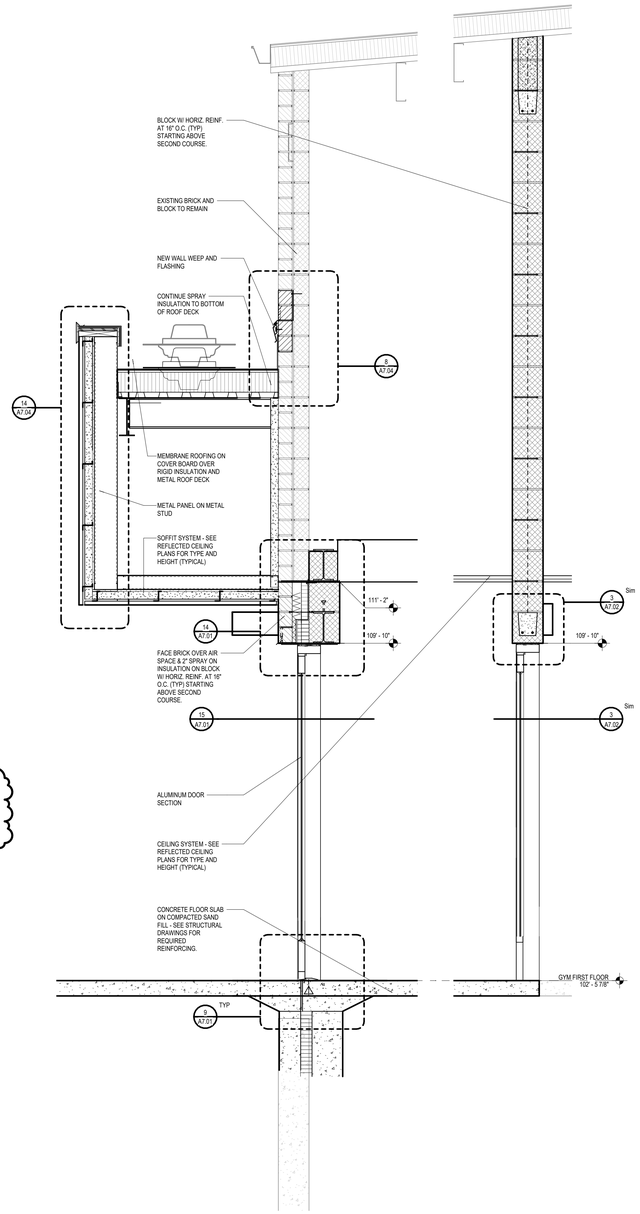
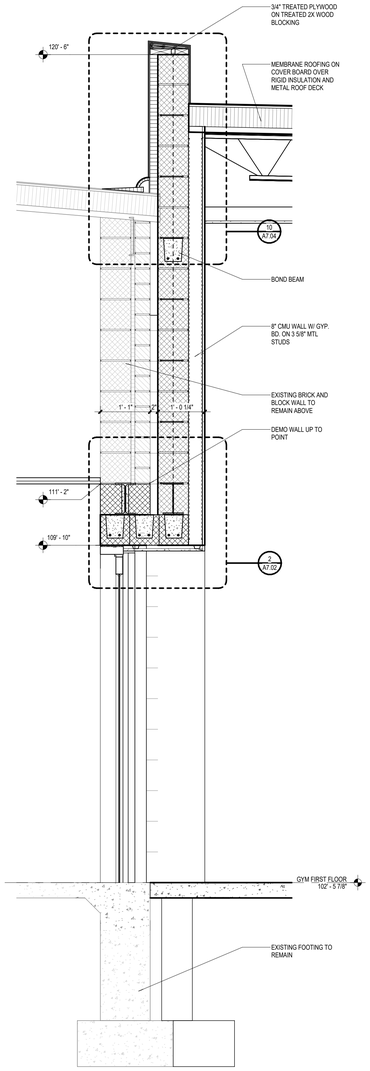


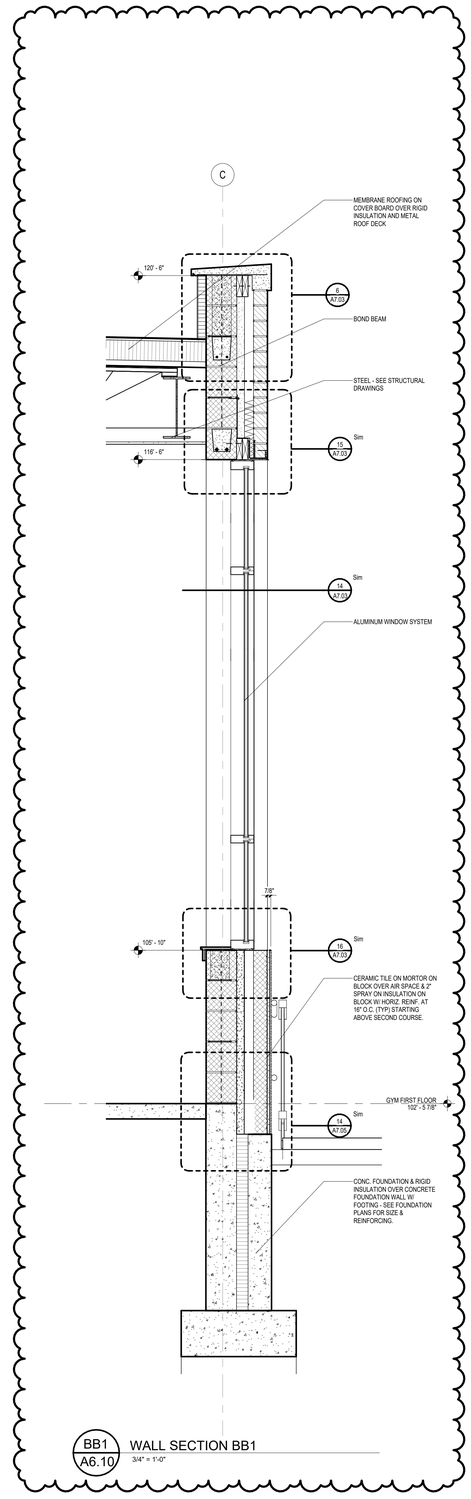
CC1 / A6.10 WALL SECTION CC1
3/4" = 1'-0"



BB3 / A6.10 WALL SECTION BB3
3/4" = 1'-0"



BB2 / A6.10 WALL SECTION BB2
3/4" = 1'-0"



BB1 / A6.10 WALL SECTION BB1
3/4" = 1'-0"

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WALL SECTIONS

A6.10

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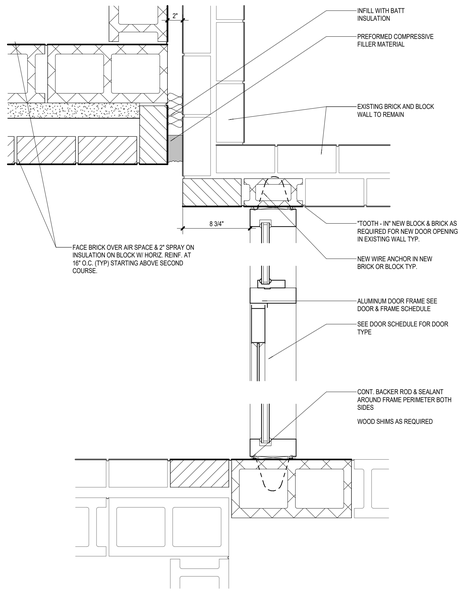
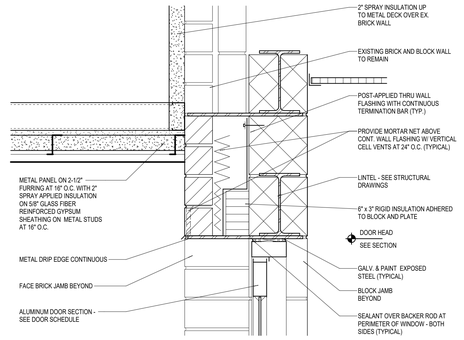
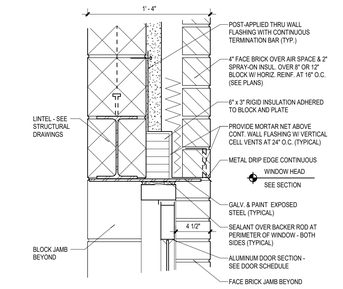


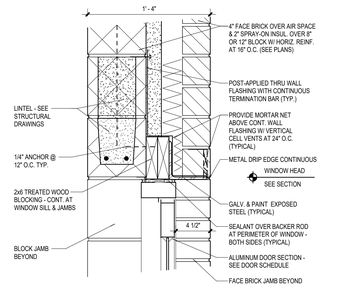
15 A7.01 A132B DOOR JAMB DETAIL
1 1/2" = 1'-0"



14 A7.01 DOOR HEAD DETAIL
1 1/2" = 1'-0"

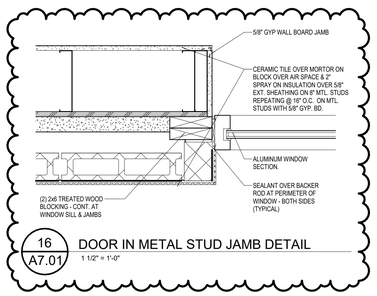


STEEL LINTEL PER STRUCTURAL

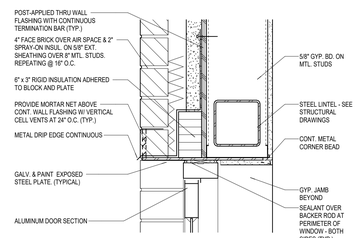


CMU LINTEL PER STRUCTURAL

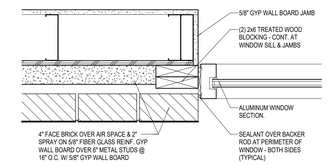
13 A7.01 EXTERIOR DOOR HEAD DETAIL
1 1/2" = 1'-0"



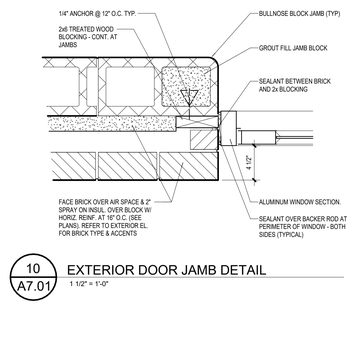
16 A7.01 DOOR IN METAL STUD JAMB DETAIL
1 1/2" = 1'-0"



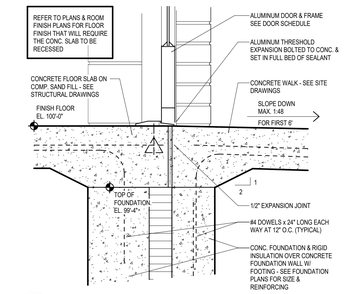
12 A7.01 DOOR IN METAL STUD HEAD DETAIL
1 1/2" = 1'-0"



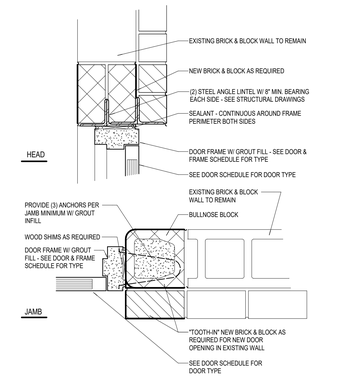
11 A7.01 DOOR IN METAL STUD JAMB DETAIL
1 1/2" = 1'-0"



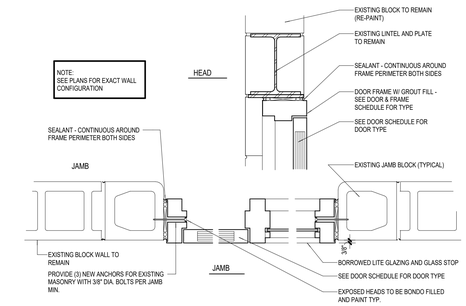
10 A7.01 EXTERIOR DOOR JAMB DETAIL
1 1/2" = 1'-0"



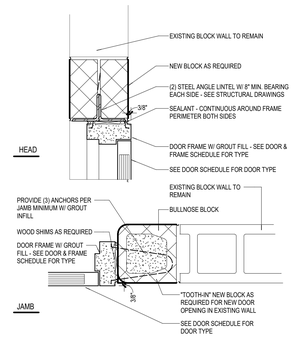
9 A7.01 EXTERIOR DOOR SILL DETAIL
1 1/2" = 1'-0"



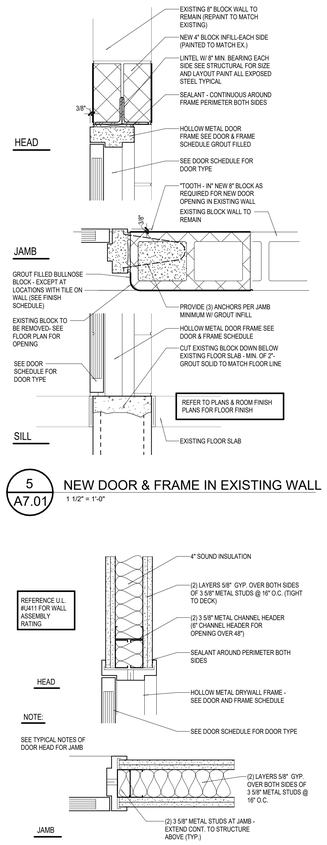
8 A7.01 NEW DOOR / EXISTING WALL
1 1/2" = 1'-0"



7 A7.01 NEW DOOR & SIDELITE IN EX. OPENING
1 1/2" = 1'-0"

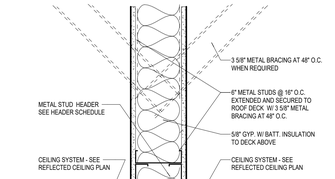


6 A7.01 NEW DOOR / EXISTING OPENING
1 1/2" = 1'-0"

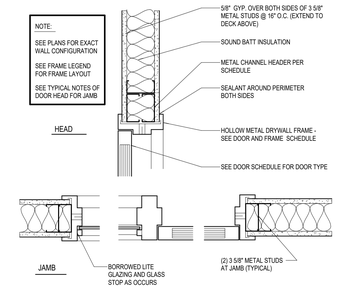


5 A7.01 NEW DOOR & FRAME IN EXISTING WALL
1 1/2" = 1'-0"

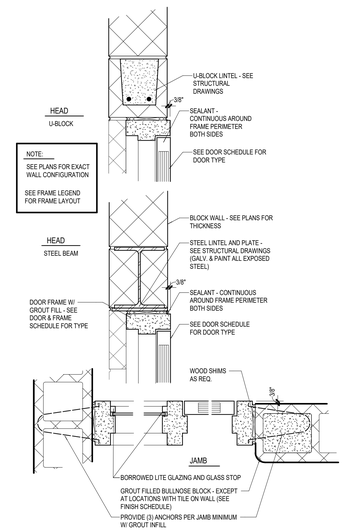
4 A7.01 FIRE RATED DOOR DETAIL
1 1/2" = 1'-0"



3 A7.01 VESTIBULE DOOR DETAIL
1 1/2" = 1'-0"



2 A7.01 HOLLOW METAL GYP DOOR FRAME
1 1/2" = 1'-0"



1 A7.01 HOLLOW METAL MASONRY DOOR FRAME
1 1/2" = 1'-0"

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WESTERN WAYNE SCHOOLS

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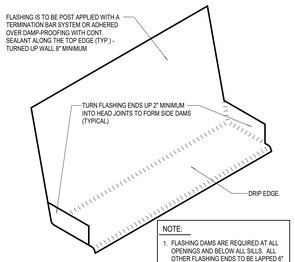
REVIEWED AGS

PROJECT NO. 5-6394

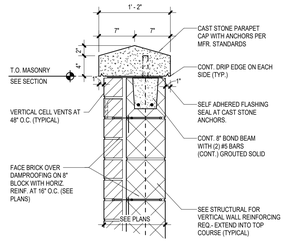
DOOR DETAILS

A7.01



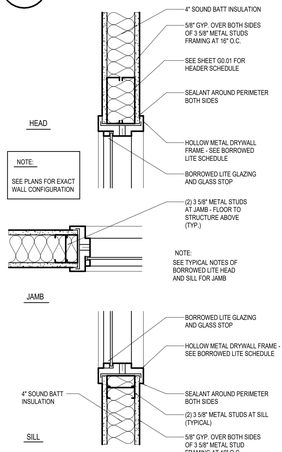
20 A7.03 TYPICAL FLASHING & DAM DETAIL

1 1/2" = 1'-0"



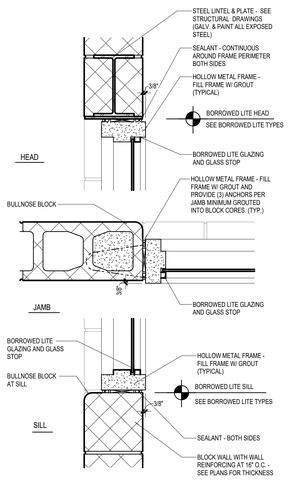
19 A7.03 CAST STONE SCREEN WALL CAP

1" = 1'-0"



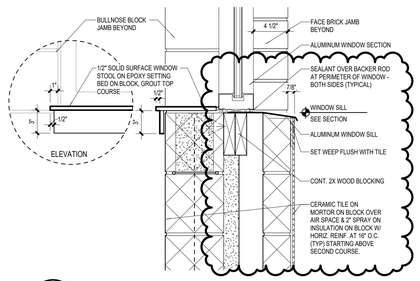
18 A7.03 GYP. BD. BORROWED LITE DETAIL

1 1/2" = 1'-0"



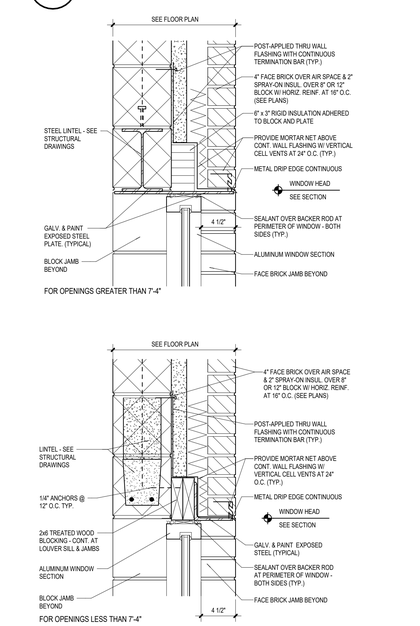
17 A7.03 HOLLOW METAL BORROWED LITE

1 1/2" = 1'-0"



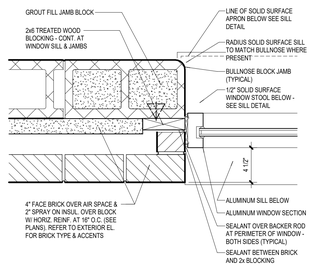
16 A7.03 WINDOW SILL DETAIL W/ TILE

1 1/2" = 1'-0"



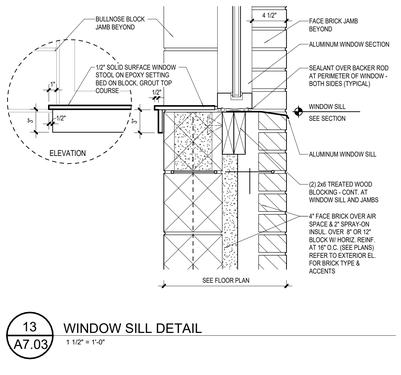
15 A7.03 WINDOW HEAD DETAIL

1 1/2" = 1'-0"



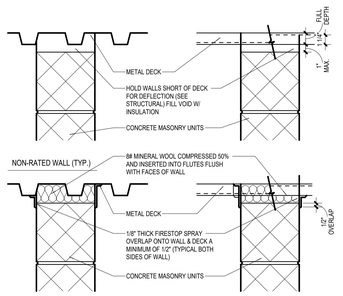
14 A7.03 WINDOW JAMB DETAIL

1 1/2" = 1'-0"



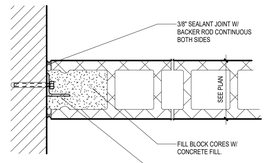
13 A7.03 WINDOW SILL DETAIL

1 1/2" = 1'-0"



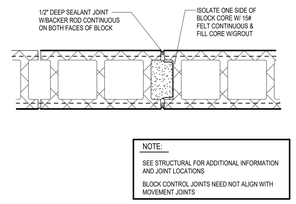
12 A7.03 TOP OF WALL DETAILS

1 1/2" = 1'-0"



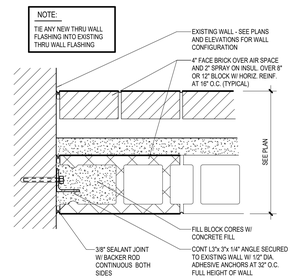
11 A7.03 BLOCK CONNECTION TO EX. WALL

1 1/2" = 1'-0"



