

SECTION 05 50 00 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel framing and supports for mechanical and electrical equipment.
 - 2. Steel framing and supports for applications where framing and supports are not specified in other Sections.
 - 3. Loose bearing and leveling plates for applications where they are not specified in other Sections.
- B. Products furnished, but not installed, under this Section include the following:
 - 1. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.
 - 2. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.
- C. Related Requirements:
 - 1. Section 03 30 00 "Cast-in-Place Concrete" for installing anchor bolts, steel pipe sleeves, slotted-channel inserts, wedge-type inserts, and other items cast into concrete.
 - 2. Section 05 12 00 "Structural Steel Framing."

1.3 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Nonslip aggregates and nonslip-aggregate surface finishes.

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2. Metal nosings and treads.
3. Paint products.
4. Grout.

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

1. Steel framing and supports for overhead doors and stage curtains.
2. Steel framing and supports for mechanical and electrical equipment.
3. Steel framing and supports for applications where framing and supports are not specified in other Sections.
4. Metal ladders.
5. Pipe rack in scene shop.

C. Samples for Verification: For each type and finish of extruded nosing.

D. Delegated-Design Submittal: For ladders, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For professional engineer.

B. Mill Certificates: Signed by stainless-steel manufacturers, certifying that products furnished comply with requirements.

C. Welding certificates.

D. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

E. Research/Evaluation Reports: For post-installed anchors.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

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PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Abrasive nosings shall comply with California Title 24.
- B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design ladders.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 METALS

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
- B. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- C. Stainless-Steel Sheet, Strip, and Plate: ASTM A 240/A 240M or ASTM A 666, Type 304.
- D. Stainless-Steel Bars and Shapes: ASTM A 276, Type 304.
- E. Rolled-Steel Floor Plate: ASTM A 786/A 786M, rolled from plate complying with ASTM A 36/A 36M or ASTM A 283/A 283M, Grade C or D.
- F. Rolled-Stainless-Steel Floor Plate: ASTM A 793.
- G. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.
- H. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.
- I. Aluminum Plate and Sheet: ASTM B 209, Alloy 6061-T6.
- J. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.
- K. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, Alloy 6061-T6.
- L. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F.

2.3 FASTENERS

- A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.

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1. Provide stainless-steel fasteners for fastening aluminum.
 2. Provide stainless-steel fasteners for fastening stainless steel.
- B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.
- C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 325, Type 3; with hex nuts, ASTM A 563, Grade C3; and, where indicated, flat washers.
- D. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 1.
- E. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.
1. Hot dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.
- F. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.
- G. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot dip galvanized per ASTM F 2329.
- H. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.
 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

2.4 MISCELLANEOUS MATERIALS

- A. Shop Primers: Provide product compatible with system as required per Sections 09 9113 "Exterior Painting," 09 9123 "Interior Painting," or 09 9601 "High-Performance Coatings" as appropriate for location and painting system indicated.
- B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
- C. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.
- D. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- E. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained, concrete with a minimum 28-day compressive strength of 3000 psi.

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2.5 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
- G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
- J. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.6 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

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- C. Galvanize miscellaneous framing and supports where indicated.

2.7 MISCELLANEOUS STEEL TRIM

- A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.
- B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.
 - 1. Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.
- C. Galvanize exterior miscellaneous steel trim.

2.8 LOOSE BEARING AND LEVELING PLATES

- A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction. Drill plates to receive anchor bolts and for grouting.
- B. Galvanize plates.

2.9 STEEL WELD PLATES AND ANGLES

- A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.10 FINISHES, GENERAL

- A. Finish metal fabrications after assembly.
- B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.11 STEEL AND IRON FINISHES

- A. Galvanizing: Hot dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.
 - 1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
- B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

- C. Shop prime iron and steel items unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
 - 1. Shop prime with primers specified in Section 099113 "Exterior Painting" and primers specified in Section 099123 "Interior Painting" unless zinc-rich primer is indicated.
- D. Preparation for Shop Priming: Clean surfaces to be painted per primer manufacturer's written instructions. Remove loose rust and mill scale and other spatter, slag, flux deposits, and any other potential bond-breaking materials.
- E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
 - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

2.12 ALUMINUM FINISHES

- A. As-Fabricated Finish: AA-M12.
- B. Clear Anodic Finish: AAMA 611, Class I, AA-M12C22A41.
- C. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70percentPVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

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- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
- F. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
 - 1. Cast Aluminum: Heavy coat of bituminous paint.
 - 2. Extruded Aluminum: Two coats of clear lacquer.

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.
- B. Anchor supports for overhead doors and stage curtains securely to, and rigidly brace from, building structure.

3.3 INSTALLING BEARING AND LEVELING PLATES

- A. Clean concrete and masonry bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean bottom surface of plates.
- B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with nonshrink grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.4 ADJUSTING AND CLEANING

- A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

END OF SECTION 05 50 00

SECTION 05 52 13 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel pipe and tube railings.

1.3 COORDINATION

- A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- B. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not satisfy structural performance requirements.

1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Railing brackets.
 - 2. Grout, anchoring cement, and paint products.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
- C. Delegated-Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Welding certificates.
- C. Mill Certificates: Signed by manufacturers of stainless-steel products certifying that products furnished comply with requirements.

- D. Product Test Reports: For pipe and tube railings, for tests performed by a qualified testing agency, according to ASTM E894 and ASTM E935.
- E. Evaluation Reports: For post-installed anchors, from ICC-ES.

1.6 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
 - 2. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

1.8 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with California Building Code Section 11B-505.
 - 1. Top of gripping surfaces of handrails shall be 34 inch minimum and 38 inch maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above such surfaces.
 - 2. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum. Handrails may be located in a recess if the recess is 3 inches (76 mm) maximum deep and 18 inches (457 mm) minimum clear above the top of the handrail.
 - 3. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.
 - 4. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.
 - 5. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (102 mm) minimum and 6 1/4 inches (159 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.
 - 6. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

7. Handrails shall not rotate within their fittings.
 8. Handrail gripping surfaces shall extend beyond and the same direction of stair flights and ramp runs in accordance with CBC section 11B-505.10. Such extensions are not required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
 9. The orientation of at least one handrail shall be in the direction of the stair run, perpendicular to the direction of the stair nosing, and shall not reduce the minimum required width of the stair. CBC Section 11B-505.2.1
 10. A curb or barrier shall be provided that prevents the passage of a 4-inch (102 mm) diameter sphere, where any portion of the sphere is within 4 inches (102 mm) of the finish floor or ground surface. To prevent wheel entrapment, the curb or barrier shall provide a continuous and uninterrupted barrier along the length of the ramp. CBC Section 11B-405.9.2
- B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design railings, including attachment to building construction.
- C. Structural Performance: Railings, including attachment to building construction, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
1. Handrails and Top Rails of Guards:
 - a. Uniform load of 50 lbf/ ft. applied in any direction.
 - b. Concentrated load of 200 lbf applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.
 2. Infill of Guards:
 - a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
 - b. Infill load and other loads need not be assumed to act concurrently.
- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
1. Temperature Change: 120 deg F, ambient; 180 deg F (100 deg C), material surfaces.
- ## 2.2 METALS, GENERAL
- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.
- ## 2.3 STEEL RAILINGS
- A. Tubing: ASTM A500 (cold formed).
- B. Pipe: ASTM A53/A53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.

1. Provide galvanized finish for exterior installations and where indicated.

C. Plates, Shapes, and Bars: ASTM A36/A36M.

2.4 FASTENERS

A. General: Provide the following:

1. Hot-Dip Galvanized Railings: Type 304 stainless-steel or hot-dip zinc-coated steel fasteners complying with ASTM A153/A153M or ASTM F2329 for zinc coating.
2. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.
3. Stainless Steel Railing Components: Type 304 stainless steel fasteners.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:

1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.
2. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless exposed fasteners are unavoidable or are the standard fastening method for railings indicated.
3. Provide tamper-resistant flat-head machine screws for exposed fasteners unless otherwise indicated.

D. Post-Installed Anchors: Torque-controlled expansion anchors capable of sustaining, without failure, a load equal to 6 times the load imposed when installed in unit masonry and 4 times the load imposed when installed in concrete, as determined by testing according to ASTM E488/E488M, conducted by a qualified independent testing agency.

1. Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B633 or ASTM F1941, Class Fe/Zn 5, unless otherwise indicated.
2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F593, and nuts, ASTM F594.

2.5 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

B. Etching Cleaner for Galvanized Metal: Complying with MPI#25.

C. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

D. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

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- E. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- F. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
 - 1. Water-Resistant Product: At exterior locations and where indicated provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

2.6 FABRICATION

- A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
 - 1. Field welding will not be accepted where connections could have been made in the factory and shipped to the site as a single piece.
- C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form work true to line and level with accurate angles and surfaces.
- E. Fabricate connections that are exposed to weather in a manner that excludes water. Provide weep holes where water may accumulate.
- F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- G. Connections: Fabricate railings with welded connections unless otherwise indicated.
- H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed surfaces smooth and blended so no roughness shows after finishing and welded surface matches contours of adjoining surfaces.
- I. Form Changes in Direction as Follows:

1. As detailed.
 2. By bending.
- J. For changes in direction made by bending, use jigs to produce uniform curvature for each repetitive configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- K. Close exposed ends of railing members with prefabricated end fittings.
- L. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch or less.
- M. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.
- N. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- O. For railing posts set in concrete, provide stainless steel sleeves not less than 6 inches long with inside dimensions not less than 1/2 inch greater than outside dimensions of post, with metal plate forming bottom closure.
- P. Toe Boards: Where indicated, provide toe boards at railings around openings and at edge of open-sided floors and platforms. Fabricate to dimensions and details indicated.

2.7 STEEL AND IRON FINISHES

- A. Galvanized Railings:
1. Hot-dip galvanize exterior steel railings, including hardware, after fabrication.
 2. Comply with ASTM A123/A123M for hot-dip galvanized railings.
 3. Comply with ASTM A153/A153M for hot-dip galvanized hardware.
 4. Fill vent and drain holes that are exposed in the finished Work, unless indicated to remain as weep holes, by plugging with zinc solder and filing off smooth.
- B. For galvanized railings, provide hot-dip galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.
- C. For nongalvanized-steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves; however, galvanize anchors to be embedded in exterior concrete or masonry.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine plaster and gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements are clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION, GENERAL

- A. Fit exposed connections together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
 - 1. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 - 2. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
 - 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
- C. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
 - 1. Coat, with a heavy coat of bituminous paint, concealed surfaces of aluminum that are in contact with grout, concrete, masonry, wood, or dissimilar metals.
- D. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- E. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.3 RAILING CONNECTIONS

- A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.
- B. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches of post.

3.4 ANCHORING POSTS

- A. Use metal sleeves preset and anchored into concrete for installing posts. After posts are inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.
- B. Form or core-drill holes not less than 5 inches deep and 3/4 inch larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.
- C. Cover anchorage joint with flange of same metal as post, welded to post after placing anchoring material or attached to post with set screws.
- D. Anchor posts to metal surfaces with oval flanges, angle type, or floor type as required by conditions, connected to posts and to metal supporting members as follows:
 - 1. For steel pipe railings, weld flanges to post and bolt to metal supporting surfaces.
 - 2. For stainless steel railings, weld flanges to post and bolt to supporting surfaces.

3.5 ATTACHING RAILINGS

- A. Anchor railing ends at walls with round flanges anchored to wall construction and welded to railing ends.
- B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends.
- C. Attach railings to wall with wall brackets, except where end flanges are used. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets and railing end flanges to building construction as follows:
 - 1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
 - 2. For hollow masonry anchorage, use toggle bolts.
 - 3. For steel-framed partitions, use hanger or lag bolts set into fire-retardant-treated wood backing between studs. Coordinate with stud installation to locate backing members.

3.6 ADJUSTING AND CLEANING

- A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas, and repair galvanizing to comply with ASTM A780/A780M.
- B. Clean stainless steel by washing thoroughly with clean water and soap and rinsing with clean water.

3.7 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

END OF SECTION 05 52 13

A

B

C

D

E

F

1

2

3

4

5

REFERENCE KEYNOTES

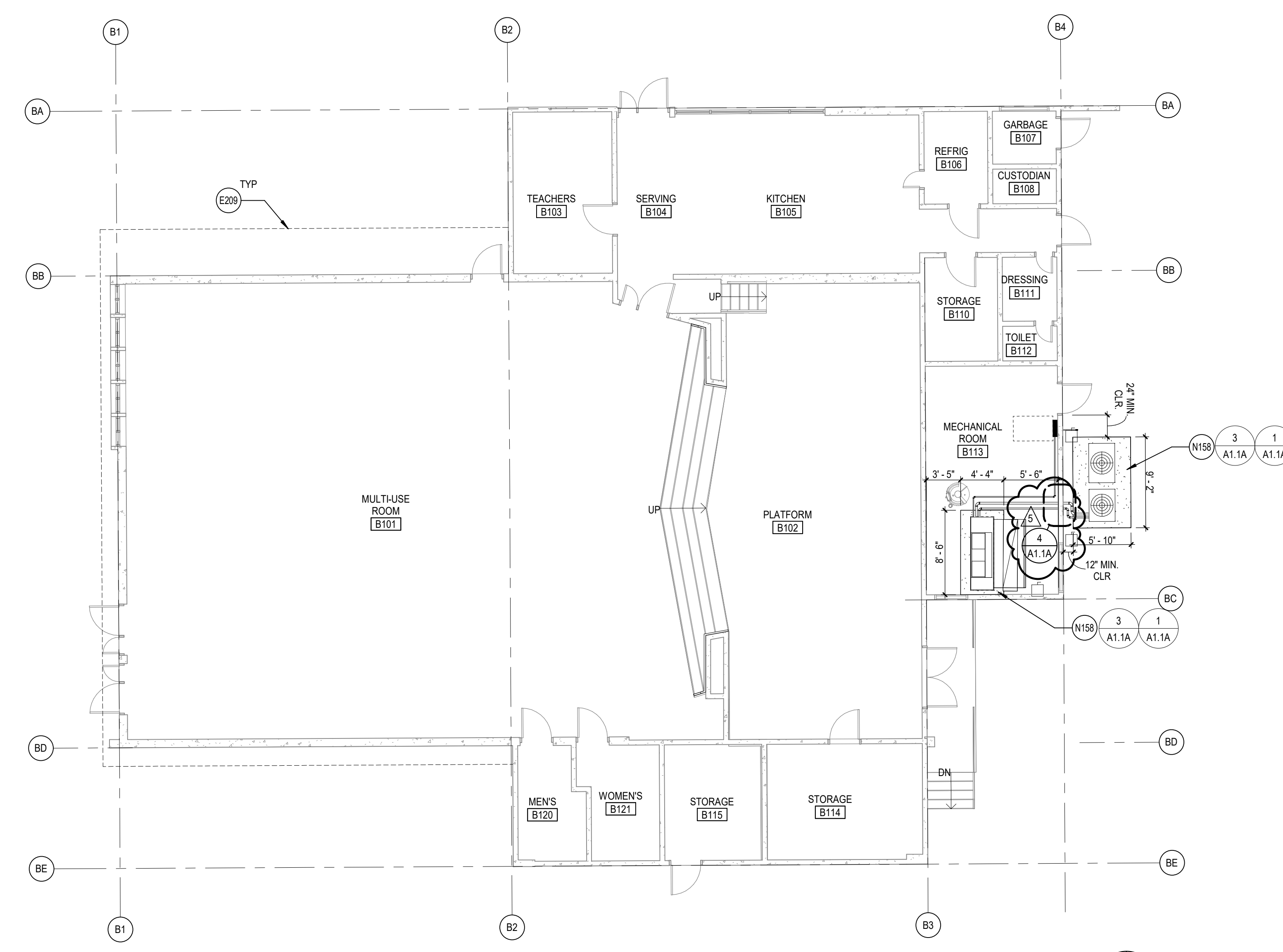
E209	LINE OF (E) ROOF ABOVE SHOWN DASHED
N158	NEW MECHANICAL EQUIPMENT ON NEW 6" THK. TOP LEVELER CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.

GENERAL ARCHITECTURAL NOTES

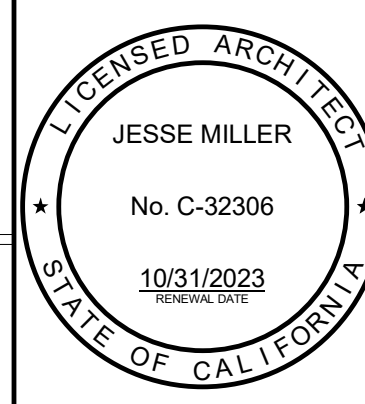
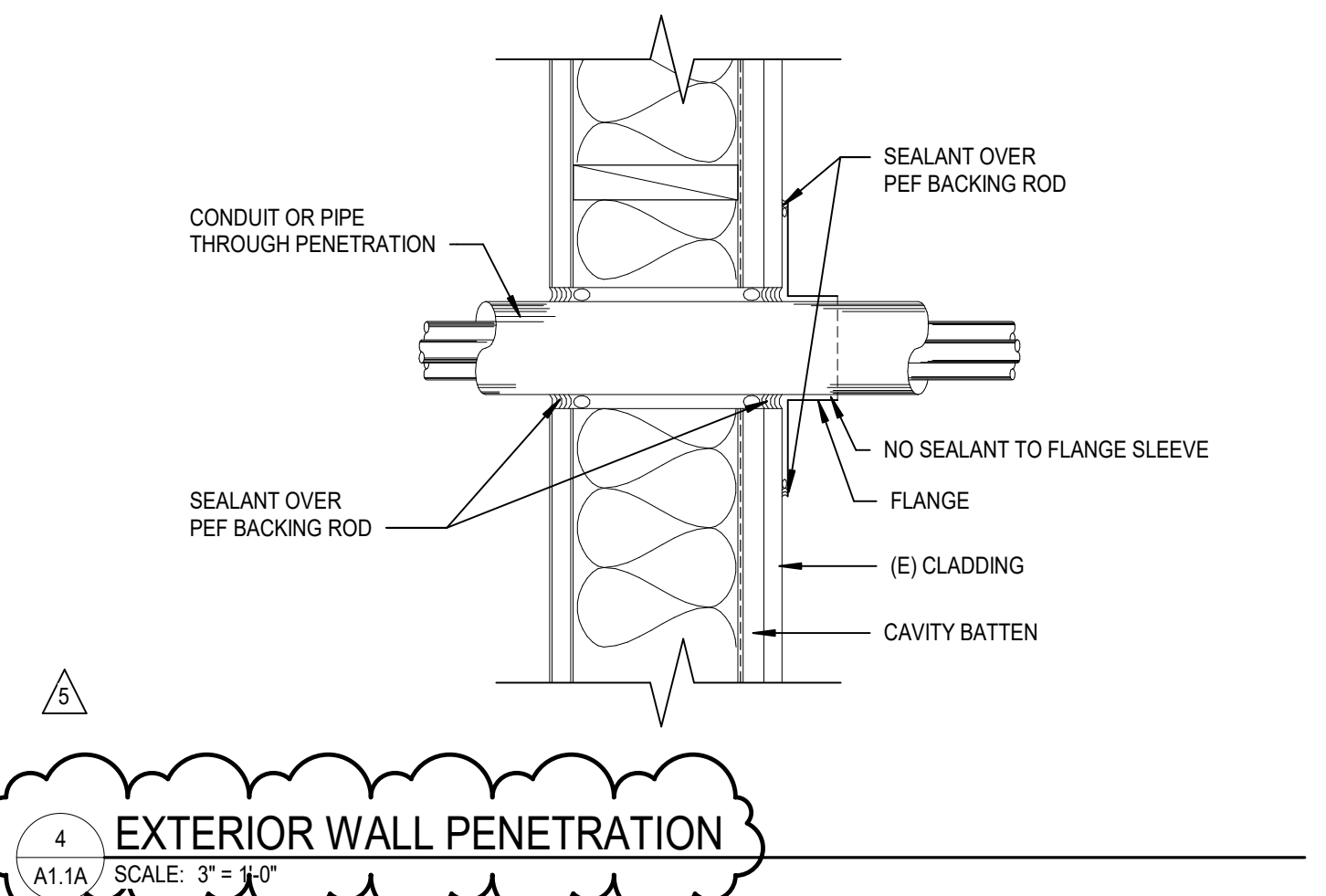
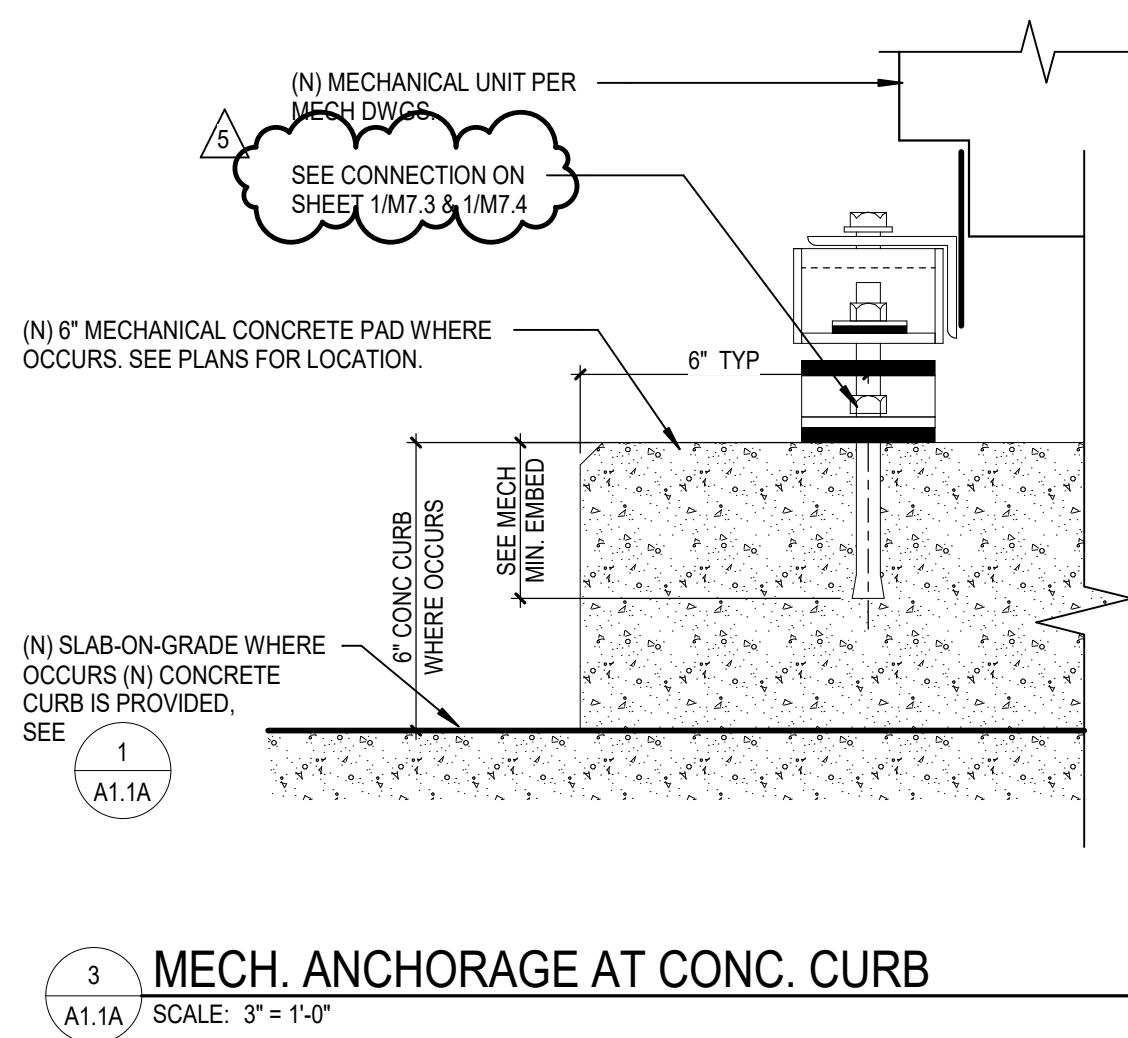
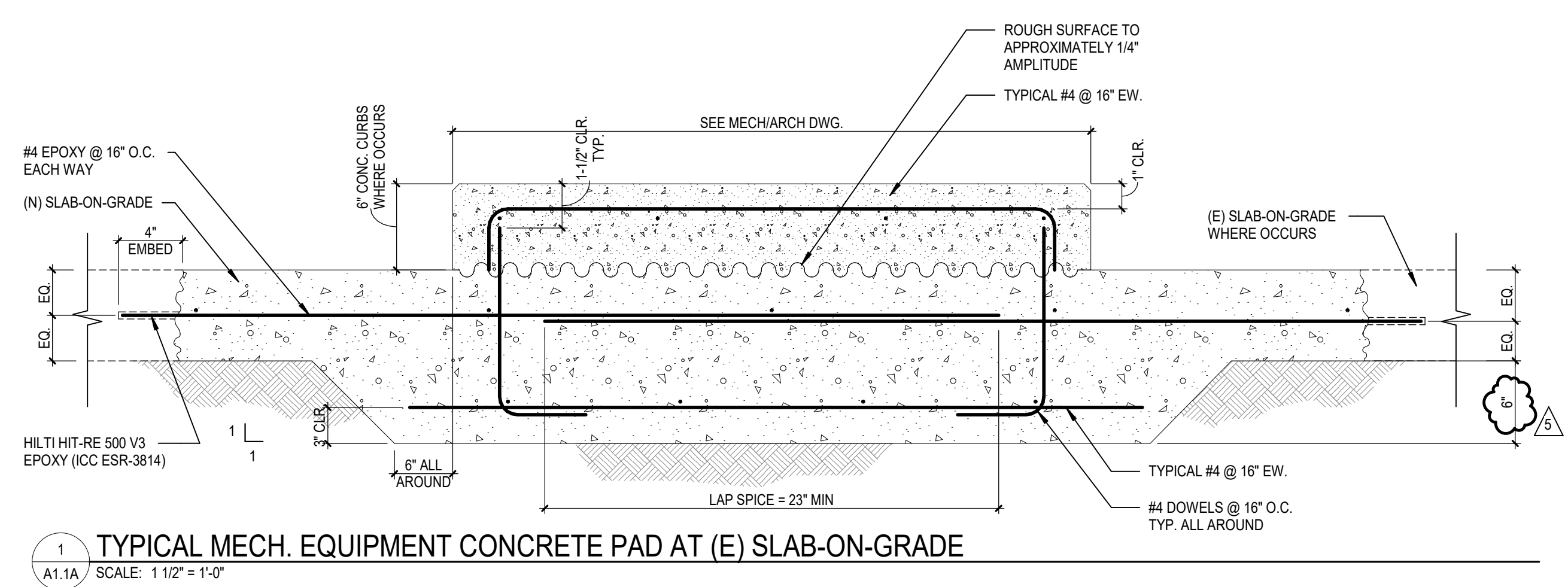
- ALL INTERIOR CMU WALLS SHALL BE TO REMAIN U.N.O.
- SCRIBE (E) CURB/WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



BUILDING B FLOOR PLAN
SCALE: 1/8" = 1'-0"



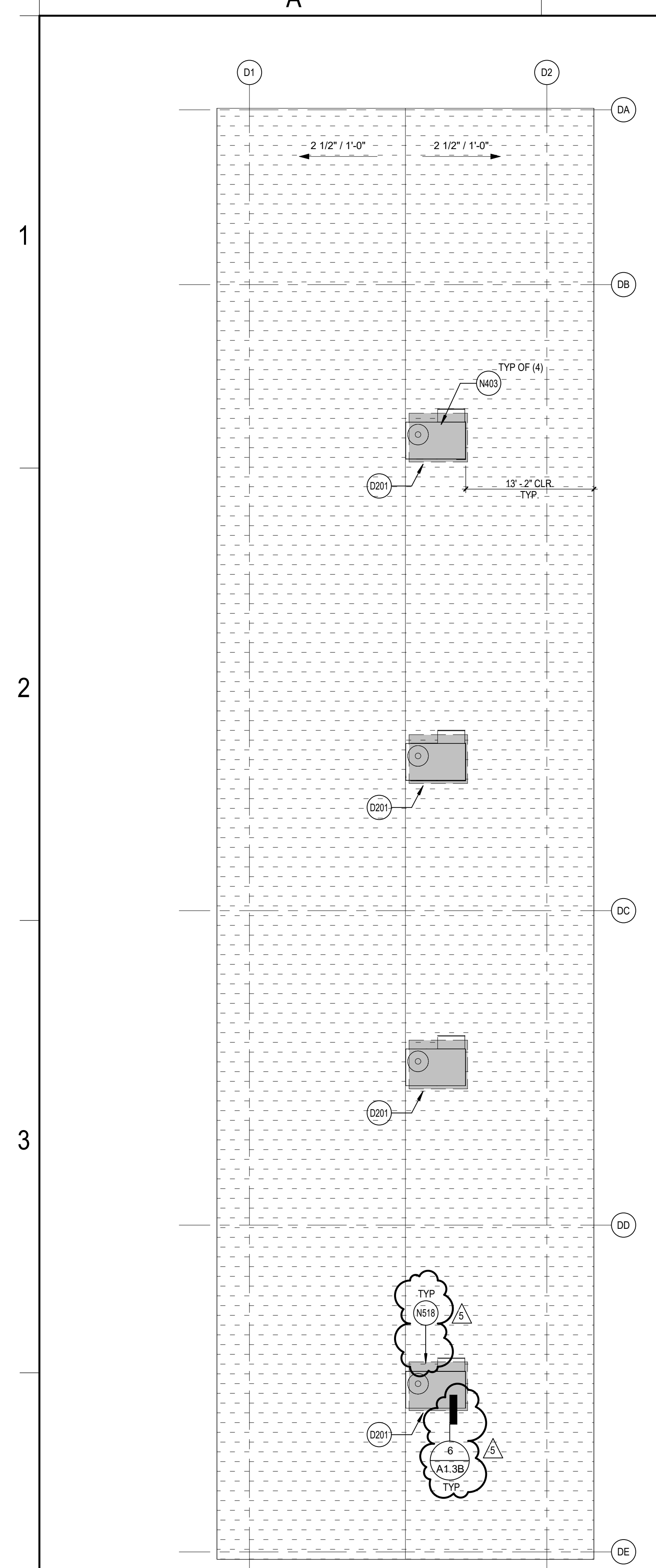
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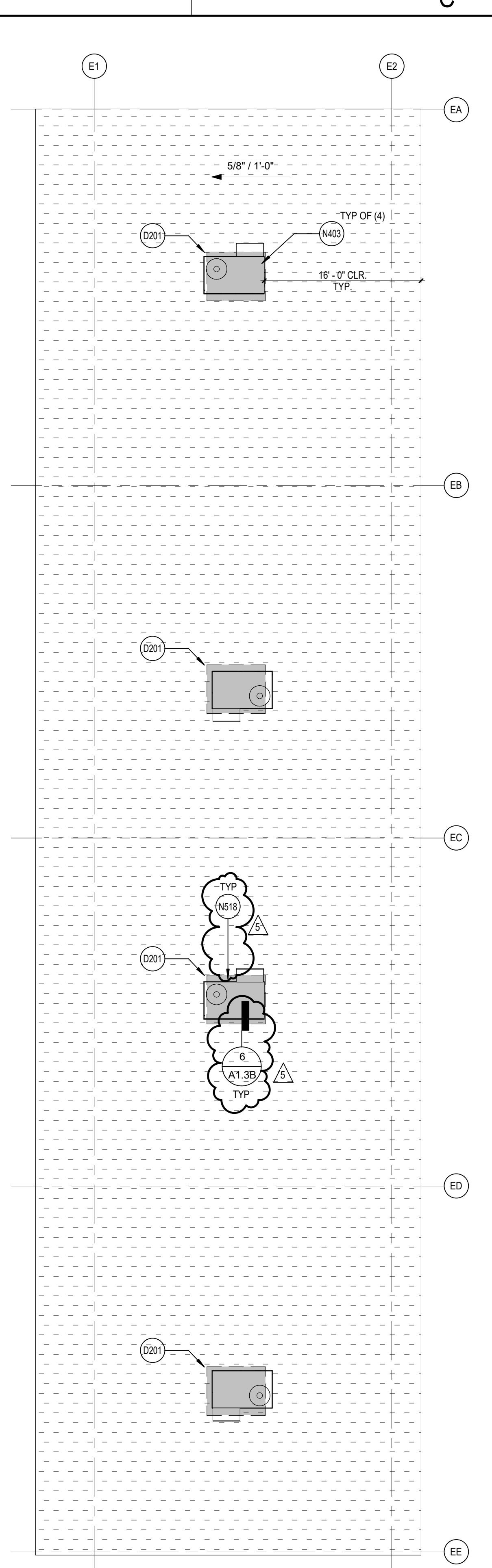
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BUILDINGS B AND C FLOOR PLAN
A1.1A