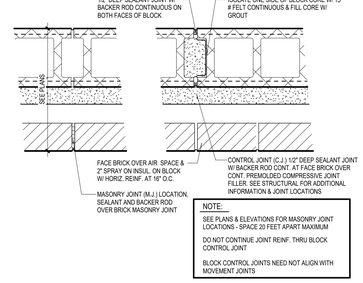
10 A7.03 BLOCK CONTROL JOINT DETAIL

1 1/2" = 1'-0"



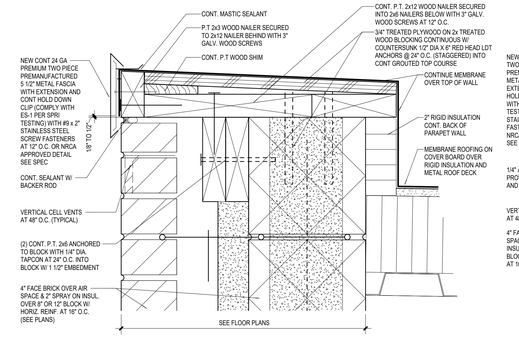
9 A7.03 MASONRY CONNECTION TO EXIST. WALL

1 1/2" = 1'-0"



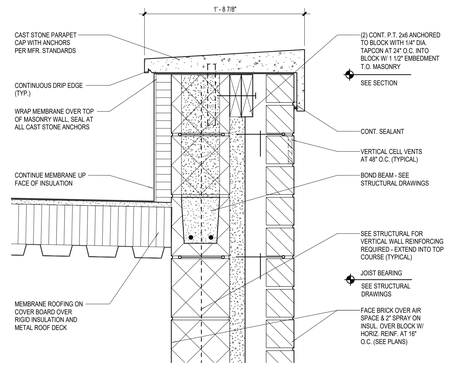
8 A7.03 MASONRY & CONTROL JOINT DETAIL

1 1/2" = 1'-0"



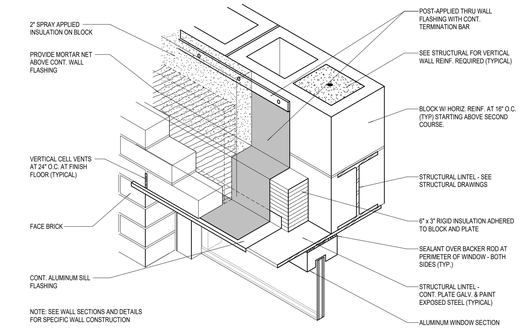
7 A7.03 TYPICAL ENLARGED WALL COPING - CONTRACTOR'S CHOICE

3" = 1'-0"



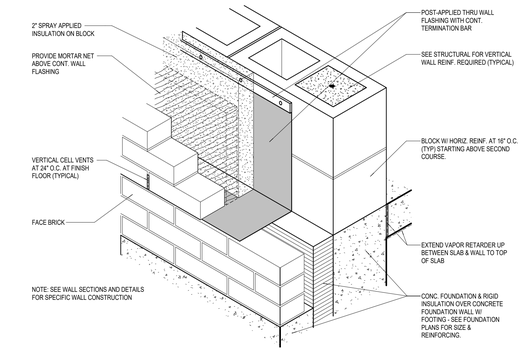
6 A7.03 STONE CAP DETAIL

1 1/2" = 1'-0"



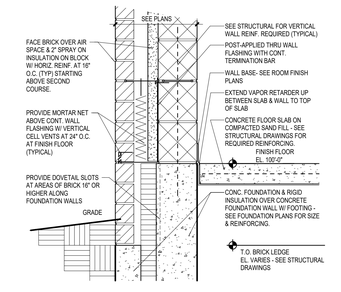
5 A7.03 FRAME HEAD FLASHING

1 1/2" = 1'-0"



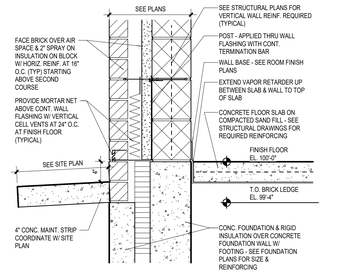
4 A7.03 MASONRY WALL BASE FLASHING

1 1/2" = 1'-0"



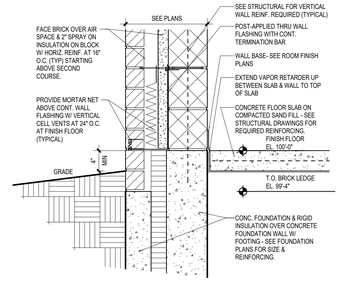
3 A7.03 TYP. WALL BASE DETAIL

1" = 1'-0"



2 A7.03 TYPICAL WALL BASE DETAIL

1" = 1'-0"



1 A7.03 TYP. WALL BASE DETAIL

1" = 1'-0"

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WESTERN WAYNE SCHOOLS

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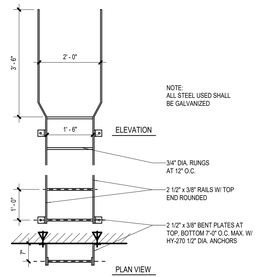
DRAWN JHB
REVIEWED AGS

PROJECT NO. 5-6394

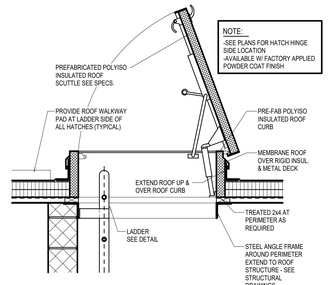
WALL AND WINDOW DETAILS

A7.03

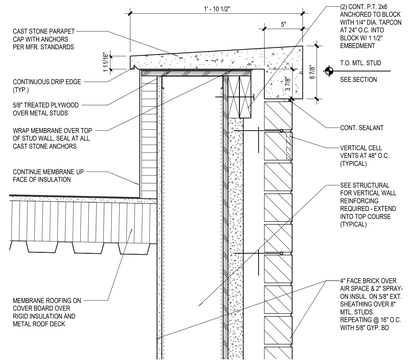
LADDER SCHEDULE			
LADDER LOCATION	LADDER HEIGHT	LADDER MATERIAL	CAGE REQ.
STORAGE_A106	16'-8"	STEEL	NO
SW CANOPY	5'-0"	STEEL	NO
SW CANOPY	5'-0"	STEEL	NO



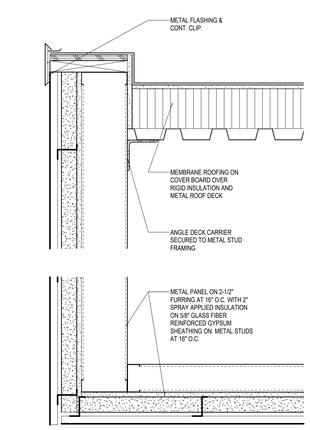
19 A7.04 TYPICAL LADDER DETAIL
1/2" = 1'-0"



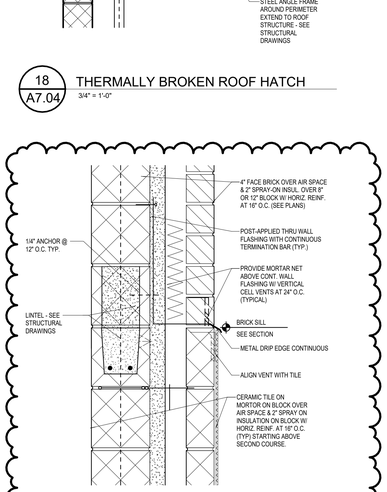
18 A7.04 THERMALLY BROKEN ROOF HATCH
3/4" = 1'-0"



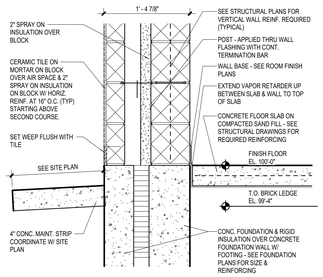
15 A7.04 STONE CAP DETAIL MTL STUDS
1 1/2" = 1'-0"



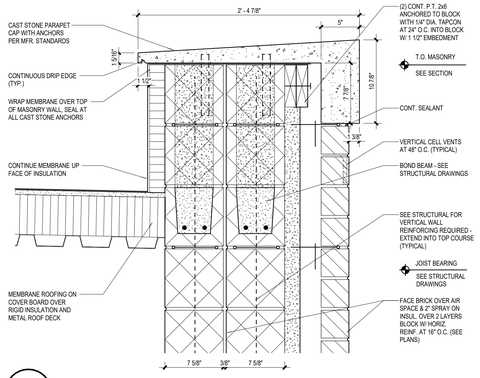
14 A7.04 METAL PANEL CORNER DETAIL
1 1/2" = 1'-0"



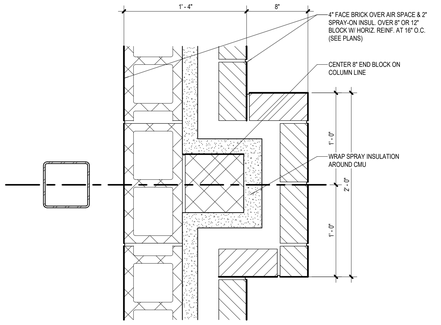
17 A7.04 BRICK TO TILE TRANSITION
1 1/2" = 1'-0"



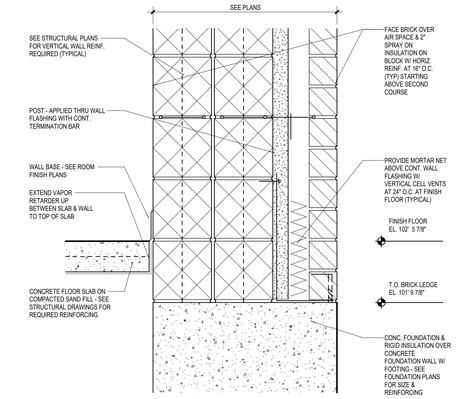
16 A7.04 TYPICAL WALL BASE DETAIL
1" = 1'-0"



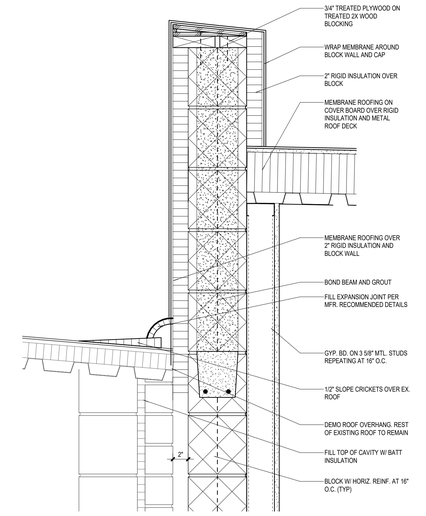
13 A7.04 STONE CAP DETAIL @ PILASTER
1 1/2" = 1'-0"



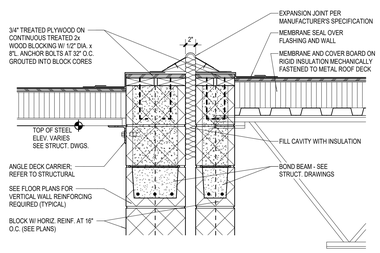
12 A7.04 PILASTER PLAN DETAIL
1 1/2" = 1'-0"



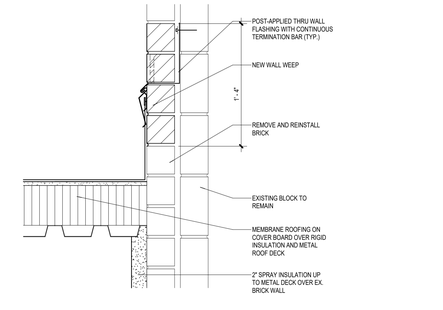
11 A7.04 PILASTER BASE DETAIL
1 1/2" = 1'-0"



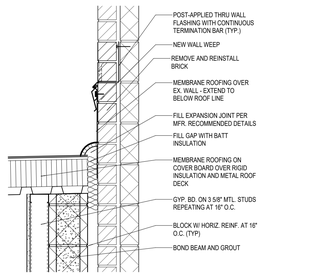
10 A7.04 EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



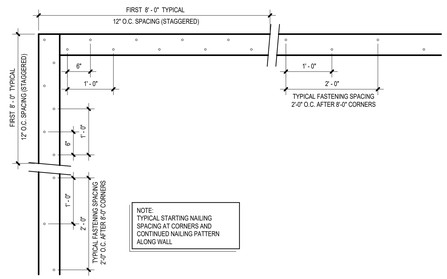
9 A7.04 2-HR DOUBLE FIRE WALL T.O.W. DETAIL
1" = 1'-0"



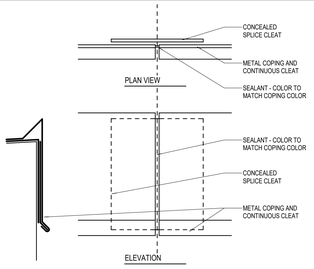
8 A7.04 NEW ROOF TO EX. WALL DETAIL
1 1/2" = 1'-0"



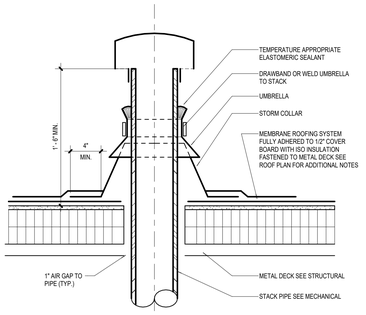
7 A7.04 NEW ROOF TO EX. WALL EXPANSION JOINT DETAIL
1" = 1'-0"



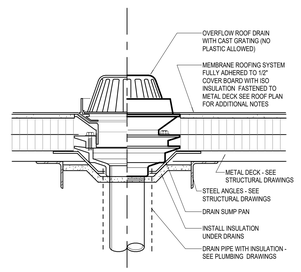
6 A7.04 WOOD NAILER SECUREMENT CRITERIA
3/4" = 1'-0"



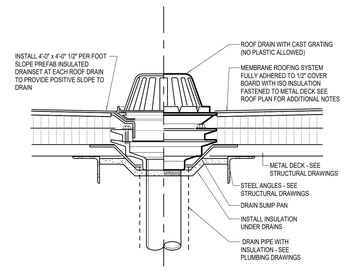
5 A7.04 METAL COPING SPLICE DETAIL
3" = 1'-0"



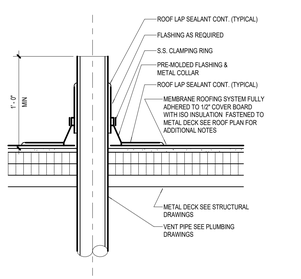
4 A7.04 STACK FLASHING DETAIL
1 1/2" = 1'-0"



3 A7.04 ROOF DRAIN OVERFLOW DETAIL
1 1/2" = 1'-0"



2 A7.04 SINGLE ROOF DRAIN DETAIL
1 1/2" = 1'-0"



1 A7.04 TYPICAL ROOF VENT DETAIL
1 1/2" = 1'-0"

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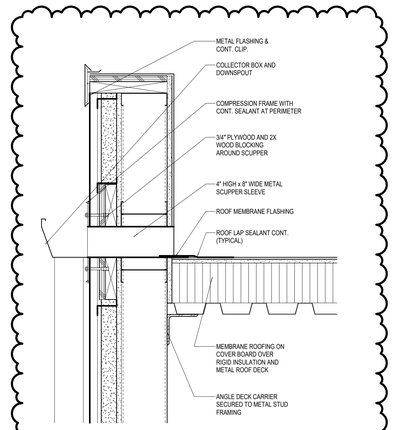
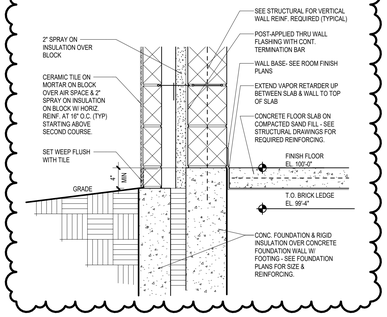
DETAILS

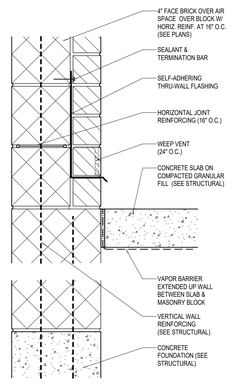
A7.04



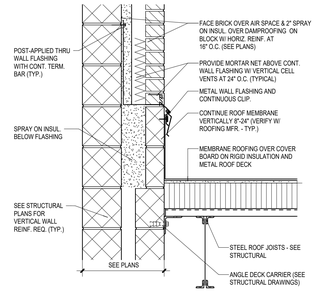
15 A7.05 SCUPPER DETAIL
1 1/2" = 1'-0"



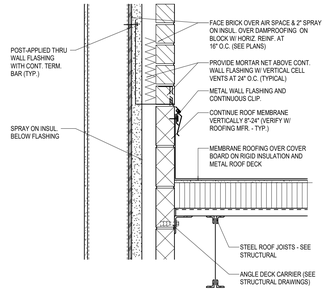
14 A7.05 TYP. WALL BASE DETAIL
1" = 1'-0"



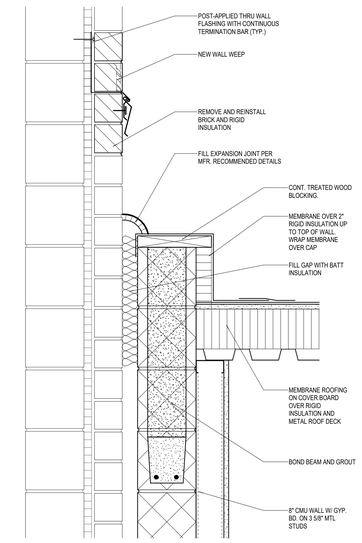
13 A7.05 SCREEN WALL BASE DETAIL
1 1/2" = 1'-0"



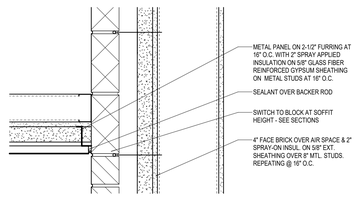
11 A7.05 TYP. WALL TRANSITION DETAIL
1" = 1'-0"



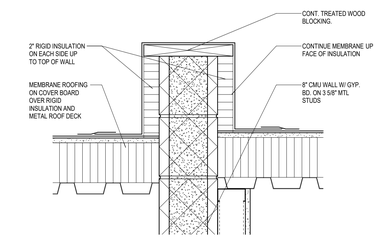
10 A7.05 TYP. WALL TRANSITION DETAIL
1" = 1'-0"



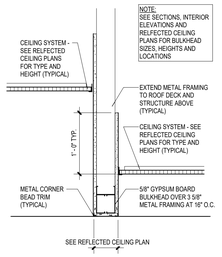
9 A7.05 EXPANSION JOINT @ ROOF CURB
1 1/2" = 1'-0"



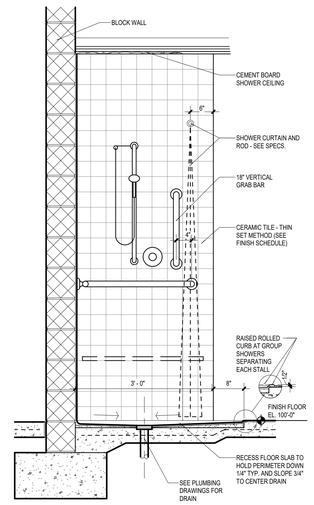
12 A7.05 METAL PANEL @ BRICK ON STUD
1 1/2" = 1'-0"



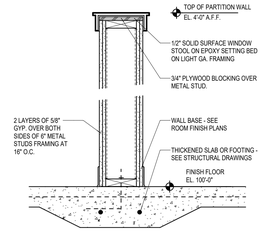
8 A7.05 WALL CAP DETAIL
1 1/2" = 1'-0"



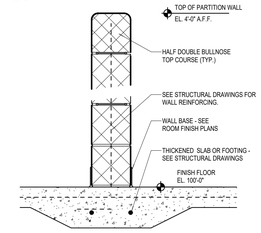
7 A7.05 SMALL BULKHEAD DETAIL
1" = 1'-0"



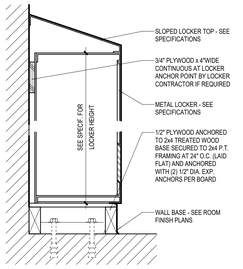
2 A7.05 BARRIER FREE INDIVIDUAL SHOWER
3/4" = 1'-0"



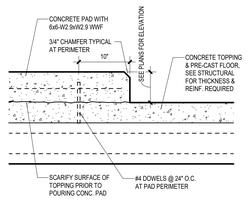
6 A7.05 GYP. ON METAL STUDS PARTITION WALL DETAIL
1" = 1'-0"



5 A7.05 BLOCK PARTITION WALL DETAIL
1" = 1'-0"



4 A7.05 WOOD LOCKER BASE DETAIL
1 1/2" = 1'-0"



3 A7.05 CONC. EQUIPMENT PAD ON PRECAST
1" = 1'-0"

1 A7.05 GYP DISPLAY CASE
1 1/2" = 1'-0"

gmb
Maze
Design, Inc.

WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

WESTERN WAYNE SCHOOLS

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN JHB
REVIEWED AGS

PROJECT NO. 5-6394

DETAILS

A7.05

PLUMBING FIXTURE SCHEDULE

WATER CLOSET DESCRIPTION (WC-1): AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET MODEL 2257.101, WALL HUNG, SIPHON JET, VITREOUS CHINA CLOSET BOWL, ELONGATED RIM, 1-1/2-INCH TOP SPUD, CHINA BOLT CAPS, 1.6 GPF. COLOR: WHITE.
FLUSH VALVE (FLUSHOMETER) DESCRIPTION: SLOAN REGAL 111 SFSM-1.6-XL-TMO,1.6 GPF, XL SWEAT SOLDER ADAPTER KIT, POLISHED CHROME FINISH, 1.5" FLUSH CONNECTION, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, 1" INLET,1" CONTROL STOP, TRUE MECHANICAL OVERRIDE, BATTERY, INFRARED, EXPOSED SENSOR WATER CLOSET FLUSHOMETER.
SEAT DESCRIPTION: BEMIS MODEL 1955SSCT, COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT, OPEN FRONT, MOLDED IN BUMPERS, SELF-SUSTAINING HINGE, STAINLESS STEEL BOLTS, WITHOUT COVER. COLOR: WHITE.
WATER CLOSET CARRIER DESCRIPTION: JAY R. SMITH SERIES 200, COMBINATION CARRIER DESIGNED FOR STANDARD OR ACCESSIBLE MOUNTING HEIGHT OF WALL HUNG WATER CLOSET FIXTURE. SINGLE OR DOUBLE, VERTICAL OR HORIZONTAL, HUBLESS OR HUB AND SPIGOT WASTE FITTING AS REQUIRED FOR PIPING ARRANGEMENT, FACEPLATES, COUPLINGS WITH GASKETS, FEET, FIXTURE BOLTS AND HARDWARE MATCHING FIXTURE.

WATER CLOSET DESCRIPTION (WC-1A): AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET MODEL 2257.101, ACCESSIBLE, WALL HUNG, SIPHON JET, VITREOUS CHINA CLOSET BOWL, ELONGATED RIM, 1-1/2 INCH TOP SPUD, CHINA BOLT CAPS, 1.6 GPF. COLOR: WHITE. INSTALL PER BARRIER FREE AND ADA REQUIREMENTS.
FLUSH VALVE (FLUSHOMETER) DESCRIPTION: SLOAN REGAL 111 SFSM-1.6-XL-TMO,1.6 GPF, XL SWEAT SOLDER ADAPTER KIT, POLISHED CHROME FINISH, 1.5" FLUSH CONNECTION, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, 1" INLET,1" CONTROL STOP, TRUE MECHANICAL OVERRIDE, BATTERY, INFRARED, EXPOSED SENSOR WATER CLOSET FLUSHOMETER.
SEAT DESCRIPTION: BEMIS MODEL 1955SSCT, COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT, OPEN FRONT, MOLDED IN BUMPERS, SELF-SUSTAINING HINGE, STAINLESS STEEL BOLTS, WITHOUT COVER. COLOR: WHITE.
WATER CLOSET CARRIER DESCRIPTION: JAY R. SMITH SERIES 200, COMBINATION CARRIER DESIGNED FOR STANDARD OR ACCESSIBLE MOUNTING HEIGHT OF WALL HUNG WATER CLOSET FIXTURE. SINGLE OR DOUBLE, VERTICAL OR HORIZONTAL, HUBLESS OR HUB AND SPIGOT WASTE FITTING AS REQUIRED FOR PIPING ARRANGEMENT, FACEPLATES, COUPLINGS WITH GASKETS, FEET, FIXTURE BOLTS AND HARDWARE MATCHING FIXTURE.

URINAL DESCRIPTION (UR-1): AMERICAN STANDARD WASHBROOK FLOWISE 0.5 HIGH EFFICIENCY URINAL MODEL 6590.001, WALL HUNG URINAL, WASHOUT, VITREOUS CHINA, 3/4-INCH TOP SPUD, 0.5 GPF, 2-INCH OUTLET (NPTF). COLOR: WHITE.
FLUSH VALVE (FLUSHOMETER) DESCRIPTION: SLOAN REGAL 186 SFSM-0.5-XL-TMO, 0.5 GPF, XL SWEAT SOLDER ADAPTER KIT, POLISHED CHROME FINISH, 0.75" FLUSH CONNECTION, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, 0.75"
INLET, 3/4" CONTROL STOP, TRUE MECHANICAL OVERRIDE, BATTERY, INFRARED, EXPOSED SENSOR URINAL FLUSHOMETER.
URINAL CARRIER DESCRIPTION: JAY R. SMITH SERIES 600, CARRIER WITH HANGER AND BEARING PLATES FOR WALL HUNG URINAL FIXTURE, STEEL UPRIGHTS WITH FEET.

URINAL DESCRIPTION (UR-1A): AMERICAN STANDARD WASHBROOK FLOWISE 0.5 HIGH EFFICIENCY URINAL MODEL 6590.001, WALL HUNG URINAL, WASHOUT, VITREOUS CHINA, 3/4-INCH TOP SPUD, 0.5 GPF, 2-INCH OUTLET (NPTF). COLOR: WHITE.
FLUSH VALVE (FLUSHOMETER) DESCRIPTION: SLOAN REGAL 186 SFSM-0.5-XL-TMO, 0.5 GPF, XL SWEAT SOLDER ADAPTER KIT, POLISHED CHROME FINISH, 0.75" FLUSH CONNECTION, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, 0.75"
INLET, 3/4" CONTROL STOP, TRUE MECHANICAL OVERRIDE, BATTERY, INFRARED, EXPOSED SENSOR URINAL FLUSHOMETER.
URINAL CARRIER DESCRIPTION: JAY R. SMITH SERIES 600, CARRIER WITH HANGER AND BEARING PLATES FOR WALL HUNG URINAL FIXTURE, STEEL UPRIGHTS WITH FEET.

LAVATORY DESCRIPTION (LAV-1): AMERICAN STANDARD LUCERNE LAVATORY MODEL 0355.012, WALL HUNG LAVATORY, VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE WITH FAUCET HOLES ON 4 INCH CENTERS, SELF-DRAINING DECK AREA, DRAIN LOCATED NEAR BACK OF BOWL, 21-1/2 INCHES BY 18-1/4 INCHES OVERALL DIMENSIONS. COLOR: WHITE.
FAUCET DESCRIPTION: CHICAGO FAUCETS 802-665ABCP DECK MOUNTED LAVATORY FAUCET WITH VANDAL RESISTANT INDEXED METAL METERING CARTRIDGE, ALL METAL BODY, INTEGRAL HOT LIMIT SAFETY STOP, CAST BRASS WATERWAY, 0.5 GPM VANDAL RESISTANT SPRAY OUTLET. FINISH: POLISHED CHROME.
LAVATORY CARRIER DESCRIPTION JAY R. SMITH SERIES 700, CARRIER WITH CONCEALED ARMS AND TIE ROD FOR WALL MOUNTING, STEEL UPRIGHTS WITH FEET.
CHROME PLATED 17 GAGE BRASS 1-1/4-INCH P-TRAP WITH CLEANOUT, CAST BRASS NUTS, AND ARM WITH ESCUTCHEON.
RIGID SUPPLIES: NPS 1/2 INCH SOLDERED OR THREADED COPPER CONNECTION TO SUPPLY, NPS 3/8 INCH CHROME PLATED BRASS ANGLED STOPS WITH QUARTER TURN ON/OFF OPERATION, BLOW OUT PROOF STEM AND CHROME PLATED METAL DIE CAST HANDLE (NO PLASTIC), CHROME PLATED RIGID COPPER RISERS UPSTREAM OF MIXING VALVE, CHROME PLATED RIGID COPPER RISERS OR STAINLESS STEEL FLEXIBLE SUPPLIES DOWNSTREAM OF MIXING VALVE.

LAVATORY DESCRIPTION (LAV-1A): AMERICAN STANDARD LUCERNE LAVATORY MODEL 0355.012, WALL HUNG LAVATORY, VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE WITH FAUCET HOLES ON 4 INCH CENTERS, SELF-DRAINING DECK AREA, DRAIN LOCATED NEAR BACK OF BOWL, 21-1/2 INCHES BY 18-1/4 INCHES OVERALL DIMENSIONS. COLOR: WHITE. INSTALL PER BARRIER FREE AND ADA REQUIREMENTS.
FAUCET DESCRIPTION: CHICAGO FAUCETS 802-665ABCP DECK MOUNTED LAVATORY FAUCET WITH VANDAL RESISTANT INDEXED METAL METERING CARTRIDGE, ALL METAL BODY, INTEGRAL HOT LIMIT SAFETY STOP, CAST BRASS WATERWAY, 0.5 GPM VANDAL RESISTANT SPRAY OUTLET. FINISH: POLISHED CHROME.
LAVATORY CARRIER DESCRIPTION JAY R. SMITH SERIES 700, CARRIER WITH CONCEALED ARMS AND TIE ROD FOR WALL MOUNTING, STEEL UPRIGHTS WITH FEET.
CHROME PLATED 17 GAGE BRASS 1-1/4-INCH P-TRAP WITH CLEANOUT, CAST BRASS NUTS, AND ARM WITH ESCUTCHEON.
RIGID SUPPLIES: NPS 1/2 INCH SOLDERED OR THREADED COPPER CONNECTION TO SUPPLY, NPS 3/8 INCH CHROME PLATED BRASS ANGLED STOPS WITH QUARTER TURN ON/OFF OPERATION, BLOW OUT PROOF STEM AND CHROME PLATED METAL DIE CAST HANDLE (NO PLASTIC), CHROME PLATED RIGID COPPER RISERS UPSTREAM OF MIXING VALVE, CHROME PLATED RIGID COPPER RISERS OR STAINLESS STEEL FLEXIBLE SUPPLIES DOWNSTREAM OF MIXING VALVE.

SINK DESCRIPTION (S-1): ELKAY DEPENDABILT SERIES MODEL 2C18X18-0X DOUBLE COMPARTMENT SCULLERY SINK, 14 GAUGE TYPE 304 STAINLESS STEEL, OVERALL DIMENSIONS OF 43 INCHES BY 23-13/16 INCHES BY 12 " DEEP, WELDED ¼ INCH RADIUS COVED CORNER COMPARTMENTS WITH DIMENSIONS OF 27 INCHES BY 24 INCHES BY 14 INCHES DEEP AND DRAIN CENTERED IN COMPARTMENT, SINK COMPARTMENT SLOPED TO DRAINS, FULL LENGTH 10-3/4 INCH HIGH BACKSPLASH WITH 45 DEGREE SLOPED TOP, 1-1/2 INCH WIDE INWARD SLOPING TOP CHANNEL RIMS, EXPOSED SURFACES POLISHED TO A SATIN FINISH, NSF CERTIFIED.
FAUCETS DESCRIPTION: T&S BRASS B-0231, WALL MOUNTED DUAL HANDLE SINK FAUCET, LEVER HANDLES, 2.2 GPM FINISH: POLISHED CHROME.
ACCESSORIES: ELKAY LK251 ADJUSTABLE LENGTH STAINLESS STEEL LEGS. CHROME PLATED 17 GAGE BRASS 1-1/2 INCH P-TRAP WITH CLEANOUT AND ARM WITH ESCUTCHEON. RIGID SUPPLIES: NPS 1/2 INCH SOLDERED OR THREADED COPPER CONNECTION TO SUPPLY, NPS 3/8 INCH CHROME PLATED BRASS ANGLED STOPS WITH QUARTER TURN ON/OFF OPERATION, BLOW OUT PROOF STEM AND CHROME PLATED METAL DIE CAST HANDLE (NO PLASTIC), CHROME PLATED RIGID COPPER RISERS UPSTREAM OF MIXING VALVE, CHROME PLATED RIGID COPPER RISERS OR STAINLESS STEEL FLEXIBLE SUPPLIES DOWNSTREAM OF MIXING VALVE. DRAIN: ELKAY LK-99 OR EQUAL DRAIN FITTING AND TAIL PIECE, TYPE 304 STAINLESS STEEL BODY, REMOVABLE CONICAL BASKET STRAINER WITH METAL BALL BEARING LOCKING STEM AND RUBBER STOPPER. FINISH: ULTRA BRIGHT POLISHED.

SHOWER DESCRIPTION (SH-1A): BRADLEY RECESS-MOUNTED ADA COMPLIANT WALL SHOWER MODEL NO. HN200-HD-6 '-0"-S15-HS-VL OR VR, VALVE LEFT OR VALVE RIGHT - REFER TO SHOWER STALL CONFIGURATION FOR VALVE LOCATION. ACCESSIBLE RECESSED-MOUNTING STAINLESS STEEL INDIVIDUAL BARRIER FREE WALL SHOWER UNIT, PREASSEMBLED, LESS GRAB BAR, LESS SEAT, AND LESS CURTAIN. FIXED SHOWER HEAD 6-FEET 0-INCHES ABOVE FINISH FLOOR (BRADLEY SEVERE SERVICE SHOWERHEAD, 1.5 GPM FLOW CONTROL), LEVER HANDLE DIVERTER VALVE, 1.5 GPM HAND HELD SHOWER WITH 60-INCH STAINLESS STEEL FLEXIBLE HOSE AND POST STYLE MOUNTING BRACKET TO SHOWER PANEL, ELEVATED IN-LINE BACKFLOW PREVENTER WITH QUICK-DISCONNECT FOR FLEXIBLE HOSE, LESS BARRIER FREE SEAT, LESS CURTAIN, ROD, AND HOOKS, LESS GRAB BAR.

MOP BASIN DESCRIPTION (MSB-1): CRANE/FIAT MSB 3624, FLUSH TO WALL, ONE-PIECE CAST POLYMER MOP SERVICE BASIN WITH STAINLESS STEEL DOME STRAINER, 36 INCHES BY 24 INCHES BY 10-INCH-HIGH OUTSIDE DIMENSIONS. COLOR: WHITE.FAUCET DESCRIPTION: CHICAGO FAUCETS FITTING 897-RCF, WALL MOUNTED SERVICE SINK FAUCET WITH INTEGRAL STOPS, LEVER HANDLES VACUUM BREAKER SPOUT, HOSE THREAD OUTLET, WALL BRACE, AND PAIL HOOK. FINISH: ROUGH CHROME.
ACCESSORIES:
- A. CRANE/FIAT 832-AA HOSE AND HOSE BRACKET.
- B. CRANE/FIAT 889-CC MOP HANGER.
- C. CRANE/FIAT E77-AA VINYL BUMPER GUARDS (2 REQUIRED).
- D. CRANE/FIAT MSG-3624 STAINLESS STEEL WALL GUARDS; CRANE/FIAT 833-AA SILICONE SEALANT (INSTALL ON ALL EXPOSED EDGES).

ELECTRIC WATER COOLER DESCRIPTION (EWC-1A): ELKAY EZH20 SYSTEM MODEL LZSTL8WSLP, ACCESSIBLE, BI-LEVEL WALL MOUNTED WATER COOLER WITH BOTTLE FILLING STATION, 8.0 GALLONS PER HOUR OF 50 DEGREE F WATER WITH 80 DEGREE F INLET WATER TEMPERATURE AND 90 DEGREE F AMBIENT ROOM TEMPERATURE, ELKAY "FLEXI-GUARD" BUBBLER, CONTROLS LOCATED ON FRONT, RIGHT, AND LEFT HAND SIDES, STAINLESS STEEL BASIN POLISHED TO BRIGHT FINISH WITH INTEGRAL GRID DRAIN AND NO EXPOSED FASTENERS, CONTOURED UPPER SHROUD WITH NO EXPOSED FASTENERS, AND ONE PIECE REMOVABLE LOWER SHROUD. BOTTLE FILLING STATION WITH ELECTRONIC SENSOR AND AUTOMATIC 20 SECOND SHUT OFF TIMER, LED LIGHT ILLUMINATING DISPENSING AREA, 1.1 GPM LAMINAR FLOW, WATERSENTRY PLUS FILTER CERTIFIED TO NSF/ANSI 42 AND 53 FOR LEAD REDUCTION, VISUAL MONITOR TO INDICATE WHEN FILTER REPLACEMENT IS NECESSARY, UNIT SHALL AUTOMATICALLY DETECT NEW FILTER AND RESET VISUAL FILTER MONITOR. COLOR: TWO TONE GRAY UPPER SHROUD AND TEXTURED GRAY LOWER SHROUD, 370 WATTS, 120 VAC, 60 HZ, SINGLE PHASE. INSTALL PER BARRIER FREE AND ADA REQUIREMENTS.
ACCESSORIES:
- A. SUPPORT: ELKAY MODEL MLP200 IN WALL CARRIER SYSTEM WITH HANGER BRACKET AND (3) VERTICAL STEEL UPRIGHTS WITH FEET.
- B. DRAIN AND WASTE FITTING: GRID DRAIN WITH TAILPIECE; CHROME PLATED 17 GAGE BRASS 1-1/4-INCH P-TRAP WITH CLEANOUT AND ARM WITH ESCUTCHEON.
- C. SUPPLY: NPS ½ INCH SOLDERED OR THREADED COPPER CONNECTION TO SUPPLY, NPS 3/8 INCH CHROME PLATED BRASS ANGLED STOP WITH QUARTER TURN ON/OFF OPERATION, BLOW OUT PROOF STEM AND CHROME PLATED METAL DIE CAST HANDLE (NO PLASTIC), CHROME PLATED RIGID COPPER RISER OR STAINLESS STEEL FLEXIBLE SUPPLY.
- D. FILTER: ELKAY 51300C (3) FILTER REPLACEMENT PACK.

ELECTRIC WATER COOLER DESCRIPTION (EWC-2A): ELKAY EZH20 SYSTEM MODEL LZS8WSLP, ACCESSIBLE, SINGLE WALL MOUNTED WATER COOLER WITH BOTTLE FILLING STATION, 8.0 GALLONS PER HOUR OF 50 DEGREE F WATER WITH 80 DEGREE F INLET WATER TEMPERATURE AND 90 DEGREE F AMBIENT ROOM TEMPERATURE, ELKAY "FLEXI-GUARD" BUBBLER, CONTROLS LOCATED ON FRONT, RIGHT, AND LEFT HAND SIDES, STAINLESS STEEL BASIN POLISHED TO BRIGHT FINISH WITH INTEGRAL GRID DRAIN AND NO EXPOSED FASTENERS, CONTOURED UPPER SHROUD WITH NO EXPOSED FASTENERS, AND ONE PIECE REMOVABLE LOWER SHROUD. BOTTLE FILLING STATION WITH ELECTRONIC SENSOR AND AUTOMATIC 20 SECOND SHUT OFF TIMER, LED LIGHT ILLUMINATING DISPENSING AREA, 1.1 GPM LAMINAR FLOW, WATERSENTRY PLUS FILTER CERTIFIED TO NSF/ANSI 42 AND 53 FOR LEAD REDUCTION, VISUAL MONITOR TO INDICATE WHEN FILTER REPLACEMENT IS NECESSARY, UNIT SHALL AUTOMATICALLY DETECT NEW FILTER AND RESET VISUAL FILTER MONITOR. COLOR: TWO TONE GRAY UPPER SHROUD AND TEXTURED GRAY LOWER SHROUD, 370 WATTS, 120 VAC, 60 HZ, SINGLE PHASE. INSTALL PER BARRIER FREE AND ADA REQUIREMENTS.
ACCESSORIES:
- A. SUPPORT: ELKAY MODEL MLP100 IN WALL CARRIER SYSTEM WITH HANGER BRACKET AND (2) VERTICAL STEEL UPRIGHTS WITH FEET.
- B. DRAIN AND WASTE FITTING: GRID DRAIN WITH TAILPIECE; CHROME PLATED 17 GAGE BRASS 1-1/4-INCH P-TRAP WITH CLEANOUT AND ARM WITH ESCUTCHEON.
- C. SUPPLY: NPS ½ INCH SOLDERED OR THREADED COPPER CONNECTION TO SUPPLY, NPS 3/8 INCH CHROME PLATED BRASS ANGLED STOP WITH QUARTER TURN ON/OFF OPERATION, BLOW OUT PROOF STEM AND CHROME PLATED METAL DIE CAST HANDLE (NO PLASTIC), CHROME PLATED RIGID COPPER RISER OR STAINLESS STEEL FLEXIBLE SUPPLY.
- D. FILTER: ELKAY 51300C (3) FILTER REPLACEMENT PACK.

PLUMBING LINE SERVICE DESIGNATIONS

Line	Description
AV	ACID VENT PIPING
AW	ACID WASTE PIPING ABOVE GROUND
AW	ACID WASTE PIPING UNDERGROUND
CA	COMPRESSED AIR PIPING
COND	CONDENSATE PIPING
CW	DOMESTIC COLD WATER PIPING
G	NATURAL GAS PIPING
GSAN	GREASE LADEN SANITARY DRAIN PIPING
HW	DOMESTIC HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
OSAN	OIL LADEN SANITARY DRAIN PIPING
SAN	SANITARY DRAIN PIPING ABOVE GROUND
SAN	SANITARY DRAIN PIPING UNDERGROUND
SAN (FM)	SANITARY FORCED MAIN DRAIN PIPING
SCW	SOFTENED DOMESTIC COLD WATER PIPING
ST	STORM DRAIN PIPING ABOVE GROUND
ST	STORM DRAIN PIPING UNDERGROUND
ST(O)	OVERFLOW STORM DRAIN PIPING
V	SANITARY VENT PIPING
	MATCHLINE
	DIRECTION OF FLOW

NOTE:
NOT ALL PIPE SERVICES MAY BE PRESENT IN CONSTRUCTION DOCUMENTS.

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AV	ACID VENT
AVTR	ACID VENT THROUGH ROOF
AW	ACID WASTE
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CA	COMPRESSED AIR
CBV	CALIBRATED BALANCING VALVE
CLG	CEILING
CO	CLEANOUT
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
CW	DOMESTIC COLD WATER
CWFU	COLD WATER FIXTURE UNITS
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DPB	DOMESTIC WATER PRESSURE BOOSTER
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EX / EXIST	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FSET	FOOD SERVICE EQUIPMENT TRADES
G	NATURAL GAS
GI	GREASE INTERCEPTOR
GSAN	GREASE LADEN SANITARY
H&C	DOMESTIC HOT AND DOMESTIC COLD WATER
HB	HOSE BIBB
HSS	HOLLOW STRUCTURAL SECTION
HW	DOMESTIC HOT WATER
HWFU	HOT WATER FIXTURE UNITS
HWR	DOMESTIC HOT WATER RETURN
IE	INVERT ELEVATION
IOB	ICE MAKER OUTLET BOX
LOC	LOCATION
LT	LAUNDRY TUB
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MFR	MANUFACTURER
MSB	MOP SERVICE BASIN
MIN	MINIMUM
MV	MIXING VALVE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OVERFLOW ROOF DRAIN
OI	OIL INTERCEPTOR
OSAN	OIL LADEN SANITARY
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RFCBV	RESTRICTED FLOW CALIBRATED BALANCING VALVE
RH	ROOF HYDRANT
RPZBFP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SAN	SANITARY
SAN(FM)	SANITARY FORCED MAIN
SCW	SOFTENED DOMESTIC COLD WATER
SH	SHOWER
ST	STORM
ST(O)	STORM OVERFLOW
TD	TRENCH DRAIN
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U	URINAL
USGS	UNITED STATES GEOLOGICAL SURVEY
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET OR WATER COLUMN
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WMB	WASHING MACHINE OUTLET BOX
WSFU	WATER SUPPLY FIXTURE UNITS

NOTE:
NOT ALL ABBREVIATIONS MAY BE PRESENT IN CONSTRUCTION DOCUMENTS.

PLUMBING SYMBOLS LEGEND

Symbol	Description
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CALIBRATED BALANCING VALVE
	RELIEF / SAFETY VALVE
	BACKFLOW PREVENTER WITH DRIP PAN
	HOSE BIBB / WALL HYDRANT
	PLUG VALVE
	ANGLE VALVE
S	SOLENOID VALVE
	PIPE RISER UP
	PIPE RISER DOWN
	UNION
	CAP
	"Y" STRAINER W/BLOWDOWN
	FLEXIBLE CONNECTOR
	CONNECT TO EXISTING
	CONCENTRIC REDUCER
	THERMOMETER
FS	FLOW SWITCH
PS	PRESSURE SWITCH
PT	PRESSURE TAP
TW	THERMOWELL
PI	PRESSURE GAUGE & SHUT OFF
F	COMPRESSED AIR COMB. FILTER, REG. & OILER
	PRESSURE REDUCING VALVE, SELF-CONTAINED
	EXT. PRESSURE REDUCING VALVE

NOTE:
NOT ALL SYMBOLS MAY BE PRESENT IN CONSTRUCTION DOCUMENTS.

GENERAL PLUMBING PIPING INSTALLATION NOTES:

1. COORDINATE ROUTING OF PLUMBING PIPING WITH ALL TRADES. ALL SANITARY PIPING TO BE INSTALLED AND VENTED PER PLANS AND ALL APPLICABLE STATE AND LOCAL CODES.
2. REFER TO PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS WERE USED TO SIZE PIPE AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL PIPE SLEEVES THROUGH FOUNDATION WALLS WITH OTHER TRADES.
5. INSTALL CLEANOUTS AT THE BASE OF ALL DRAIN PIPE STACKS WITH THE CENTER OF THE PLUG LOCATED AT A MINIMUM OF 12 INCHES ABOVE THE FINISH FLOOR, UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER BUILDING ELEMENTS TO ENSURE ACCESS.
6. INSTALL PIPING IN CONCEALED LOCATIONS UNLESS INDICATED OTHERWISE OR WHERE LOCATED IN EQUIPMENT ROOMS AND SERVICE AREAS. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. ROUTE PIPING IN WALLS TO FIXTURE AND EQUIPMENT AT PROPER ELEVATION.
8. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING TILE REMOVAL.
9. INSTALL PIPING TO PERMIT VALVE SERVICING, FREE OF SAGS AND BENDS, AT INDICATED SLOPES, INSTALL FITTINGS FOR CHANGES OF DIRECTION AND BRANCH CONNECTIONS, AND TO ALLOW THE APPLICATION OF INSULATION.
10. UNLESS NOTED OTHERWISE ON THE PLUMBING PLANS, INSTALL DRAIN PIPING 2" AND SMALLER SLOPED AT 1/4" PER FOOT (MINIMUM), AND DRAIN PIPING 3" AND LARGER SLOPED AT 1/8" PER FOOT (MINIMUM).
11. INSTALL SANITARY VENT PIPING SLOPED (GRADED) BACK TO THE DRAINAGE SYSTEM.
12. INSTALL OVERSIZED PIPE HANGERS ON ALL PIPING SYSTEMS WITH A CONTINUOUS VAPOR BARRIER. REFER TO SPECIFICATION SECTION 22 07 19.
13. PIPE HANGERS SHALL NOT BE ATTACHED TO THE ROOF DECK UNLESS INDICATED OTHERWISE.

GENERAL PLUMBING FOOD SERVICE INSTALLATION NOTES:

1. REFER TO PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL REQUIREMENTS.
2. COORDINATE PLUMBING ROUGH IN REQUIREMENTS WITH FOOD SERVICE EQUIPMENT TRADES DRAWINGS AND SPECIFICATIONS.
3. COORDINATE LOCATIONS OF FILTRATION EQUIPMENT INSTALLED UPSTREAM OF FOOD SERVICE EQUIPMENT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES AND BACKFLOW PREVENTERS WHERE REQUIRED AND NOT FURNISHED BY THE FOOD SERVICE EQUIPMENT TRADES.
5. CONTRACTOR SHALL FURNISH AND INSTALL INDIVIDUAL MIXING VALVES (ASSE 1070) ON WATER SUPPLIES TO ALL SINKS IN FOOD SERVICE AREAS EXCEPT FOR 3 COMPARTMENT SINKS AND MOP SERVICE BASINS. FURNISH AND INSTALL SIGNAGE ABOVE THE 3 COMPARTMENT SINKS AND MOP SERVICE BASINS THAT READS AS FOLLOWS: "CAUTION - HOT WATER RISK OF SCALDING".

FIXTURE UNIT VALUES

FIXTURE	DRAINAGE (NOTE 1) DFU	SUPPLY (NOTE 2) HWFU	CWFU	TOTAL
WATER CLOSET (FLUSH VALVE)	4	---	10	10
WATER CLOSET (FLUSH TANK)	4		2	2
URINAL (FLUSH VALVE)	2	---	5	5
LAVATORY	1	1.5	1.5	2
SINK	2	1	1	1.4
SHOWER	2	3	3	4
MOP SERVICE BASIN	2	2.25	2.25	3
WASHING MACHINE OUTLET BOX (WITH STANDPIPE)	2	2.25	2.25	3
WALL HYDRANT / HOSE BIBB	---	---	3	3
ELECTRIC WATER COOLER / DRINKING FOUNTAIN	0.5	---	0.25	0.25
FLOOR DRAIN / FLOOR SINK (2" TRAP)	3	---	---	---
FLOOR DRAIN / FLOOR SINK (3" TRAP)	5	---	---	---
FLOOR DRAIN / FLOOR SINK (4" TRAP)	6	---	---	---
FLOOR DRAIN / FLOOR SINK (EMERGENCY)	---	---	---	---

NOTES:
1. DRAINAGE FIXTURE UNIT VALUES (DFU) TAKEN FROM THE INDIANA PLUMBING CODE
2. SUPPLY FIXTURE UNIT VALUES TAKEN FROM THE INDIANA PLUMBING CODE.
3. NOT ALL PLUMBING FIXTURES MAY BE PRESENT IN CONSTRUCTION DOCUMENTS.

GENERAL PLUMBING EQUIPMENT INSTALLATION NOTES:

1. REFER TO PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL REQUIREMENTS.
2. INSTALL PLUMBING EQUIPMENT, TRIM, FITTINGS, AND OTHER COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. INSTALL PLUMBING EQUIPMENT ON CONCRETE BASE WHERE INDICATED.

GENERAL PLUMBING FIXTURE INSTALLATION NOTES:

1. REFER TO PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL REQUIREMENTS.
2. ASSEMBLE PLUMBING FIXTURES, TRIM, FITTINGS, AND OTHER COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. INSTALL OFF THE FLOOR SUPPORTS AFFIXED TO BUILDING SUBSTRATE FOR WALL MOUNTING FIXTURES. INSTALL BACK OUTLET WALL MOUNTED FIXTURES ONTO WASTE FITTINGS WITH SEALS AND ATTACH TO SUPPORTS. INSTALL WALL MOUNTED FIXTURES WITH TUBULAR WASTE PIPING ATTACHED TO SUPPORTS.
4. INSTALL COUNTER MOUNTED FIXTURES IN AND ATTACHED TO CASEWORK.
5. INSTALL FIXTURES LEVEL AND PLUMB ACCORDING TO ROUGH IN DRAWINGS.
6. INSTALL WATER SUPPLY WITH STOP ON EACH SUPPLY TO EACH FIXTURE TO BE CONNECTED TO WATER DISTRIBUTION PIPING. ATTACH SUPPLIES TO SUPPORTS OR SUBSTRATE WITHIN PIPE SPACES BEHIND FIXTURES. INSTALL STOPS WHERE THEY CAN BE REACHED FOR OPERATION.
7. INSTALL TRAP AND TUBULAR WASTE PIPING ON DRAIN OUTLET OF EACH FIXTURE TO BE DIRECTLY OR INDIRECTLY CONNECTED TO DRAINAGE SYSTEM.
8. INSTALL FLUSHOMETER VALVES FOR ACCESSIBLE WATER CLOSETS AND URINALS WITH THE HANDLE MOUNTED ON THE WIDE SIDE OF THE COMPARTMENT.
9. INSTALL TANKS FOR ACCESSIBLE, TANK TYPE WATER CLOSETS WITH LEVER HANDLE MOUNTED ON THE WIDE SIDE OF THE COMPARTMENT.
10. SET BATHTUBS, SHOWERS, AND MOP SERVICE BASINS IN A LEVELING BED OF CEMENT GROUT.
11. SEAL JOINTS BETWEEN FIXTURES, WALLS, FLOORS, AND COUNTERTOPS USING SANITARY TYPE, ONE PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.

GENERAL DEMOLITION NOTES:

1. ALL EXISTING PLUMBING FIXTURES, EQUIPMENT, AND ASSOCIATED PIPING SHOWN AS DASHED (HEAVY/BOLD) SHALL BE REMOVED. PROTECT EXISTING WORK WHICH IS TO REMAIN IN PLACE FOR REUSE WITH TEMPORARY COVERS, SHORING, BRACING, AND SUPPORTS. EXISTING DOMESTIC COLD, HOT, HOT WATER RETURN, AND NATURAL GAS PIPING LOCATED IN TUNNELS SHALL BE CAPPED AND ABANDONED IN PLACE.
2. THE OWNER RESERVES THE RIGHT OF FIRST REFUSAL IN OWNERSHIP OF ANY EQUIPMENT AND MATERIALS TO BE REMOVED FROM THE BUILDING SITE. ALL EQUIPMENT TO BE REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNERS PROPERTY.
3. INVESTIGATION OF EXISTING PLUMBING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF HIS BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO COVER REMOVAL OF SOME PORTIONS OF PLUMBING SYSTEMS NOT EXPLICITLY SHOWN ON THE DEMOLITION DRAWINGS, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. THE CONTRACTOR SHALL WORK WITH THE ARCHITECT/ENGINEER AND THE OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED. REMOVE ALL INACTIVE PIPING TO THE NEAREST ACTIVE MAINS AND CAP. ABANDONED PIPING SYSTEMS BENEATH THE BUILDING SHALL BE CAPPED AT BOTH ENDS.
4. DEMOLITION OF AN ITEM SHALL INCLUDE REMOVAL OF ALL RELATED HANGERS, SUPPORTS, PIPING, AND ACCESSORIES. REMOVAL OF POWER WIRING SHALL BE BY OTHERS UNLESS INDICATED OTHERWISE.
5. CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS AND OTHER FINISHED SURFACES WHICH ARE NOT SCHEDULED FOR IMMEDIATE REMOVAL. IF SURFACES OR LIGHTS ARE DAMAGED, CONTRACTOR SHALL REPAIR OR REPLACE TO MATCH ORIGINAL CONDITIONS.
6. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL FLOOR, WALL, AND ROOF REPAIR WORK LEFT BY REMOVED ITEMS.

MINIMUM SIZE CONNECTION

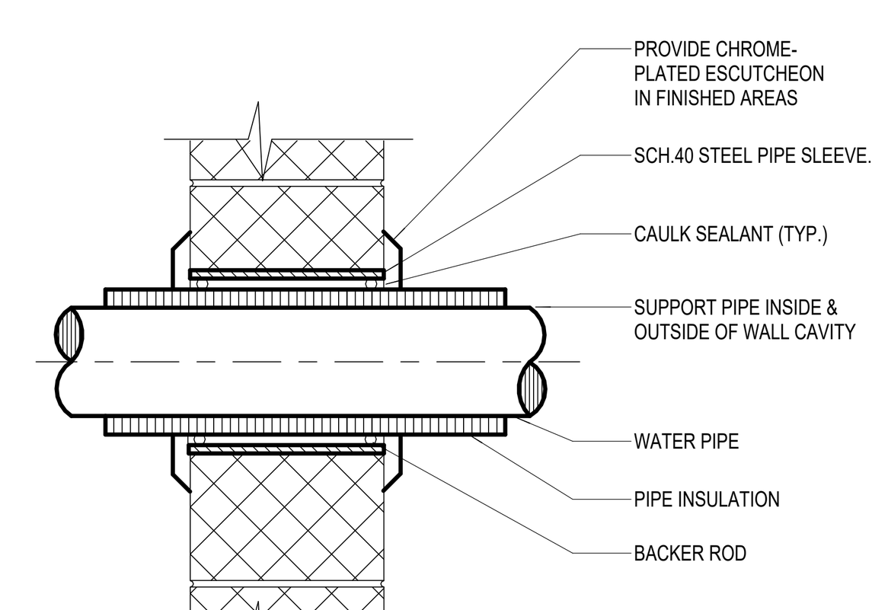
FIXTURE	CW	HW	SAN	VENT
WATER CLOSET (FLUSH VALVE)	1 1/4"	----	4"	2"
URINAL (FLUSH VALVE)	3/4"	----	2"	1 1/2"
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"
SINK	1/2"	1/2"	1 1/2"	1 1/2"
SHOWER	1/2"	1/2"	2"	1 1/2"
MOP SERVICE BASIN	3/4"	3/4"	3"	1 1/2"
WASHING MACHINE OUTLET BOX (WITH STANDPIPE)	3/4"	3/4"	3" (TRAP)	1 1/2"
ICE MAKER OUTLET BOX	1/2"	----	----	----
WALL HYDRANT / HOSE BIBB	3/4"	----	----	----
ELECTRIC WATER COOLER	1/2"	----	1 1/4"	1 1/4"
DRINKING FOUNTAIN	1/2"	----	1 1/4"	1 1/4"
FLOOR DRAIN / FLOOR SINK	----	----	3"	1 1/2"
FLOOR DRAIN / FLOOR SINK (MECHANICAL ROOM)	----	----	4"	2"

NOTE:
NOT ALL PLUMBING FIXTURES MAY BE PRESENT IN CONSTRUCTION DOCUMENTS.

WATER HAMMER ARRESTOR LEGEND

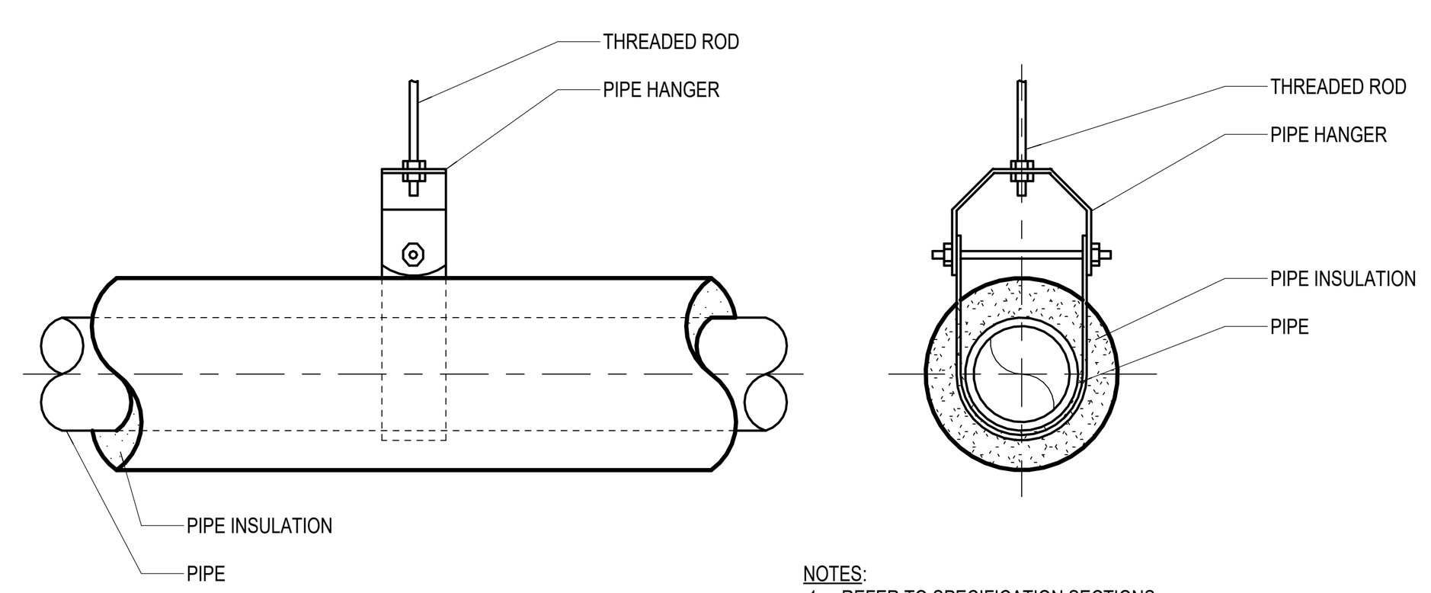
SYMBOL	PDI RATING	FIXTURE UNIT CAP
A	A	1-11
B	B	12-32
C	C	33-60
D	D	61-113
E	E	114-154
F	F	155-330

NOTE:
PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF WATER HAMMER ARRESTORS. REFER TO SPECIFICATION SECTION 22 11 19 AND MANUFACTURERS RECOMMENDATIONS.