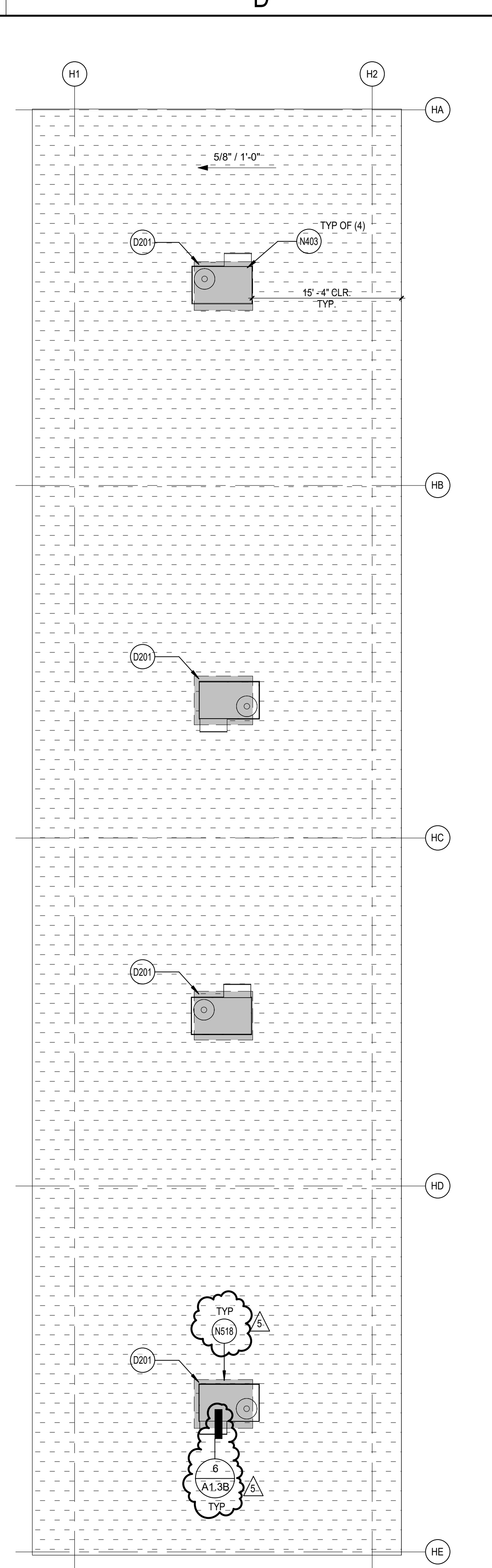
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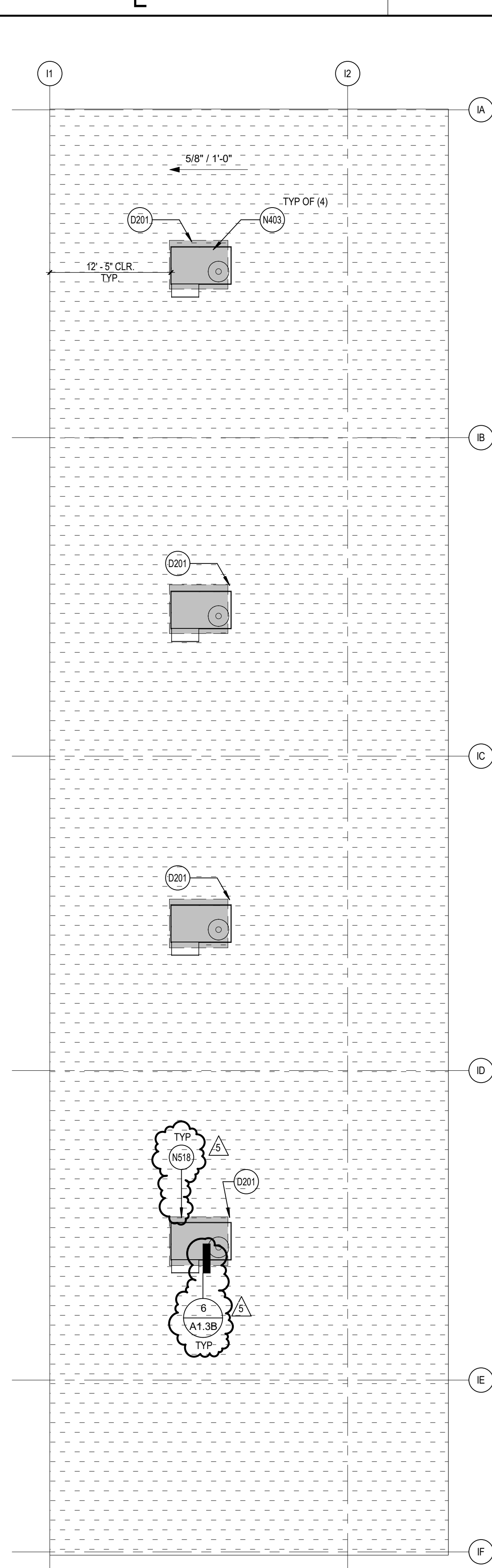
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SCALE: 1/8" = 1'-0"



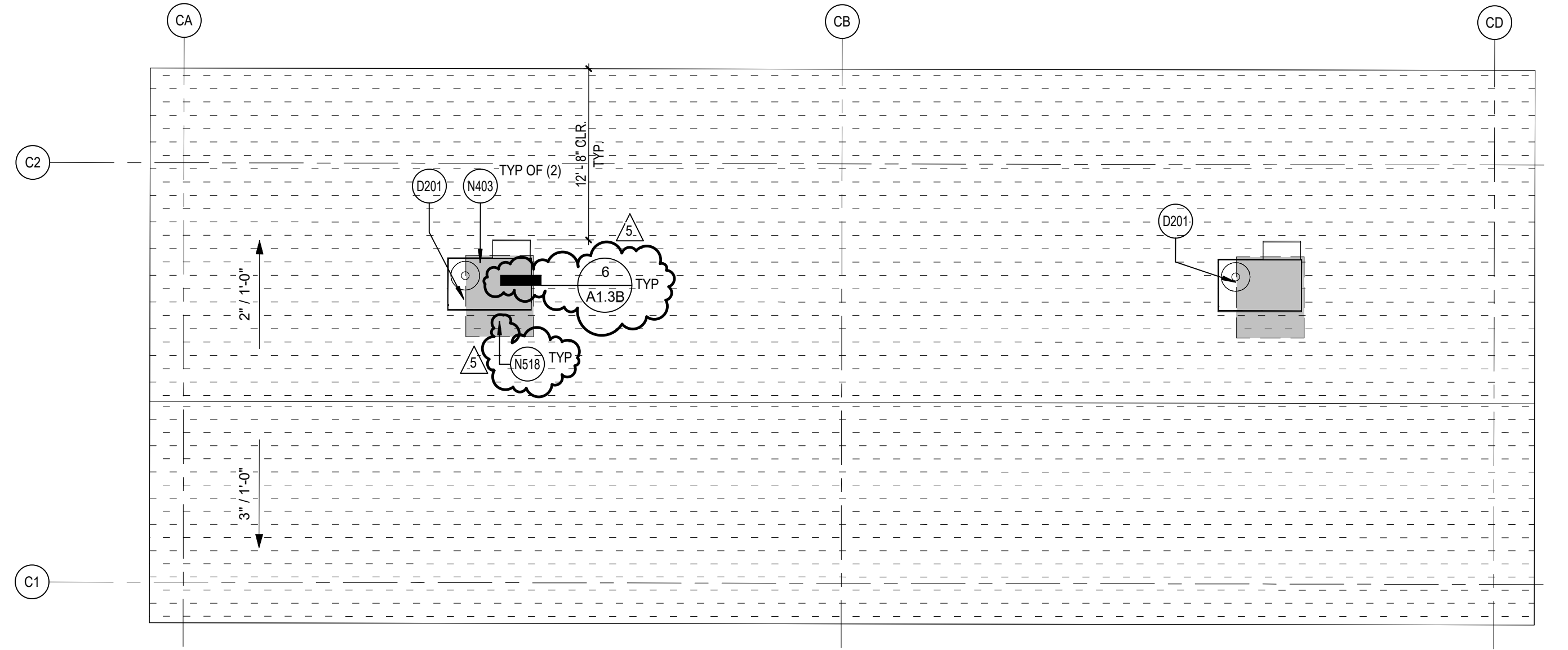
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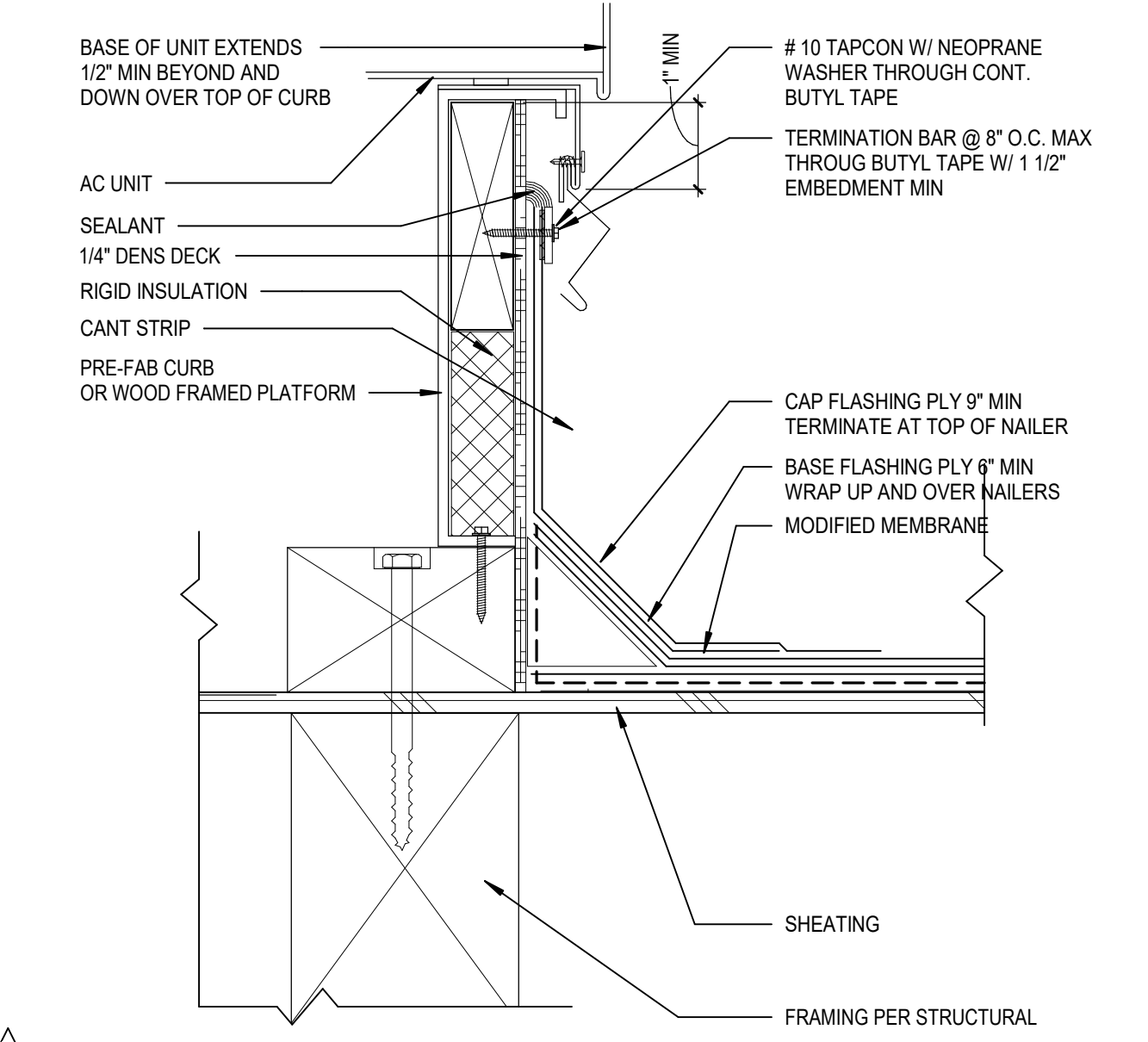
BUILDING H ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING I ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING C ROOF PLAN
SCALE: 1/8" = 1'-0"



MOD BITUM - ACU CURB FLASHING
SCALE: 3" = 1'-0"

REFERENCE KEYNOTES

D201 REMOVE (E) HVAC EQUIPMENT AND (E) DUCTWORK TO REMAIN PROTECT IN PLACE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

N403 (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURBS. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5.

N518 (N) ROOF PATCHING IN AREA OF WORK.

ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.O. SEE MECHANICAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL INFORMATION.

B. NOT USED.

C. (E) DRAIN, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

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- WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
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JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

USO

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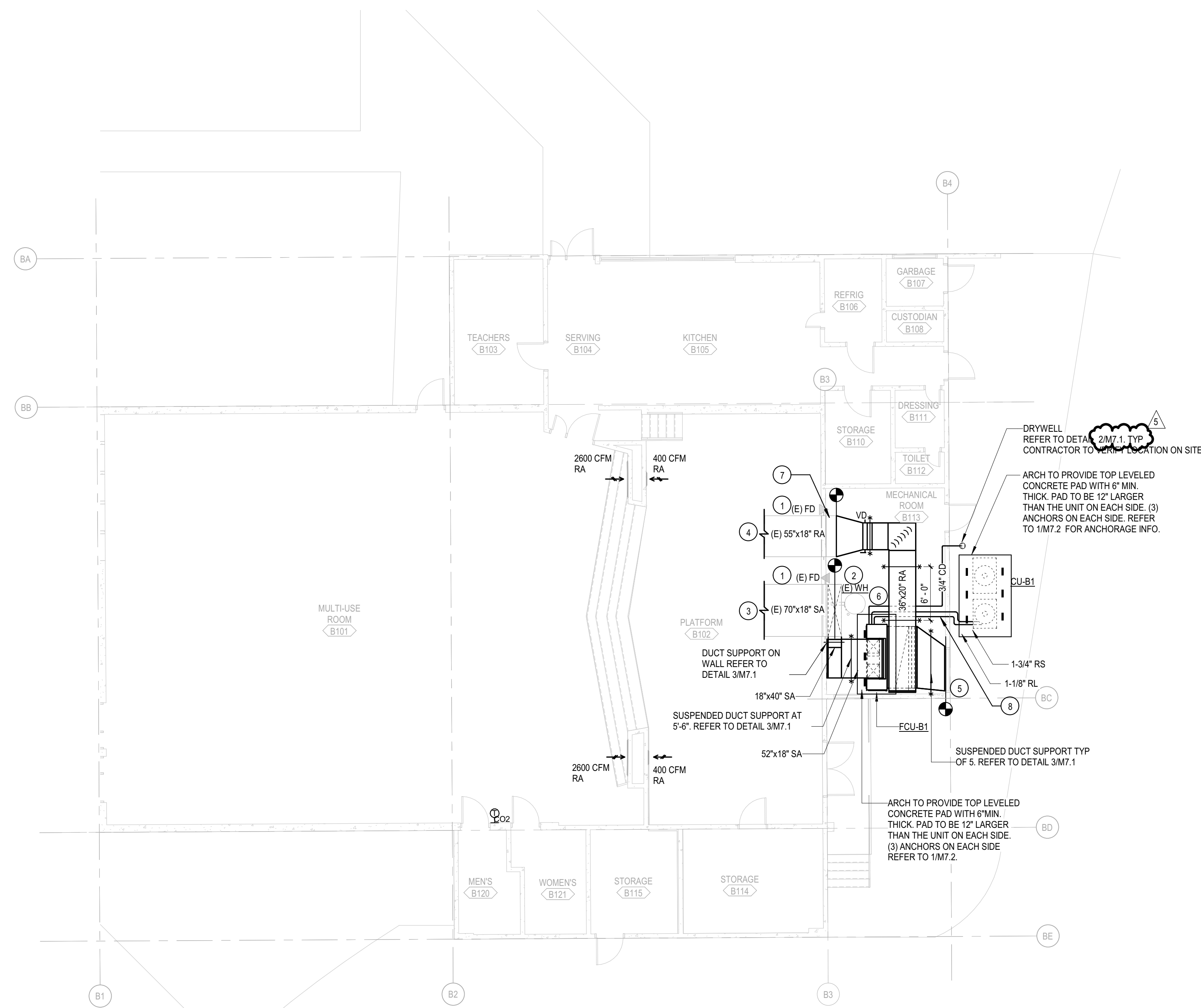
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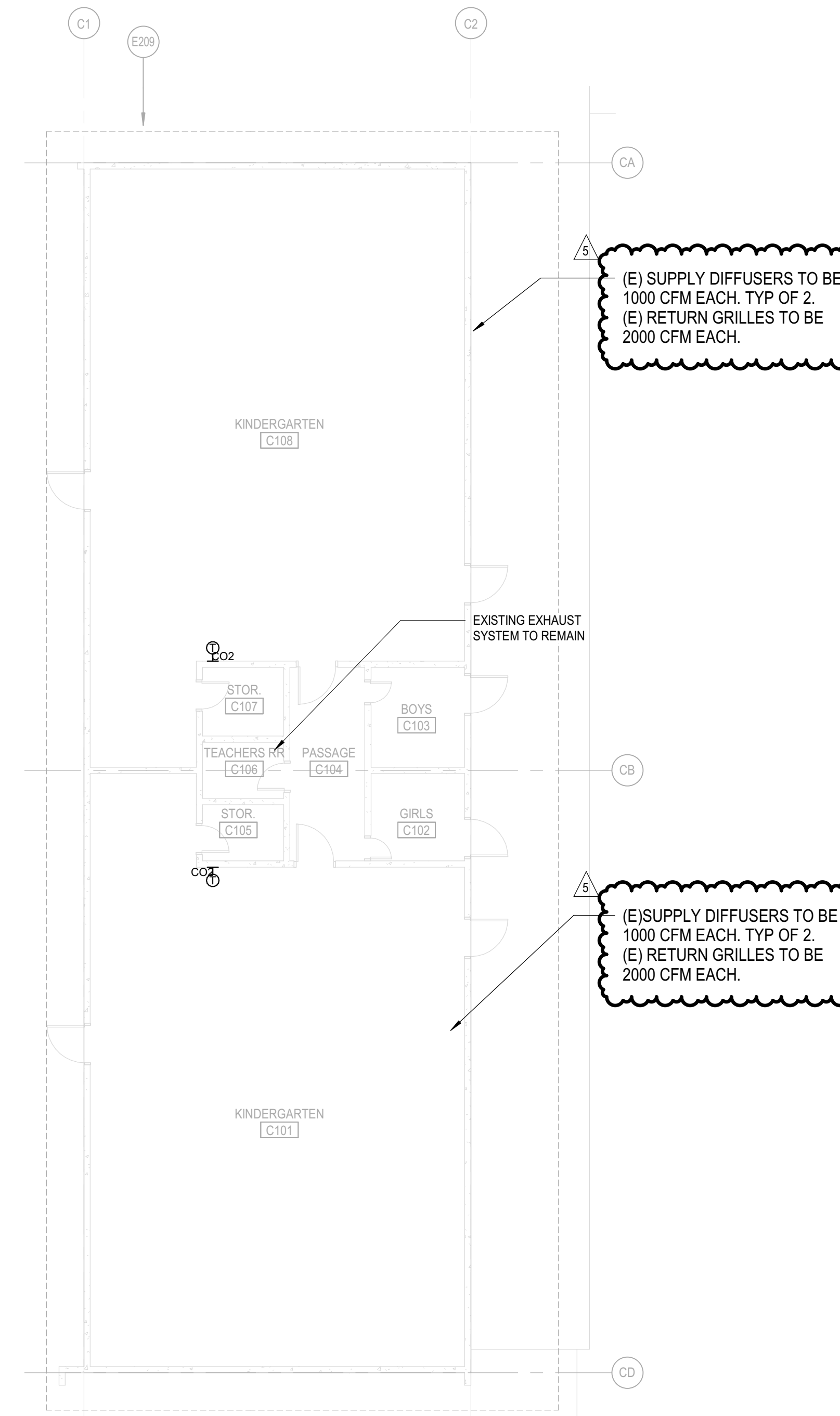
BUILDINGS D, E, H AND I ROOF PLAN

A1.3B

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BUILDING B MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING C MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES - MPR ONLY

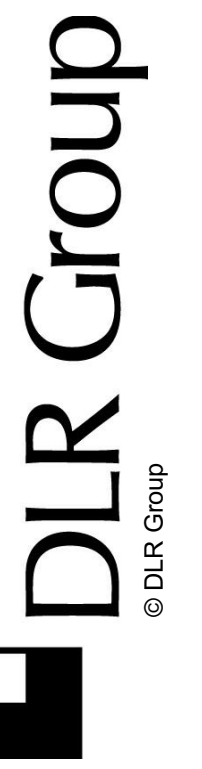
- A. REMOVE SUPPLY FAN, FURNACE AND RELATED DUCT, WIRING, MOTOR, SUPPORTS AND OTHER APPURTENANCES TO POC. REMOVE GAS PIPING UP TO MAIN AND CAP.
- B. (E) WH AND RELATED EQUIPMENT, PIPING AND FLUE DUCT TO REMAIN.

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2. EXISTING DUCTWORK IN CLASSROOMS & MPR TO REMAIN.
3. DIFFUSERS AND GRILLES AIR PATH CANNOT BE BLOCK BY ANY ITEMS.
4. PROVIDE 1" LINEAR TO NEW DUCT IN MPR.

KEY NOTES

1. (E) FIRE DAMPER AND RELATED ACCESS PANEL TO REMAIN.
2. PDD/POC TO BE BEFORE (E) FIRE DAMPER ACCESS PANEL.
3. (E) SA DUCTWORK TO REMAIN. 200 CFM FOR EACH SA DIFFUSER, TYP. OF 3).
4. (E) RA DUCTWORK & ROUTE TO REMAIN.
5. (E) OSA LOUVER & DAMPER TO REMAIN TO BE READY TO CONNECT TO DUCTWORK. CONTRACTOR TO VERIFY DAMPER CONDITION ON SITE PRIOR TO BID.
6. PROVIDE 1" CD PIPING TO DRAIN TO EXISTING FLOOR SINK. CONTRACTOR TO VERIFY PRIOR TO BID.
7. RE-BALANCE (E) EXHAUST DAMPER TO 2000 CFM. (E) EXHAUST HOOD TO REMAIN.
8. RULS PENETRATE WALL ABOVE GRADE. CONTRACTOR TO VERIFY LOCATION ON SITE. PROVIDE PHP PIPE SUPPORT.



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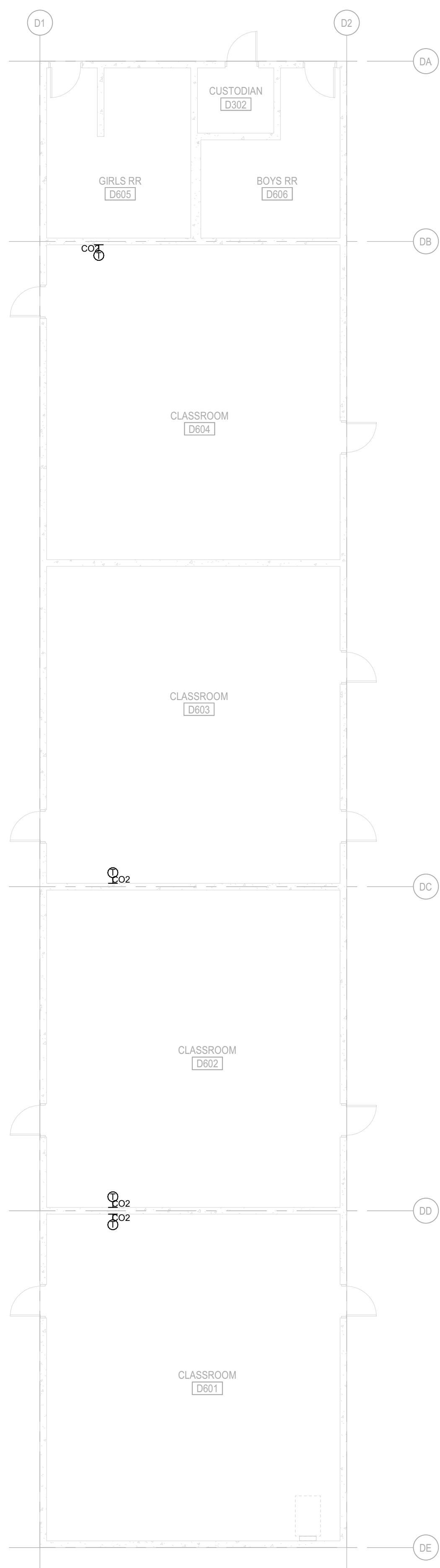
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BUILDING B & C MECHANICAL FLOOR PLAN

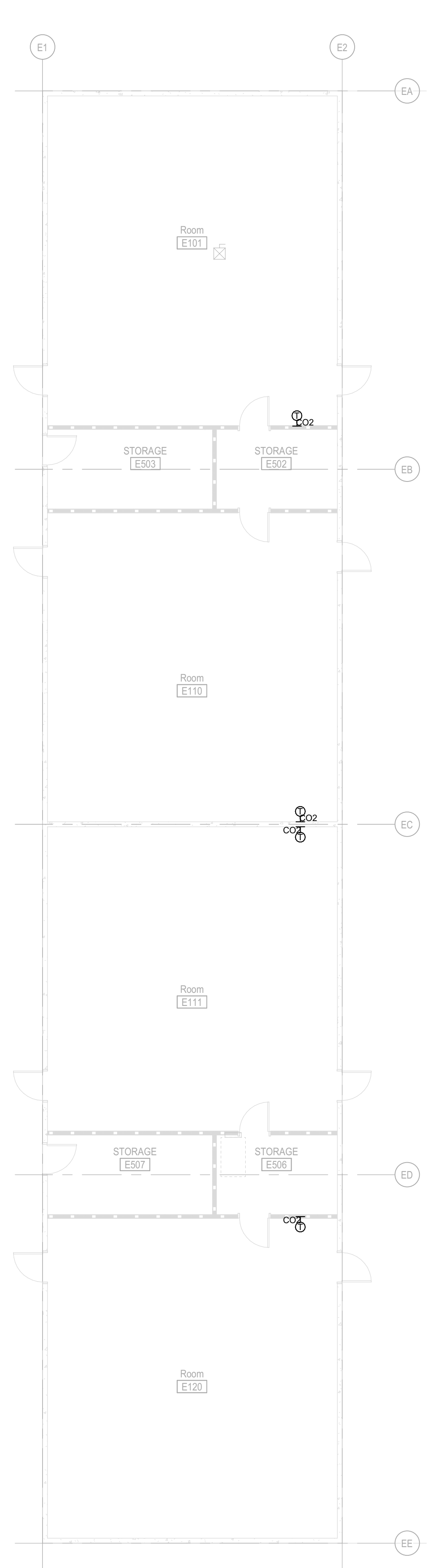
M1.1B

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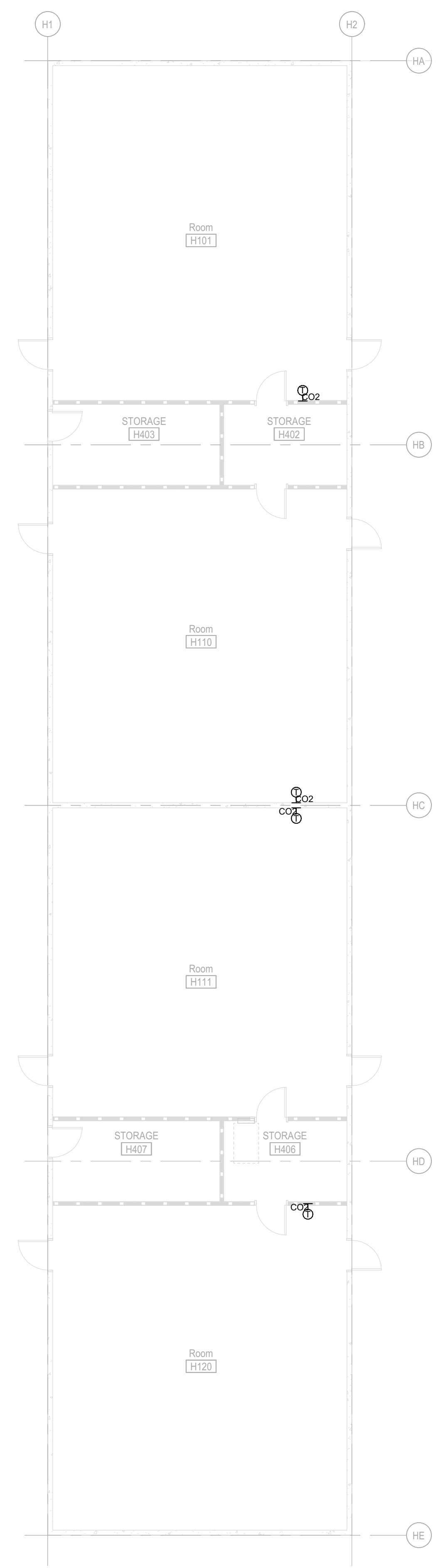
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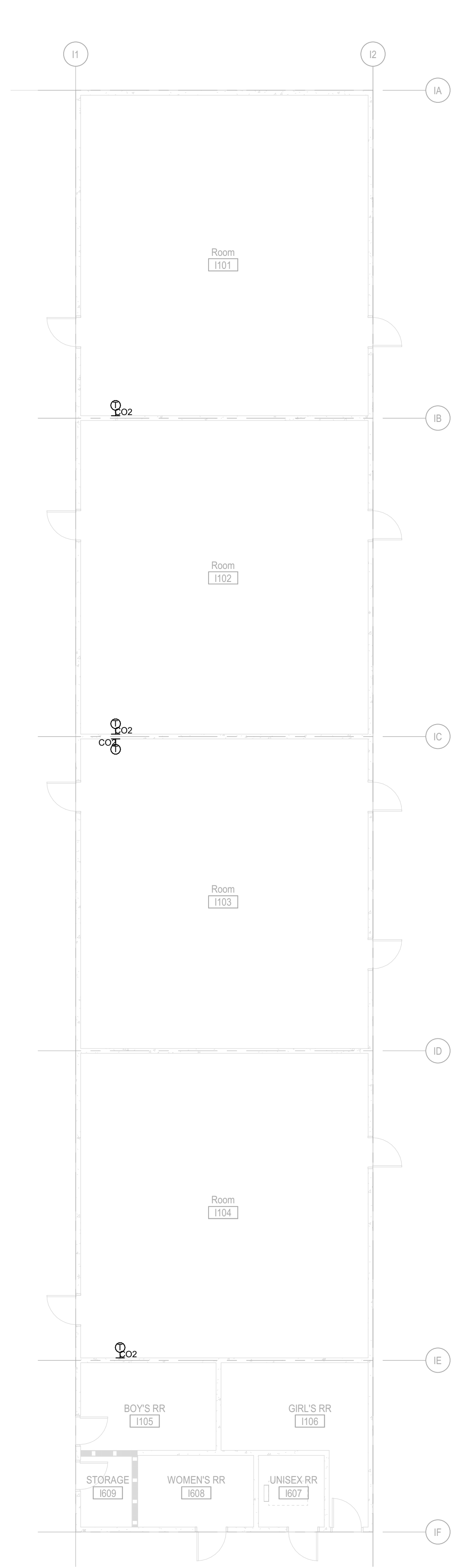
 **BUILDING D MECHANICAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



 **BUILDING E MECHANICAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



 **BUILDING H MECHANICAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



 **BUILDING I MECHANICAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS ONLY.
2. EXISTING DUCTWORK TO REMAIN AND BE ASSUMED TO MATCH.
3. (E) SUPPLY DIFFUSERS TO BE 800 CFM EACH, TYP. OF 2" IN EACH CLASSROOM. (R) RETURN GRILLES TO BE 1000CFM EACH.



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BUILDINGS D,E,H & I MECHANICAL FLOOR PLAN

M1.1D

MARK FCU-B1	MAKE CARRIER	MODEL 4GRUAQ-18	STEEL FRAME ASTM A36, L 3 X 3 X 1/4					WTG T-8	SPRING OD 2	DEFL 1
----------------	-----------------	--------------------	--	--	--	--	--	------------	----------------	-----------

DETAIL-1

UNIT OUTLINE

ASTM A36, L 3 X 3 X 1/4

BACK GOUGE

3/16 TYP

7/16 X 5 X 1/2 RIBBY

TIE-DOWN STRAPS AS SHOWN

LEVELLING BOLT 3/8 DIA. & ATTACHMENT OF STEEL BASE TO SPRING ISOLATOR

DETAIL-3

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE

9/16" DIA. HOLE (2) PLACES

USE 1/2" DIA. HILTI KB T22 ANCHORS IN 3000 PSI HR CONCRETE, MIN 3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE.

INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

7 GA. PLATE

3/8" DIA. TAP

SIDE PLATE 7 GA. PLATE

LEVELLING BOLT 3/8 DIA.

NEOPRENE ORIMET

1/4" THICK NEOPRENE

STABILIZER BOLT 1/2" DIA.

10 GA. PLATE

1/2 X 1" FLAT BAR (WELDED)

1/4" THICK NEOPRENE

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.

RMU-RQ-SH-1

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 200 LBS.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

DETAIL-2

VIEW A-A

VIEW B-B

LEVELLING BOLT 3/8 DIA. & ATTACHMENT OF STEEL BASE TO SPRING ISOLATOR

7/16" DIA. HOLE

ASTM A36 L 3 X 3 X 1/4

APPROX. OPER. HT. 1-1/2

3-3/4

NOTCH @ EA. ISOLATOR LOCATION

TIE-DOWN STRAP DETAIL

ATTACHMENT OF UNIT TO STEEL BASE

CONNECTION DETAIL

3 #12 TEKs SCREWS TO UNIT BASE RAIL

3/16" DIA. PILOT HOLE FOR #12 TEKs SCREWS

18 GA. GALV. SHEET METAL

6 #12 TEKs SCREWS TO STEEL SUPPORT FRAME

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy, Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673 	JOB NAME: COVINA USD - BARRANCA ES CUST.: CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: ADDED WELDING (7-21-22) B: VERT TO HORIZ (7-25-22) IDT C: CALL OUT EVERY ATTACHMENT (9-2-22) D: SPECS ANGLE (9-20-22)	DRN: JO DATE: 6/24/22 DRAWING NO.: -2D
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1 ISOLATOR DETAILS
M7.2 NO SCALE



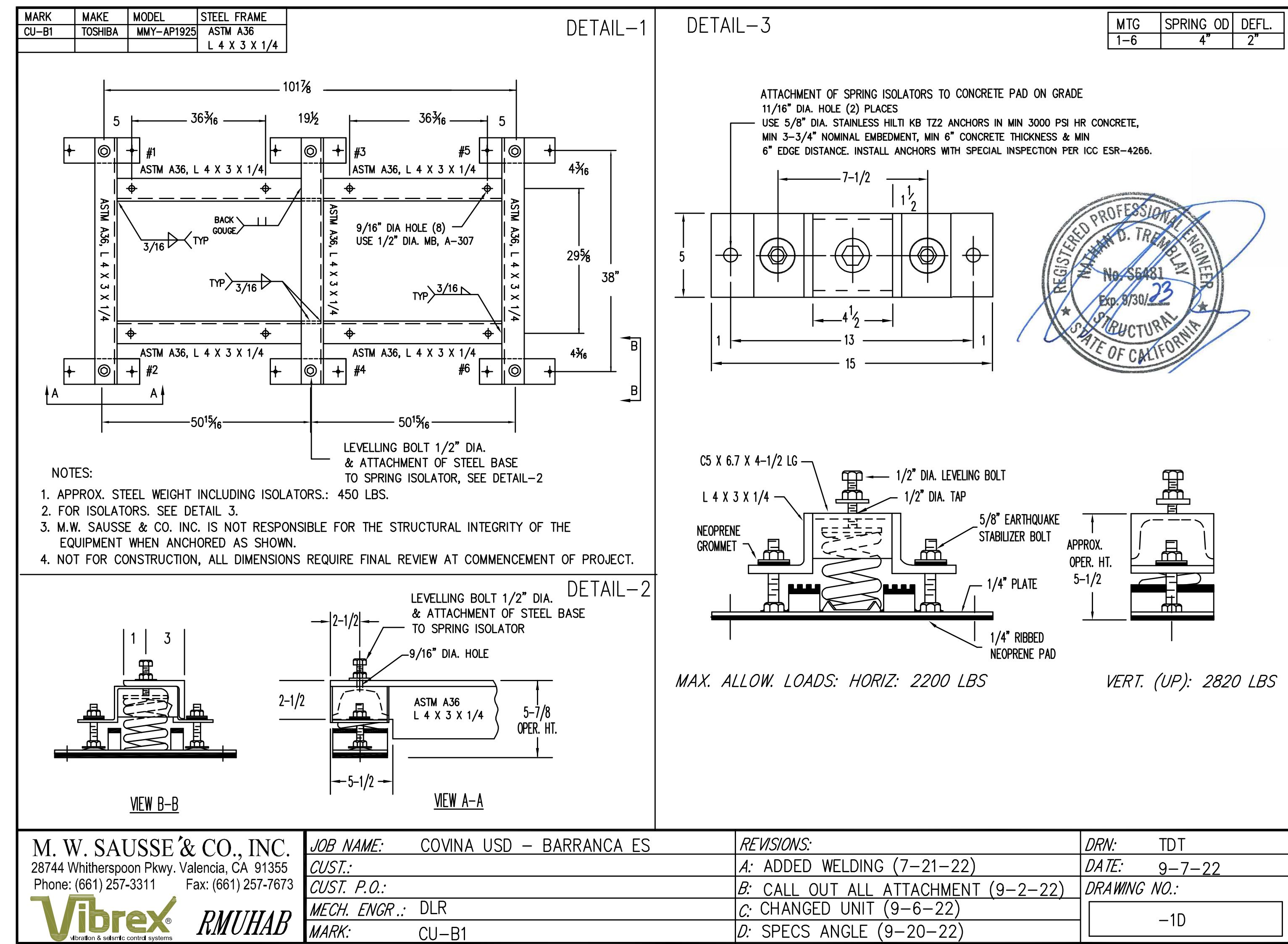
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MECHANICAL DETAILS

M7.2



1 CU-B1 ISOLATOR DETAILS
M7.3 NO SCALE



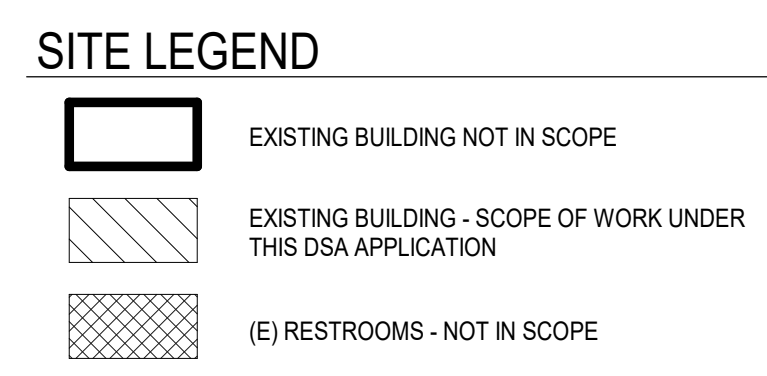
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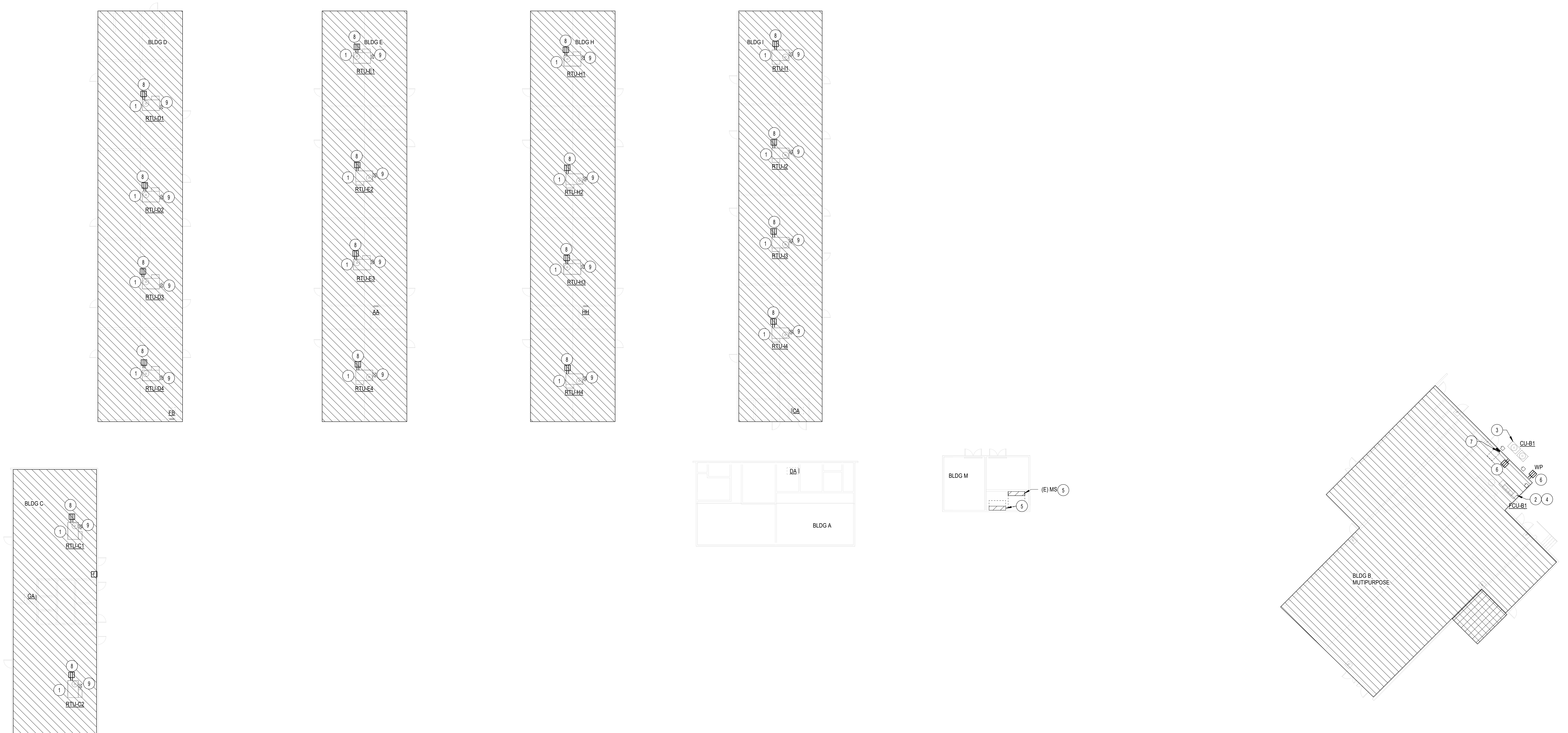
MECHANICAL DETAILS

M7.3



KEYNOTES	
No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT ON THE ROOF TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. EXISTING FEEDER TO BE EXTENDED AS REQUIRED. PROVIDE ALL REQUIRED CONNECTION. FUSED DISCONNECT FOR POWER EXHAUST FAN SHALL BE PROVIDED WITH #8 CONDUCTOR AND #10 GND CONDUCTOR TO LOAD SIDE OF MAIN DISCONNECT FOR RTU.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
3	NEW HVAC EQUIPMENT AT GRADE. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
4	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 908 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
5	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
6	PROVIDE 120 VOLT CIRCUIT FROM SPARE BREAKER. PROVIDE TANDEM BREAKER AS REQUIRED.
7	(N) PANELBOARD 8 AT GRADE LEVEL. 240 VOLTS. 3-PHASE, 3-WIRE, 100 AMP BUS. ROUTE CONDUIT ABOVE EXISTING WALKWAY CANOPIES AND FIELD COORDINATE WITH SCHOOL DISTRICT. PROVIDE PULL BOX EVERY 200 FEET ABOVE THE WALKWAY CANOPY. REFER TO SHEET ES.1 FOR WALKWAY CANOPY LOCATIONS.
8	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ES.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
11	PROVIDE 120V CIRCUIT FOR EMS PANEL AND EMS ROUTER. FIELD COORDINATE EXACT LOCATION OF EMS ROUTER AND EMS PANEL.

- GENERAL NOTES**
- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
 - B DISCONNECTING MEANS TO BE NEMA 3R RATED. FURNISHED AND INSTALLED BY DIVISION 28.
 - C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
 - D SEE SCHEDULE ON SHEET ES.1 FOR ADDITIONAL INFORMATION.
 - E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
 - F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
 - G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
 - H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER GESC 03.15.1.
 - J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.



Barranca Elementary School
Covina Valley USD
777 S Barranca Ave. Covina, CA 91723

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REVISIONS
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75-22605-00

ROOF ELECTRICAL PLAN

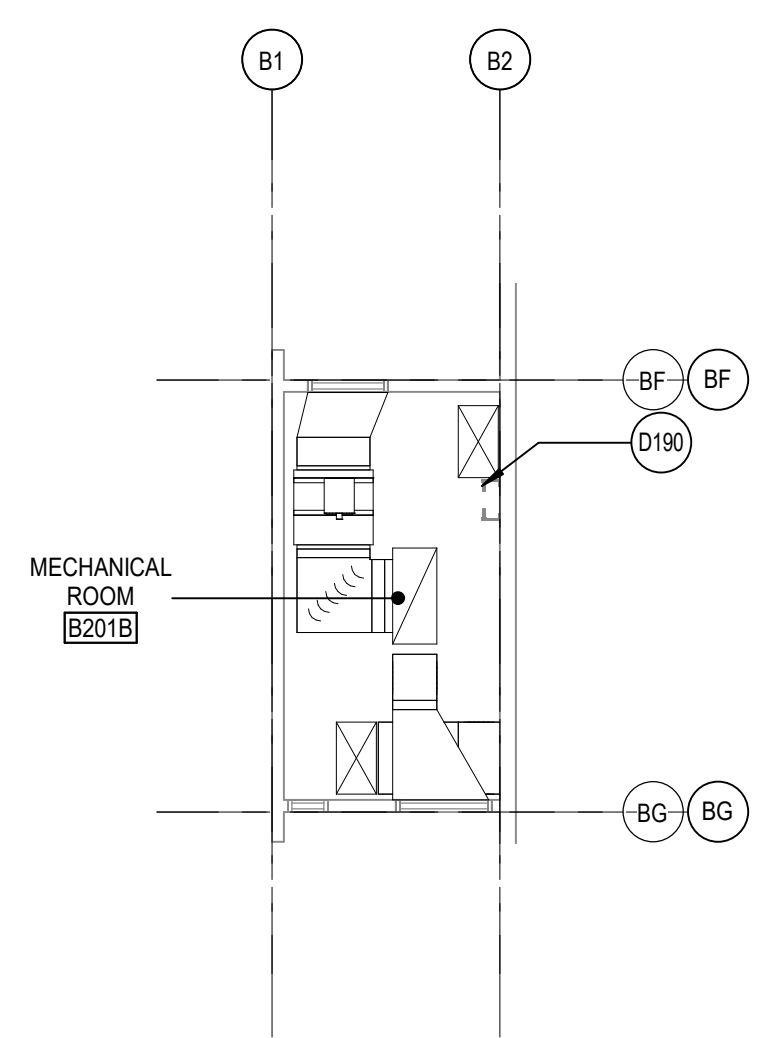
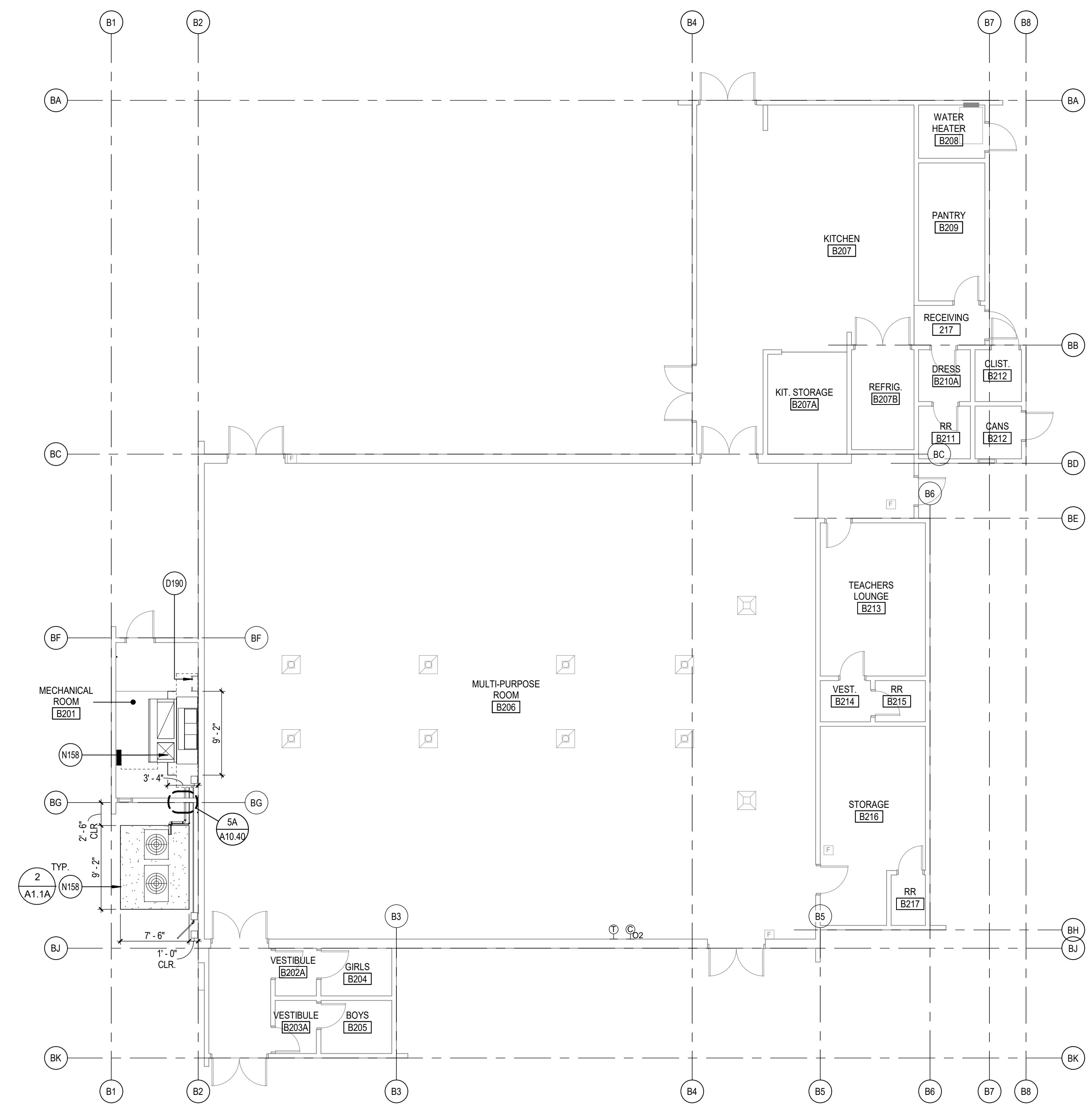
E2.1

REFERENCE KEYNOTES

KEYNOTES
D190 REMOVE (E) LADDER
N158 NEW MECHANICAL EQUIPMENT ON NEW 6" THK. TOP LEVELED CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.

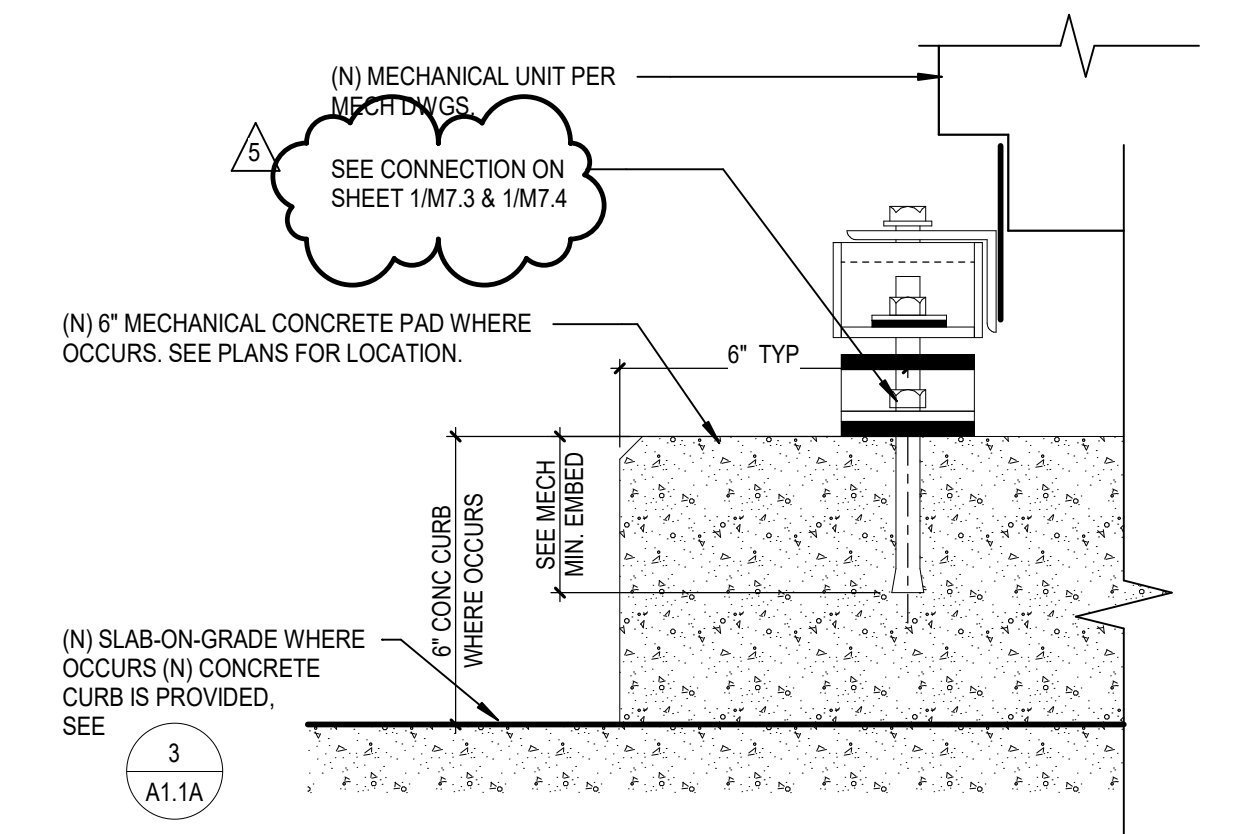
GENERAL ARCHITECTURAL NOTES

- ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
- NOT USED
- FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS WHERE OCCURS
- GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- NOT USED
- SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
- MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILING OR AS SHOWN ON THE DRAWINGS.

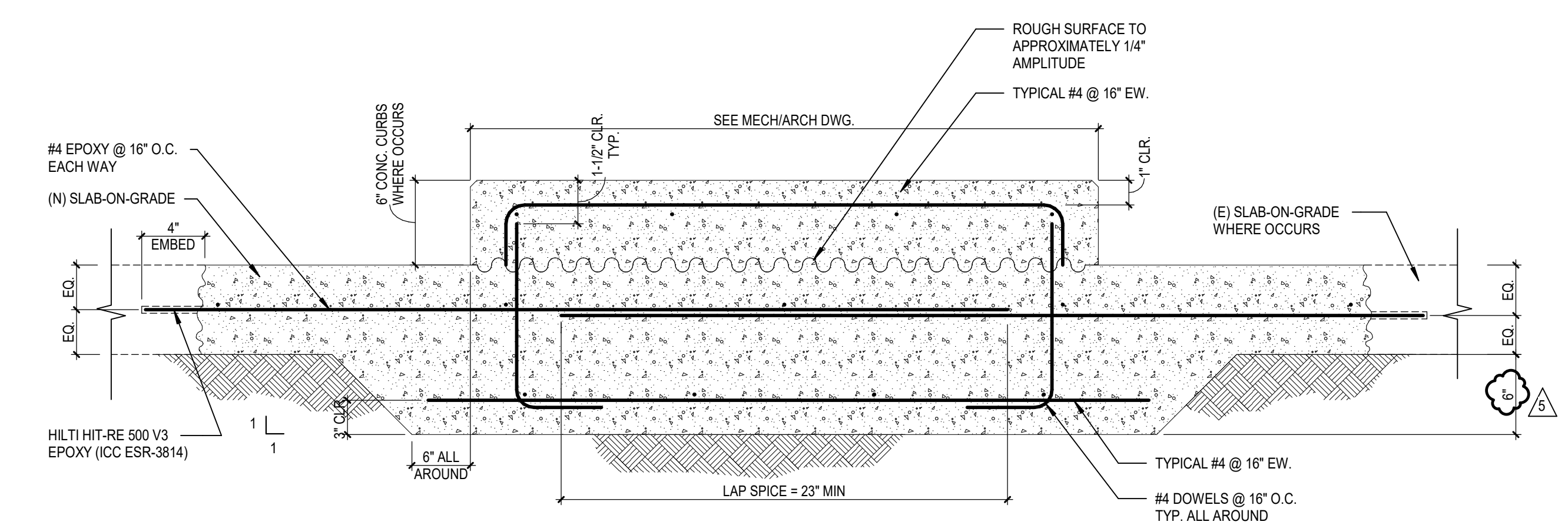


BLDG B -MEZZANINE LEVEL
SCALE: 1/8" = 1'-0"

BUILDING A AND B FLOOR PLANS - MPR
SCALE: 1/8" = 1'-0"



MECH. ANCHORAGE AT CONC. CURB
SCALE: 3" = 1'-0"



TYPICAL MECH. EQUIPMENT CONCRETE PAD AT (E) SLAB-ON-GRADE
SCALE: 1 1/2" = 1'-0"

DEMOLITION GENERAL NOTES

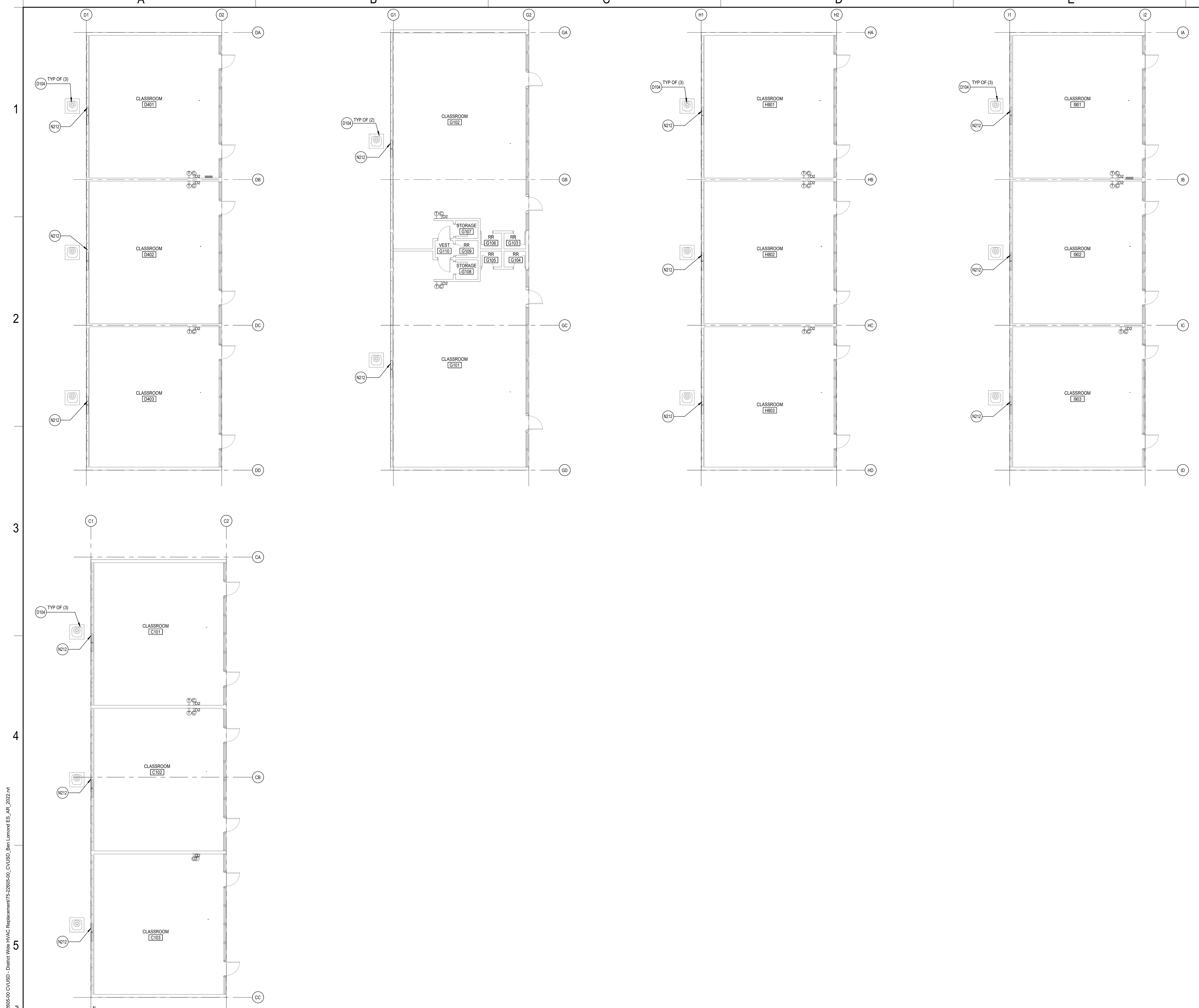
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

BEN LOMOND ELEM. SCHOOL
COVID-19 COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
687 E. COVINA BLVD COVINA, CA 91722

100%
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REVISIONS
5 1/13/2023

75-22605
DSA AH03-12228
DSA File #: 19-25
**BUILDING B
FLOOR PLANS**

A1.1A



REFERENCE KEYNOTES

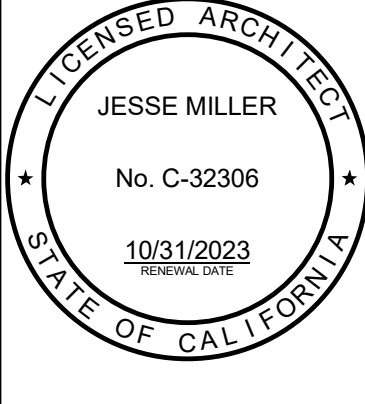
- KEYNOTES**
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DIV. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
 - N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
2. NOT USED
3. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS WHERE OCCURS.
4. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
5. NOT USED
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILING OR AS SHOWN ON THE DRAWINGS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
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 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED
 - Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



BEN LOMOND ELEM. SCHOOL
 COVID-19 COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
 687 E. COVINA BLVD COVINA, CA 91722

100%
CONSTRUCTION DOCUMENT
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 REVISIONS
 5 1/13/2023

75-22605
 DSA A#03-122228
 DSA File #: 19-25
BUILDINGS CDGH AND I FLOOR PLANS

A1.1C

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BUILDINGS C, D, G, H AND I FLOOR PLANS
 SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

KEYNOTES	
D104	REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
N212	REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

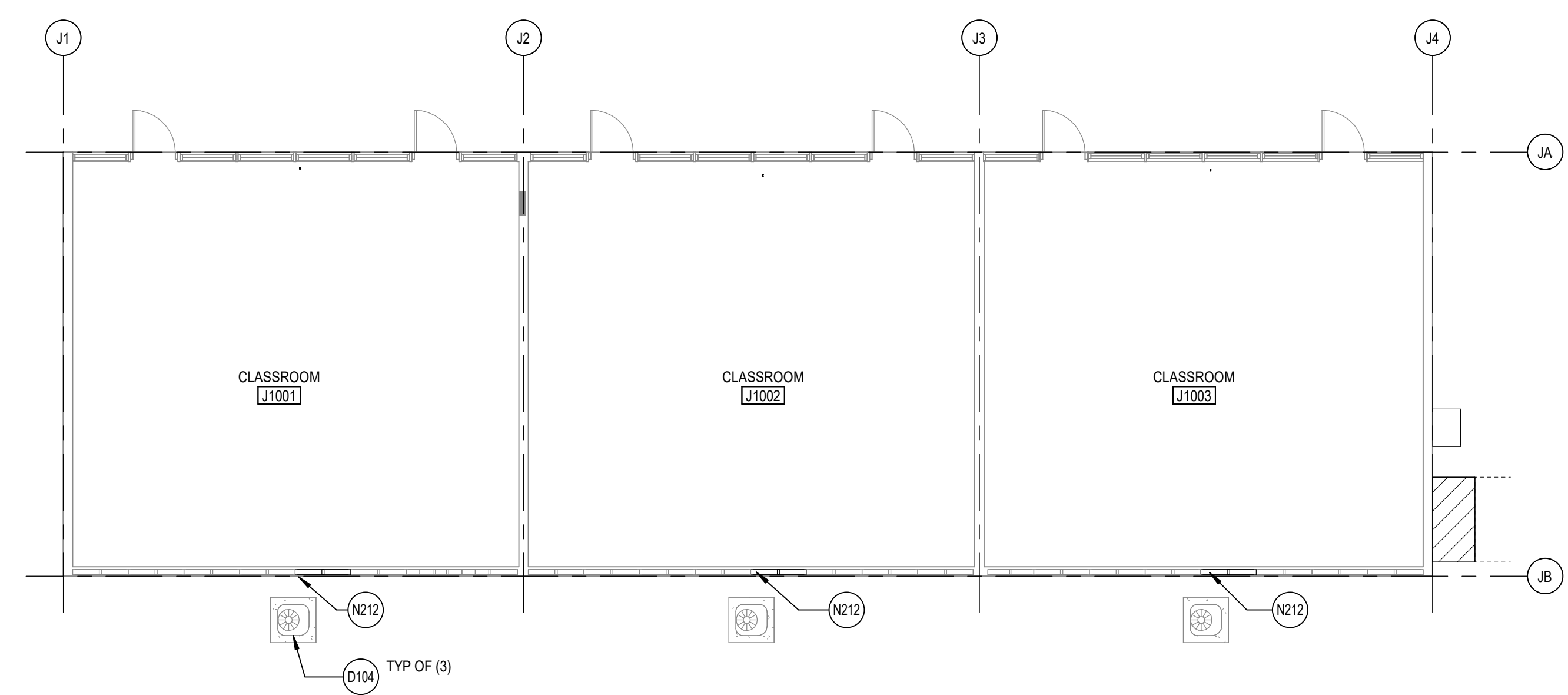
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- GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- NOT USED
- SCORE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
- MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILING OR AS SHOWN ON THE DRAWINGS.