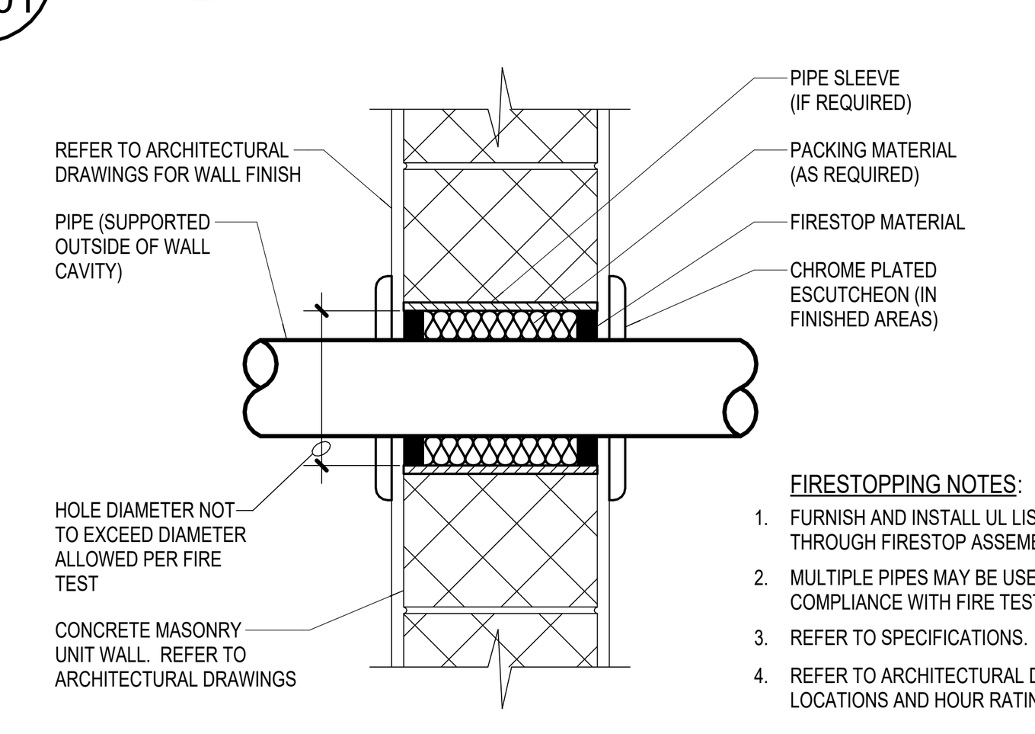
NOTE:
SIMILAR FOR INSULATED PIPE. INSULATION SHALL BE CONTINUOUS THROUGH WALL

4 / P0.01 PIPE WALL SLEEVE (NON-RATED WALL)
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATION SECTIONS FOR HANGERS AND SUPPORTS FOR PLUMBING PIPING SUBMITTALS, PRODUCTS, AND INSTALLATION REQUIREMENTS.
2. REFER TO PROJECT SPECIFICATIONS FOR PLUMBING PIPING INSULATION SUBMITTALS (INCLUDING MOCK UPS), PRODUCTS, AND INSTALLATION REQUIREMENTS.

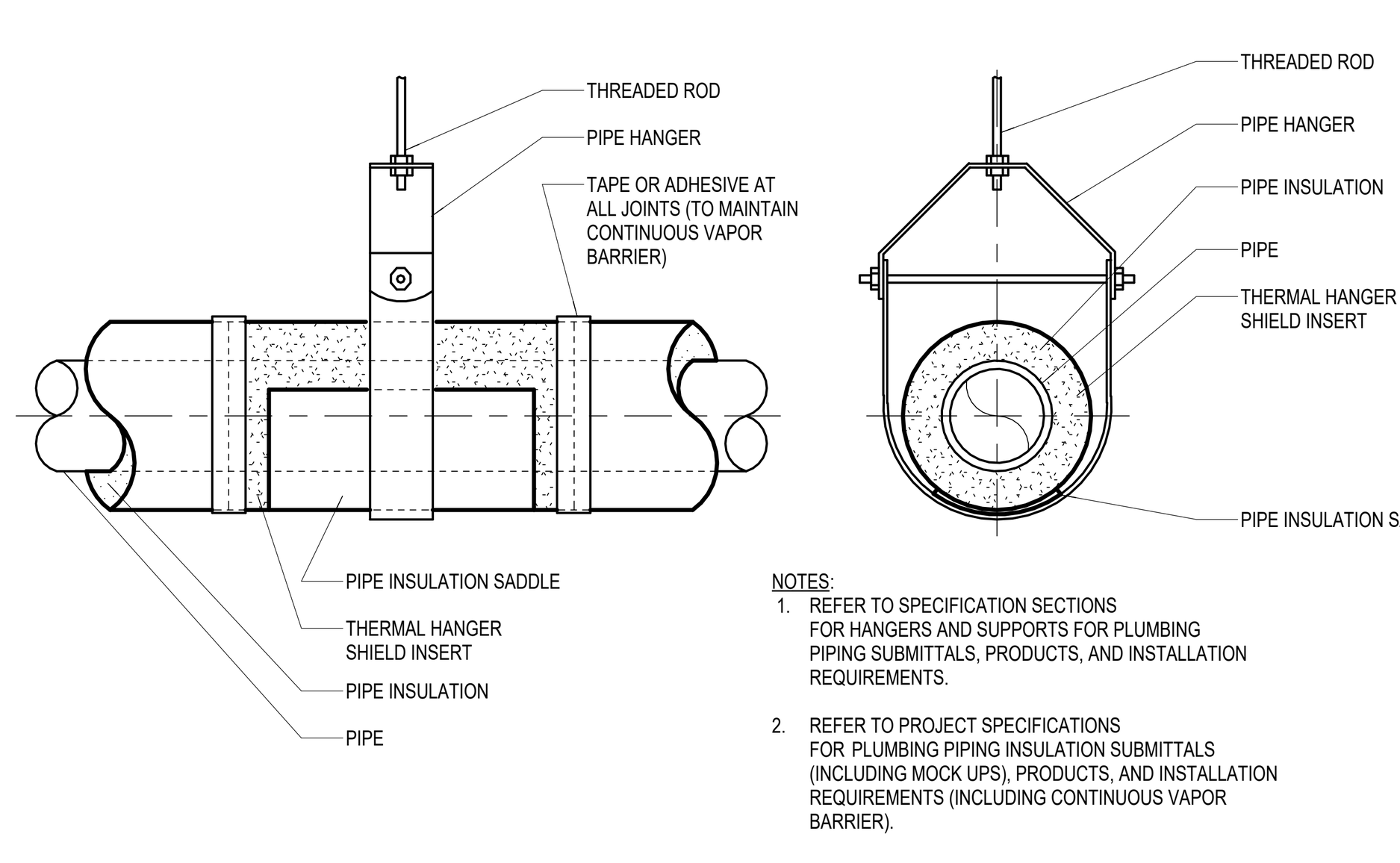
2 / P0.01 PIPE HANGER WITH INSULATION DETAIL (ABOVE AMBIENT)
NOT TO SCALE



FIRESTOPPING NOTES:
1. FURNISH AND INSTALL UL LISTED COMPLETE THROUGH FIRESTOP ASSEMBLY.
2. MULTIPLE PIPES MAY BE USED WHEN IN COMPLIANCE WITH FIRE TEST.
3. REFER TO SPECIFICATIONS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND HOUR RATINGS FOR WALLS.

NOTE:
SIMILAR FOR INSULATED PIPE. INSULATION SHALL BE CONTINUOUS THROUGH WALL

3 / P0.01 FIRESTOPPING AT BLOCK WALL PENETRATION DETAIL
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATION SECTIONS FOR HANGERS AND SUPPORTS FOR PLUMBING PIPING SUBMITTALS, PRODUCTS, AND INSTALLATION REQUIREMENTS.
2. REFER TO PROJECT SPECIFICATIONS FOR PLUMBING PIPING INSULATION SUBMITTALS (INCLUDING MOCK UPS), PRODUCTS, AND INSTALLATION REQUIREMENTS (INCLUDING CONTINUOUS VAPOR BARRIER).

1 / P0.01 PLUMBING PIPE HANGER WITH INSULATION DETAIL (BELOW AMBIENT)
NOT TO SCALE

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1
WESTERN WAYNE SCHOOLS
CAMBRIDGE CITY, INDIANA

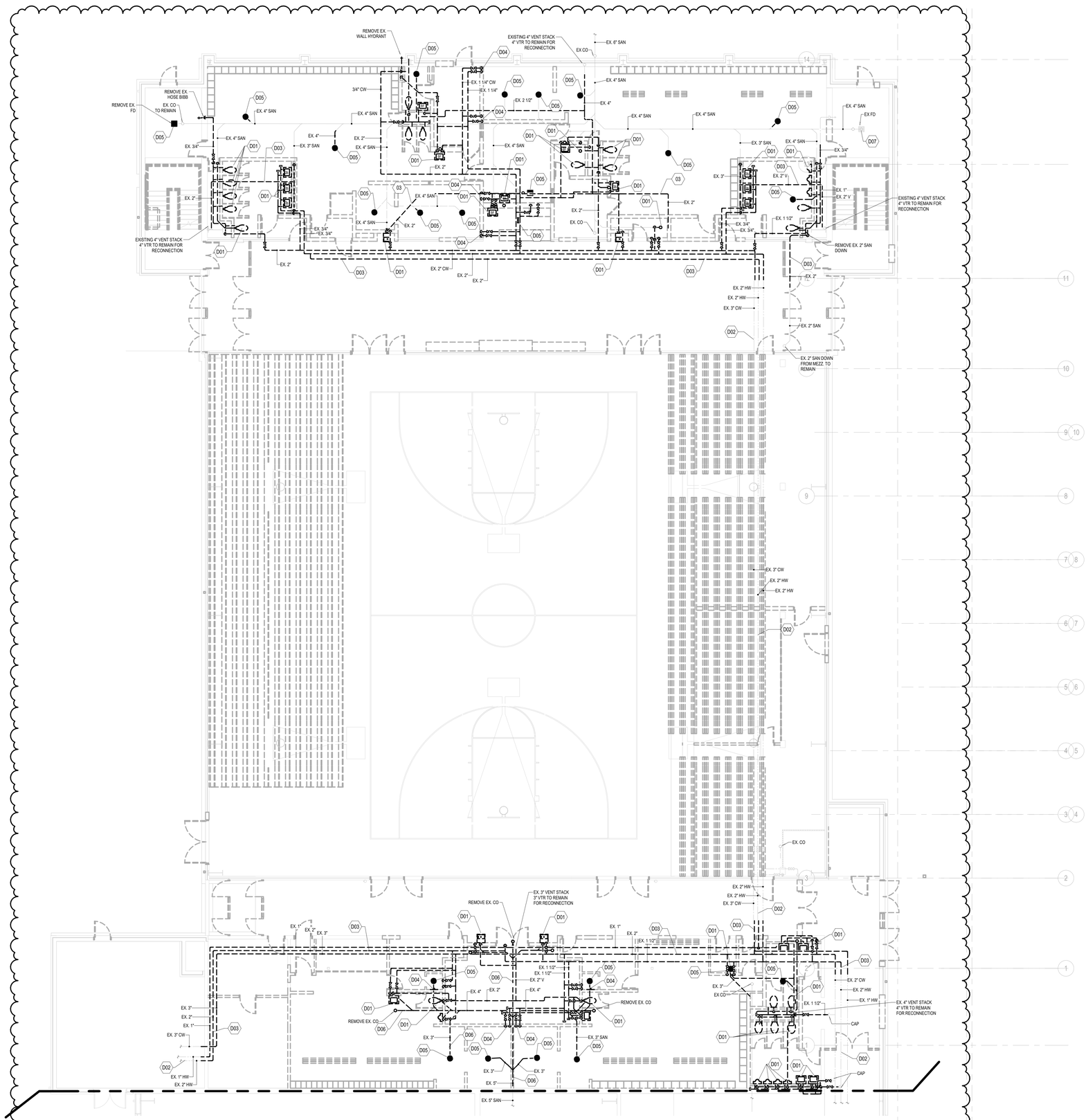
ISSUANCES
01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN DAL
REVIEWED AJM

PROJECT NO. 5-6394

PLUMBING GENERAL INFORMATION

P0.01



PLUMBING DEMO KEYNOTE LEGEND

D01	REMOVE EXISTING PLUMBING FIXTURE, FAUCET, FLUSH VALVE, P-TRAPS, SUPPLIES AND ALL RELATED ACCESSORIES LOCATED IN THIS AREA. CAP WASTE PIPING BELOW FLOOR. REMOVE VENT, HOT WATER AND COLD WATER PIPING BACK TO NEAREST MAIN AND CAP. SAW-CUT AND PATCH CONCRETE FLOOR AS REQUIRED FOR THE REMOVAL AND CAPPING OF PIPING.
D02	EXISTING PIPING LOCATED OVERHEAD ABOVE CEILING TO REMAIN.
D03	REMOVE EXISTING PIPING LOCATED ABOVE CEILING.
D04	REMOVE EXISTING SHOWERS, WALL SHROUD, RELATED PIPING AND THERMOSTATIC MIXING VALVE IN WALL CABINET.
D05	REMOVE EXISTING FLOOR DRAIN AND RELATED PIPING. CAP PIPING BELOW FLOOR. PATCH AND REPAIR EXISTING CONCRETE FLOOR.
D06	REMOVE EXISTING SANITARY DRAIN PIPING LOCATED BELOW FLOOR.
D07	EXISTING FLOOR DRAIN TO REMAIN. CLEAN AND JET DRAIN BODY AND SANITARY PIPING TO ENSURE PROPER DRAINAGE.

UNIT 'A' PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

gmb
Maze Design, Inc.

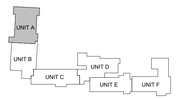
WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES
01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN	DAL
REVIEWED	AJM
PROJECT NO.	5-6394



KEYPLAN

UNIT 'A' PLUMBING DEMOLITION PLAN

P1.1A

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394P 2022.rvt
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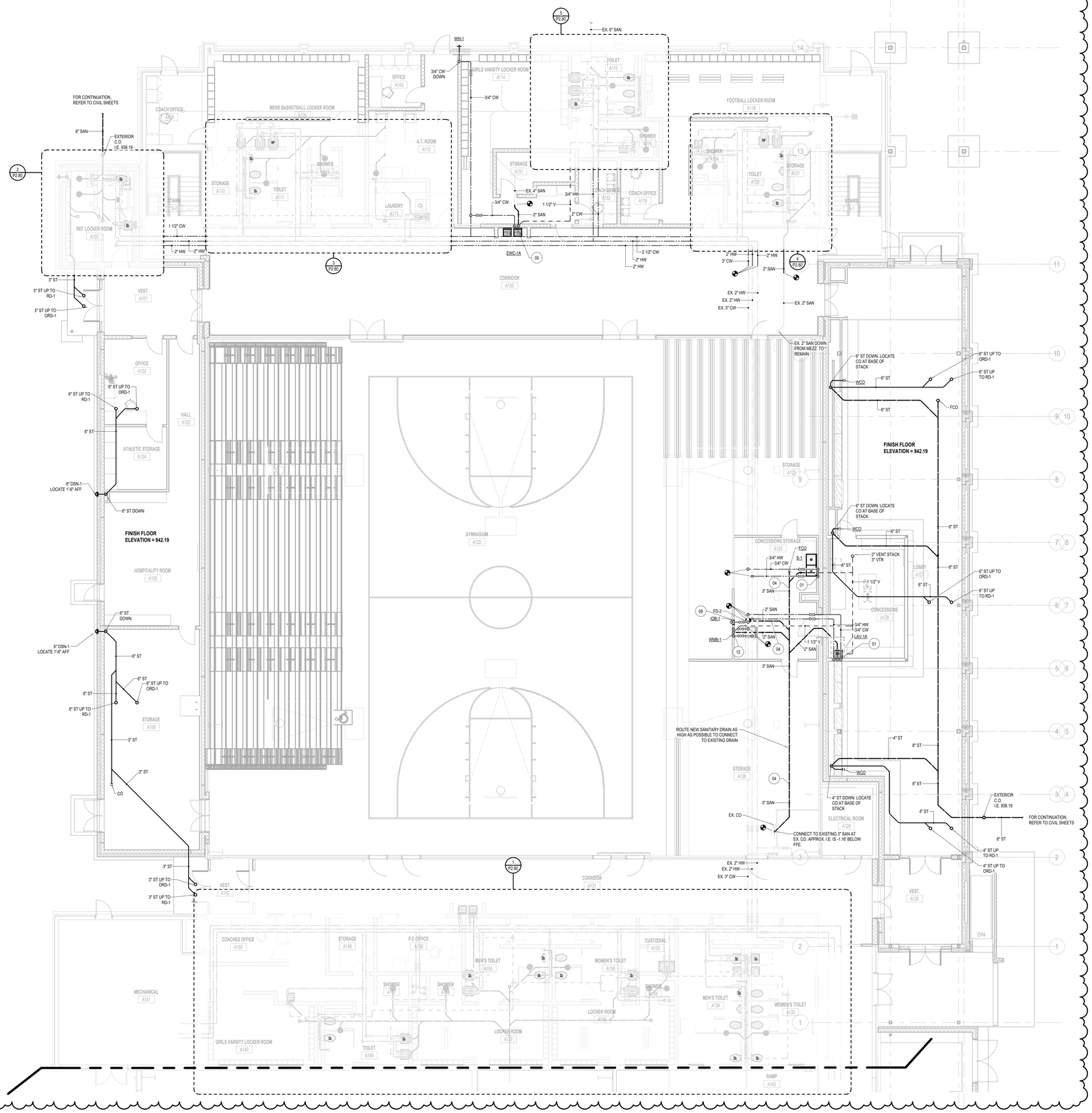
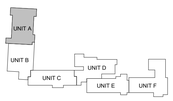
	PLUMBING KEYNOTE LEGEND
01	ROUTE 3/4" HW AND CW DOWN IN WALL, 2" WASTE DOWN AND 1 1/2" VENT UP TO ABOVE CEILING.
04	SAW-CUT EXISTING CONCRETE FLOOR FOR THE INSTALLATION OF NEW PIPING. PATCH AND REPAIR FLOOR TO MATCH SURROUNDING MATERIALS.
05	ROUTE 3/4" COLD WATER DOWN, 2" WASTE DOWN AND 1 1/2" VENT UP.
09	ROUTE 1/2" COLD WATER DOWN TO OUTLET BOX IOB-1. PROVIDE EVERPURE MODEL NO. QL2OW200L EV9275-70 WATER FILTER ON WATER SUPPLY SERVING ICE MACHINE. ROUTE AND PROVIDE COPPER INDIRECT WASTE PIPING FROM ICE MACHINE TO FUNNEL FLOOR DRAIN.
12	ROUTE 3/4" HOT AND COLD WATER DOWN TO WASHER BOX. 2" WASTE (STANDPIPE) DOWN AND 1 1/2" VENT UP. FINAL CONNECT WATER SUPPLY AND DRAIN PIPING FROM WASHER BOX TO DISHWASHER.



UNIT 'A' PLUMBING PLAN
1/8" = 1'-0"



KEYPLAN

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN DAL
REVIEWED AJM

PROJECT NO. 5-6394

UNIT 'A' PLUMBING PLAN

P2.1A

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394P 2022.rvt
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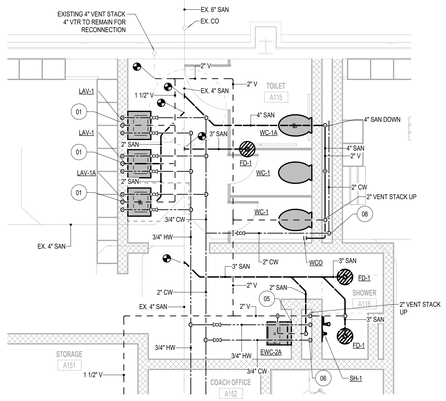
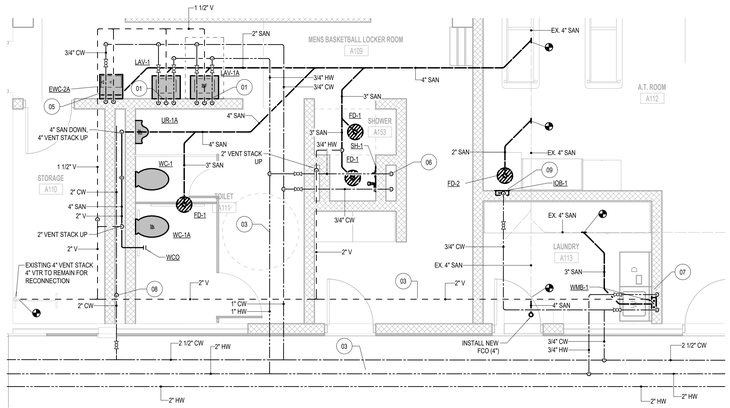
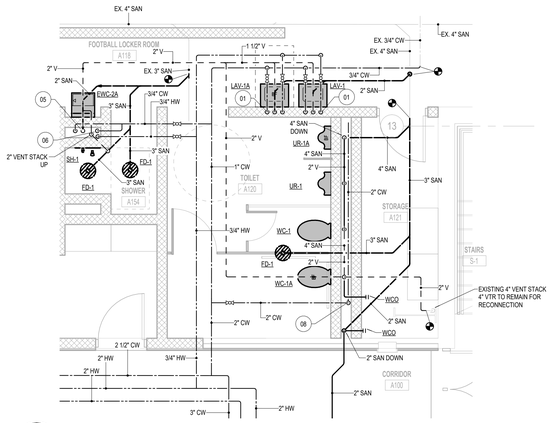
	PLUMBING KEYNOTE LEGEND
01	ROUTE 3/4" HW AND CW DOWN IN WALL, 2" WASTE DOWN AND 1 1/2" VENT UP TO ABOVE CEILING.
02	ROUTE 1 1/2" COLD WATER DOWN. ROUTE PIPE HEADER FULL SIZE AND CONNECT TO EACH FIXTURE. PROVIDE WATER HAMMER ARRESTOR SIZE "A" ON COLD WATER PIPING.
03	ROUTE NEW PIPING ABOVE CEILING.
05	ROUTE 3/4" COLD WATER DOWN, 2" WASTE DOWN AND 1 1/2" VENT UP.
06	ROUTE 3/4" HOT AND COLD WATER DOWN TO SHOWER VALVE CONNECTION.
07	ROUTE 3/4" HOT AND COLD WATER DOWN TO WASHER BOX, 3" WASTE (STANDPIPE) DOWN AND 2" VENT UP.
08	ROUTE 2" COLD WATER DOWN IN CHASE. ROUTE PIPE HEADER FULL SIZE AND CONNECT TO EACH FIXTURE. PROVIDE WHA SIZE "C" ON COLD WATER PIPING
09	ROUTE 1/2" COLD WATER DOWN TO OUTLET BOX 108-1. PROVIDE EVERPURE MODEL NO. QL2OW300L EV9275-70 WATER FILTER ON WATER SUPPLY SERVING ICE MACHINE. ROUTE AND PROVIDE COPPER INDIRECT WASTE PIPING FROM ICE MACHINE TO FUNNEL FLOOR DRAIN.
10	ROUTE 2 1/2" COLD WATER DOWN. ROUTE PIPE HEADER FULL SIZE AND CONNECT TO EACH FIXTURE. PROVIDE WATER HAMMER ARRESTOR SIZE "D" ON COLD WATER PIPING.
11	ROUTE 3/4" HW AND CW DOWN IN WALL, 3" WASTE DOWN AND 2" VENT UP TO ABOVE CEILING.