DEMOLITION GENERAL NOTES

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 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



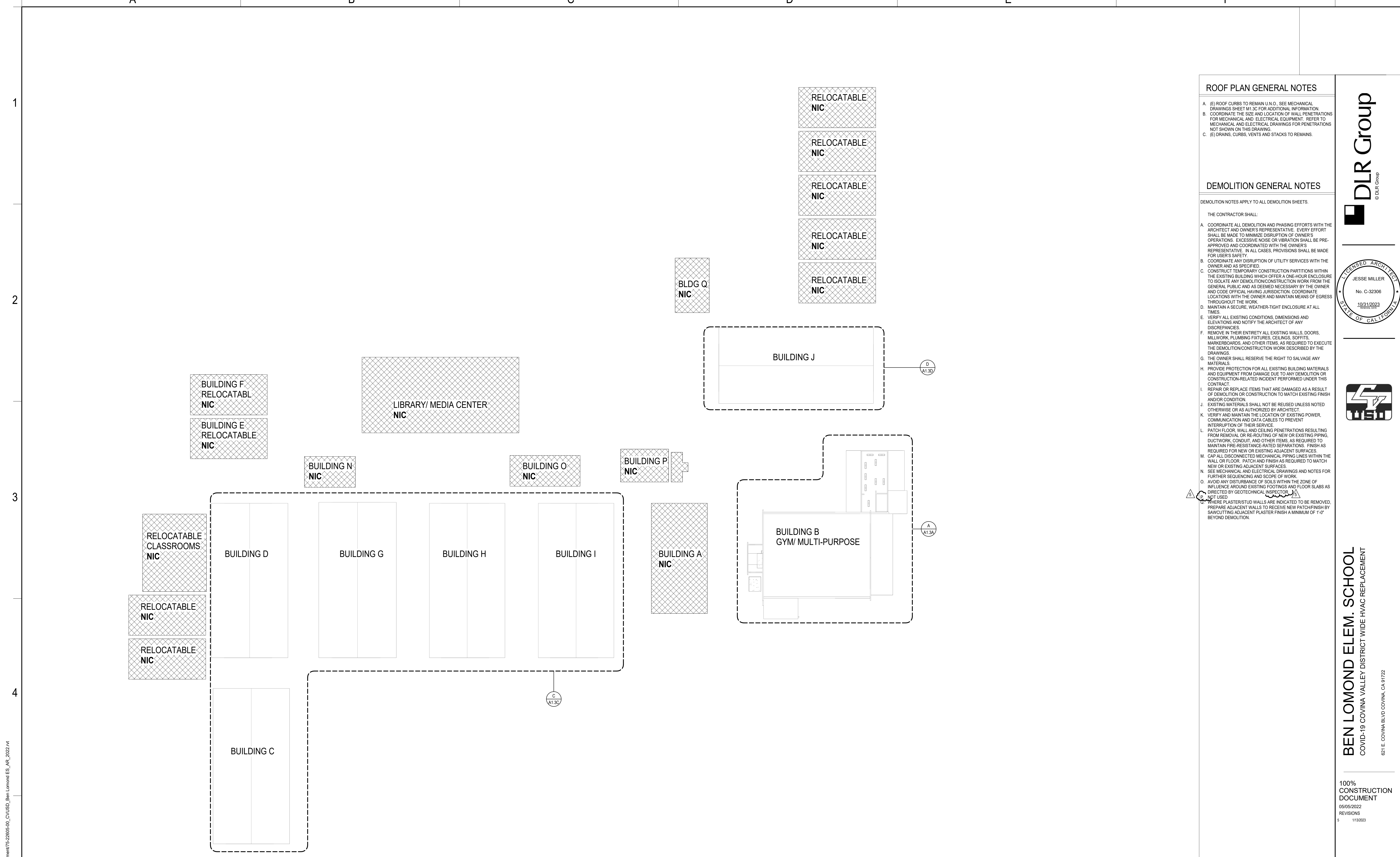
BUILDING J FLOOR PLANS
SCALE: 1/8" = 1'-0"

BEN LOMOND ELEM. SCHOOL
COVID-19 COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
681 E. COVINA BLVD COVINA, CA 91722

100%
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DOCUMENT
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REVISIONS
5 1/13/2023

75-22605
DSA A#03-122228
DSA File #: 19-25
**BUILDING J
FLOOR PLANS**

A1.1D



ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.

DEMOLITION GENERAL NOTES

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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
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 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SCHEDULING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



BEN LOMOND ELEM. SCHOOL
 COVID-19 COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
 687 E. COVINA BLVD COVINA, CA 91722

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75-22605
 DSA A#03-122228
 DSA File #: 19-25
**OVERALL ROOF
 PLAN**

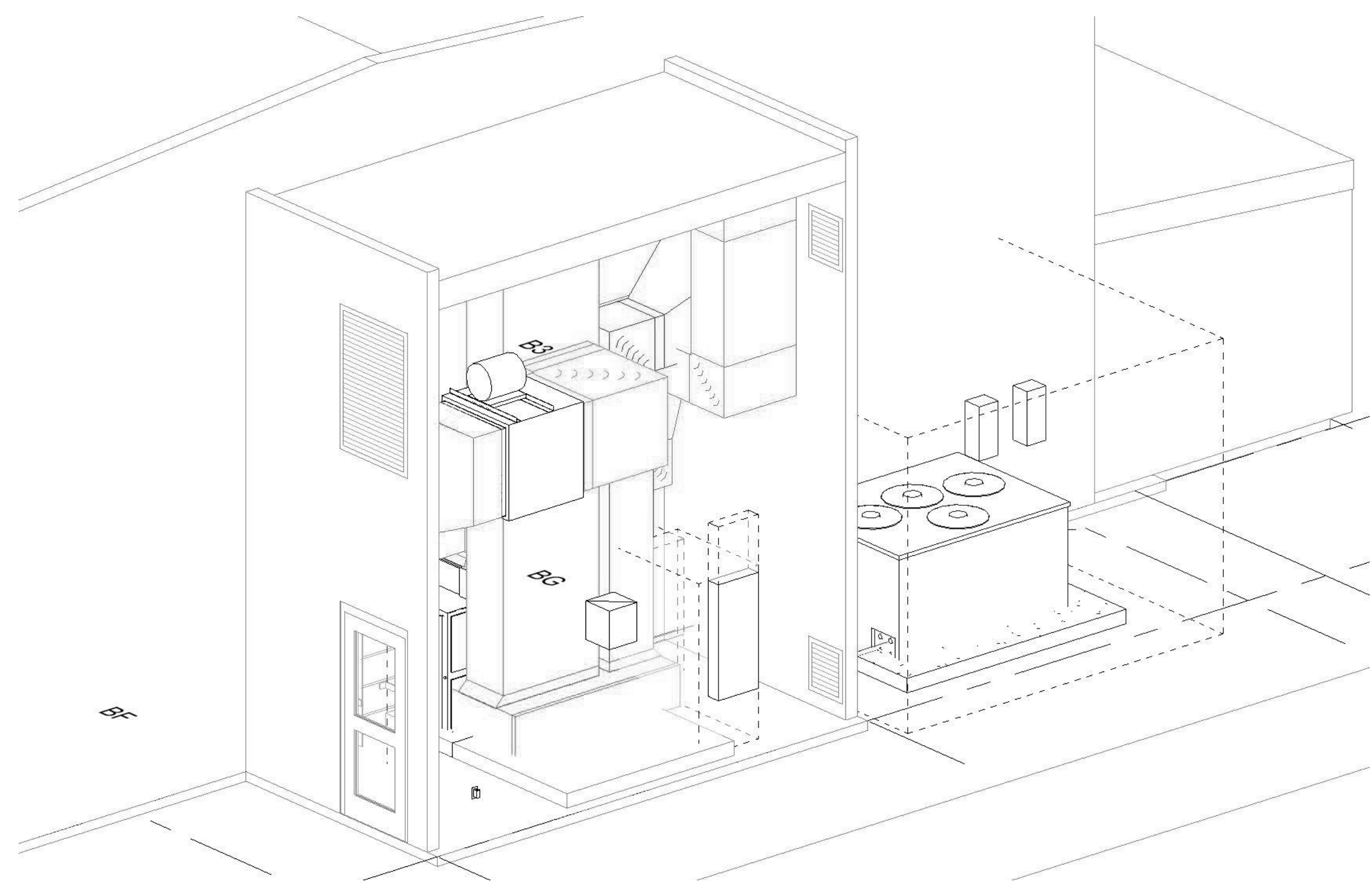
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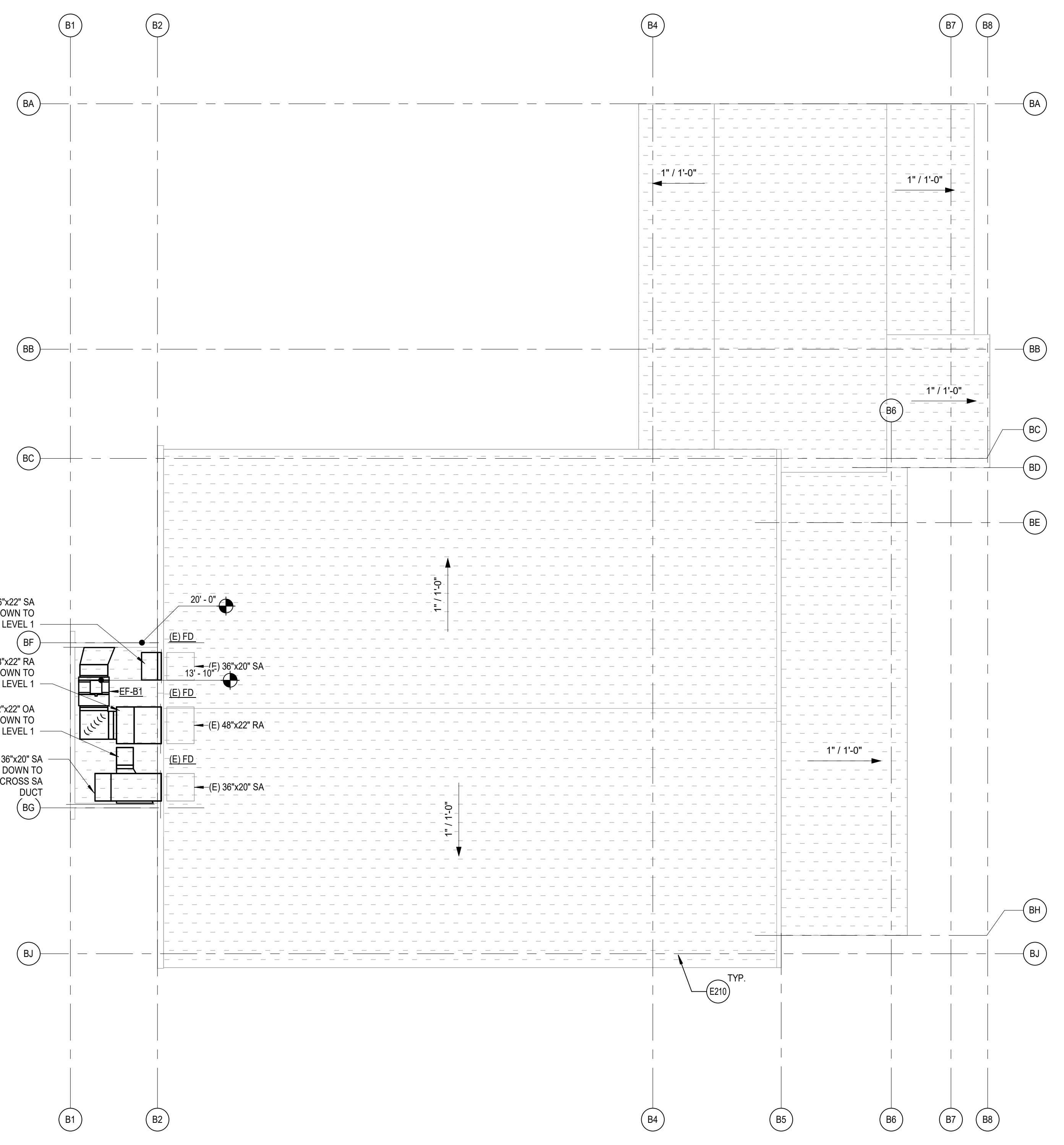
OVERALL ROOF PLAN
 SCALE: 3/8" = 1'-0"

1
2
3
4
5

A B C D E



1 AXON VIEW AT BUILDING B
A1.3A SCALE: 3" = 1'-0"



BUILDINGS B ROOF PLANS
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

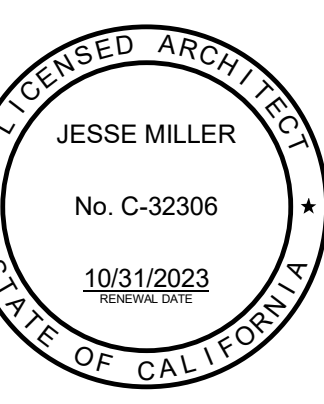
KEYNOTES
E210 LINE OF (E) BLDG BELOW SHOWN DASHED

ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

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 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTORS.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



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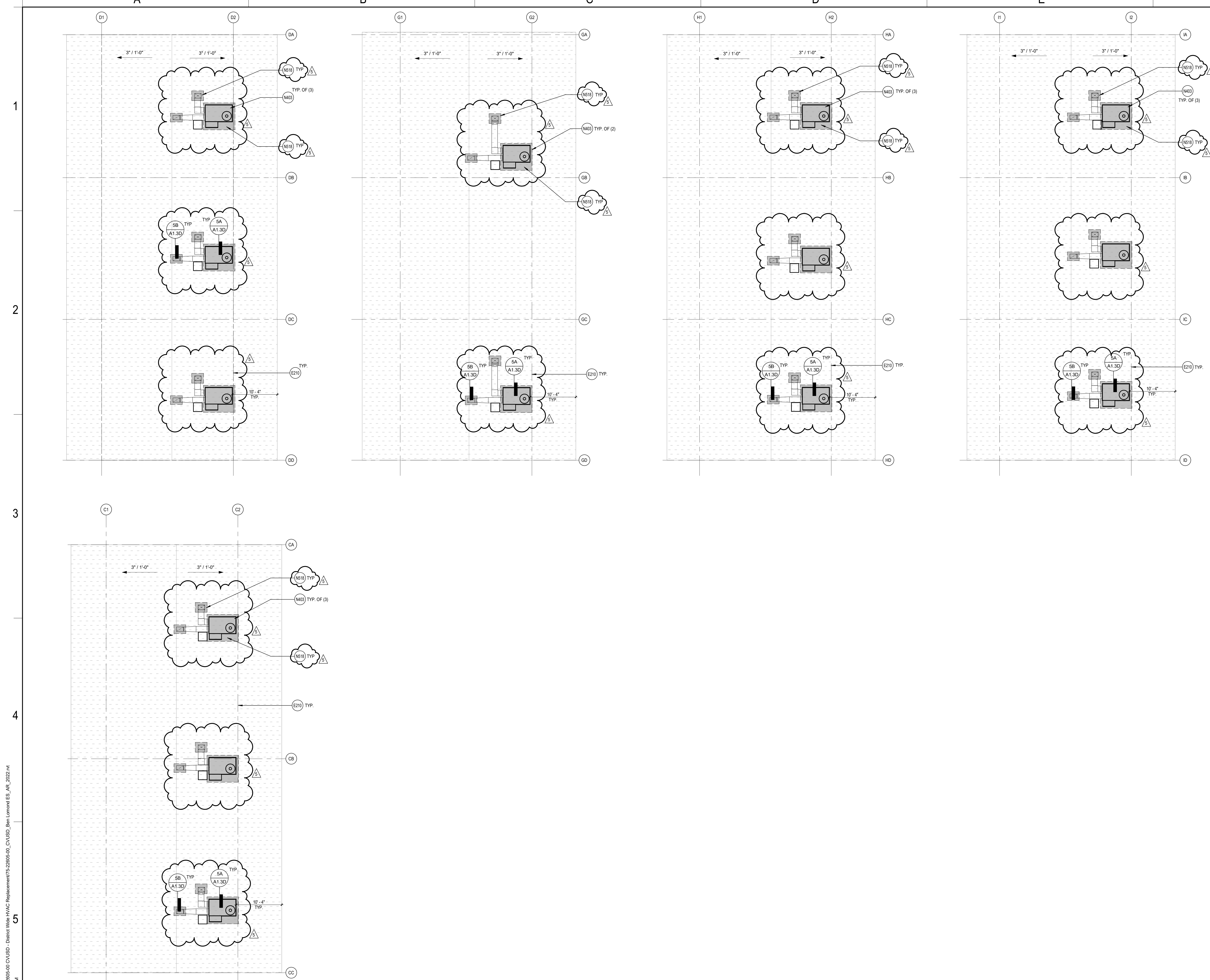
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75-22605
DSA A#03-122228
DSA File #: 19-25
BUILDINGS B
ROOF PLAN

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REFERENCE KEYNOTES

KEYNOTES

E210 LINE OF (E) BLDG BELOW SHOWN DASHED
 N403 (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURBS. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
 N518 (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.N.O.. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
 B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
 C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

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- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
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- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

BUILDINGS C, D, G, H AND I ROOF PLANS
 SCALE: 1/8" = 1'-0"



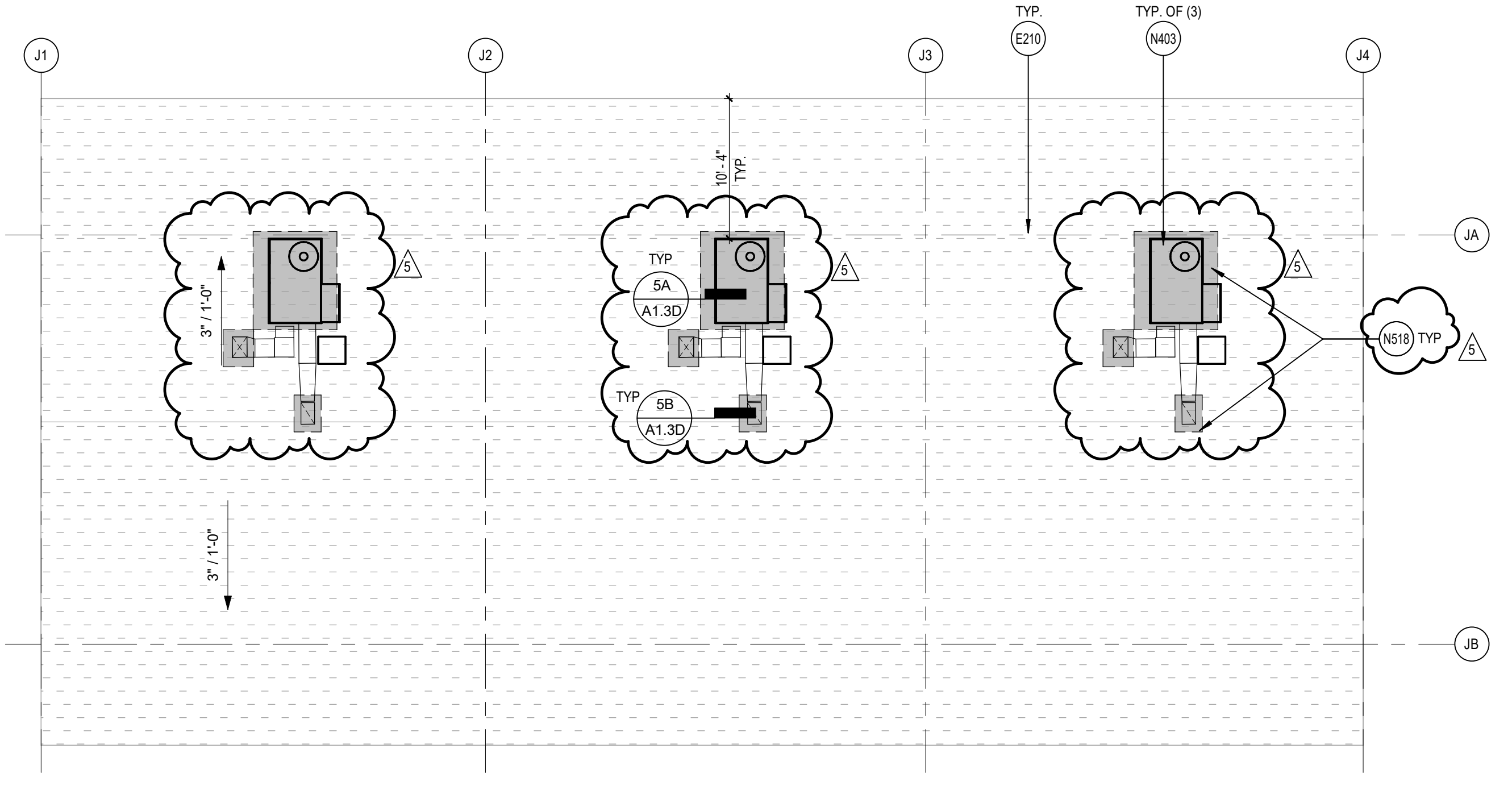
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**BUILDINGS CDGH
 AND I ROOF
 PLANS**

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REFERENCE KEYNOTES

- KEYNOTES**
- (E) LINE OF (E) BLDG BELOW SHOWN DASHED
 - (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
 - (N) ROOF PATCHING IN AREA OF WORK

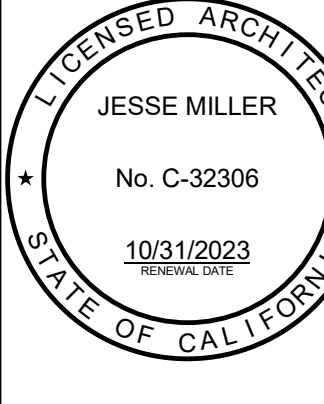
ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
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 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS AS REQUIRED TO EXCLUDE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
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 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTORS.
 - P. NOT USED
 - Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

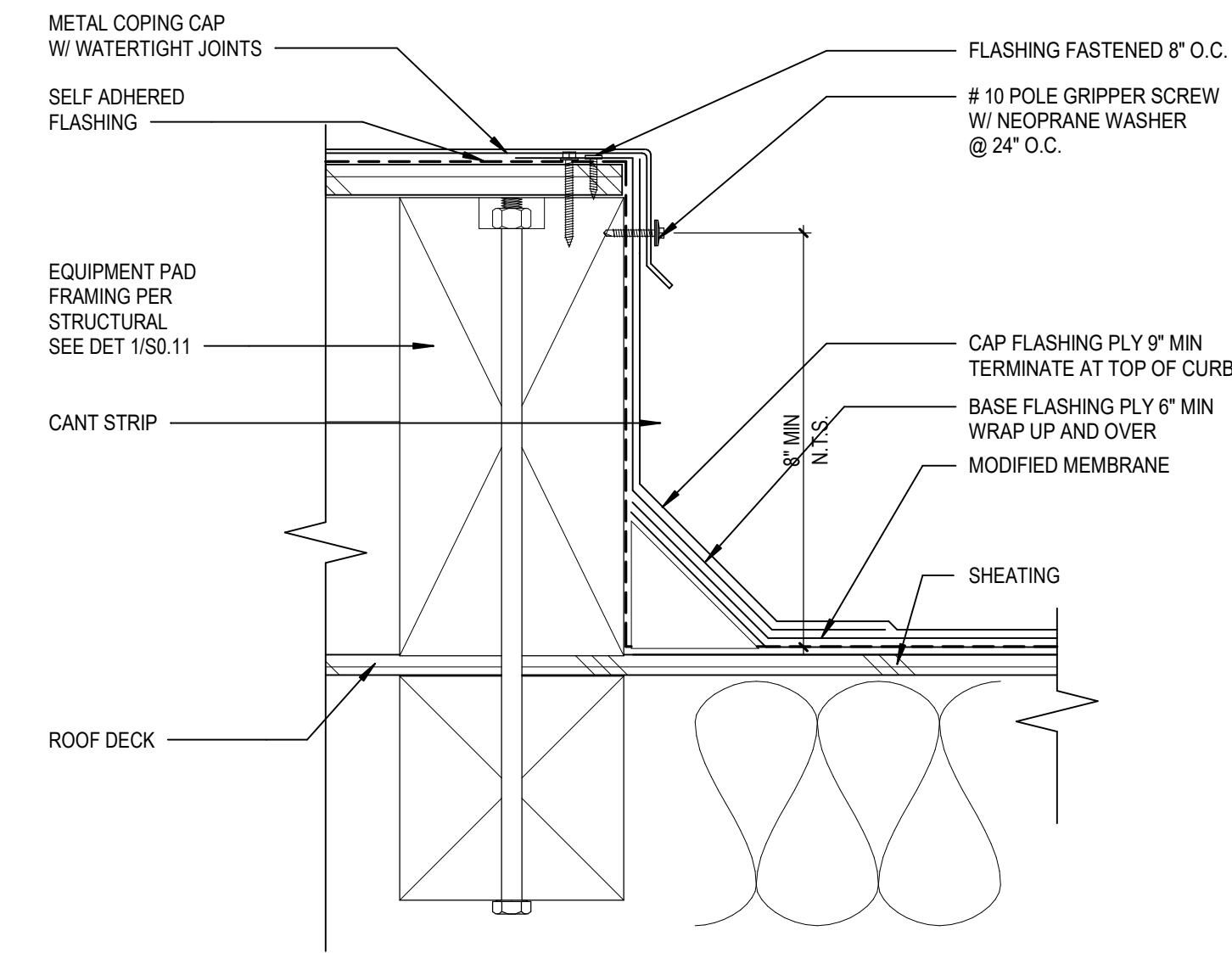


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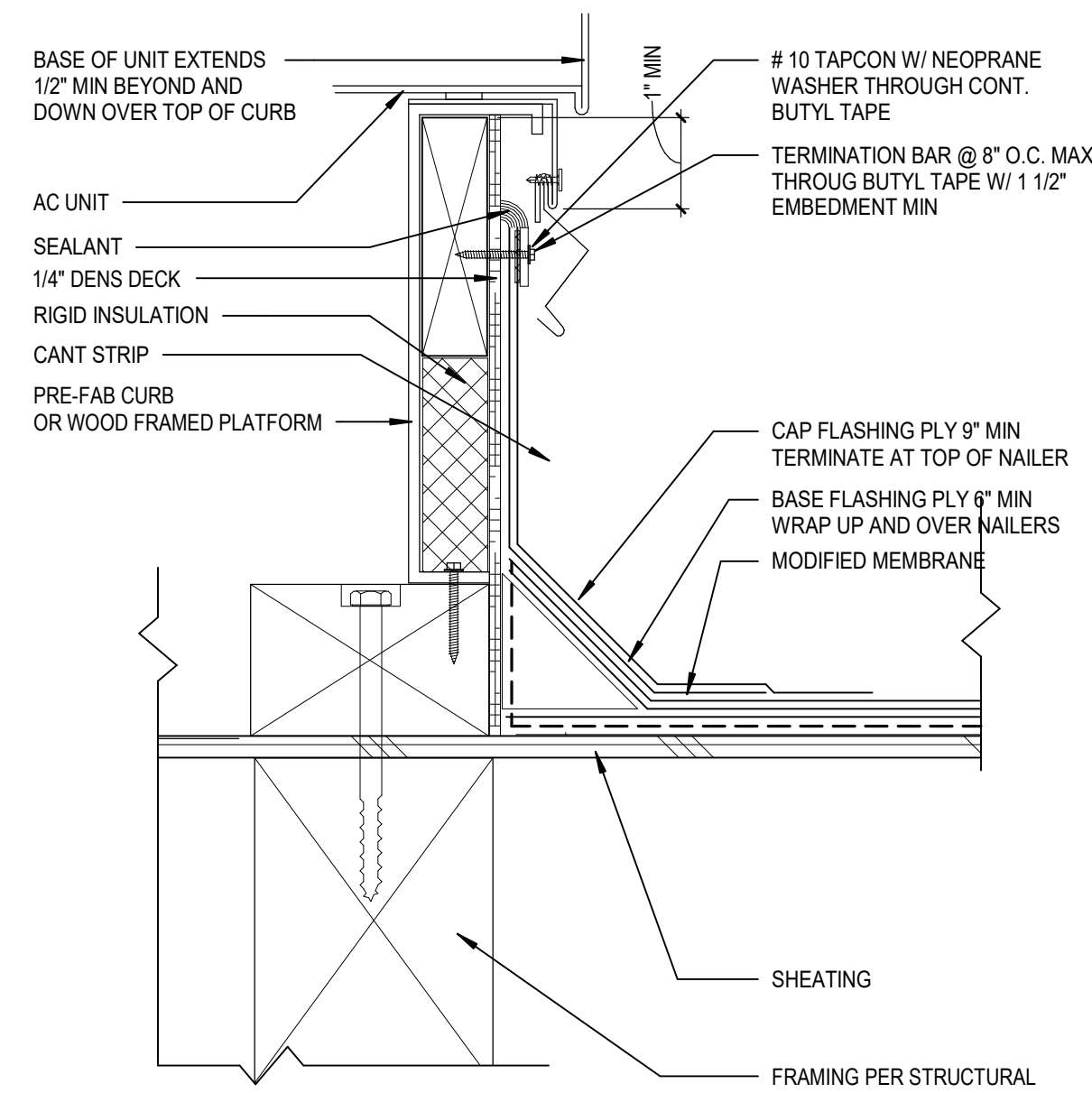
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BUILDINGS J AND Q ROOF PLANS

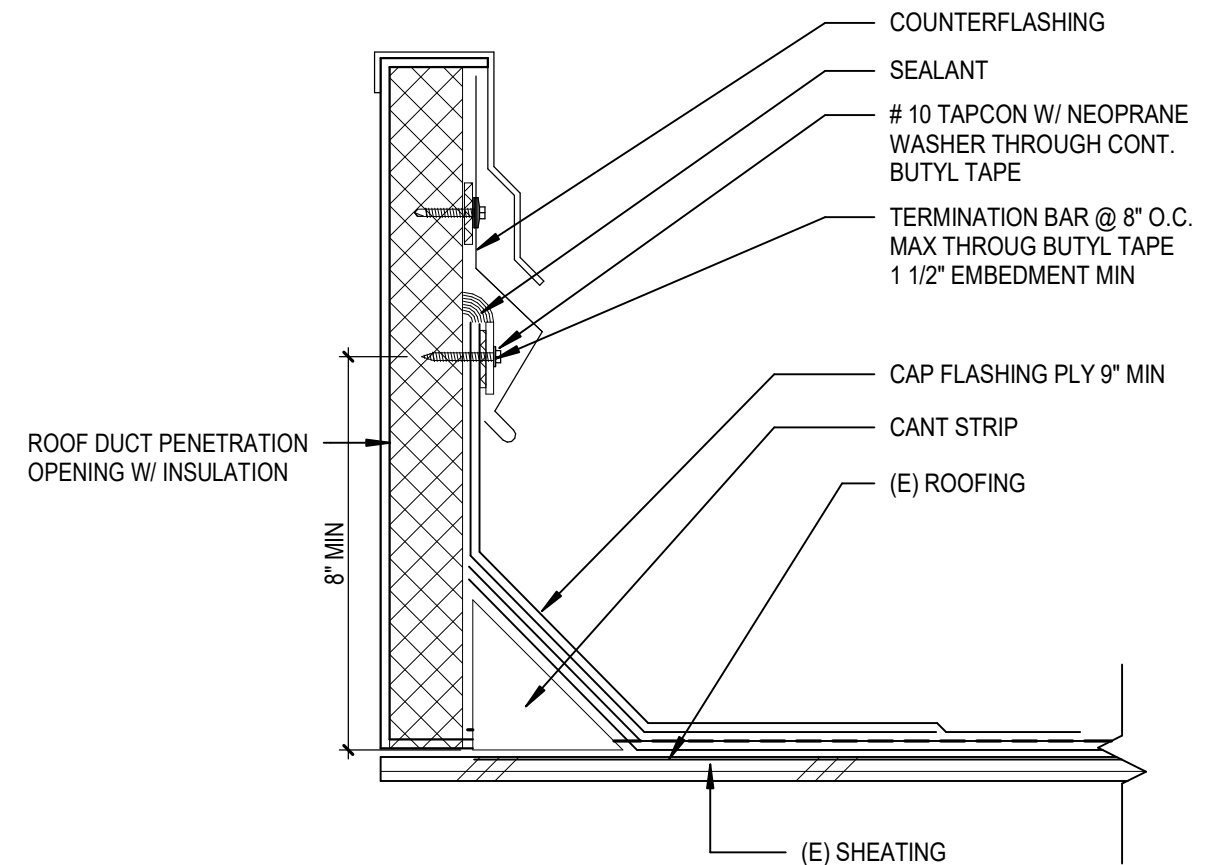
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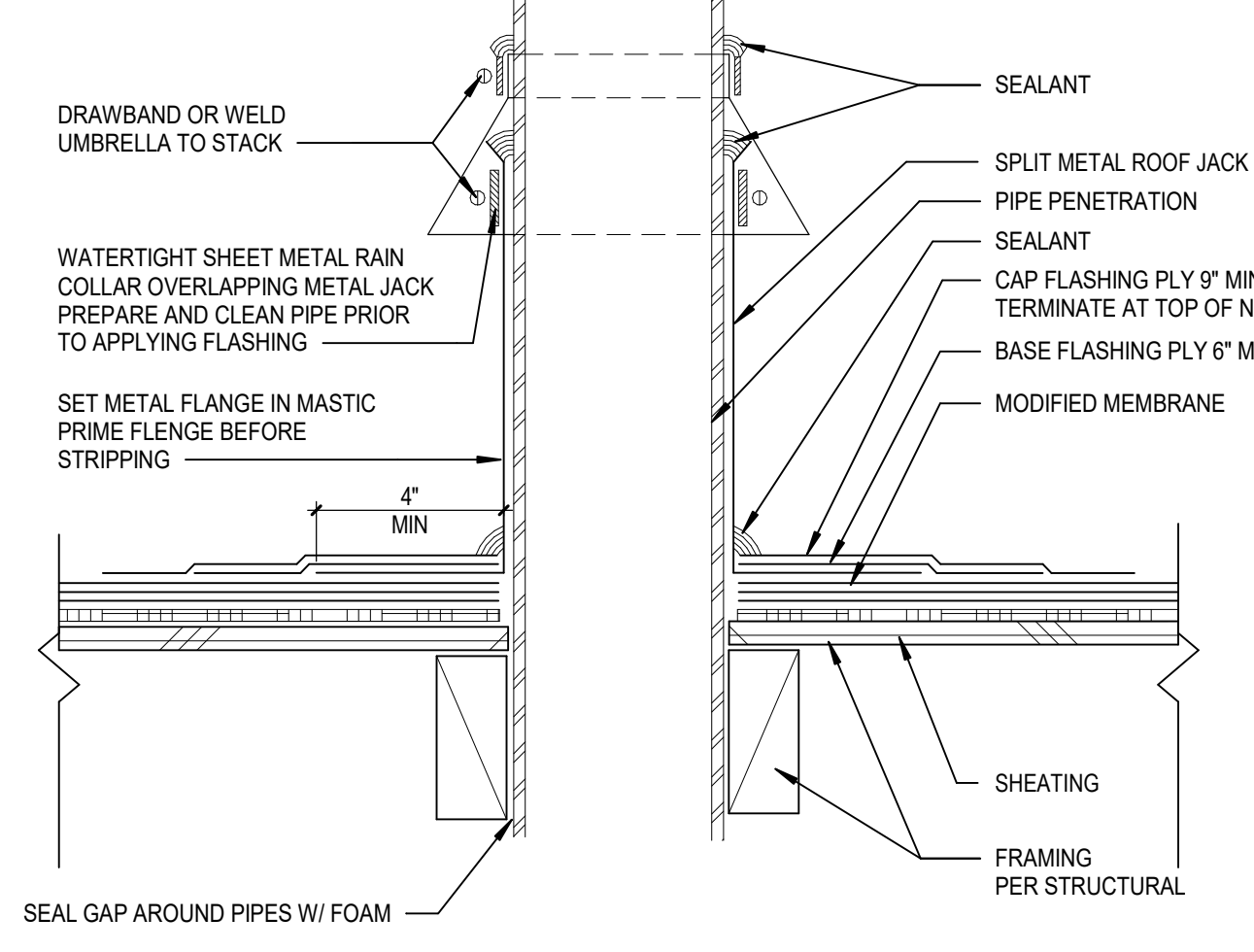
MOD BITUM - EQUIPMENT PAD
SCALE: 3" = 1'-0"



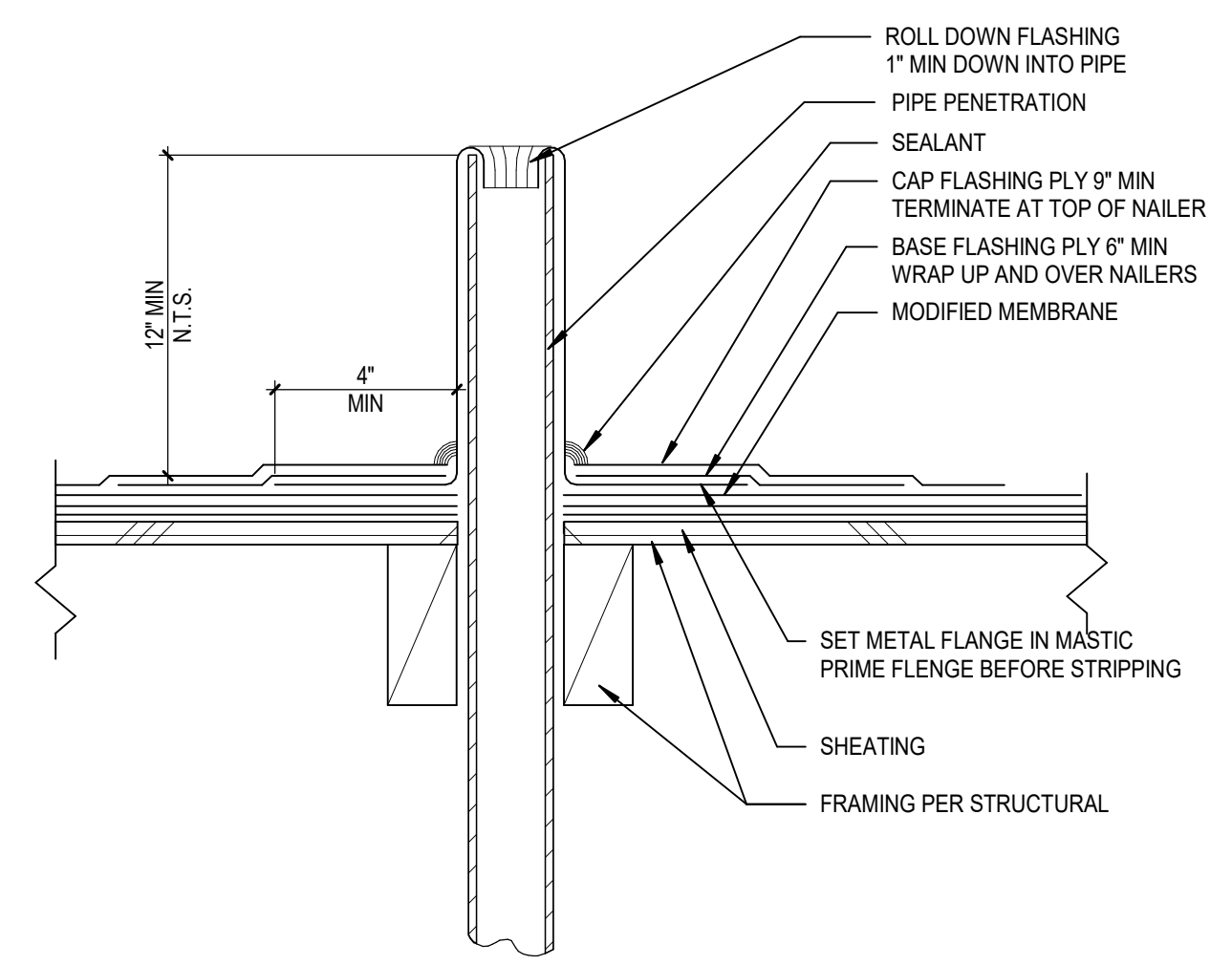
MOD BITUM - ACU CURB FLASHING
SCALE: 3" = 1'-0"



TYPICAL MECHANICAL DUCT PENETRATION FLASHING
SCALE: 3" = 1'-0"



MOD BITUM - PIPE PENETRATION FLASHING
SCALE: 3" = 1'-0"



MOD BITUM - VENT PIPE FLASHING
SCALE: 3" = 1'-0"

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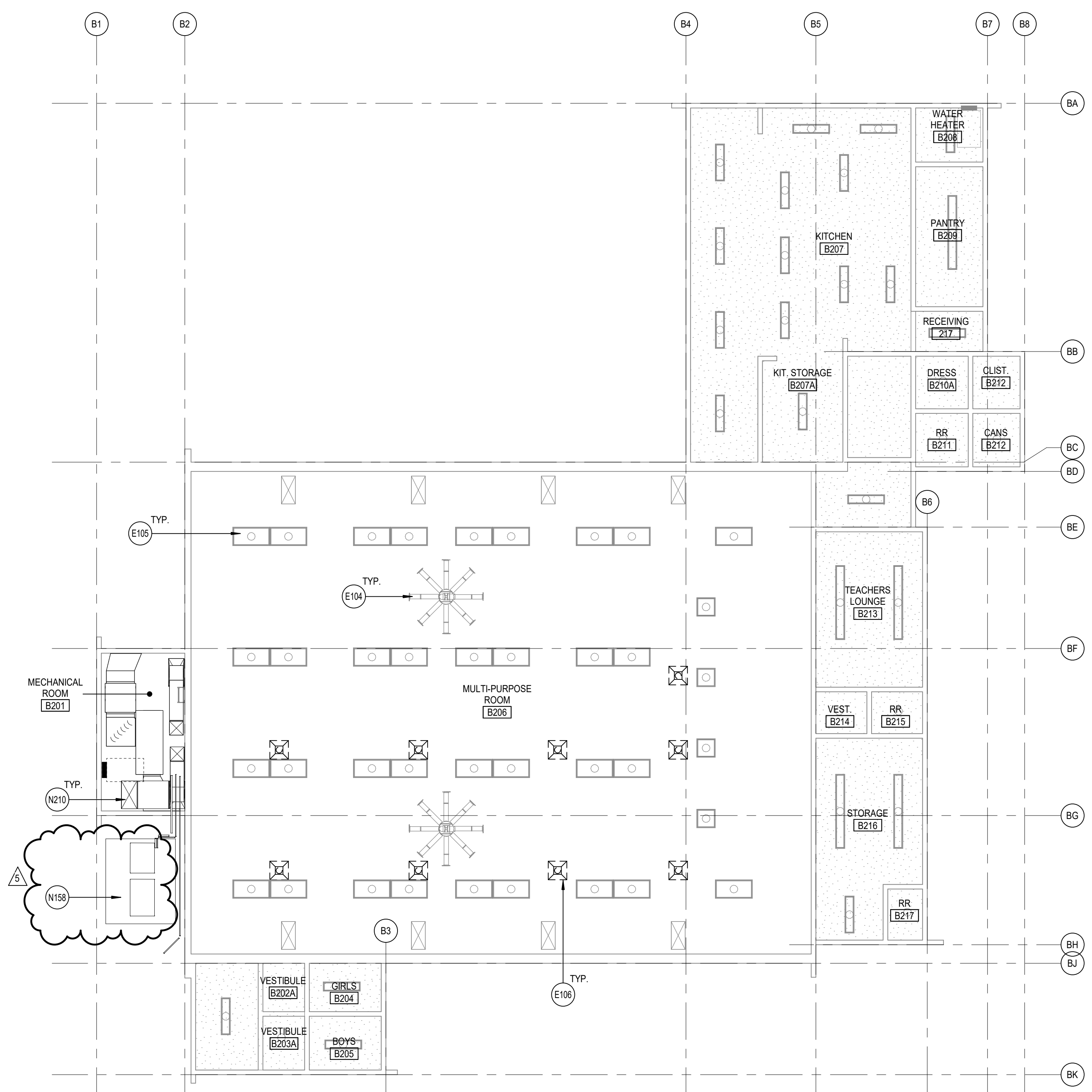
KEYNOTES	KEYNOTES
E104	(E) CEILING FAN TO REMAIN, PROTECT IN PLACE
E105	(E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE
E106	(E) DIFFUSERS AND GRILLES, REFER TO MECHANICAL DRAWINGS
N159	NEW MECHANICAL EQUIPMENT ON NEW 6" THK. TOP LEVEL CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.
N210	REPLACE (E) DUCTWORK, REFER TO MECHANICAL DRAWINGS

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

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 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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BUILDINGS A AND B REFLECTED CEILING PLANS
 SCALE: 1/8" = 1'-0"



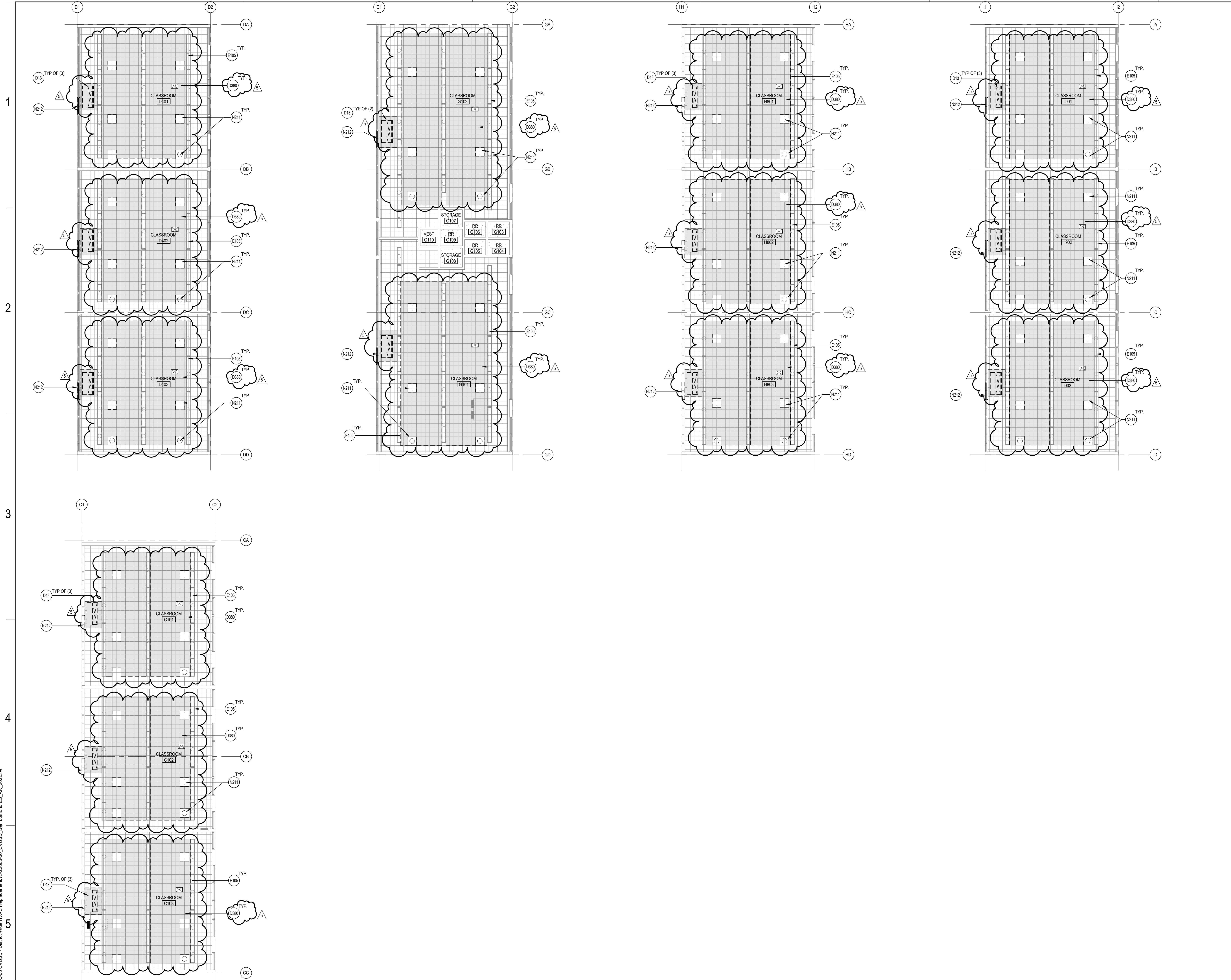
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BUILDINGS B
REFLECTED
CEILING PLANS

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REFERENCE KEYNOTES

KEYNOTES

D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS

N212 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING

E105 (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE

N211 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS

D380 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS

B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE

C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM

D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT

E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS

F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:

- FACE OF FINISHED WALL
- FACE OF FINISHED BULKHEADS
- CENTERLINE OF COLUMNS
- CENTERLINE OF TEES

G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

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AREA C - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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REFERENCE KEYNOTES

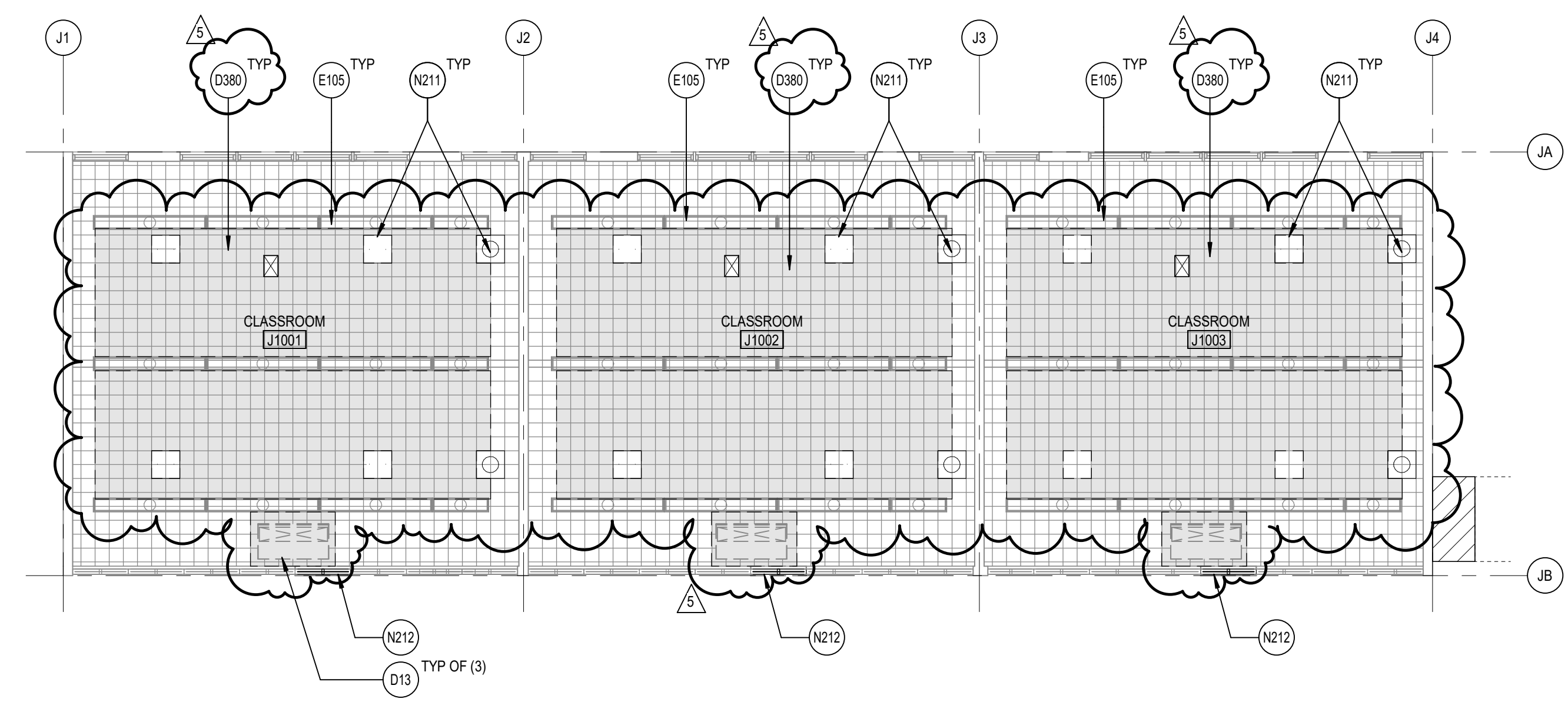
KEYNOTES
D115 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
E105 (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE
N211 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS
N212 REPLACE (E) INFILL PANELS AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER/FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



BUILDINGS J AND Q REFLECTED CEILING PLANS
SCALE: 1/8" = 1'-0"



BEN LOMOND ELEM. SCHOOL
COVID-19 COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
681 E. COVINA BLVD COVINA, CA 91722

100% CONSTRUCTION DOCUMENT
05/05/2022
REVISIONS
5 1/13/2023

75-22605
DSA A#03-122228
DSA File #: 19-25
BUILDINGS J AND Q REFLECTED CEILING PLANS

A3.1D

1
2
3
4
5

A

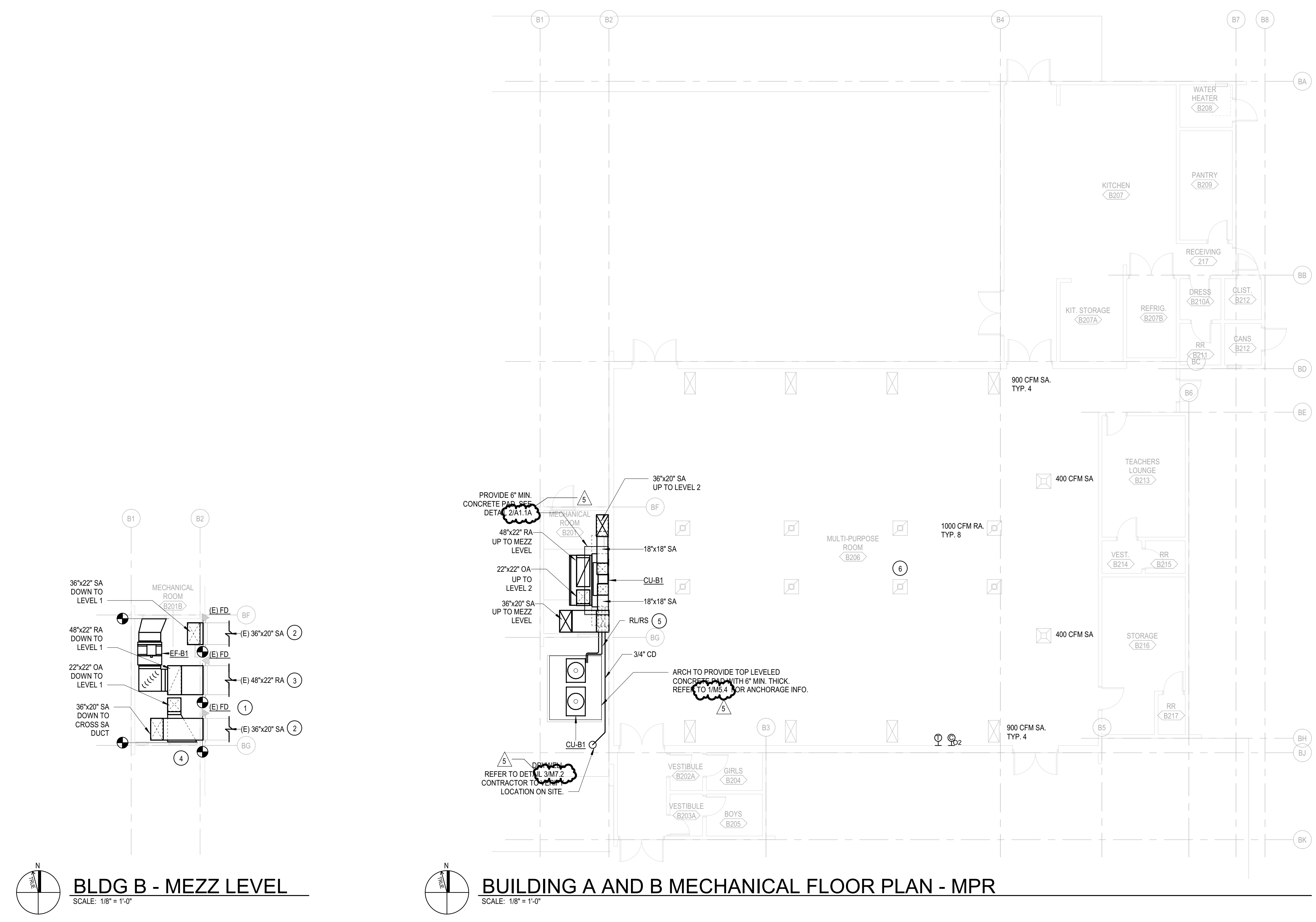
B

C

D

E

F



BLDG B - MEZZ LEVEL
SCALE: 1/8" = 1'-0"

BUILDING A AND B MECHANICAL FLOOR PLAN - MPR
SCALE: 1/8" = 1'-0"

DEMO NOTES - MPR ONLY

- A. REMOVE EXHAUST FAN, FURNACE AND RELATED DUCT, WIRING, MOTOR, SUPPORTS AND OTHER APPURTENANCES TO POC IN MECHANICAL ROOM. REMOVE GAS PIPING IN MECHANICAL ROOM AND CAP AT FLOOR.

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2. EXISTING DUCTWORK IN MPR TO REMAIN.
3. PROVIDE 1" LINEAR TO NEW SA & RA DUCT IN MECHANICAL ROOM.
4. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

1. (E) FIRE DAMPER TO REMAIN. TYP.
2. (E) SA DUCTWORK TO REMAIN.
3. (E) RA DUCTWORK TO REMAIN.
4. (E) OSA LOUVER & DAMPER TO REMAIN TO BE READY TO CONNECT TO DUCTWORK. CONTRACTOR TO VERIFY DAMPER CONDITION ON SITE PRIOR TO BID.
5. RLRS PENETRATE WALL ABOVE GRADE. CONTRACTOR TO VERIFY LOCATION ON SITE. PROVIDE PHP PIPE SUPPORT.
6. (E) DIFFUSERS & GRILLES. CONTRACTOR TO VERIFY LOCATIONS ON SITE.



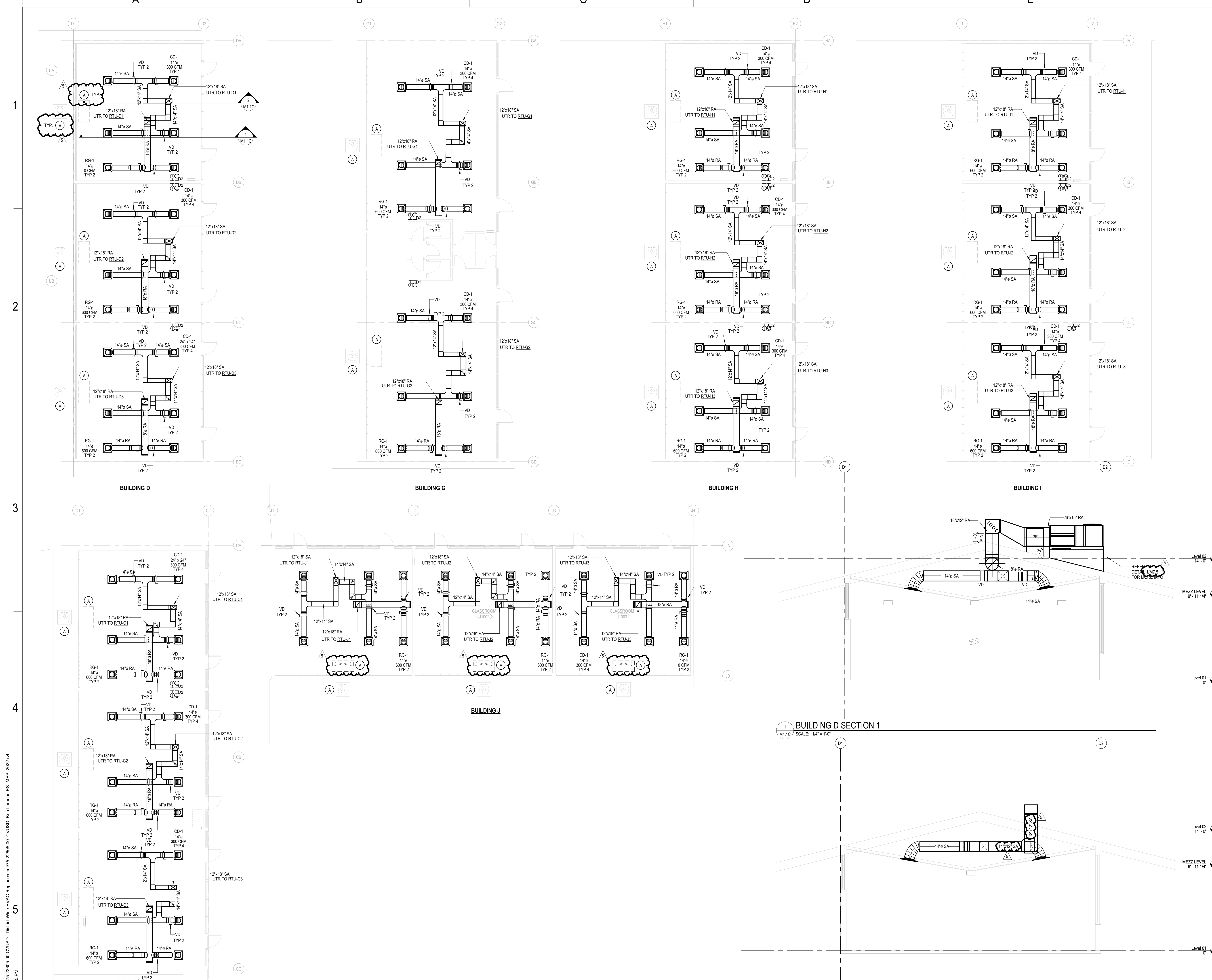
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**BUILDING A AND B
- MECHANICAL
FLOOR PLAN**

M1.1A



DEMO NOTES

- A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. TYP.

GENERAL NOTES

- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



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BUILDINGS C, D,
 G, H, I AND J
 MECHANICAL
 FLOOR PLANS

M1.1C

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BUILDINGS C, D, G, H, I AND J MECHANICAL FLOOR PLANS
 SCALE: 1/8" = 1'-0"

BUILDING D SECTION 2
 M1.1C SCALE: 1/4" = 1'-0"

BUILDING D SECTION 1
 M1.1C SCALE: 1/4" = 1'-0"