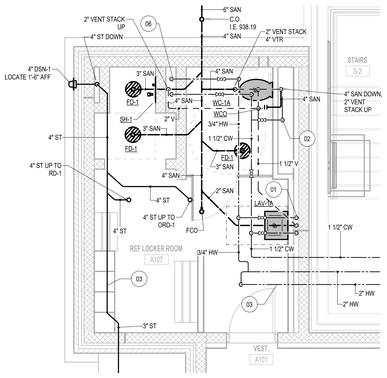
5 P2.80 ENLARGED TOILET AND SHOWER PLUMBING PLAN
1/4" = 1'-0"



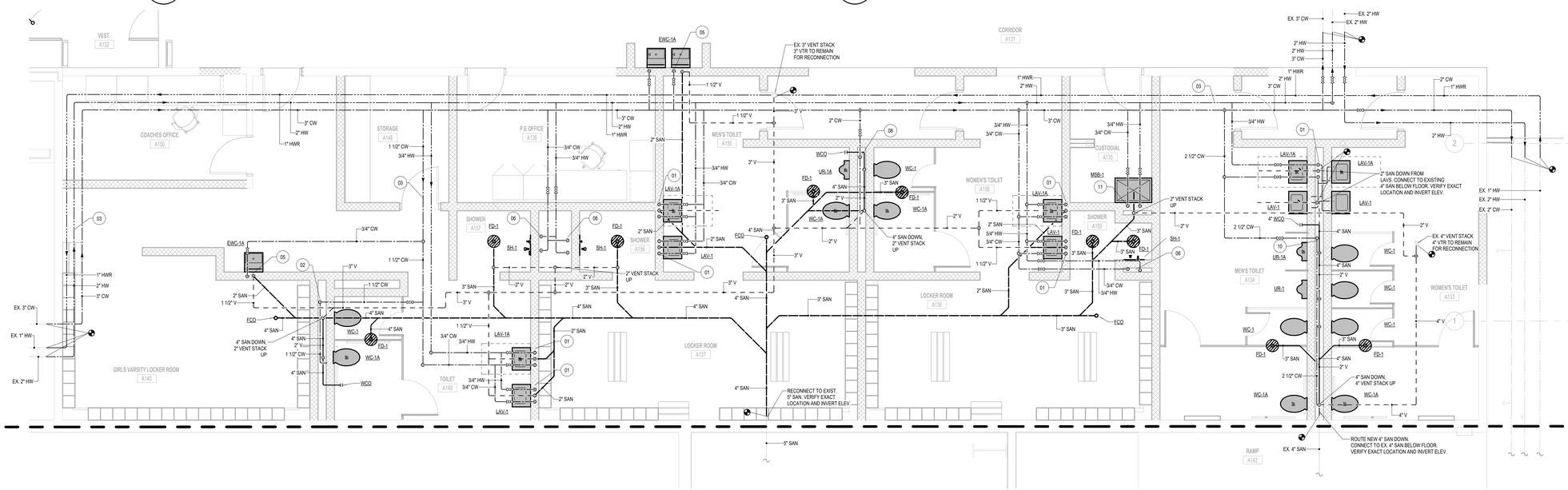
3 P2.80 ENLARGED MENS BASKETBALL LOCKER ROOM PLUMBING PLAN
1/4" = 1'-0"



4 P2.80 ENLARGED TOILET PLUMBING PLAN
1/4" = 1'-0"



2 P2.80 ENLARGED REF LOCKER ROOM PLUMBING PLAN
1/4" = 1'-0"



1 P2.80 ENLARGED VARSITY LOCKER ROOM AND MENS AND WOMENS TOILET PLUMBING PLAN
1/4" = 1'-0"

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

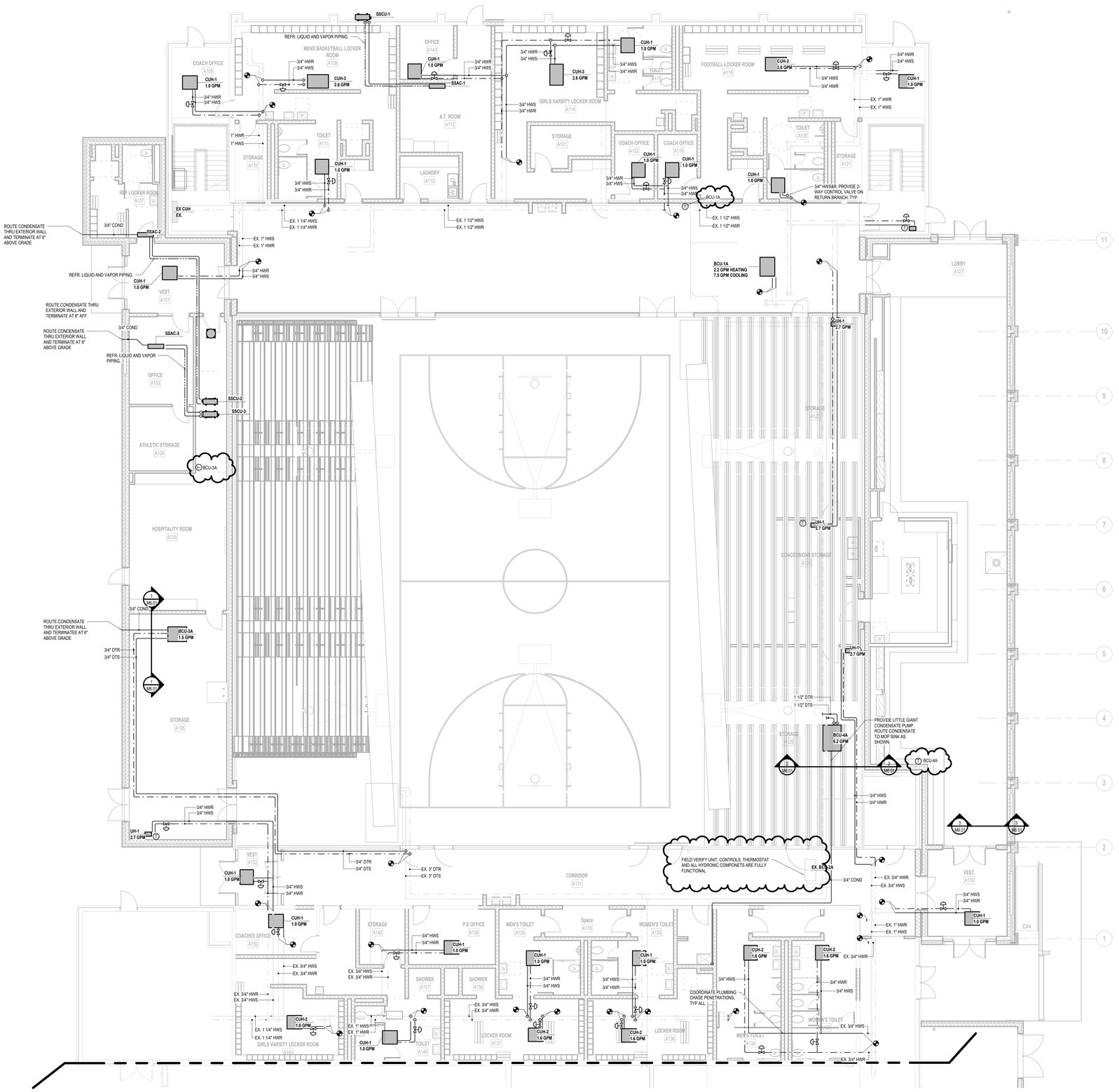
01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN DAL
REVIEWED AJM

PROJECT NO. 5-6394

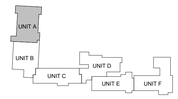
ENLARGED PLUMBING PLANS

P2.80



UNIT 'A' FIRST FLOOR HYDRONIC PLAN

1/8" = 1'-0"



KEYPLAN

gmb

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WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

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UNIT 'A' FIRST FLOOR HYDRONIC PLAN

M3.1A

BLOWER COIL UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	DISCHARGE	SUPPLY AIR							COOLING COIL												HEATING COIL					FILTRATION		ELECTRICAL						OPER. WEIGHT (LB)	NOTES
					CFM	MIN OA CFM	TSP (in-wg)	ESP (in-wg)	RPM	DRIVE	BHP	MOTOR HP	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	FACE VEL (FPM)	APD (°WC)	FLUID TYPE	GPM	EWT (°F)	LWT (°F)	MAX WPD (FT)	ROWS	TOTAL MBH	SENSIBLE MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP	FLA		
BCU-1A	A100 LOBBY	TRANE	BCVE024	HORIZONTAL	1200	0	2.1	1.5	1836	DIRECT	.92	.97	77	64	54.1	53.4	400	0.5	WATER	7.5 GPM	44	54	8.82	4	18.93	30.27	60	104	2.2	140	88.2	0.9	PLEATED	8	2"	208	3	5.8	15	5	195	1, 2
BCU-3A	HOSPITALITY ROOM	TRANE	BCVE024	HORIZONTAL	700	150	2.1	1.5	1879	DIRECT	.52	.96	77	64	55.6	55	420	0.4	WATER	3.8 GPM	44	54	1.82	4	18.93	16.46	60	104	1.5	140	95.6	0.3	PLEATED	8	2"	208	3	5.8	15	5	190	1, 2
BCU-4A	LOBBY	TRANE	BCVE120	HORIZONTAL	3100	600	2	1.5	1232	DIRECT	1.856	2.8	77	64	54.6	54	406	0.4	WATER	18.3 GPM	44	54	3.21	4	92.03	76.33	60	104	6.2	140	92.4	0.4	PLEATED	8	2"	208	3	14	25	11	505	1, 2

GENERAL REQUIREMENTS:

1. DISCONNECTS WILL MFGR PROVIDED

NOTES:

1. INTEGRATE TO EXISTING BMS SYSTEM.
2. PROVIDE ECM.
3. PROVIDE STAINLESS STEEL CONDENSATE DRAIN PAN WITH WET SWITCH ALARM.

CABINET UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CONFIGURATION	INLET	DISCHARGE	CFM	CAPACITY MBH	FLUID TYPE	ROWS	GPM	EWT (°F)	LWT (°F)	MAX. WPD (FT)	ELECTRICAL			NOTES
														VOLT	PH	HZ	
CUH-1	TRANE	FFEB020	HORIZONTAL RECESSED	BOTTOM STAMPED	BOTTOM STAMPED	200	9.66	WATER	2	1.0	135.0	115.0	4.45	208	1	60	1, 2, 3
CUH-2	TRANE	FFEB030	HORIZONTAL RECESSED	BOTTOM STAMPED	BOTTOM STAMPED	400	15.42	WATER	2	1.6	135.0	115.0	10.13	208	1	60	1, 2, 3
CUH-3	TRANE	FFEB060	HORIZONTAL RECESSED	BOTTOM STAMPED	BOTTOM STAMPED	600	25.64	WATER	2	2.6	135.0	115.0	7.66	208	1	60	1, 2, 3

NOTES:

1. CONTROLLED BY BMS.
2. W/ MANUFACTURER PROVIDED 2-WAY CONTROL VALVE.
3. W/ UNIT MOUNTED THERMOSTAT.

UNIT HEATER (HYDRONIC) SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	CFM	HEATING COIL					ELECTRICAL					NOTES
					CAPACITY (MBH)	GPM	H2O DELTA T	LAT (°F)	MAX.WPD (FT)	FLUID TYPE	MOTOR HP	VOLT	PH	HZ	MCA	FLA	
UH-1	STORAGE HEATING	STERLING	HS-036B	550	26.1	2.7	20	103	0.09	WATER	25 W	115	1	60	2	1	1, 2, 3

NOTES:

1. CONTROLLED BY BMS
2. INCLUDE 2-WAY MOTORIZED SHUTOFF VALVE
3. WALL MOUNTED THERMOSTAT

DIFFUSER SCHEDULE

MARK	MODEL	DESCRIPTION	BORDER TYPE	MATERIAL	NECK SIZE	NOTES
EG-1	50F	EGGCRATE EXHAUST GRILLE	LAY-IN	Aluminum - Titus - 26 White	8" X 8"	2
EG-2	350RL	DUCT MOUNTED EXHAUST GRILLE	SURFACE MOUNT	Steel - Titus - 26 White	6"x4"	4
EG-3	50F	EGGCRATE EXHAUST GRILLE	SURFACE MOUNT	Aluminum - Titus - 26 White	8" X 8"	1
R-1	45F	SIGHT PROOF EGGCRATE RETURN GRILLE	LAY-IN	Steel - Titus - 26 White	8" X 8"	3
R-2	45F	SIGHT PROOF EGGCRATE RETURN GRILLE	SURFACE MOUNT	Steel - Titus - 26 White	24"x24"	3
S-1	OMNI	SQUARE PLAQUE DIFFUSER	LAY-IN	Steel - Titus - 26 White	6"ø	3
S-2	OMNI	SQUARE PLAQUE DIFFUSER	LAY-IN	Steel - Titus - 26 White	8"ø	3
S-3	OMNI	SQUARE PLAQUE DIFFUSER	LAY-IN	Steel - Titus - 26 White	10"ø	3
S-4	300RL	DUCT MOUNTED SUPPLY GRILLE	SURFACE MOUNT	Steel - Titus - 26 White	12"x8"	4

GENERAL REQUIREMENTS:

1. MODELS BASED ON TITUS.

NOTES:

1. 12" X 12" MODULE SIZE
2. 24" X 12" MODULE SIZE
3. 24" X 24" MODULE SIZE
4. MOUNT AIR-TIGHT TO DUCT.

FAN SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	TYPE	WHEEL DIA. (IN)	CFM	SONES	ESP (in-wg)	OV (FPM)	RPM	DRIVE	BHP	MOTOR HP	ELECTRICAL			OPER. WEIGHT (LB)	NOTES
														VOLT	PH	HZ		
EF-1	UNIT A SOUTH LOCKER ROOMS	GREENHECK	G-140-VG	ROOFTOP DOWNBLAST	14 5/8	2155	13.8	0.67	1633	1422	Direct	0.59	1	115	1	60	93	1
EF-2	UNIT A SOUTH LOCKER ROOMS	GREENHECK	G-140-VG	ROOFTOP DOWNBLAST	14 5/8	1680	9.1	0.33	1273	1072	Direct	0.25	1	115	1	60	93	1
EF-3	A106 STORAGE	GREENHECK	G-095-VG	ROOFTOP DOWNBLAST	10 7/8	400	4.6	0.25	345	1067	Direct	0.04	1/6	115	1	60	43	1
EF-4	A123,A126 STORAGE/ 128 CONCESSIONS	GREENHECK	G-100-VG	ROOFTOP DOWNBLAST	11 1/8	780	5.9	0.33	867	1179	Direct	0.09	1/4	115	1	60	62	1
EF-5	A107 REF LOCKER ROOM	GREENHECK	CUE-080-VG	SIDEWALL UPBLAST	10 7/8	150	4.3	0.25	375	1083	Direct	0.02	1/10	115	1	60	48	1
EF-6	UNIT A NORTH LOCKER ROOMS	GREENHECK	CUE-160-VG	SIDEWALL UPBLAST	16 5/8	2975	17	0.8	1730	1306	Direct	0.85	2	208	1	60	141	1
EF-7	UNIT A NORTH LOCKER ROOMS	GREENHECK	CUE-140-VG	SIDEWALL UPBLAST	14 5/8	1625	10.4	0.5	945	1154	Direct	0.29	1/2	115	1	60	94	2

GENERAL REQUIREMENTS:

1. PROVIDE FACTORY INSTALLED DISCONNECT
2. PROVIDE GRAVITY BACKDRAFT DAMPERS.
3. BIRDSCREEN.
4. INTEGRATE TO EXISTING BMS.
5. PROVIDE ECM.

NOTES:

1. FAN TO RUN DURING OPERATING HOURS SET AT THE EXISTING BMS. INTERLOCK WITH OCCUPANCY SENSOR IN LARGEST AREA SERVED BY FAN TO ENABLE FAN WHEN OCCUPANCY IS DETECTED.
2. FAN TO RUN CONTINOUS.

SPLIT SYSTEM - INDOOR UNIT SCHEDULE

MARK	MARK	SERVICE	MANUFACTURER	MODEL	CONFIGURATION	FAN DATA	COOLING		ELECTRICAL			OPER. WEIGHT (LB)	NOTES
						CFM	CAPACITY BTUH	REFRIGERANT	VOLT	PH	MCA	FLA		
SSAC	SSAC-1	A112 A.T. ROOM	TRANE	NTXWPH12B112AA	WALL MOUNTED	454	12000	R454B	208	1	1.00	0.65	29	1, 2, 3
SSAC	SSAC-2	A107 REF LOCKER ROOM	TRANE	NTXWPH12B112AA	WALL MOUNTED	454	12000	R454B	208	1	1.00	0.65	29	1, 2, 3
SSAC	SSAC-3	A103 OFFICE	TRANE	TPEADA012IAA70A	DUCTED	494	12000	R454B	208	1	1.45	1.16	58	2, 3

SPLIT SYSTEM - OUTDOOR UNIT SCHEDULE

	UNIT SERVED	MANUFACTURER	MODEL	NOMINAL TONS	COMPRESSOR DATA		EFFICIENCY			ELECTRICAL				OPER. WEIGHT (LB)	NOTES
					TYPE	NUMBER	EER	SEER	HSPF	VOLT	PH	MCA	MOP		
SSCU-1	A112 A.T. LOCKER ROOM	TRANE	NTXSPH12B112AA	1	TWIN ROTARY	1	13.8	26.3	11.1	208	1	10	15	83	4, 5
SSCU-2	A107 REF LOCKER ROOM	TRANE	NTXSPH12B112AA	1	TWIN ROTARY	1	13.8	26.3	11.1	208	1	10	15	83	4
SSCU-3	A106 STORAGE	TRANE	NTXSKH12A112AA	1	TWIN ROTARY	1	14.1	19.3	11	208	1	14	24	129	4

NOTES:

1. INDOOR UNIT SHALL BE WALL-HUNG CONFIGURATION WITH MOUNTING BRACKETS
2. PROVIDE AN INTEGRAL FACTORY CONDENSATE PUMP
3. SPACE TEMPERATURE SENSOR SHALL BE HARD-WIRED
4. OUTDOOR UNIT SHALL BE CAPABLE OF HIGH HEATING CAPACITIES AT LOW OA TEMPERATURES, SIMILAR TO TRANE HYPER HEAT MODELS.
5. OUTDOOR UNIT SHALL BE MOUNTED 4' ABOVE GRADE ON EXTERIOR WALL.