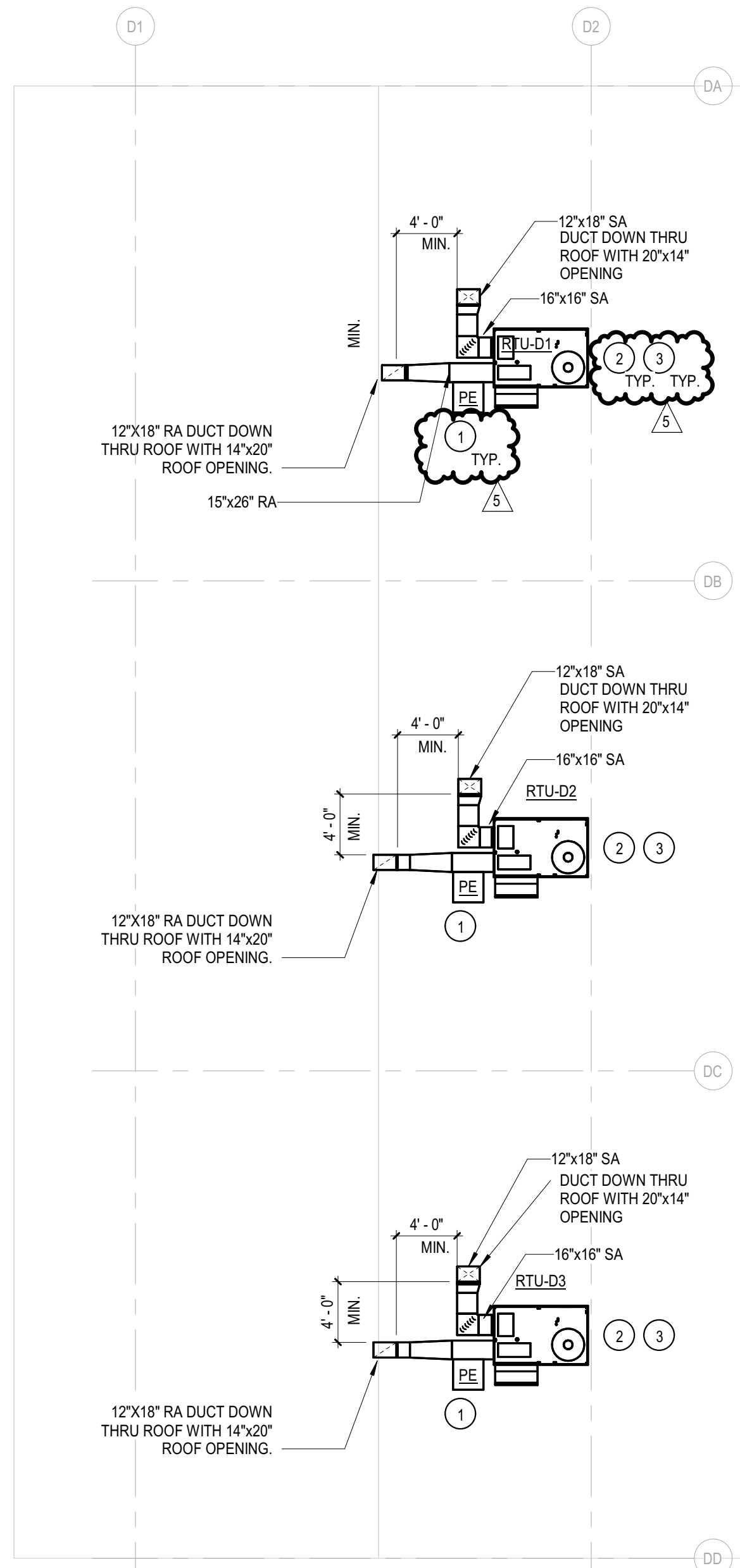
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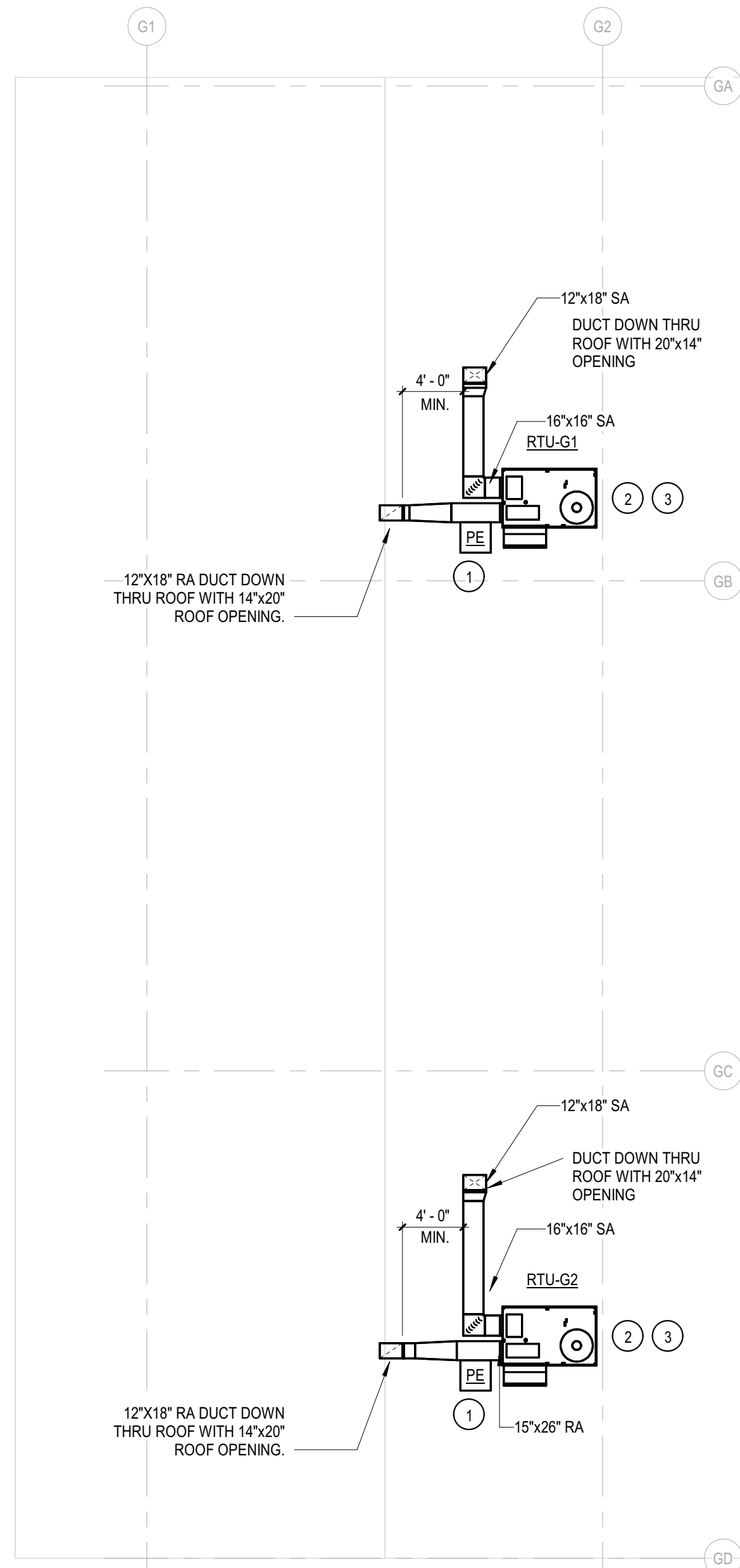
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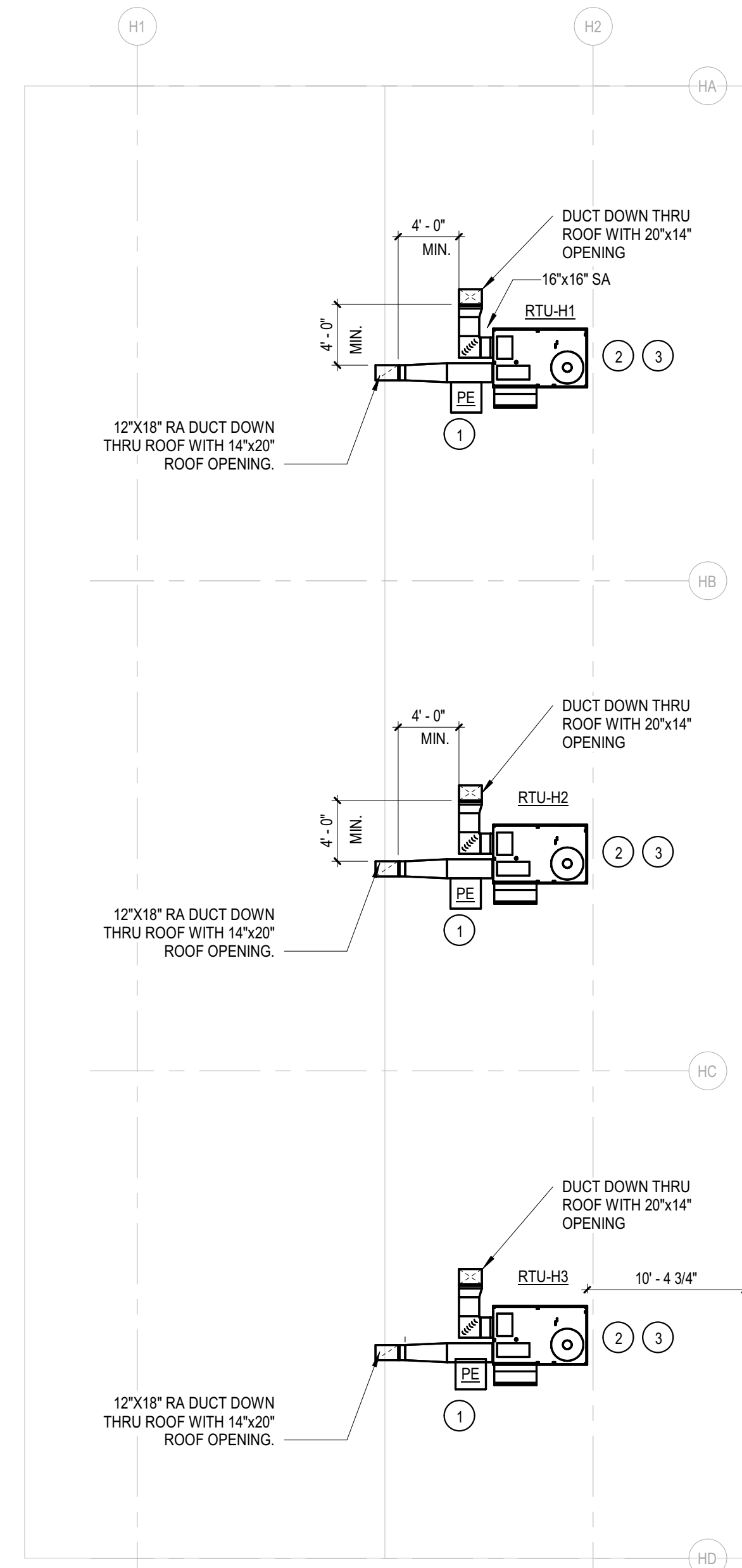
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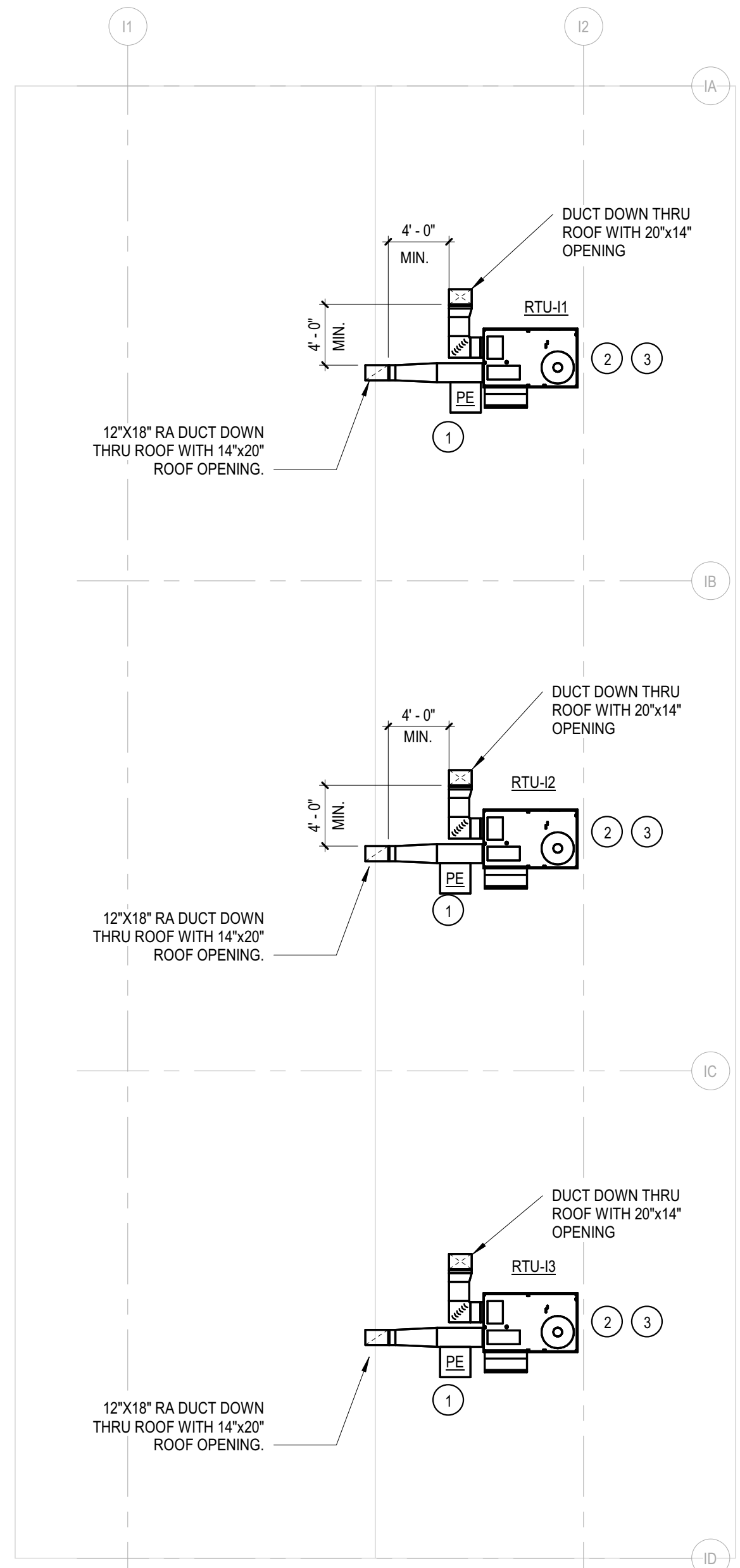
BUILDING D



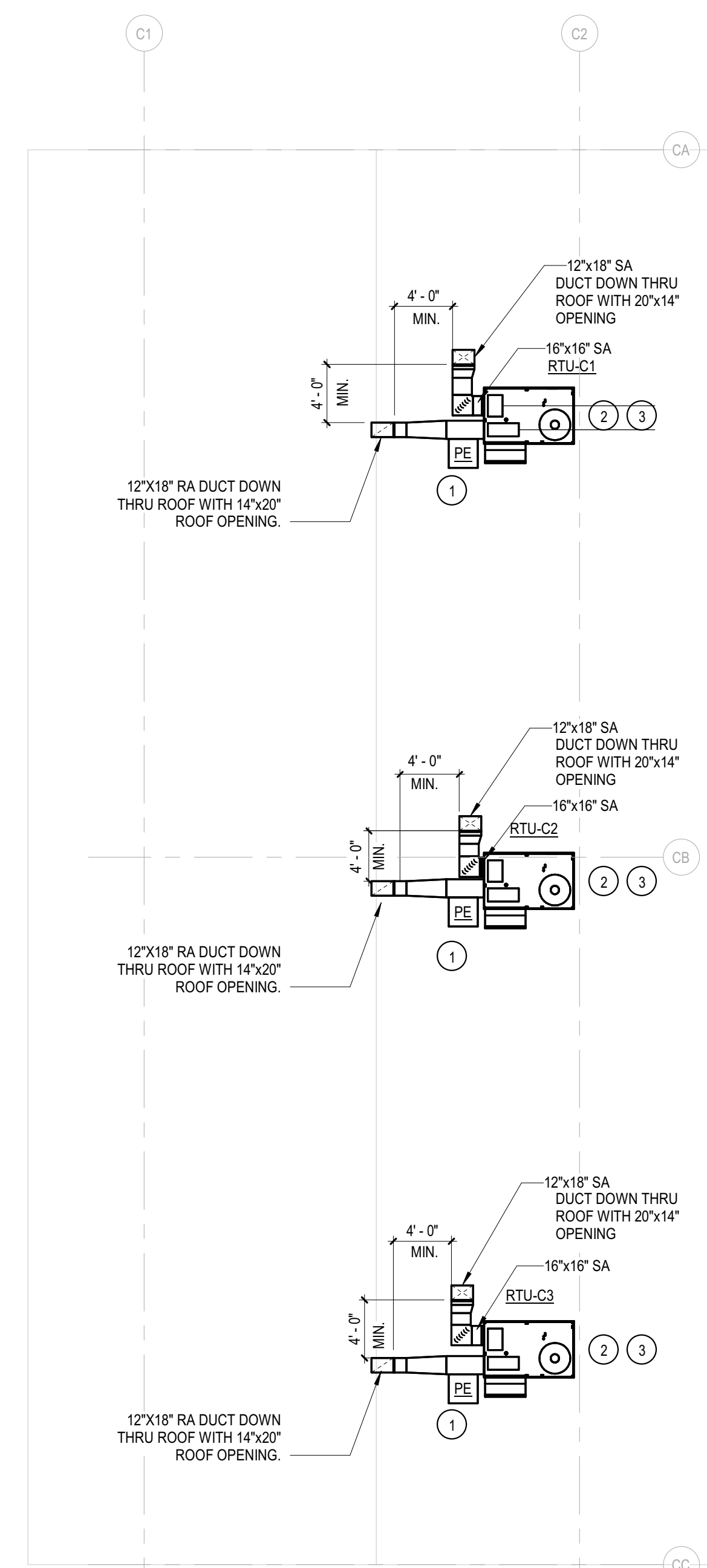
BUILDING G



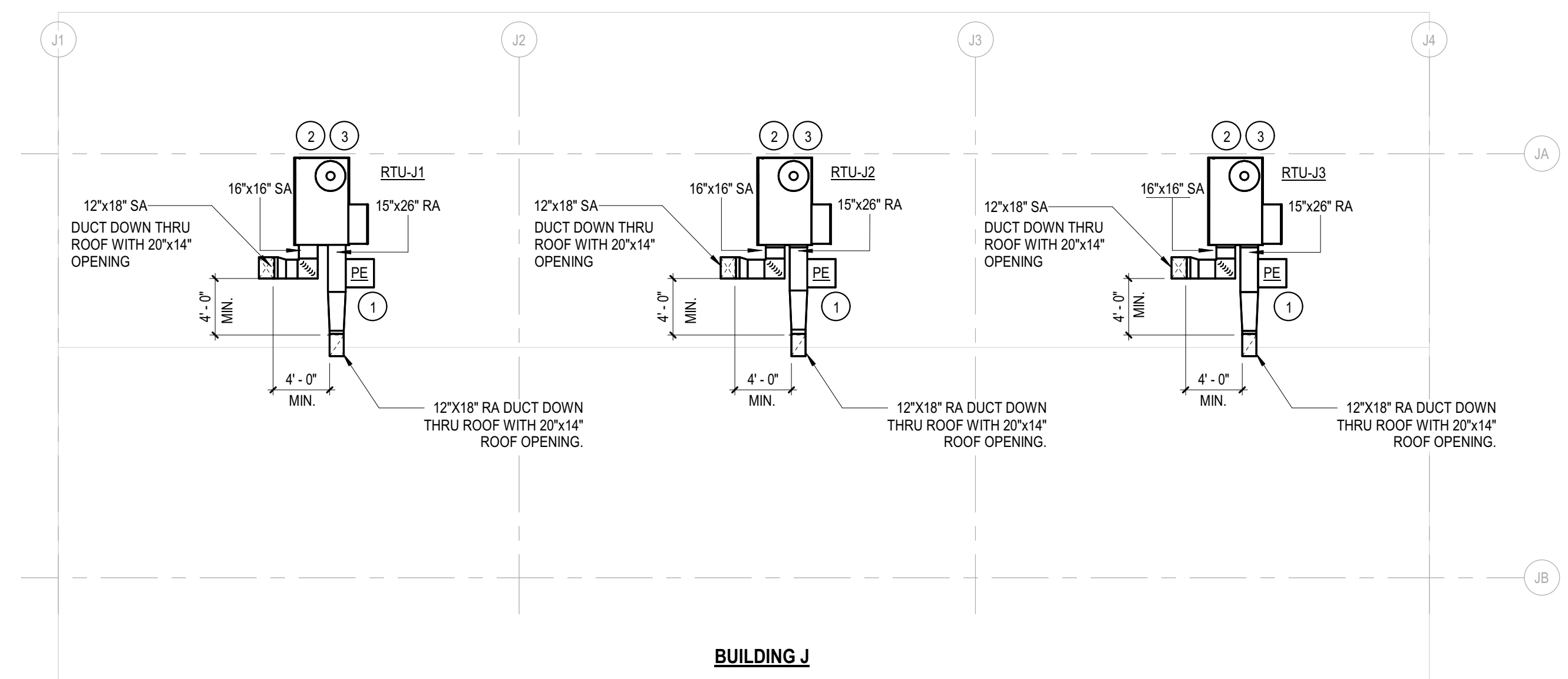
BUILDING H



BUILDING I



BUILDING C



BUILDING J

GENERAL NOTES

- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
- PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU TO BE 16'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.

OVERALL ROOF PLAN
SCALE: 1/8" = 1'-0"

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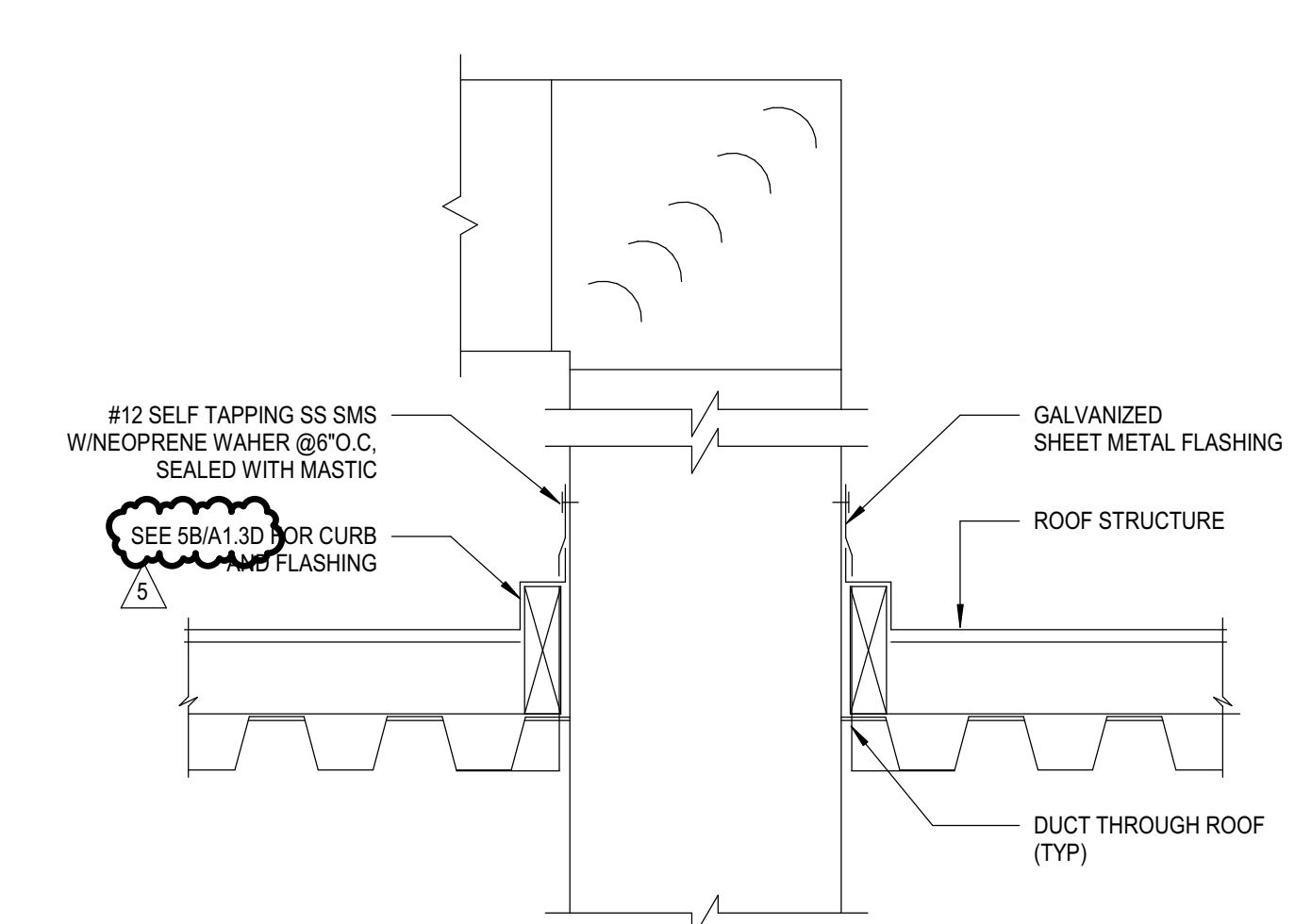
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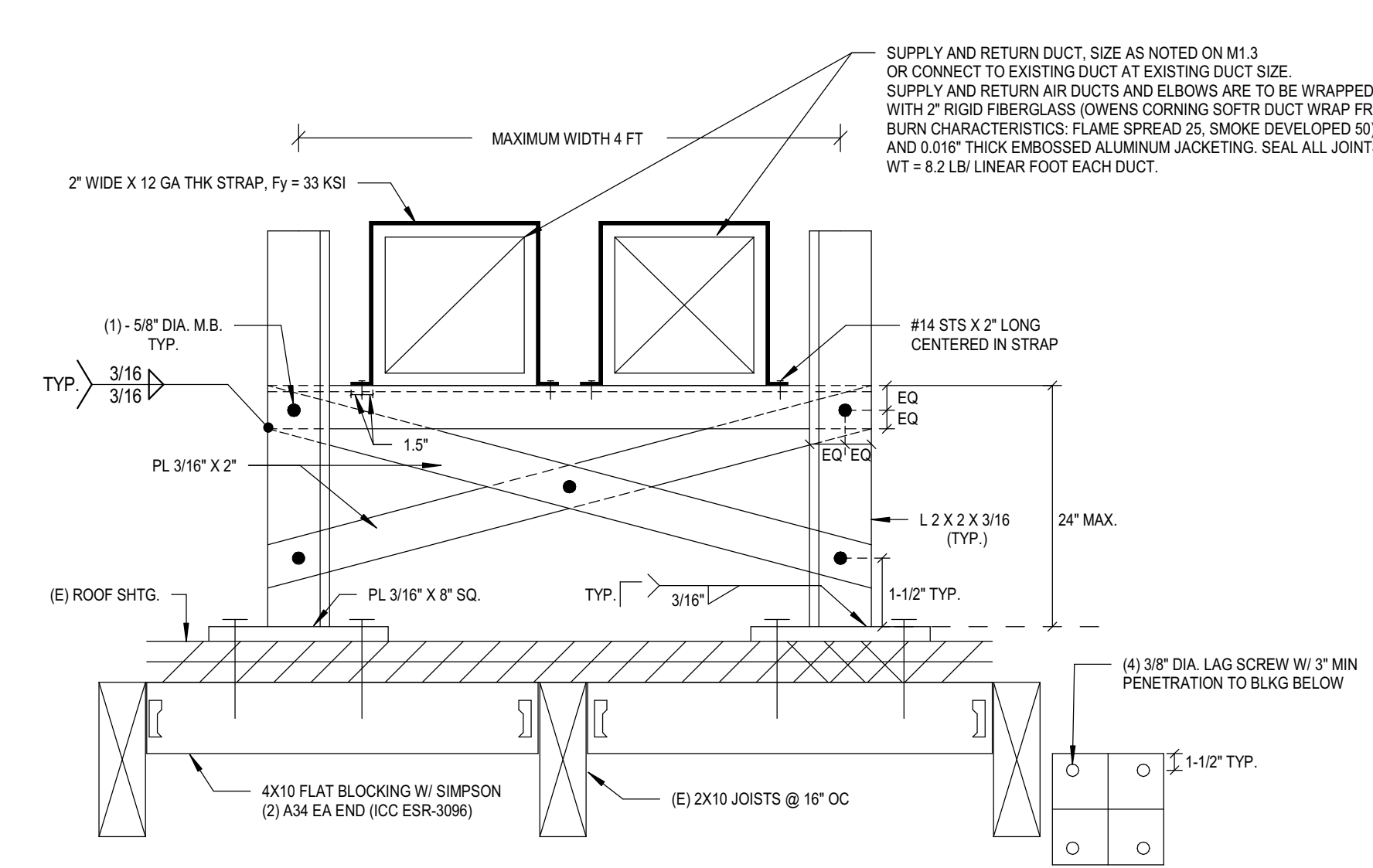
BUILDINGS C, D,
G, H, I AND J
MECHANICAL
ROOF PLANS

M1.3C

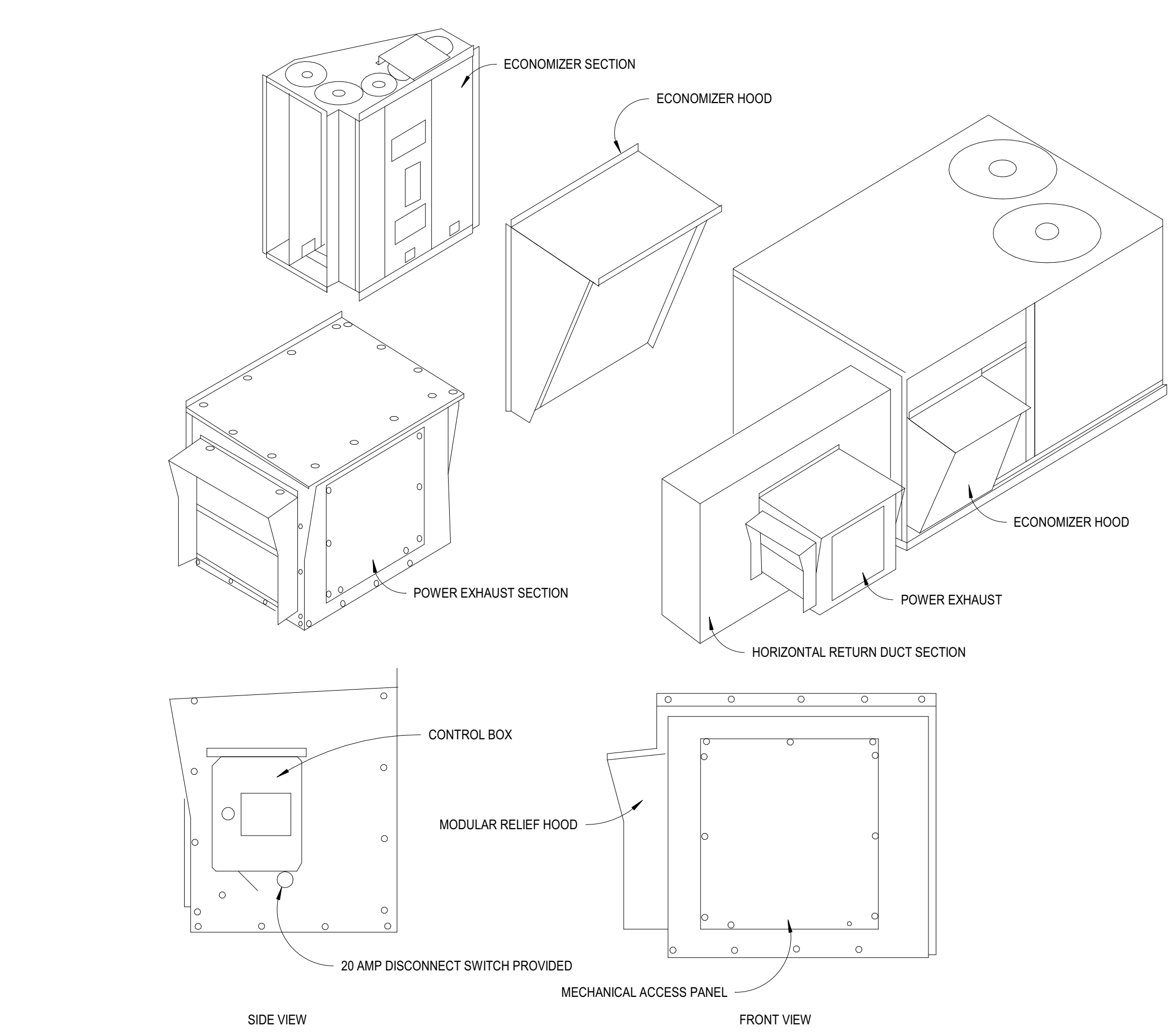
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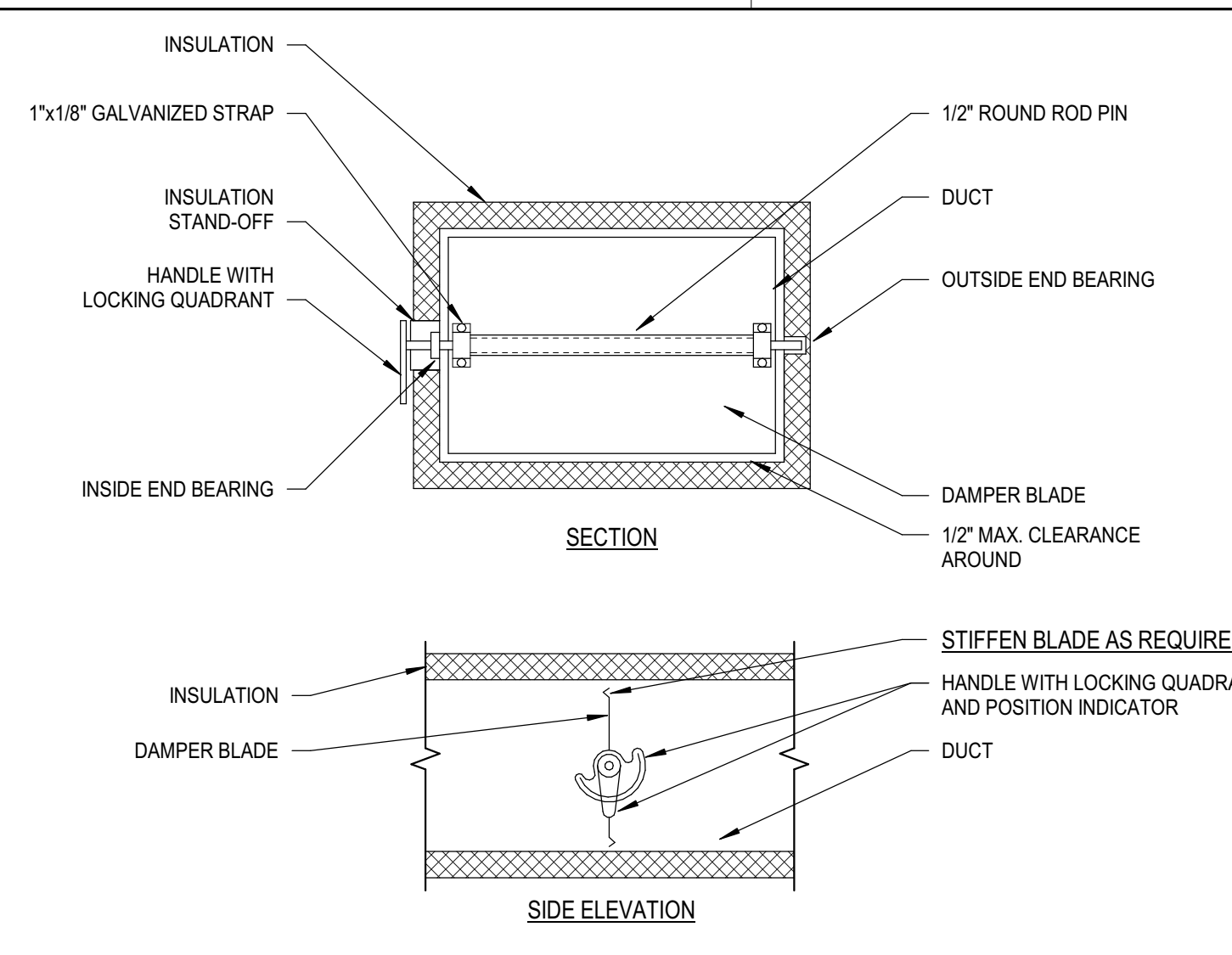
1 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE



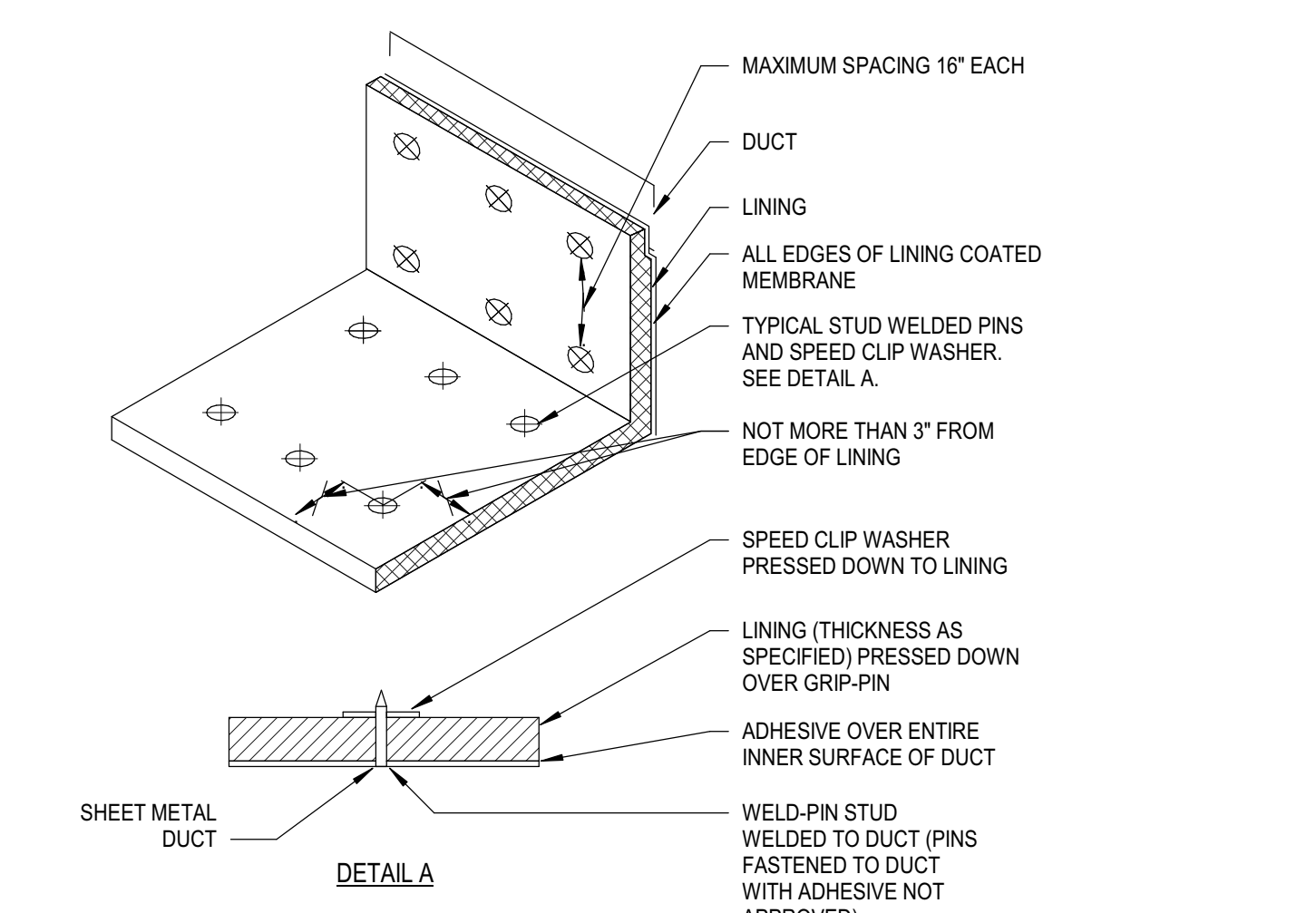
12 DUCT SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



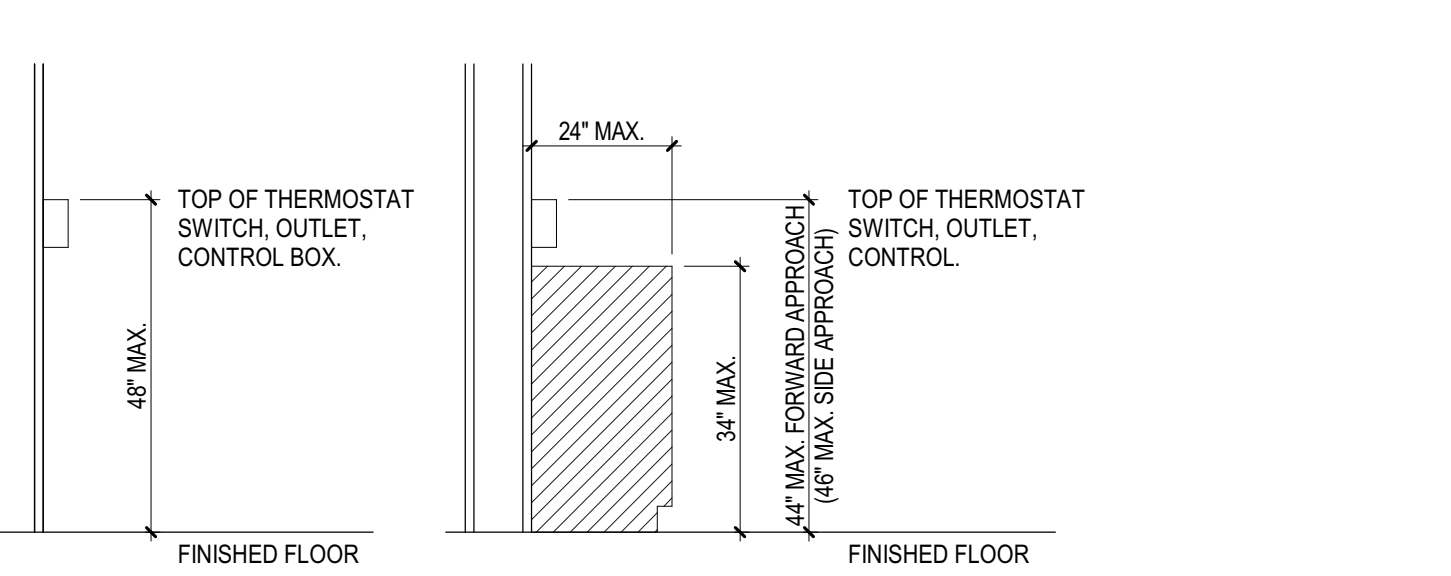
8 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE



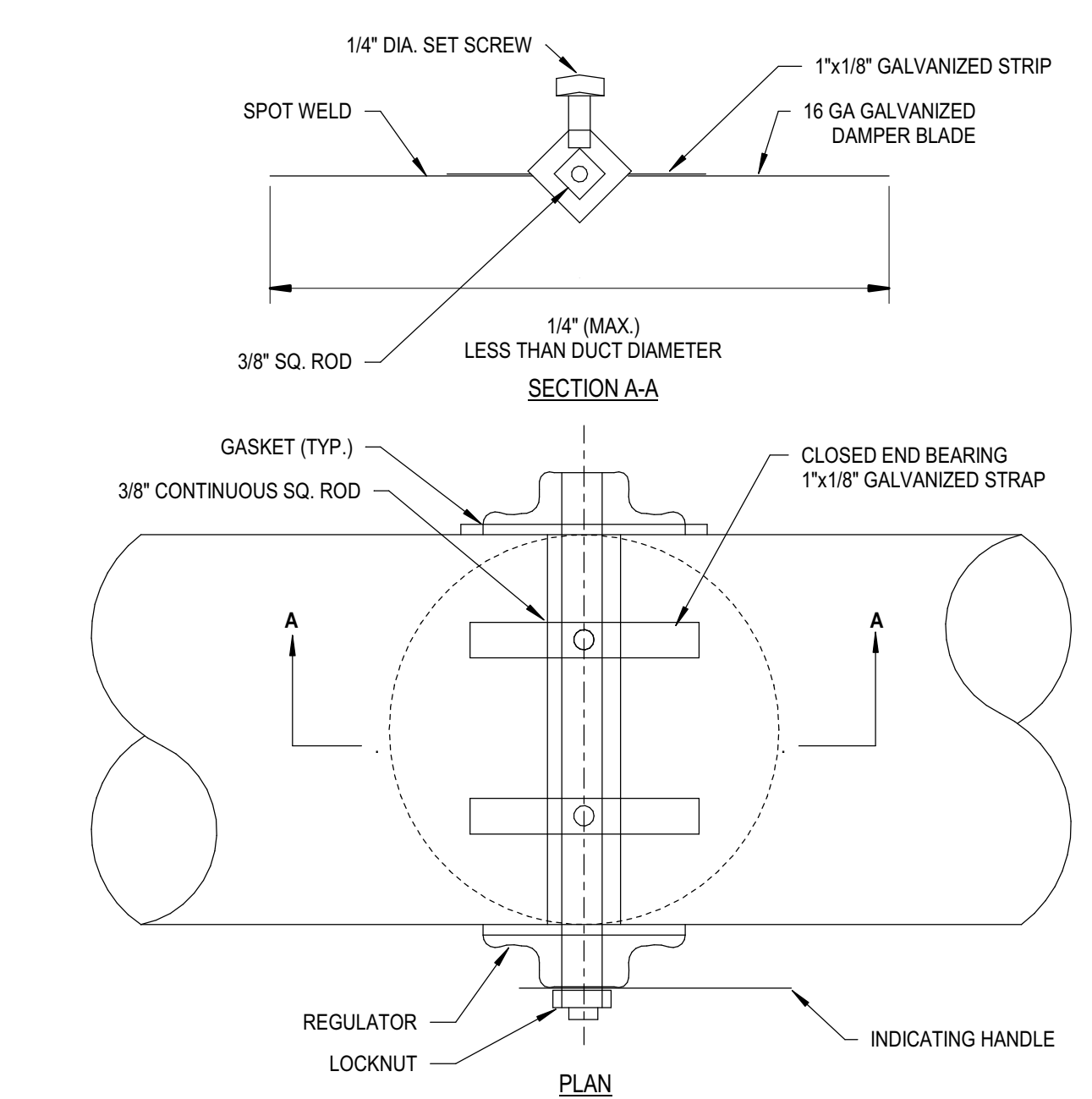
2 RECTANGULAR VOLUME DAMPER DETAIL
M7.1 NO SCALE



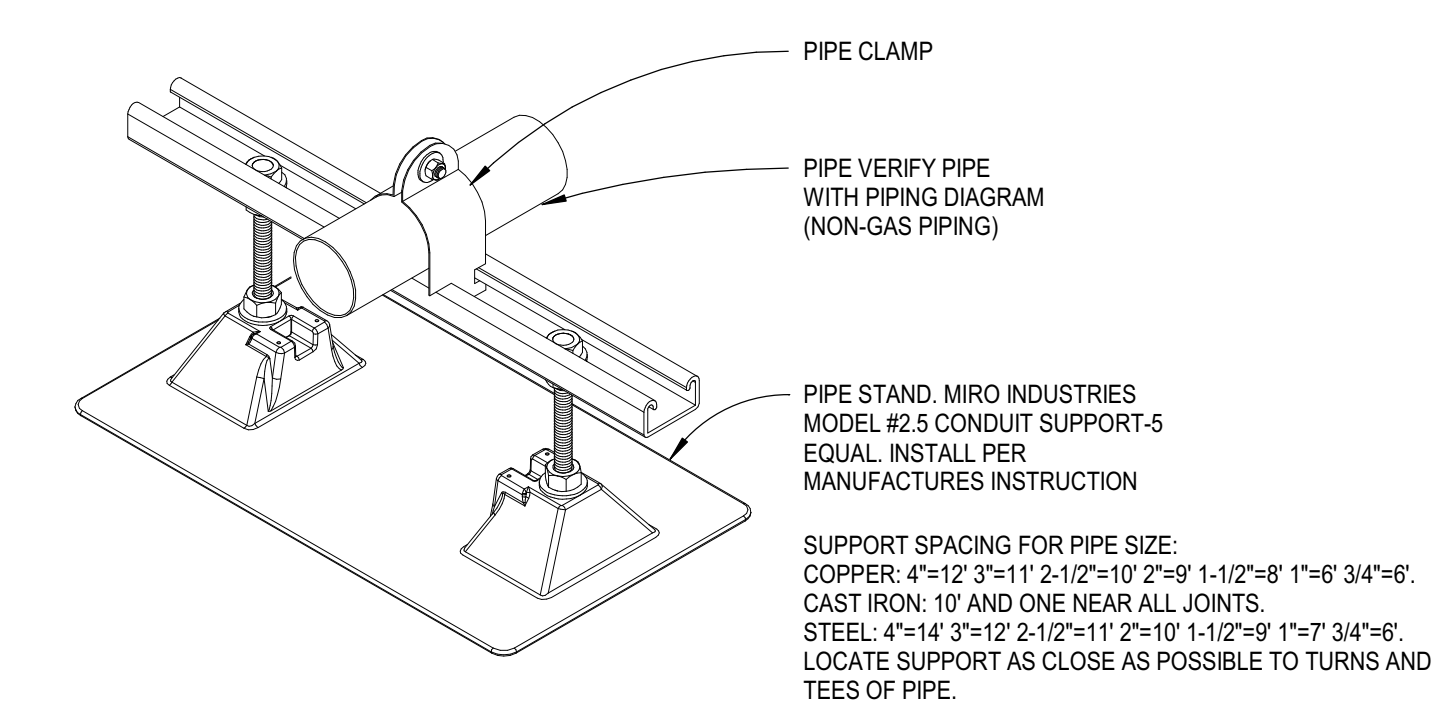
5 ACOUSTICAL DUCT LINING INSTALLATION DETAIL
M7.1 NO SCALE



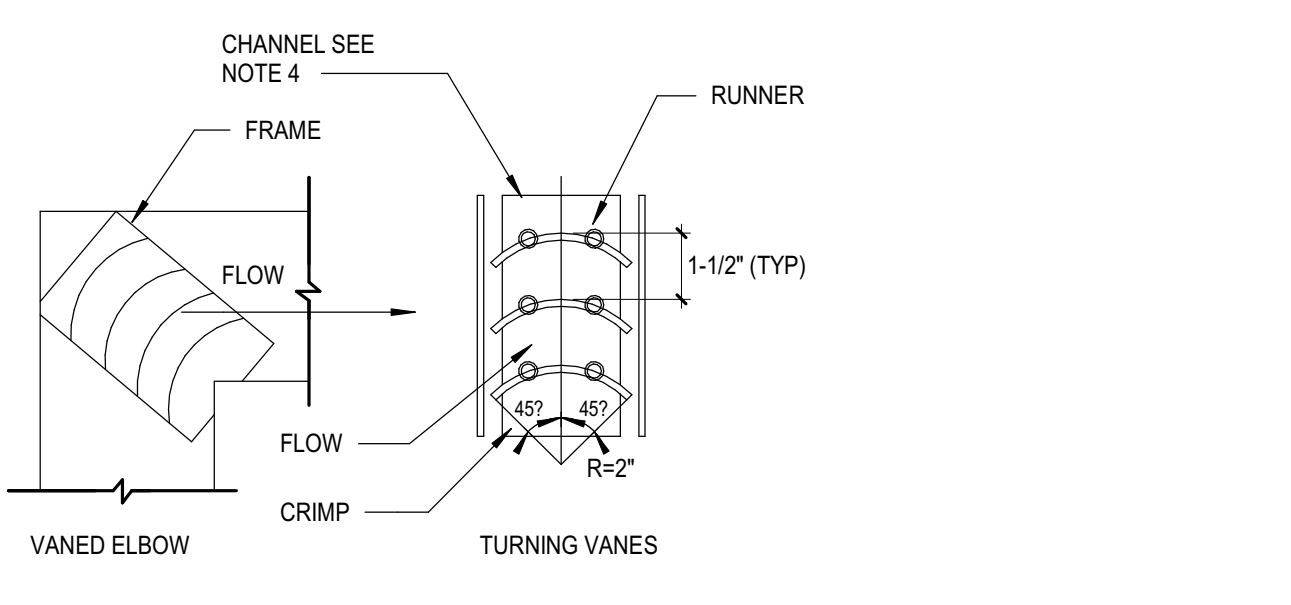
9 THERMOSTAT MOUNTING
M7.1 NO SCALE



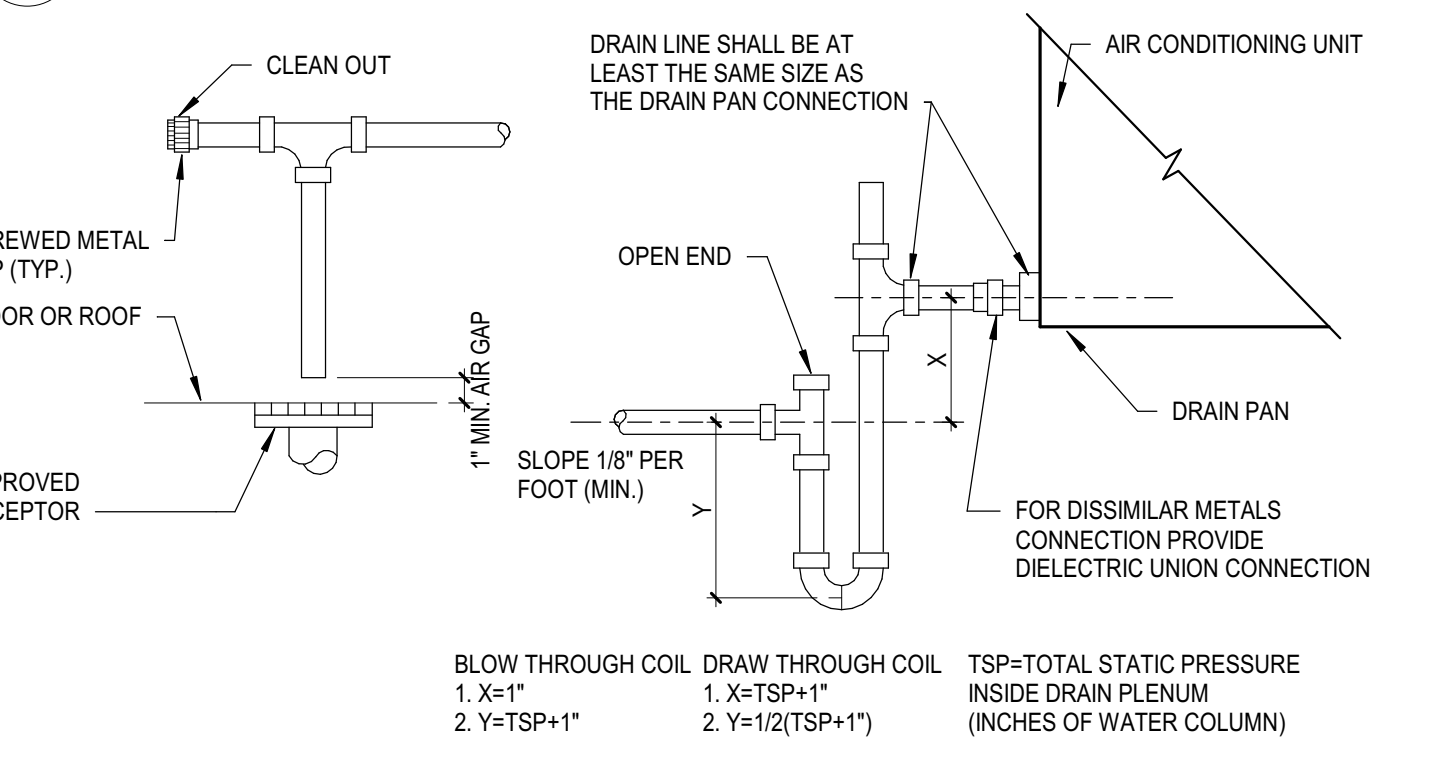
3 ROUND VOLUME DAMPER (UP TO 14")
M7.1 NO SCALE



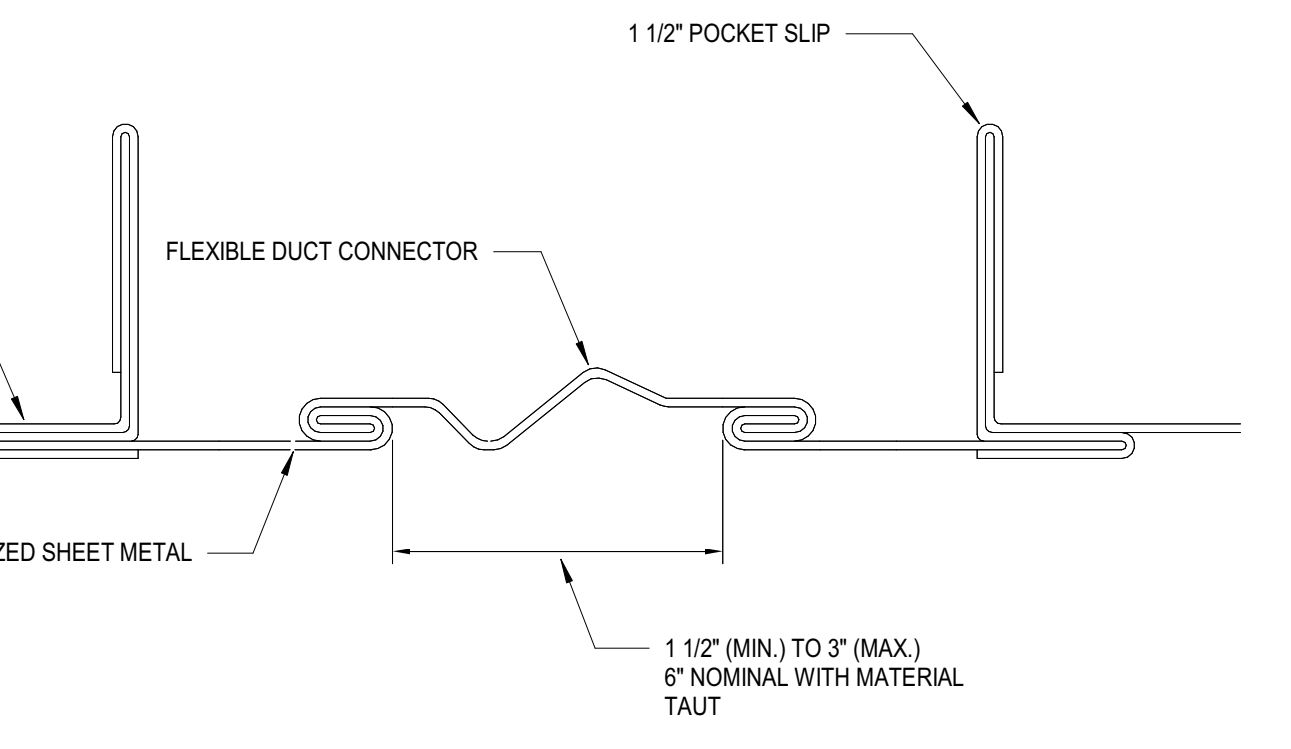
4 PIPE SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



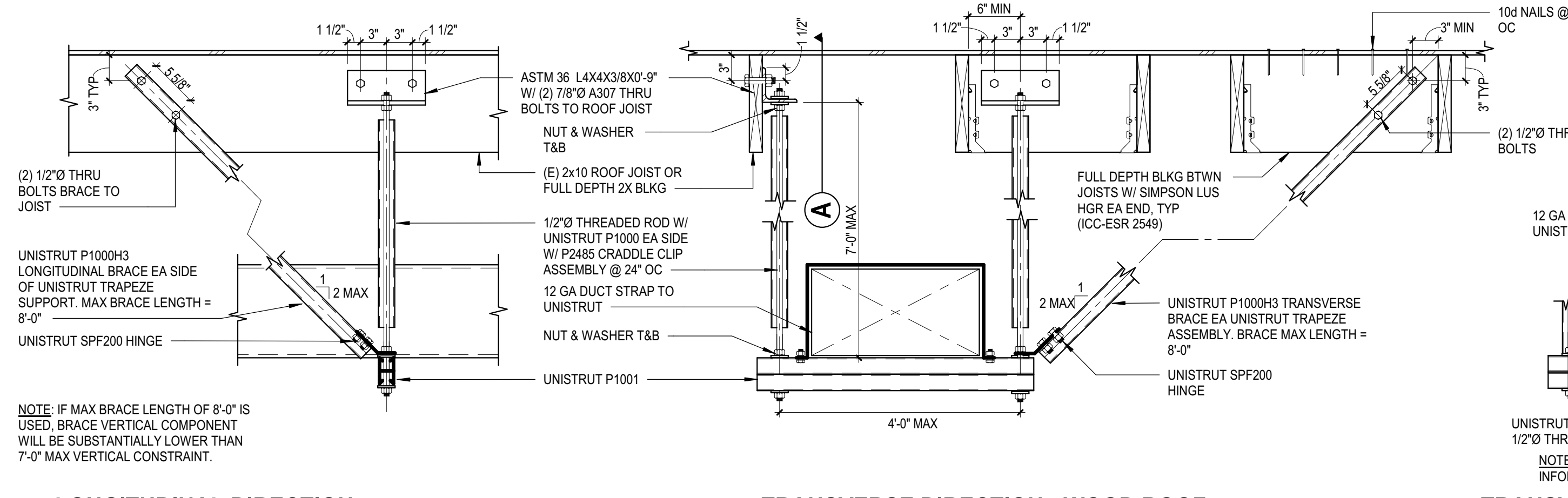
6 RECTANGULAR ELBOW W/ TURNING VANES DETAIL
M7.1 NO SCALE



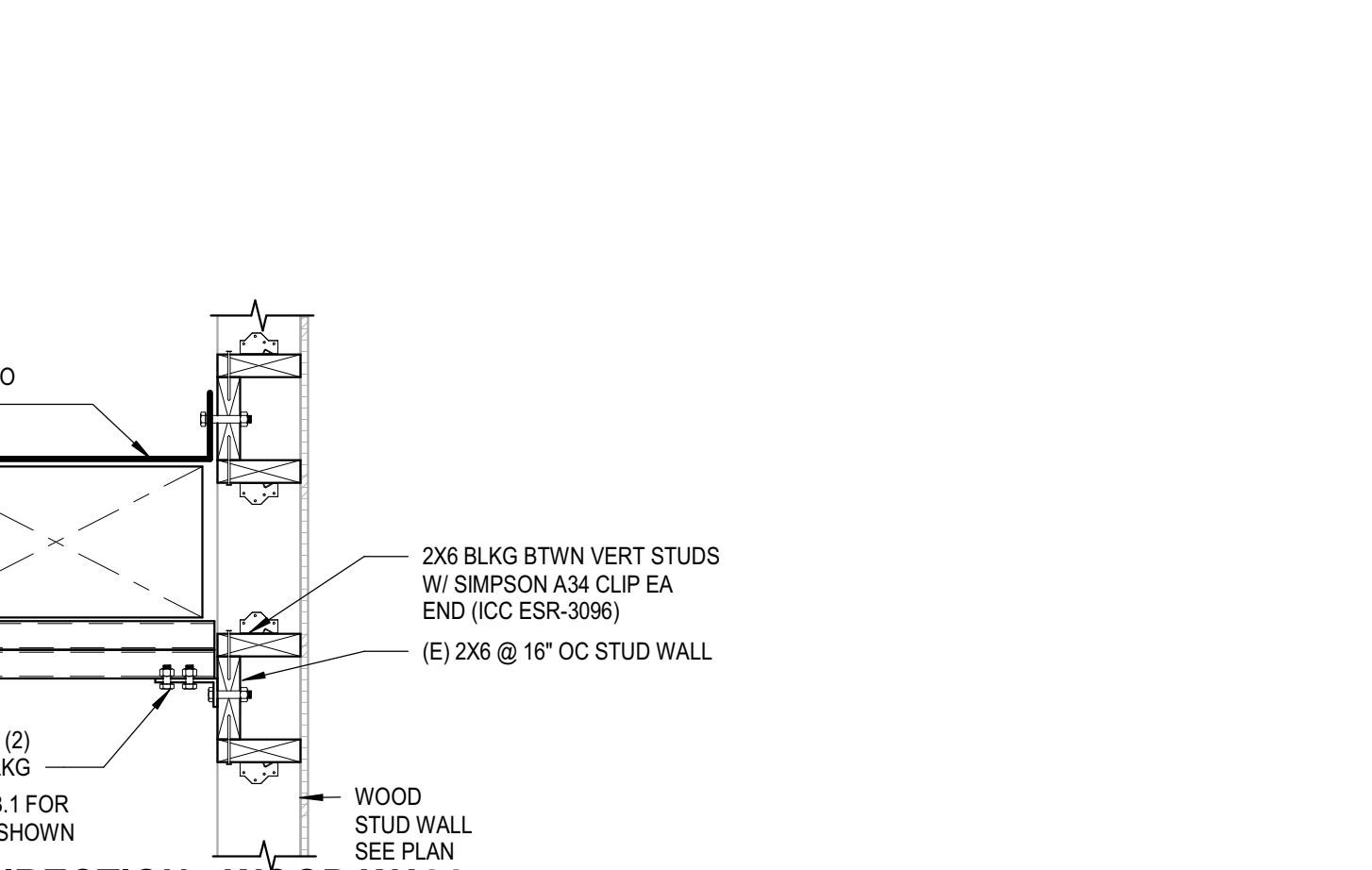
7 CONDENSATE DRAIN CONNECTION DETAIL
M7.1 NO SCALE



10 FLEXIBLE DUCT CONNECTOR
M7.1 NO SCALE



11 DUCT SUPPORTS
M7.1 NO SCALE



8.2 TRANSVERSE DIRECTION - WOOD WALL TIEBACK

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MARK FCU-B1	MAKE CARRIER	MODEL 4GRUAQ-16	STEEL FRAME ASTM A6, L 3 X 3 X 1/4	DETAIL-1	DETAIL-3	MTG 1-6	SPRING, OD 2	DEFL. 1
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NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 200 LBS.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

ATTACHMENT OF UNIT TO STEEL BASE

TIE DOWN STRAP DETAIL

CONNECTION DETAIL

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.

RMU-BQ-SH-1

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - BEN LOMOND ES CUST.: CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: ADDED WELDING (7-21-22) B: VERT TO HORIZ (7-25-22) TDT C: CALL OUT ALL ATTACHMENTS (9-2-22) D: SPECS ANGLE (9-26-22)	DRN: JO DATE: 6/24/22 DRAWING NO.: -20
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1 FCU-B1
M7.3 SCALE: 1/2" = 1'-0"



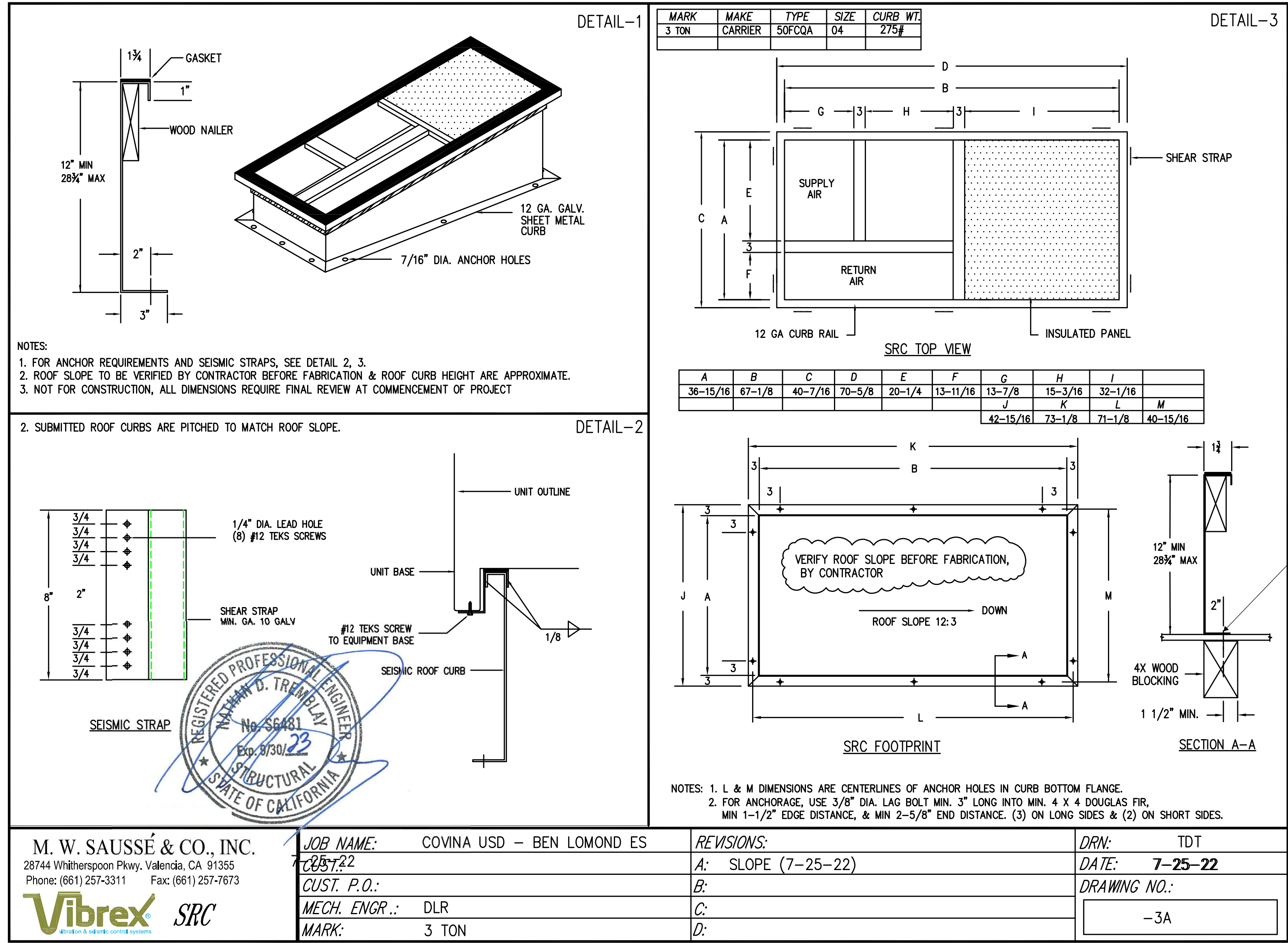
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MECHANICAL
DETAILS