VENTILATOR (INTAKE) SCHEDULE

MARK	MARK	SERVICE	MANUFACTURER	MODEL	TYPE	CFM	THROAT VELOCITY (FPM)	THROAT		APD (in-wg)	DAMPER	OPER. WEIGHT (LB)	NOTES
								SIZE (IN x IN)	AREA (SQ FT)				
IV	IV-1A	SSAC-3 VENTILATION AIR	GREENHECK	GRSI-8	GRAVITY	100	270	8	.4	.013	GRAVITY	20	1, 2, 3, 4
IV	IV-3A	BC-3A VENTILATION AIR	GREENHECK	GRSI-8	GRAVITY	180	500	8	.4	.041	GRAVITY	20	1, 2, 3, 4
IV	IV-4A	BC-4A VENTILATION AIR	GREENHECK	GRSI-16	GRAVITY	600	500	16	1.5	.026	GRAVITY	30	1, 2, 3, 4

GENERAL REQUIREMENTS:

1. CONTRACTOR SHALL VERIFY DUCTWORK CONNECTION SIZES AND COORDINATE LOCATION PRIOR TO ORDERING.
2. SEAL ROOF PENETRATION WATER-TIGHT.

NOTES:

1. BIRDSCREEN
2. 24" PRE-INSULATED ROOF CURB TO MATCH ROOF SLOPE
3. BACKDRAFT DAMPER
4. ANTI-CONDENSATE COATING

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN GSH
REVIEWED LDE

PROJECT NO. 5-6394

MECHANICAL SCHEDULES

M9.01

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394M 2022.rvt
1/16/2025 8:28:22 AM

POWER & COMMUNICATION GENERAL NOTES

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.01.
2. REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
3. ALL GENERAL-USE 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE; REFER TO NEC 406.12 AND SPECIFICATION SECTION 26 27 26.
4. PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
   A. REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
   B. CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPER(S) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
   C. TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
   D. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER (UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET).
   E. PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
5. PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC.
6. DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
7. PROVIDE INFRASTRUCTURE ONLY FOR COMMUNICATIONS, ACCESS CONTROL, AND FIRE ALARM SYSTEMS. DEVICES SHOWN TO PROVIDE QUANTITIES ONLY. COORDINATE FINAL LOCATIONS OF ALL DEVICES WITH INSTALLER PRIOR TO ROUGH-IN.

ELECTRICAL KEYNOTES

P01	COORDINATE WITH THE LOCAL UTILITY TO INSTALL THE RELOCATED EXISTING UTILITY TRANSFORMER. PROVIDE NEW SECONDARY FEEDERS FROM TRANSFORMER TO SWITCHBOARD 'SB1'.
P02	PROVIDE NEW SWITCHBOARD TO REPLACE THE EXISTING SWITCHBOARD 'MPP'. EXTEND EXISTING FEEDERS AS NECESSARY TO TERMINATE AT NEW SWITCHBOARD.
P03	MOUNT RECEPTACLES IN CASEWORK.
P04	REPLACE ALL RECEPTACLES AND FACEPLATES IN GYMNASIUM WITH NEW DEVICES
P05	MOUNT RECEPTACLES BEHIND EX. TELECOMMUNICATIONS RACK WHERE DIRECTED BY THE OWNER.
P08	POWER SUPPLY FOR BLEACHERS. CONFIRM POWER REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
P09	POWER SUPPLY AND COMMUNICATIONS ROUGH-IN FOR SCOREBOARD. CONFIRM POWER REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
P10	POWER FOR MOTORIZED BASKETBALL BACKBOARD. CONFIRM POWER REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO ROUGH. MOUNT DISCONNECT TO STRUCTURE ADJACENT TO MOTOR. CIRCUIT HOMERUN THROUGH WALL CONTROLS. INSTALL CONTROLS WHERE DIRECTED BY OWNER.
P11	MOUNT RECEPTACLE ON PLATFORM ABOVE BLEACHERS.
P12	PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH ABOVE CEILING WERE ACCESSIBLE FOR ALL CABINET UNIT HEATERS. INSTALL SWITCH ADJACENT TO EQUIPMENT WHERE POSSIBLE. PROVIDE 5A FUSE. CONFIRM FUSE SIZE WITH FINAL APPROVED MANUFACTURER.
P13	MOUNT DISCONNECT SWITCH ON ROOF ADJACENT TO EQUIPMENT.
P14	MOUNT DISCONNECT SWITCH ON WALL ADJACENT TO EQUIPMENT.
P15	SOUND SYSTEM RACK LOCATION. CONFIRM WITH OWNER PRIOR TO ROUGH-IN.
P16	FOR FLOORBOXES, BORE CONDUIT TO SOUND SYSTEM RACK LOCATION. DO NOT CUT FLOOR WITHOUT PRIOR CONSENT FROM OWNER.

UNIT 'A' FIRST FLOOR POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"

KEYPLAN

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WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

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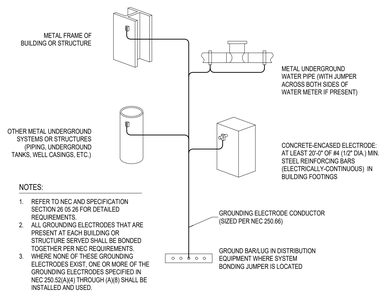
DRAWN JDM
REVIEWED SMS

PROJECT NO. 5-6394

UNIT 'A' FIRST FLOOR POWER & COMMUNICATIONS PLAN

E2.1A

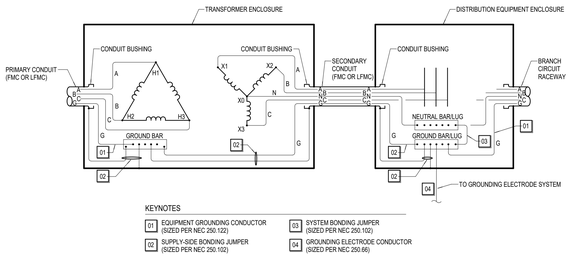


NOTES:

1. REFER TO NEC AND SPECIFICATION SECTION 26 05 26 FOR DETAILED REQUIREMENTS.
2. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER PER NEC REQUIREMENTS.
3. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN NEC 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED.

4 / E4.01 GROUNDING ELECTRODE SYSTEM DETAIL

NOT TO SCALE



KEYNOTES

01	EQUIPMENT GROUNDING CONDUCTOR (SIZED PER NEC 250.122)	03	SYSTEM BONDING JUMPER (SIZED PER NEC 250.102)
02	SUPPLY-SIDE BONDING JUMPER (SIZED PER NEC 250.102)	04	GROUNDING ELECTRODE CONDUCTOR (SIZED PER NEC 250.66)

3 / E4.01 SEPARATELY DERIVED SYSTEM GROUNDING/BONDING SCHEMATIC (SYSTEM BONDING AT FIRST DISCONNECTING MEANS OR OVERCURRENT DEVICE)

NOT TO SCALE

LOW-VOLTAGE FEEDER SCHEDULE

BASED ON NEC TABLE 310.15(B)(16) FOR COMPACT ALUMINUM CONDUCTORS APPLIED AT 75°C RATING

1 PHASE, 3 WIRE WITH GROUND -OR- 3 PHASE, 3 WIRE WITH GROUND		3 PHASE, 4 WIRE WITH GROUND	
TAG	FILL	TAG	FILL
A100G	(3) #1 AWG + (1) #6 AWG GRD IN 1 1/4" CONDUIT	A100NG	(4) #1 AWG + (1) #6 AWG GRD IN 1 1/4" CONDUIT
A120G	(3) #1/0 AWG + (1) #4 AWG GRD IN 1 1/4" CONDUIT	A120NG	(4) #1/0 AWG + (1) #4 AWG GRD IN 1 1/2" CONDUIT
A135G	(3) #2/0 AWG + (1) #4 AWG GRD IN 1 1/2" CONDUIT	A135NG	(4) #2/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT
A155G	(3) #3/0 AWG + (1) #4 AWG GRD IN 1 1/2" CONDUIT	A155NG	(4) #3/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT
A180G	(3) #4/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT	A180NG	(4) #4/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT
A205G	(3) 250 KCMIL + (1) #2 AWG GRD IN 2" CONDUIT	A205NG	(4) 250 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT
A230G	(3) 300 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT	A230NG	(4) 300 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT
A250G	(3) 350 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT	A250NG	(4) 350 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT
A270G	(3) 400 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT	A270NG	(4) 400 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT
A310G	(3) 500 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT	A310NG	(4) 500 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT
A340G	(3) 600 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT	A340NG	(4) 600 KCMIL + (1) #1 AWG GRD IN 3 1/2" CONDUIT
A400G	TWO PARALLEL [(3) 250 KCMIL + (1) #1 AWG GRD IN 2" CONDUIT]	A400NG	TWO PARALLEL [(4) 250 KCMIL + (1) #1 AWG GRD IN 2 1/2" CONDUIT]
A500G	TWO PARALLEL [(3) 350 KCMIL + (1) #1/0 AWG GRD IN 2 1/2" CONDUIT]	A500NG	TWO PARALLEL [(4) 350 KCMIL + (1) #1/0 AWG GRD IN 3" CONDUIT]
A600G	TWO PARALLEL [(3) 500 KCMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]	A600NG	TWO PARALLEL [(4) 500 KCMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]
A800G	THREE PARALLEL [(3) 500 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]	A800NG	THREE PARALLEL [(4) 500 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]
A1000G	FOUR PARALLEL [(3) 350 KCMIL + (1) #4/0 AWG GRD IN 2 1/2" CONDUIT]	A1000NG	FOUR PARALLEL [(4) 350 KCMIL + (1) #4/0 AWG GRD IN 3" CONDUIT]
A1200G	FOUR PARALLEL [(3) 500 KCMIL + (1) 250 KCMIL GRD IN 3" CONDUIT]	A1200NG	FOUR PARALLEL [(4) 500 KCMIL + (1) 250 KCMIL GRD IN 3" CONDUIT]
A1600G	SIX PARALLEL [(3) 500 KCMIL + (1) 350 KCMIL GRD IN 3" CONDUIT]	A1600NG	SIX PARALLEL [(4) 500 KCMIL + (1) 350 KCMIL GRD IN 3 1/2" CONDUIT]
A2000G	SEVEN PARALLEL [(3) 500 KCMIL + (1) 500 KCMIL GRD IN 3 1/2" CONDUIT]	A2000NG	SEVEN PARALLEL [(4) 500 KCMIL + (1) 500 KCMIL GRD IN 3 1/2" CONDUIT]
A2500G	EIGHT PARALLEL [(3) 600 KCMIL + (1) 600 KCMIL GRD IN 3 1/2" CONDUIT]	A2500NG	EIGHT PARALLEL [(4) 600 KCMIL + (1) 600 KCMIL GRD IN 3 1/2" CONDUIT]
A3000G	NINE PARALLEL [(3) 600 KCMIL + (1) 600 KCMIL GRD IN 3 1/2" CONDUIT]	A3000NG	NINE PARALLEL [(4) 600 KCMIL + (1) 600 KCMIL GRD IN 3 1/2" CONDUIT]

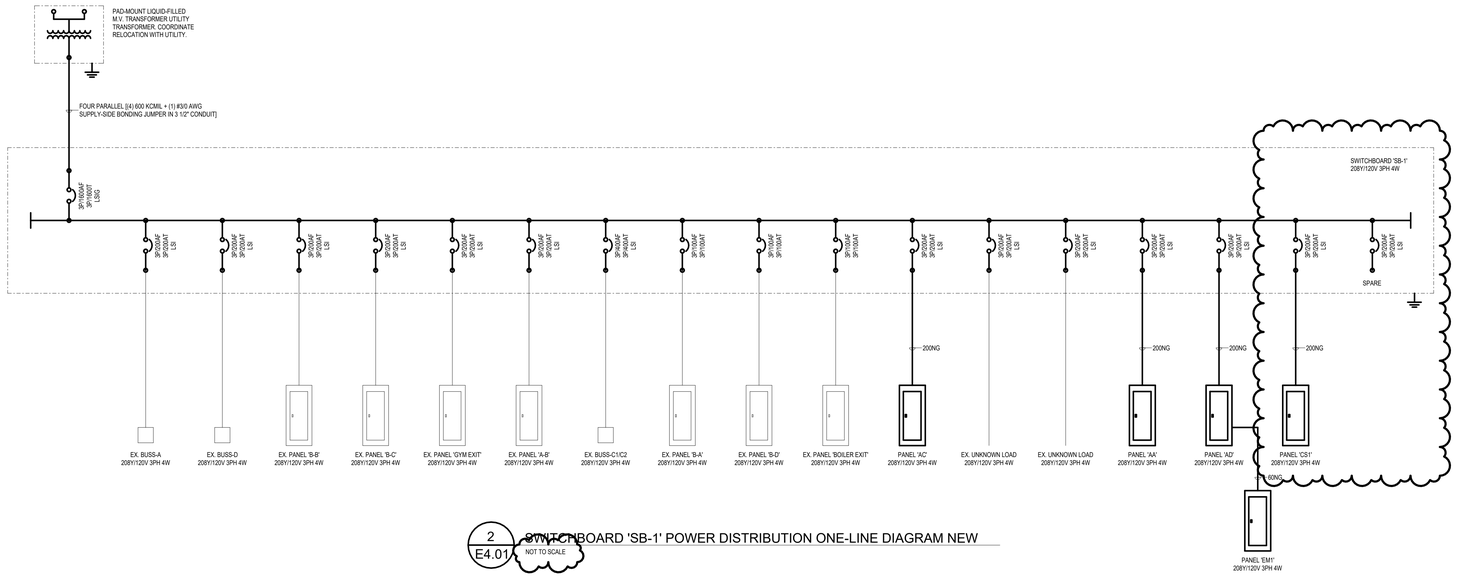
NOTE: DESIGNATIONS WITH "NN" (E.G. "A230NNG") SHALL BE SIMILAR TO THE REQUIRED "N" FEEDER EXCEPT WITH DOUBLE (200%) NEUTRAL CONDUCTOR.

LOW-VOLTAGE FEEDER SCHEDULE

BASED ON NEC TABLE 310.15(B)(16) FOR COPPER CONDUCTORS APPLIED AT 75°C RATING

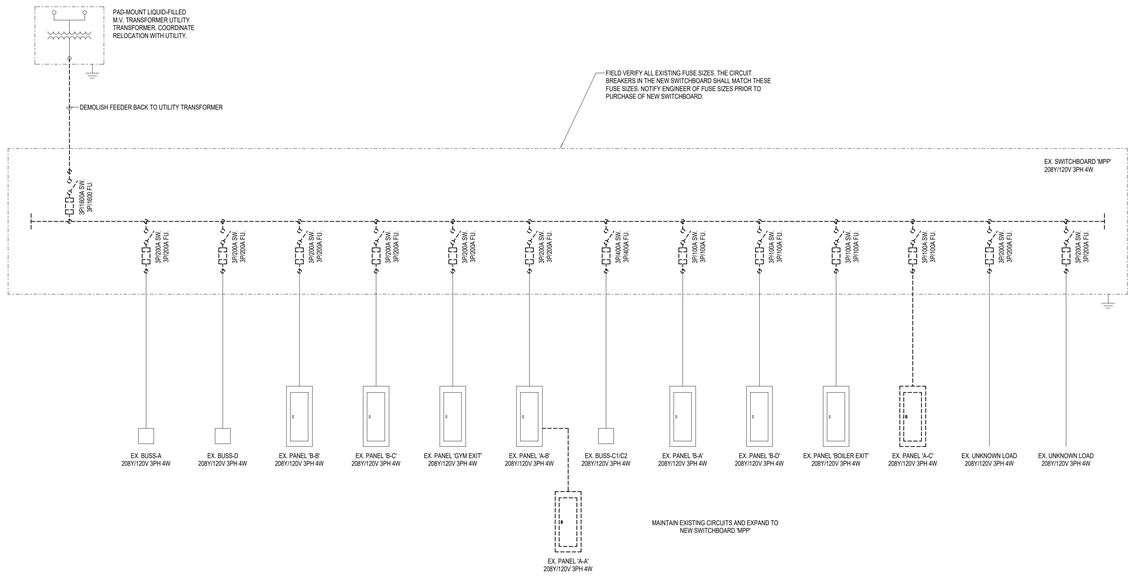
1 PHASE, 3 WIRE WITH GROUND -OR- 3 PHASE, 3 WIRE WITH GROUND		3 PHASE, 4 WIRE WITH GROUND	
TAG	FILL	TAG	FILL
20G	(3) #12 AWG + (1) #12 AWG GRD IN 3/4" CONDUIT	20NG	(4) #12 AWG + (1) #12 AWG GRD IN 3/4" CONDUIT
30G	(3) #10 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT	30NG	(4) #10 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT
50G	(3) #8 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT	50NG	(4) #8 AWG + (1) #10 AWG GRD IN 1" CONDUIT
65G	(3) #6 AWG + (1) #8 AWG GRD IN 1" CONDUIT	65NG	(4) #6 AWG + (1) #8 AWG GRD IN 1" CONDUIT
85G	(3) #4 AWG + (1) #8 AWG GRD IN 1" CONDUIT	85NG	(4) #4 AWG + (1) #8 AWG GRD IN 1 1/4" CONDUIT
100G	(3) #3 AWG + (1) #8 AWG GRD IN 1 1/4" CONDUIT	100NG	(4) #3 AWG + (1) #8 AWG GRD IN 1 1/4" CONDUIT
115G	(3) #2 AWG + (1) #6 AWG GRD IN 1 1/4" CONDUIT	115NG	(4) #2 AWG + (1) #6 AWG GRD IN 1 1/2" CONDUIT
130G	(3) #1 AWG + (1) #6 AWG GRD IN 1 1/2" CONDUIT	130NG	(4) #1 AWG + (1) #6 AWG GRD IN 2" CONDUIT
150G	(3) #1/0 AWG + (1) #6 AWG GRD IN 1 1/2" CONDUIT	150NG	(4) #1/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT
175G	(3) #2/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT	175NG	(4) #2/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT
200G	(3) #3/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT	200NG	(4) #3/0 AWG + (1) #6 AWG GRD IN 2 1/2" CONDUIT
230G	(3) #4/0 AWG + (1) #4 AWG GRD IN 2 1/2" CONDUIT	230NG	(4) #4/0 AWG + (1) #4 AWG GRD IN 2 1/2" CONDUIT
255G	(3) 250 KCMIL + (1) #4 AWG GRD IN 2 1/2" CONDUIT	255NG	(4) 250 KCMIL + (1) #4 AWG GRD IN 3" CONDUIT
285G	(3) 300 KCMIL + (1) #4 AWG GRD IN 2 1/2" CONDUIT	285NG	(4) 300 KCMIL + (1) #4 AWG GRD IN 3" CONDUIT
310G	(3) 350 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	310NG	(4) 350 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT
335G	(3) 400 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	335NG	(4) 400 KCMIL + (1) #3 AWG GRD IN 3 1/2" CONDUIT
380G	(3) 500 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	380NG	(4) 500 KCMIL + (1) #3 AWG GRD IN 3 1/2" CONDUIT
420G	(3) 600 KCMIL + (1) #2 AWG GRD IN 3 1/2" CONDUIT	420NG	(4) 600 KCMIL + (1) #2 AWG GRD IN 3 1/2" CONDUIT
500G	TWO PARALLEL [(3) 250 KCMIL + (1) #2 AWG GRD IN 2 1/2" CONDUIT]	500NG	TWO PARALLEL [(4) 250 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT]
600G	TWO PARALLEL [(3) 350 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT]	600NG	TWO PARALLEL [(4) 350 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT]
800G	TWO PARALLEL [(3) 600 KCMIL + (1) #1/0 AWG GRD IN 3 1/2" CONDUIT]	800NG	TWO PARALLEL [(4) 600 KCMIL + (1) #1/0 AWG GRD IN 3 1/2" CONDUIT]
1000G	THREE PARALLEL [(3) 500 KCMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]	1000NG	THREE PARALLEL [(4) 500 KCMIL + (1) #2/0 AWG GRD IN 3 1/2" CONDUIT]
1200G	FOUR PARALLEL [(3) 350 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]	1200NG	FOUR PARALLEL [(4) 350 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]
1600G	FIVE PARALLEL [(3) 500 KCMIL + (1) #4/0 AWG GRD IN 3" CONDUIT]	1600NG	FIVE PARALLEL [(4) 500 KCMIL + (1) #4/0 AWG GRD IN 3 1/2" CONDUIT]
2000G	SIX PARALLEL [(3) 500 KCMIL + (1) 250 KCMIL GRD IN 3 1/2" CONDUIT]	2000NG	SIX PARALLEL [(4) 500 KCMIL + (1) 250 KCMIL GRD IN 3 1/2" CONDUIT]
2500G	SEVEN PARALLEL [(3) 500 KCMIL + (1) 350 KCMIL GRD IN 3 1/2" CONDUIT]	2500NG	SEVEN PARALLEL [(4) 500 KCMIL + (1) 350 KCMIL GRD IN 3 1/2" CONDUIT]
3000G	EIGHT PARALLEL [(3) 500 KCMIL + (1) 500 KCMIL GRD IN 3 1/2" CONDUIT]	3000NG	EIGHT PARALLEL [(4) 500 KCMIL + (1) 500 KCMIL GRD IN 3 1/2" CONDUIT]

NOTE: DESIGNATIONS WITH "NN" (E.G. "230NNG") SHALL BE SIMILAR TO THE REQUIRED "N" FEEDER EXCEPT WITH DOUBLE (200%) NEUTRAL CONDUCTOR.



2 / E4.01 SWITCHBOARD 'SB-1' POWER DISTRIBUTION ONE-LINE DIAGRAM NEW

NOT TO SCALE



1 / E4.01 SWITCHBOARD 'MPP' POWER DISTRIBUTION ONE-LINE DIAGRAM DEMOLITION

NOT TO SCALE

gmb
Maze Design, Inc.

WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN JDM
REVIEWED SMS

PROJECT NO. 5-6394

POWER DISTRIBUTION ONE-LINE DIAGRAMS

E4.01

Autodesk Docs://5-6394 Western Wayne Schools Additions & Renovations/5-6394E 2022.rvt
1/16/2025 11:27:50 AM

PANELBOARD: PANEL 'CS1'

LOCATION: CONCESSIONS/STORAGE A125 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN LUG
MOUNTING: SURFACE **SCCR:** 22KA **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 SUPPLY FROM: SWITCHBOARD 'SB-1'

PROVIDE WITH THE FOLLOWING:

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
CS1-1	POPCORN REC. CONC. A128 (GFCI)	20 A	1	1,200	1,200					1	20 A	ICEMAKER REC. CONC. STORAGE A125	CS1-2
CS1-3	REFRIG. REC. CONC. A128 (GFCI)	20 A	1			1,200	1,200			1	20 A	DISHWASHER REC. CONC. STORAGE A125	CS1-4
CS1-5	RECEPTACLE ROOM A125, A126, A123	20 A	1					1,080	1,200	1	20 A	FREEZER REC. CONC. STORAGE A125	CS1-6
CS1-7	RECEPTACLE LOBBY A127,VEST.,	20 A	1	1,080	720					1	20 A	RECEPTACLE CONCESSIONS A128	CS1-8
CS1-9	RECEPTACLE, UH-1 LOBBY A127, EXT.	20 A	1			1,200	360			1	20 A	RECEPTACLE CONCESSIONS A128	CS1-10
CS1-11	GYM SCOREBOARD NORTH	20 A	1					400	360	1	20 A	RECEPTACLE CONCESSIONS A128	CS1-12
CS1-13	GYM SCOREBOARD SOUTH	20 A	1	400	180					1	20 A	ISLAND REC. CONCESSIONS A128	CS1-14
CS1-15	SPOTLIGHT RECEPTACLE	20 A	1			1,200	180			1	20 A	ISLAND REC. CONCESSIONS A128	CS1-16
CS1-17								975	1,320				CS1-18
CS1-19	BLEACHERS	20 A	3	975	1,320					3	25 A	BCU-4A STORAGE A126	CS1-20
CS1-21								1,320					CS1-22
CS1-23	BASKETBALL BACKBOARD - SOUTHEAST	20 A	1					1,656	696	1	15 A	EF-4 CONCESSIONS A128	CS1-24
CS1-25	BASKETBALL BACKBOARD - NORTHEAST	20 A	1	1,656	0					1	20 A	LIGHTING - GENERAL	CS1-26
CS1-27	BASKETBALL BACKBOARD - NORTHWEST	20 A	1			1,656	0			1	20 A	LIGHTING - GENERAL	CS1-28
CS1-29	BASKETBALL BACKBOARD - SOUTHWEST	20 A	1					1,656	0	1	20 A	SPARE	CS1-30
CS1-31	SPARE	20 A	1	0	0					1	20 A	SPARE	CS1-32
CS1-33	SPARE	20 A	1			0	0			1	20 A	SPARE	CS1-34
CS1-35	SPARE	20 A	1					0	0	1	20 A	SPARE	CS1-36
CS1-37	SPARE	20 A	1	0	0					1	20 A	SPARE	CS1-38
CS1-39	SPARE	20 A	1			0	0			1	20 A	SPARE	CS1-40
CS1-41	SPARE	20 A	1					0	0	1	20 A	SPARE	CS1-42
		PHASE LOAD:		8,731 VA		9,291 VA		9,343 VA					

TOTAL CONNECTED LOAD: 27.4 kVA
TOTAL CONNECTED CURRENT: 76 A

NOTES:

PANELBOARD: PANEL 'EM1'

LOCATION: STORAGE A126 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN LUG
MOUNTING: SURFACE **SCCR:** 22KA **MAINS RATING:** 100 A
ENCLOSURE: TYPE 1 SUPPLY FROM: PANEL 'AD'

PROVIDE WITH THE FOLLOWING:

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
EM1-1	RECEPTACLE STORAGE A126	20 A	1	360	1,200					2	30 A	RECEPTACLE STORAGE A126	EM1-2
EM1-3	RECEPTACLE STORAGE A126	20 A	1			360	1,200						EM1-4
EM1-5	SPARE	20 A	1					0	0	1	20 A	SPARE	EM1-6
EM1-7	SPARE	20 A	1	0	0					1	20 A	SPARE	EM1-8
EM1-9	SPARE	20 A	1			0	0			1	20 A	SPARE	EM1-10
EM1-11	SPARE	20 A	1					0	0	1	20 A	SPARE	EM1-12
EM1-13	SPARE	20 A	1	0	0					1	20 A	SPARE	EM1-14
EM1-15	SPARE	20 A	1			0	0			1	20 A	SPARE	EM1-16
EM1-17	SPARE	20 A	1					0	0	1	20 A	SPARE	EM1-18
EM1-19	PREPARED SPACE	--	1	--	--					1	--	PREPARED SPACE	EM1-20
EM1-21	PREPARED SPACE	--	1			--	--			1	--	PREPARED SPACE	EM1-22
EM1-23	PREPARED SPACE	--	1					--	--	1	--	PREPARED SPACE	EM1-24
EM1-25	PREPARED SPACE	--	1	--	--					1	--	PREPARED SPACE	EM1-26
EM1-27	PREPARED SPACE	--	1			--	--			1	--	PREPARED SPACE	EM1-28
EM1-29	PREPARED SPACE	--	1					--	--	1	--	PREPARED SPACE	EM1-30
		PHASE LOAD:		1,560 VA		1,560 VA		0 VA					

TOTAL CONNECTED LOAD: 3.1 kVA
TOTAL CONNECTED CURRENT: 9 A

NOTES:

PANELBOARD: PANEL 'AA'

LOCATION: STORAGE A123 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN LUG
MOUNTING: SURFACE **SCCR:** 22KA **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 SUPPLY FROM: SWITCHBOARD 'SB-1'

PROVIDE WITH THE FOLLOWING:

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
AA-1	RECEPTACLE ROOM A121, A118	20 A	1	900	1,040					2	15 A	SSCU-1/SSAC-1 A112	AA-2
AA-3	REC. FOOTBALL LOCKER ROOM A118	20 A	1			1,008	1,040						AA-4
AA-5	RECEPTACLE COACH OFFICE A119	20 A	1					720	1,040	2	15 A	SSCU-2/SSAC-2 A107, A102	AA-6
AA-7	RECEPTACLE COACH OFFICE A152	20 A	1	720	1,040								AA-8
AA-9	REC. GIRLS VARSITY LOCKER ROOM A114	20 A	1			540	1,456			2	20 A	SSCU-3/SSAC-3 A103, A102	AA-10
AA-11	REC. GIRLS VARSITY LOCKER ROOM A114	20 A	1					540	1,456				AA-12
AA-13	EWC RECEPTACLE LOBBY A100	20 A	1	360	1,144					2	20 A	CABINET UNIT HEATERS	AA-14
AA-15	WASHER REC. LAUNDRY A113	20 A	1			1,500	1,144						AA-16
AA-17	DRYER REC. LAUNDRY A113	30 A	2					2,400	1,196	2	20 A	CABINET UNIT HEATERS	AA-18
AA-19				2,400	1,196								AA-20
AA-21	RECEPTACLE ROOM A112, A113	20 A	1			720	0			1	20 A	SPARE	AA-22
AA-23	RECEPTACLE A.T. ROOM A112	20 A	1					1,200	1,200	2	20 A	EF-5	AA-24
AA-25	RECEPTACLE A.T. ROOM A112	20 A	1	720	552								AA-26
AA-27	RECEPTACLE OFFICE A143	20 A	1			720	552			3	15 A	BCU-1A	AA-28
AA-29	REC. MENS BASKETBALL LOCKER A109	20 A	1					540	552				AA-30
AA-31	RECEPTACLE ROOM A109, A110	20 A	1	1,368	1,800								AA-32
AA-33	RECEPTACLE COACH OFFICE A108	20 A	1			720	1,800			3	20 A	CHAIRLIFT STATION-2	AA-34
AA-35	RECEPTACLE REF LOCKER ROOM A107	20 A	1					1,800	1,800				AA-36
AA-37	RECEPTACLE ROOM A101, A102, A104	20 A	1	720	957					2	20 A	EF-6	AA-38
AA-39	RECEPTACLE OFFICE A103	20 A	1			900	957						AA-40
AA-41	SPARE	20 A	1					0	0	1	20 A	SPARE	AA-42
AA-43	SPARE	20 A	1	0	0					1	20 A	SPARE	AA-44
AA-45	SPARE	20 A	1			0	0			1	20 A	SPARE	AA-46
AA-47	SPARE	20 A	1					0	0	1	20 A	SPARE	AA-48
AA-49	SPARE	20 A	1	0	0					1	20 A	SPARE	AA-50
AA-51	SPARE	20 A	1			0	0			1	20 A	SPARE	AA-52
AA-53	SPARE	20 A	1					0	0	1	20 A	SPARE	AA-54
AA-55	SPARE	20 A	1	0	0					1	20 A	SPARE	AA-56
AA-57	SPARE	20 A	1			0	0			1	20 A	SPARE	AA-58
AA-59	SPARE	20 A	1					0	0	1	20 A	SPARE	AA-60
		PHASE LOAD:		14,917 VA		13,057 VA		13,712 VA					

TOTAL CONNECTED LOAD: 41.7 kVA
TOTAL CONNECTED CURRENT: 116 A

NOTES:

PANELBOARD: PANEL 'AC'

LOCATION: CORRIDOR A131 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN LUG
MOUNTING: FLUSH **SCCR:** 22KA **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 SUPPLY FROM: SWITCHBOARD 'SB-1'

PROVIDE WITH THE FOLLOWING:

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
AC-1	RECEPTACLE ROOM A133, A134, A131	20 A	1	720	1,092					2	20 A	CABINET UNIT HEATERS A134, A133, A130	AC-2
AC-3	RECEPTACLE ROOM A158,A134,A135,A136	20 A	1			720	1,092						AC-4
AC-5	RECEPTACLE ROOM A155,A137,A131,A149	20 A	1					720	1,092	2	20 A	CABINET UNIT HEATERS A140, A149, A138	AC-6
AC-7	EWC RECEPTACLES CORRIDOR A131	20 A	1	1,296	1,092								AC-8
AC-9	RECEPTACLE P.E OFFICE A138	20 A	1			720	696						AC-10
AC-11	RECEPTACLE ROOM A131, A148, A140	20 A	1					1,188	696	3	15 A	BCU-3A A106	AC-12
AC-13	RECEPTACLE COACHES OFFICE A150	20 A	1	720	696								AC-14
AC-15	REC. GIRLS VARSITY LOCKER ROOM A140	20 A	1			1,656	528			1	15 A	EF-3 STORAGE A106	AC-16
AC-17	RECEPTACLE, UH-1 STORAGE A106	20 A	1					1,020	180	1	20 A	ADA POWERED DOOR A130	AC-18
AC-19	RECEPTACLE HOSPITALITY ROOM A105	20 A	1	900	360					1	20 A	RECEPTACLE STORAGE A106	AC-20
AC-21	REC. (SE COUNTER) HOSP. ROOM A105	20 A	1			180	720			1	20 A	RECEPTACLE	AC-22
AC-23	REC. (SC COUNTER) HOSP. ROOM A105	20 A	1					180	0	1	20 A	SPARE	AC-24
AC-25	REC. (SW COUNTER) HOSP. ROOM A105	20 A	1	180	0					1	20 A	SPARE	AC-26
AC-27	REC. (NE COUNTER) HOSP. ROOM A105	20 A	1			180	0			1	20 A	SPARE	AC-28
AC-29	REC. (NC COUNTER) HOSP. ROOM A105	20 A	1					180	0	1	20 A	SPARE	AC-30
AC-31	REC. (NW COUNTER) HOSP. ROOM A105	20 A	1	180	0					1	20 A	SPARE	AC-32
AC-33	EF-1 LOCKER ROOM A137	25 A	1			1,920	0			1	20 A	SPARE	AC-34
AC-35	EF-2 LOCKER ROOM A136	25 A	1					1,920	0	1	20 A	SPARE	AC-36
AC-37	EXISTING UNKNOWN LOAD (NOTE 1)	15 A	1	0	0					1	20 A	SPARE	AC-38
AC-39	EXISTING UNKNOWN LOAD (NOTE 1)	100 A	2			0	0			1	20 A	SPARE	AC-40
AC-41								0	0	1	20 A	SPARE	AC-42
		PHASE LOAD:		7,236 VA		8,412 VA		7,176 VA					

TOTAL CONNECTED LOAD: 22.8 kVA
TOTAL CONNECTED CURRENT: 63 A

NOTES: 1) CONFIRM EXISTING EQUIPMENT IS STILL IN OPERATION. FOR EQUIPMENT STILL IN USE, EXTEND EXISTING BRANCH CIRCUIT TO NEW PANEL LOCATION.

PANELBOARD: PANEL 'AD'

LOCATION: ELECTRICAL ROOM A129 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN LUG
MOUNTING: SURFACE **SCCR:** 22KA **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 SUPPLY FROM: SWITCHBOARD 'SB-1'

PROVIDE WITH THE FOLLOWING:

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
AD-1	LTG - GIRLS VARS. & FOOTBALL LOCKERS	20 A	1	1,000	0					1	20 A	EX. LOAD - SW OUTSIDE LTG (NOTE 1)	AD-2
AD-3	LTG - BOYS BASKETBALL & REF LOCKERS	20 A	1			896	0			1	20 A	EX. LOAD - SE OUTSIDE LTG (NOTE 1)	AD-4
AD-5	LTG - CORRIDOR	20 A	1					392	0	1	20 A	EX. LOAD - SE OUTSIDE LTG (NOTE 1)	AD-6
AD-7	LTG - CORRIDOR NIGHT LIGHTING	20 A	1	224	0					1	20 A	EX. LOAD - GYM RECEPTACLES (NOTE 1)	AD-8
AD-9	LTG - LOBBY	20 A	1			1,620	0			1	20 A	EX. LOAD - VENTILATOR FAN (NOTE 1)	AD-10
AD-11	LTG - LOBBY	20 A	1					1,836	0	1	20 A	EX. LOAD - SPEAKERS (NOTE 1)	AD-12
AD-13	LTG -..	20 A	1	274	0					1	30 A	EX. LOAD - PUMP PIT (NOTE 1)	AD-14
AD-15	LTG - CORRIDOR A131	20 A	1			242	0			2	20 A	EX. LOAD - COMPRESSOR (NOTE 1)	AD-16
AD-17	LTG - CORRIDOR A131 NIGHT LIGHTING	20 A	1					224	0				AD-18
AD-19	LTG - TOILETS A133, A134, WOMENS LOKR	20 A	1	769	0					1	20 A	SPARE	AD-20
AD-21	LTG - BOYS LOCKER, GIRLS VARSITY A140	20 A	1			739	0			1	20 A	SPARE	AD-22
AD-23	LTG - HOSPITALITY A105, STORAGE A106	20 A	1					720	0	1	20 A	SPARE	AD-24
AD-25	LTG - EXTERIOR UNIT 'A'	20 A	1	165	0					1	20 A	SPARE	AD-26
AD-27	SPARE	20 A	1			0	0			1	20 A	SPARE	AD-28
AD-29	SPARE	20 A	1					0	0	1	20 A	SPARE	AD-30
AD-31	SPARE	20 A	1	0	0					1	20 A	SPARE	AD-32
AD-33	SPARE	20 A	1			0	0			1	20 A	SPARE	AD-34
AD-35	SPARE	20 A	1					0	0	1	20 A	SPARE	AD-36
AD-37	PANEL 'EM1'	60 A	3	1,560	0					1	20 A	SPARE	AD-38
AD-39						1,560	0			1	20 A	SPARE	AD-40
AD-41								0	0	1	20 A	SPARE	AD-42
		PHASE LOAD:		3,992 VA		5,057 VA		3,172 VA					

TOTAL CONNECTED LOAD: 12.2 kVA
TOTAL CONNECTED CURRENT: 34 A

NOTES: 1) CONFIRM EXISTING EQUIPMENT IS STILL IN OPERATION. FOR EQUIPMENT STILL IN USE, EXTEND EXISTING BRANCH CIRCUIT TO NEW PANEL LOCATION.

SWITCHBOARD: SWITCHBOARD 'SB-1'

LOCATION: ELECTRICAL ROOM A129 **DISTRIBUTION SYSTEM:** 208Y/120V 3PH 4W **MAINS TYPE:** MAIN CIRCUIT BREAKER
MOUNTING: FREE-STANDING ON 4" CONC. PAD **SCCR:** 65KA **MAINS RATING:** 1,600 A
ENCLOSURE: TYPE 1 SUPPLY FROM: EX. XFMR 'T-UTILITY' **MAIN OCPD RATING:** 1,600 A

PROVIDE WITH THE FOLLOWING: GROUND-FAULT PROTECTION

CIRCUIT	CIRCUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
SB1-1	EX. BUSS A	3	200 A	200 A	0 VA	NOTE 1
SB1-2	EX. BUSS C	3	200 A	200 A	0 VA	NOTE 1
SB1-3	EX. PANEL 'B-B'	3	200 A	200 A	0 VA	NOTE 1
SB1-4	EX. PANEL 'B-C'	3	200 A	200 A	0 VA	NOTE 1
SB1-5	EX. PANEL 'GYM EXIT'	3	200 A	200 A	0 VA	NOTE 1
SB1-6	EX. PANEL 'A-B'	3	200 A	200 A	0 VA	NOTE 1
SB1-7	EX. BUSS C1/C2	3	400 A	400 A	0 VA	NOTE 1
SB1-8	EX. PANEL 'B-A'	3	100 A	100 A	0 VA	NOTE 1
SB1-9	EX. PANEL 'B-D'	3	100 A	100 A	0 VA	NOTE 1
SB1-10	EX. PANEL 'BOILER EXIT'	3	100 A	100 A	0 VA	NOTE 1
SB1-11	PANEL 'AC'	3	200 A	200 A	22,824 VA	
SB1-12	EX. UNKNOWN LOAD	3	200 A	200 A	0 VA	NOTE 1
SB1-13	EX. UNKNOWN LOAD	3	200 A	200 A	0 VA	NOTE 1
SB1-14	PANEL 'AA'	3	200 A	200 A	41,686 VA	
SB1-15	PANEL 'AD'	3	200 A	200 A	12,200 VA	
SB1-16	PANEL 'CS1'	3	200 A	200 A	27,365 VA	
SB1-17	SPARE	3	200 A	200 A	0 VA	
SB1-18	PREPARED SPACE	1	--	--	--	
SB1-19	PREPARED SPACE	1	--	--	--	
SB1-20	PREPARED SPACE	1	--	--	--	
SB1-21	PREPARED SPACE	1	--	--	--	
SB1-22	PREPARED SPACE	1	--	--	--	
SB1-23	PREPARED SPACE	1	--	--	--	
SB1-24	PREPARED SPACE	1	--	--	--	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Equipment	33,549 VA	100.00%	33,549 VA
Lighting - General	9,102 VA	100.00%	9,102 VA
Motor	15,330 VA	103.13%	15,810 VA
Receptacle	46,116 VA	60.84%	28,058 VA

SWITCHBOARD TOTALS	
TOTAL CONNECTED LOAD:	104.1 kVA
TOTAL ESTIMATED DEMAND LOAD:	86.5 kVA
TOTAL CONNECTED CURRENT:	289 A
TOTAL EST. DEMAND CURRENT:	240 A

NOTES: 1) CONFIRM EXISTING FUSE SIZE AND MATCH NEW CIRCUIT BREAKER TO FUSE SIZE.

gmb
Maze Design, Inc.

WESTERN WAYNE SCHOOLS ADDITIONS & RENOVATIONS - BID PACKAGE #1

WESTERN WAYNE SCHOOLS

CAMBRIDGE CITY, INDIANA

ISSUANCES

01.06.2025 BIDS & CONSTRUCTION
01.16.2025 ADDENDUM 001

DRAWN JDM
REVIEWED SMS

PROJECT NO. 5-6394

POWER DISTRIBUTION EQUIPMENT SCHEDULES

E5.01