M7.3



1 RTU CURB
MT.5 NO SCALE



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MECHANICAL
DETAILS

M7.5

GENERAL NOTES

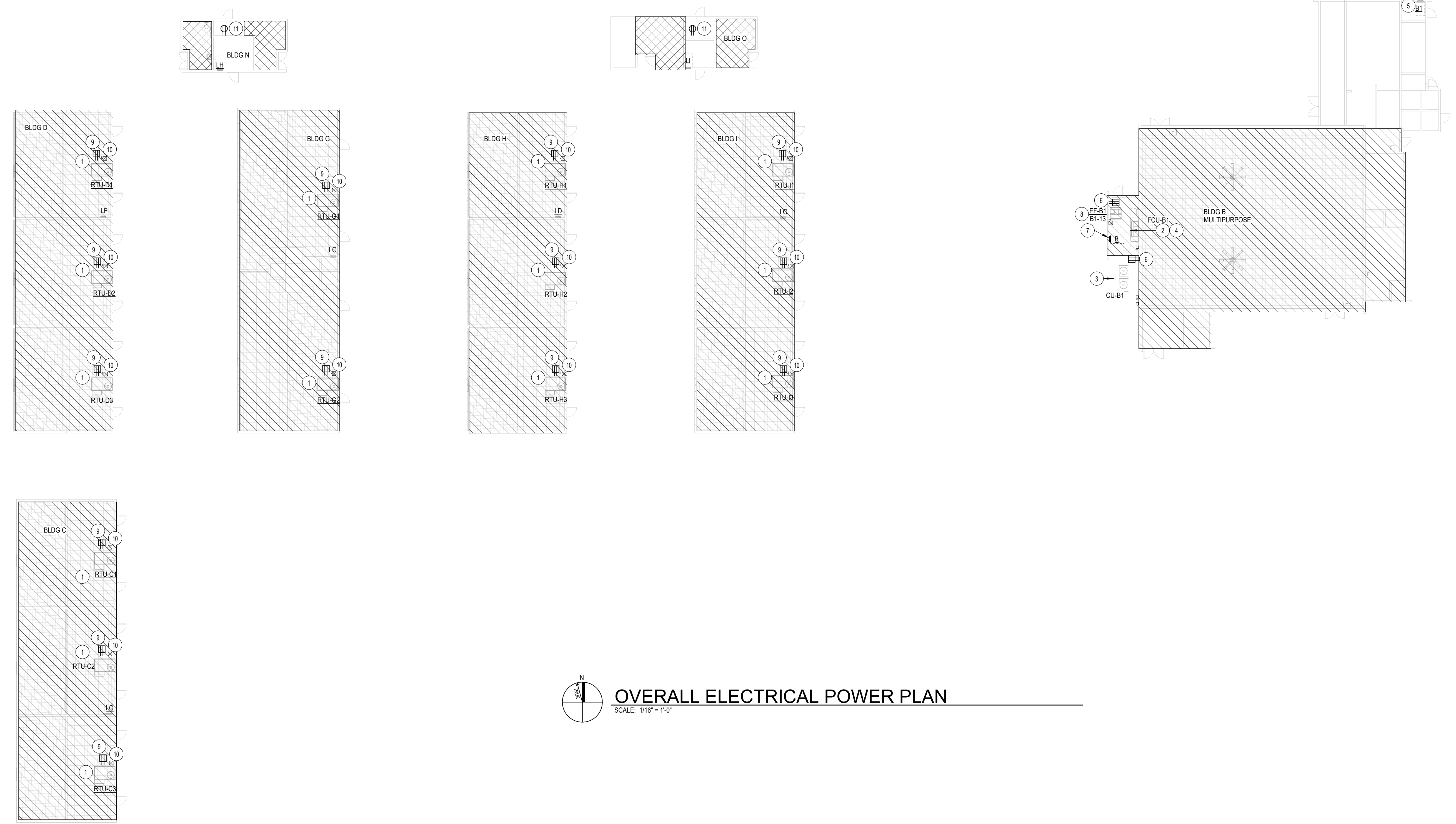
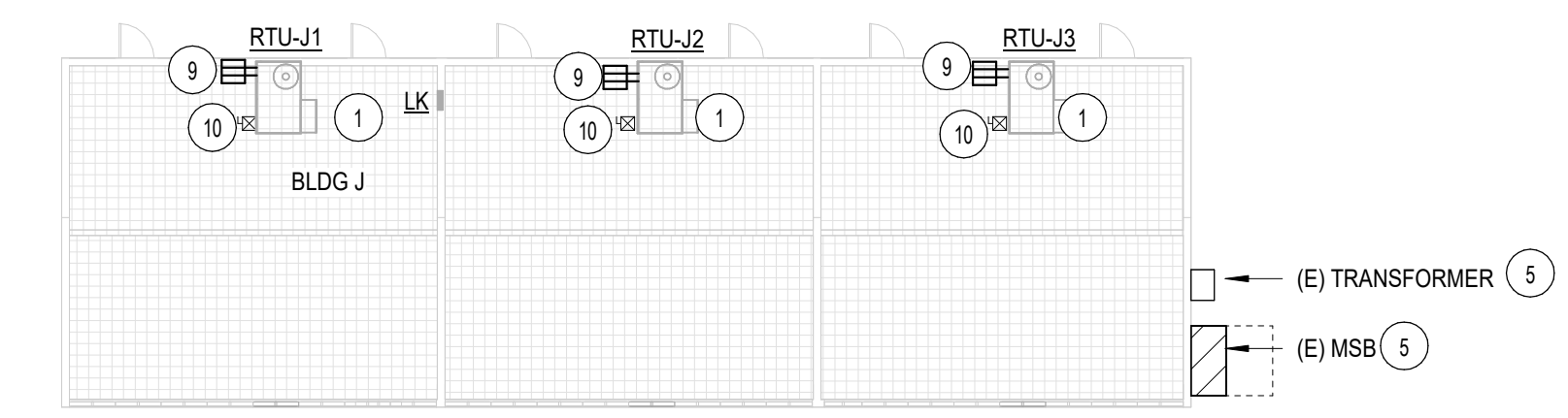
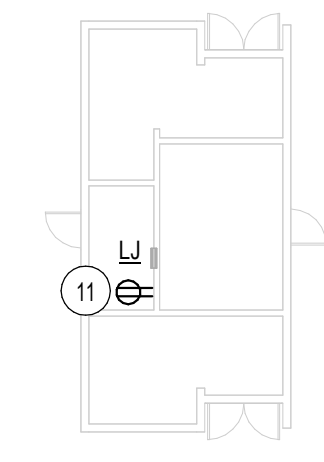
- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET ES.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CEBC 503.15.1.
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEEDER POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

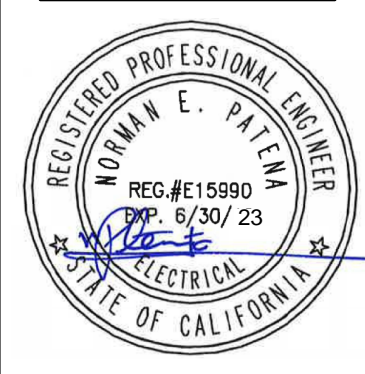
No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK WITH ROOF TOP EQUIPMENT. EXTEND EXISTING FEEDER AS REQUIRED. SEE TABLE ON SHEET ES.1 FOR OTHER INFORMATION. PROVIDE ALL REQUIRED CONNECTION.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
3	NEW HVAC EQUIPMENT AT GRADE. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
4	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 909 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
5	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
6	PROVIDE 120 VOLT CIRCUIT FROM SPARE BREAKER. PROVIDE TANDEM BREAKER AS REQUIRED.
7	(N) PANELBOARD B AT GRADE LEVEL. 277/480 VOLTS, 3-PHASE, W-WIRE, 225 AMP BUS. REFER TO SHEET E6.1 FOR PANELBOARD MOUNTING DETAIL. PROVIDE UNDERGROUND TRENCHING FROM SWITCHBOARD MSB AS REQUIRED. FIELD COORDINATE EXACT ROUTING WITH SCHOOL DISTRICT.
8	SIZE 1 MOTOR STARTER FOR EXHAUST FAN. PROVIDE ALL REQUIRED CONNECTIONS.
9	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ES.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
11	PROVIDE 120V CIRCUIT FOR EMS PANEL AND EMS ROUTER. FIELD VERIFY EXACT LOCATION OF EMS PANEL AND EMS ROUTER.

SITE LEGEND

- EXISTING BUILDING - NOT IN SCOPE
- EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
- (E) RESTROOMS - NOT IN SCOPE



OVERALL ELECTRICAL POWER PLAN
SCALE: 1/16" = 1'-0"



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ROOF ELECTRICAL PLAN

E2.1

GENERAL SINGLE LINE NOTES

- OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
- CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
- REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

KEYNOTES

- | No. | DESCRIPTION |
|-----|---|
| 1 | FUSED DISCONNECT TO BE PROVIDED BY CONTRACTOR. |
| 2 | VARIABLE FREQUENCY DRIVE WITH ON/OFF SWITCH TO BE PROVIDED UNDER DIVISION 23. |
| 3 | CONTRACTOR TO MATCH EXISTING BREAKER. |

PANEL: B

LOCATION: MECHANICAL ROOM B201
BUS RATING: 225.0 A
MAIN BREAKER: 225

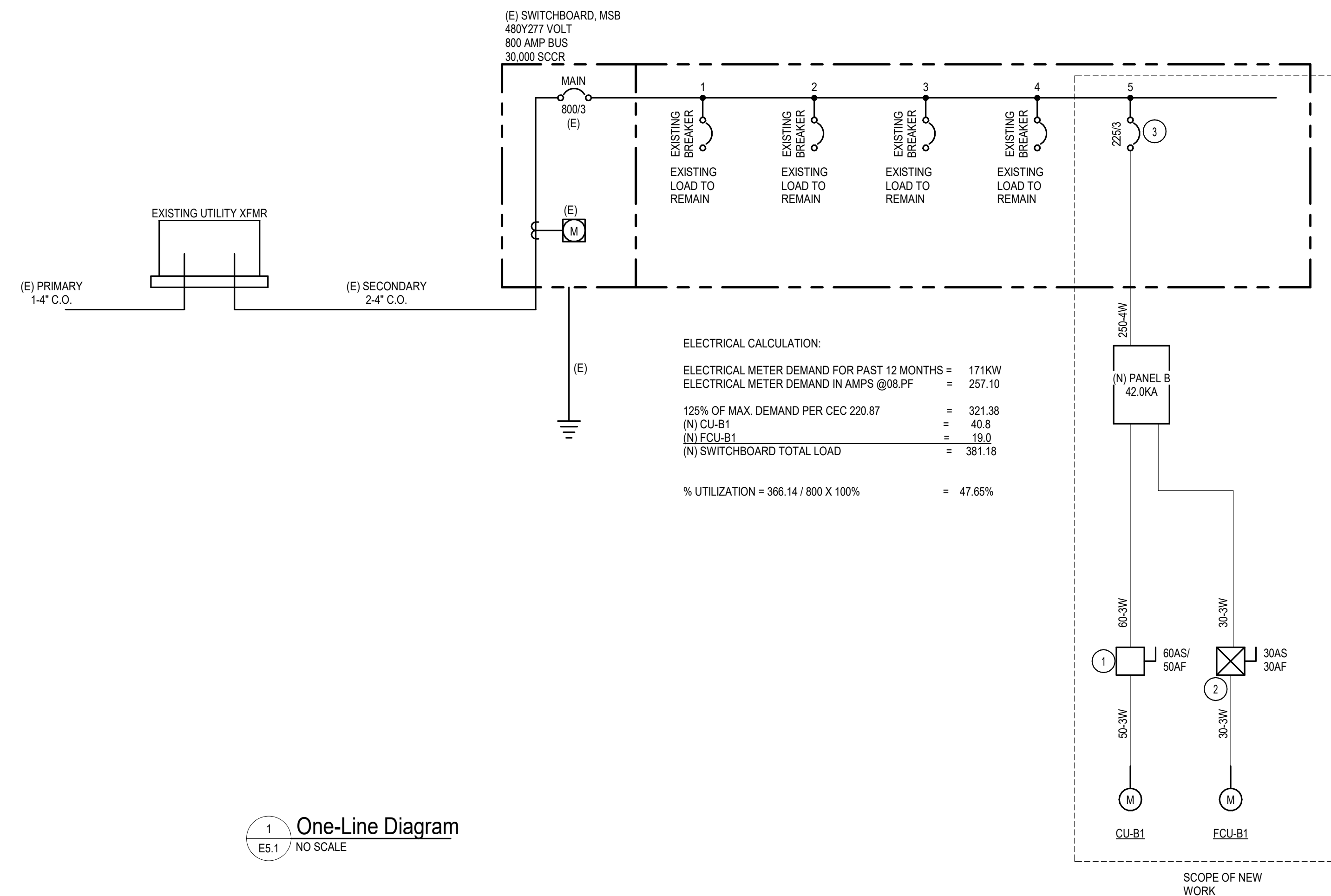
VOLTS: 480Y/277
PHASES: 3
WIRES: 4
SCCR: 42

MOUNTING: SURFACE
FED FROM:
INTEGRAL SPD: Type 1
LUG ACCESSORIES: SEE ONE-LINE

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT	
1														2	
3	CU-B1	50	3	M		9,090	9,090	9,090						4	
5														6	
7														8	
9														10	
11														12	
13														14	
15	FCU-B1	30	3	M		4,207	4,207	4,207					16		
17														18	
19														20	
21														22	
23														24	
25														26	
27														28	
29														30	
						TOTAL LOAD:	13267 VA	13267 VA	13267 VA						
						TOTAL AMPS:	48.0 A	48.0 A	48.0 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND F.	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	CONNECTED LOAD: 40 kVA ESTIMATED DEMAND: 47 kVA CONNECTED CURRENT: 48.0 A EMD CURRENT: 56.2 A
R	RECEPTACLES	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFC (30mA)	
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	
M	MOTOR	38692 VA	117.89%	46710 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	
C	COOLING	0 VA	0.00%	0 VA			
H	HEATING	0 VA	0.00%	0 VA			
O	OTHER	0 VA	0.00%	0 VA			
SPARE	SPARE	0 VA	0.00%	0 VA			

NOTES:
APPROX. WEIGHT = 124 LBS



FEEDER SCHEDULE - COPPER

MARK (AMPS)	# SETS	Ø & N	GND	CONDUIT SIZE			MARK SUFFIX
				-4W	-3W	-2W	
15	1	12	12	3/4"	3/4"	3/4"	
20	1	12	12	3/4"	3/4"	3/4"	
25	1	10	10	3/4"	3/4"	3/4"	
30	1	10	10	3/4"	3/4"	3/4"	
35	1	8	10	3/4"	3/4"	3/4"	
40	1	8	10	3/4"	3/4"	3/4"	
45	1	6	10	1"	3/4"	3/4"	
50	1	6	10	1"	3/4"	3/4"	
60	1	4	10	1-1/4"	1"	3/4"	
70	1	4	8	1-1/4"	1"	3/4"	
80	1	3	8	1-1/4"	1-1/4"	1"	
90	1	2	8	1-1/4"	1-1/4"	1"	
100	1	1	8	1-1/2"	1-1/2"	1-1/4"	
110	1	1	6	1-1/2"	1-1/2"	1-1/4"	
125	1	1	6	1-1/2"	1-1/2"	1-1/4"	
150	1	10	6	2"	1-1/2"	1-1/4"	
175	1	20	6	2"	1-1/2"	1-1/4"	
200	1	30	6	2"	2"	1-1/2"	
225	1	40	4	2-1/2"	2"	1-1/2"	
250	1	250	4	2-1/2"	2"	1-1/2"	
300	1	350	4	3"	2-1/2"	2"	
350	1	500	3	3-1/2"	3"	2-1/2"	
400	1	600	3	3-1/2"	3"	2-1/2"	
400	2	30	3	2"	2"	1-1/2"	
450	2	40	2	2-1/2"	2"	1-1/2"	
500	2	250	2	2-1/2"	2-1/2"	2"	
600	2	350	1	3"	2-1/2"	2"	
700	2	500	10	3-1/2"	3"	2-1/2"	
800	2	600	10	3-1/2"	3"	2-1/2"	
1000	3	400	20	3"	3"	2-1/2"	
1200	3	600	30	3-1/2"	3-1/2"	3"	
1800	4	600	40	3-1/2"	3-1/2"	3"	
2000	5	600	250	4"	3-1/2"	3"	
2500	6	600	350	4"	3-1/2"	3"	
3000	8	500	400	3-1/2"	3"	2-1/2"	
4000	10	600	500	4"	3-1/2"	3"	

ABBREVIATIONS:
Ø PHASE
N NEUTRAL
GND EQUIPMENT GROUNDING CONDUCTOR
-4W FOUR WIRE + GROUND (3Ø GND)
-3W THREE WIRE + GROUND (3Ø GND @ 2Ø N GND)
-2W TWO WIRE + GROUND

NOTES:

- CONDUCTOR AMPACITIES ARE BASED ON NEC TABLE 310.15(B)(16).
- CONDUIT SIZES ARE BASED ON A MAXIMUM FILL RATIO OF 40%.
- SCHEDULE SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS WHERE APPLICABLE.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR. SCHEDULE IS VALID FOR TYPE THHN, THWN-2, AND XHHW-2 CONDUCTORS. SEE SPECIFICATIONS FOR CONDUCTOR TYPES REQUIRED.
- SCHEDULE IS VALID FOR TYPE EMT, IMC, FMC, LPAC, HDPE, AND RNC-40 RACEWAYS. SEE SPECIFICATIONS FOR RACEWAY APPLICATIONS. OPTIONAL CONFIGURATIONS (1 OR 2 SETS) ARE GIVEN FOR SOME SIZES.
- NOT ALL SIZES USED.

Ben Lomond AC UNIT REPLACEMENT

EXISTING UNIT								NEW UNIT												NOTES			
TAGS	V/PH	MCA	FLA	MOCP	ELECTRICAL PANEL/ CKT#	FEEDER SIZE	DISCONNECT	TAGS	DIRECT REPLACEMENT? Y/N	CFM	V/PH	MCA	MOCP	ELECTRICAL PANEL/ CKT#	FEEDER SIZE	DISCONNECT	REQUIRED?	Model#	MCA		MOCP	FEEDER SIZE	DISCONNECT
NA	-	-	-	NA	NA	NA	NA	CU-B1A (BLDG. B)	N	-	480/3	23	30	B-1,3,5	3#10, 1#10GND-0.75°C	30A (30A FUSE)	NO	-	-	-	NA	-	-
NA	-	-	-	NA	NA	NA	NA	CU-B1B (BLDG. B)	N	-	480/3	23	30	B-7,9,11	3#10, 1#10GND-0.75°C	30A (30A FUSE)	NO	-	-	-	NA	-	-
NA	-	-	-	NA	NA	NA	NA	FCU-B1 (BLDG. B)	N	8,000	480/3	19	30	B-13,15,17	3#10, 1#10GND-0.75°C	30A (20A FUSE)	NO	-	-	-	NA	-	-
CU/FCU-C1 (BLDG. C)	240/1	22.875	18.3	30	LG-4,6	2#10, 1#10GND-0.75°C	30	RTU-C1 (BLDG C)	Y	1,200	240/1	26	30	LG-4,6	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-C2 (BLDG. C)	240/1	22.875	18.3	30	LG-1,3	2#10, 1#10GND-0.75°C	30	RTU-C1 (BLDG C)	Y	1,200	240/1	26	30	LG-1,3	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-C3 (BLDG. C)	240/1	22.875	18.3	30	LG-5,7	2#10, 1#10GND-0.75°C	30	RTU-C1 (BLDG C)	Y	1,200	240/1	26	30	LG-5,7	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-D1 (BLDG. D)	240/1	22.875	18.3	30	LH-4,6	2#10, 1#10GND-0.75°C	30	RTU-D1 (BLDG D)	Y	1,200	240/1	26	30	LH-4,6	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-D2 (BLDG. D)	240/1	22.875	18.3	30	LH-8,10	2#10, 1#10GND-0.75°C	30	RTU-D2 (BLDG D)	Y	1,200	240/1	26	30	LH-8,10	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-D3 (BLDG. D)	240/1	22.875	18.3	30	LH-12,14	2#10, 1#10GND-0.75°C	30	RTU-D3 (BLDG D)	Y	1,200	240/1	26	30	LH-12,14	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-G1 (BLDG. G)	240/1	22.875	18.3	30	LH-5,7	2#10, 1#10GND-0.75°C	30	RTU-G1 (BLDG G)	Y	1,200	240/1	26	30	LH-5,7	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-G2 (BLDG. G)	240/1	22.875	18.3	30	LH-9,11	2#10, 1#10GND-0.75°C	30	RTU-G2 (BLDG G)	Y	1,200	240/1	26	30	LH-9,11	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-H1 (BLDG. H)	240/1	22.875	18.3	30	LI-1,3	2#10, 1#10GND-0.75°C	30	RTU-H1 (BLDG H)	Y	1,200	240/1	26	30	LI-1,3	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-H2 (BLDG. H)	240/1	22.875	18.3	30	LI-5,7	2#10, 1#10GND-0.75°C	30	RTU-H2 (BLDG H)	Y	1,200	240/1	26	30	LI-5,7	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-H3 (BLDG. H)	240/1	22.875	18.3	30	LI-9,11	2#10, 1#10GND-0.75°C	30	RTU-H3 (BLDG H)	Y	1,200	240/1	26	30	LI-9,11	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-I1 (BLDG. I)	240/1	22.875	18.3	30	LI-2,4	2#10, 1#10GND-0.75°C	30	RTU-I1 (BLDG I)	Y	1,200	240/1	26	30	LI-2,4	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-I2 (BLDG. I)	240/1	22.875	18.3	30	LI-6,8	2#10, 1#10GND-0.75°C	30	RTU-I2 (BLDG I)	Y	1,200	240/1	26	30	LI-6,8	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-I3 (BLDG. I)	240/1	22.875	18.3	30	LI-10,12	2#10, 1#10GND-0.75°C	30	RTU-I3 (BLDG I)	Y	1,200	240/1	26	30	LI-10,12	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-J1 (BLDG. J)	240/1	22.875	18.3	30	LI-2,4	2#10, 1#10GND-0.75°C	30	RTU-J1 (BLDG J)	Y	1,200	240/1	26	30	LI-2,4	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-J2 (BLDG. J)	240/1	22.875	18.3	30	LI-7,9	2#10, 1#10GND-0.75°C	30	RTU-J2 (BLDG J)	Y	1,200	240/1	26	30	LI-7,9	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
CU/FCU-J3 (BLDG. J)	240/1	22.875	18.3	30	LI-6,8	2#10, 1#10GND-0.75°C	30	RTU-J3 (BLDG J)	Y	1,200	240/1	26	30	LI-6,8	-	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	20A (15A FUSE)	
FF-B1	-	-	-	-	-	-	-	FF-B1	NA	120	12.25	30	BI-13	-	30A (15A FUSE)	-	-	-	-	-	-	-	-

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY CIRCUITING AND FEEDER INFORMATION PRIOR TO EQUIPMENT REMOVAL. CONTRACTOR TO PROVIDE REQUIRED ADJUSTMENTS AS NEEDED.
- PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE. FEED FROM SPARE 20A/1P BREAKER IN NEAREST PANEL. ROUTE 2#12+1#12GND IN 1/2" EMT CONDUIT FROM PANEL TO RECEPTACLE.
- POWER NO MORE THAN 10 RECEPTACLES ON ONE CIRCUIT. FIELD VERIFY EXACT LOCATION OF NEAREST PANEL AND ROUTE OF NEW CIRCUIT FROM PANEL TO UNIT RECEPTACLE.
- CONTRACTOR TO DEMOLISH POWER CONNECTION FROM CONDENSING UNITS, FAN COIL UNITS AND CONDENSATE PUMPS. DEMOLITION TO CONSIST OF REMOVAL OF POWER CONNECTION, CABLING, AND CONDUIT BACK TO SOURCE UNLESS NOTED OTHERWISE.
- FIELD COORDINATE EQUIPMENT MANUFACTURER FOR FAULT CURRENT LIMITING FUSE TYPES



Ben Lomond Elementary School
Covina Valley USD
681 E COVINA BLVD, COVINA, CA 91722

DSA Submitted Set
5/5/2022
REVISIONS
5 01/13/2023

75-22605-00

ELECTRICAL DIAGRAMS AND SCHEDULES

E5.1

CYPRESS ELEMENTARY SCHOOL

351 W. CYPRESS ST. COVINA, CA 91723

COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION #

A# 03-122230

SHEET INDEX

GENERAL		ELECTRICAL	
G0.1	COVER SHEET	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
G1.1	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	E2.1	ROOF ELECTRICAL PLAN
ARCHITECTURAL		E5.1	ELECTRICAL DIAGRAMS AND SCHEDULE
A1.1	ARCHITECTURAL SITE PLAN	E6.1	ELECTRICAL DETAILS
A1.1A	BUILDING ABCFG FLOOR PLANS		TOTAL: 32 SHEETS
A1.1B	BUILDING HU FLOOR PLANS		
A1.3	BUILDING ABCFG ROOF PLANS		
A1.3B	BUILDING HU ROOF PLANS		
A3.1	BUILDING ABCFG REFLECTED CEILING PLANS		
A3.1B	BUILDING HU REFLECTED CEILING PLANS		
MECHANICAL			
M5.2	CONTROLS DIAGRAMS		
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES		
M0.2	TITLE 24 COMPLIANCE		
M0.3	TITLE 24 COMPLIANCE		
M0.4	TITLE 24 COMPLIANCE		
M0.5	TITLE 24 COMPLIANCE		
M0.6	TITLE 24 COMPLIANCE		
M0.7	TITLE 24 COMPLIANCE		
M1.1	OVERALL MECHANICAL SITE PLANS		
M1.1A	MECHANICAL FLOOR PLANS		
M1.2A	MECHANICAL ROOF PLANS		
M1.2B	MECHANICAL ROOF PLANS		
M1.1B	MECHANICAL FLOOR PLANS		
M5.1	CONTROLS DIAGRAMS		
M7.1	MECHANICAL DETAILS		
M7.2	MECHANICAL DETAILS		
M7.3	MECHANICAL DETAILS		
M7.4	MECHANICAL DETAILS		
M7.5	MECHANICAL DETAILS		
M8.1	MECHANICAL SCHEDULES		
MP1.1	MECHANICAL PLUMBING SITE PLAN		

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122230 File No. 19-25)

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b))

I FIND THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES) THIS DRAWING OR PAGE

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: JESSE MILLER
DATE: 05/05/2022
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
PRINT NAME: JESSE MILLER
C-32306
10/31/2023
LICENSE NUMBER EXPIRATION DATE

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: _____
DATE: _____
ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
PRINT NAME: _____
LICENSE NUMBER EXPIRATION DATE

SCOPE OF WORK

SCOPE OF WORK SHALL BE AS FOLLOWS:

REMOVAL OF EXISTING SPLIT SYSTEM UNITS INCLUDING GROUND MOUNTED CONDENSING UNITS AND ALL ASSOCIATED CONDUITS, PIPING, SUPPORTS, ETC. REPLACEMENT WITH NEW ROOF MOUNTED HVAC UNITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED.

IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MPR UNIT WITH NEW HVAC SYSTEM.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED

APPLICABLE CODES

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 APMD UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASME A17.1, JCSA 844-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2019 CBC PART 2 CH 35)
NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADDITION
2019 ADA STANDARDS FOR ACCESSIBLE DESIGN

NFPA 13	- STANDARD FOR INSTALLATION OF SPRINKLERS SYSTEMS (CA AMENDED)	2016 ADDITION
NFPA 14	- STANDARD FOR INSTALLATION OF SAND PIPE AND HOSE SYSTEMS (CA AMENDED)	2016 ADDITION
NFPA 17	- STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 ADDITION
NFPA 17A	- STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2017 ADDITION
NFPA 20	- STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2017 ADDITION
NFPA 22	- STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ADDITION
NFPA 24	- STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	(CA AMENDED)
NFPA 72	- NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 ADDITION
NFPA 80	- STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE	2016 ADDITION
NFPA 2001	- STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2016 ADDITION
UL 300	- STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	- AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ADDITION
UL 521	- STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ADDITION
UL 1971	- STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2010)
ICC-300	- STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 ADDITION

DSA GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), NOT WITHSTANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS. COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL ENGINEER, AND FIRE/LIFE/SAFETY) SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-4 AND SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHENEVER THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, STRUCTURAL ENGINEER OF RECORD, AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER.
- ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- A DSA-ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHENEVER THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION, AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE-COM](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-testing-technician-certification-provider-program/acceptance-com)
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

VICINITY MAP



PROJECT DIRECTORY

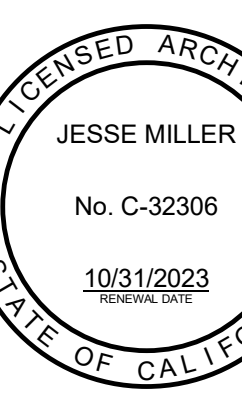
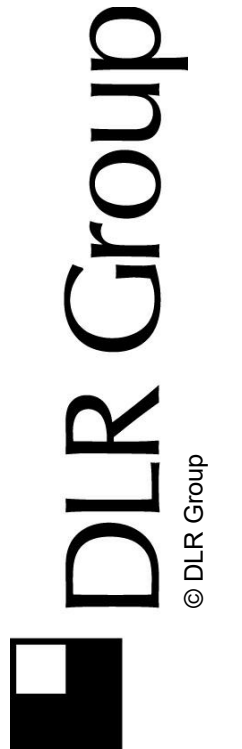
OWNER
COVINA VALLEY UNIFIED SCHOOL DISTRICT
518 E. BADILLO STREET
COVINA, CA 91723
CONTACT: BRIAN JOHNSON
PH: 629.974.7000
BJOHNSON@C-VUSD.ORG

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JMILLER@DLRGROUP.COM

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700 FLOWER ST 22ND FLOOR
LOS ANGELES, CA 90017
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PH: 213.800.9400
DAHKHAM@DLRGROUP.COM



CYPRESS ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
351 W. CYPRESS ST. COVINA, CA 91723

100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISIONS
5 1/15/2023

75-22605-00
DSA A#03-122230
DSA File #: 19-25
COVER SHEET

G0.1

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES_A#_2022.rvt
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A

B

C

D

E

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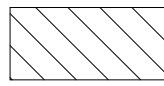
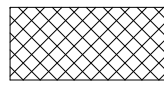
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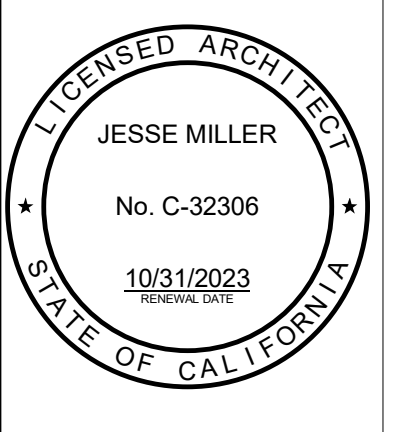
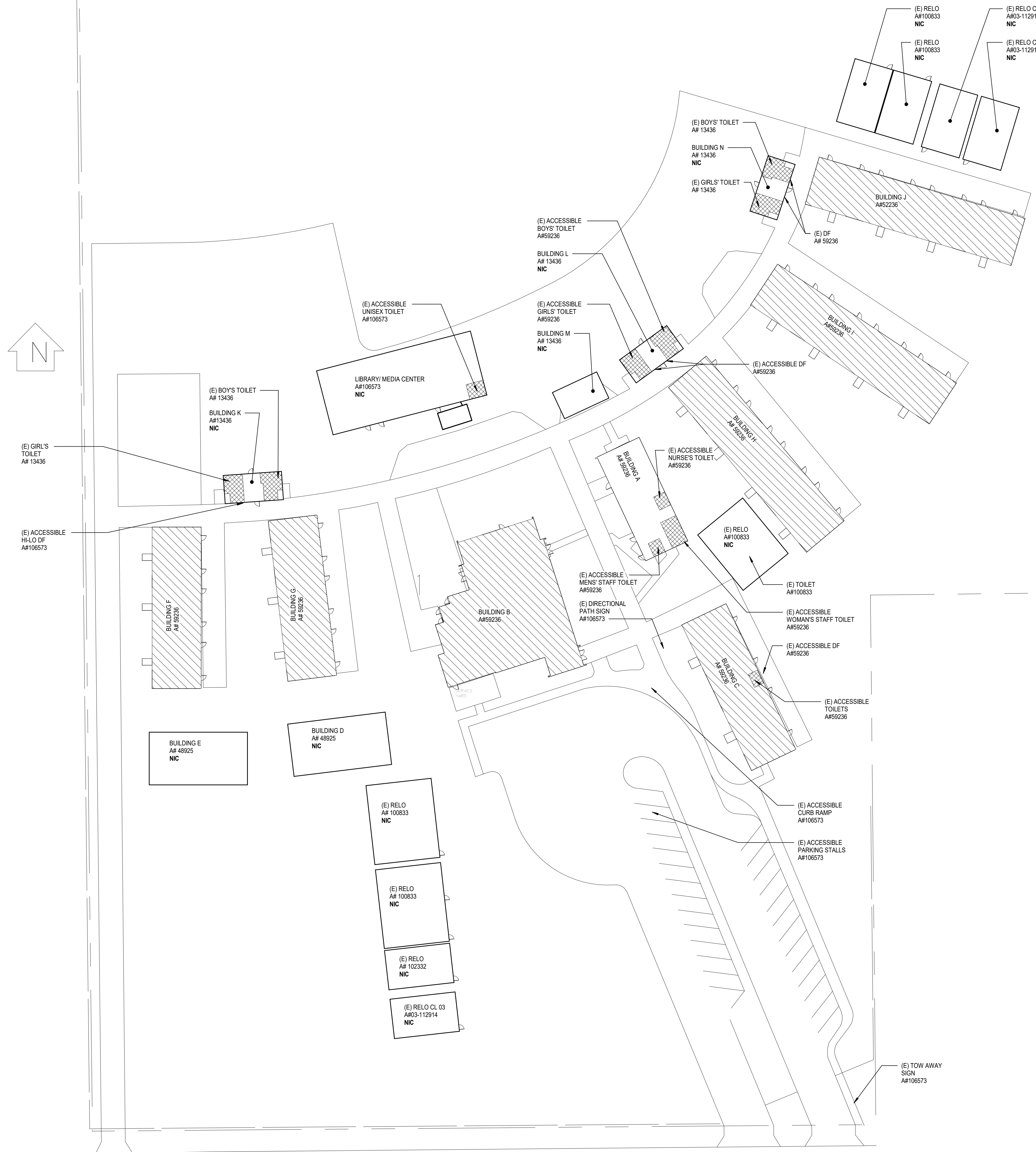
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4

5

SITE LEGEND

	EXISTING BUILDING NOT IN SCOPE
	EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
	(E) RESTROOMS - NOT IN SCOPE



CYPRESS ELEMENTARY SCHOOL
 COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
 381 W. CYPRESS ST. COVINA, CA 91723

100%
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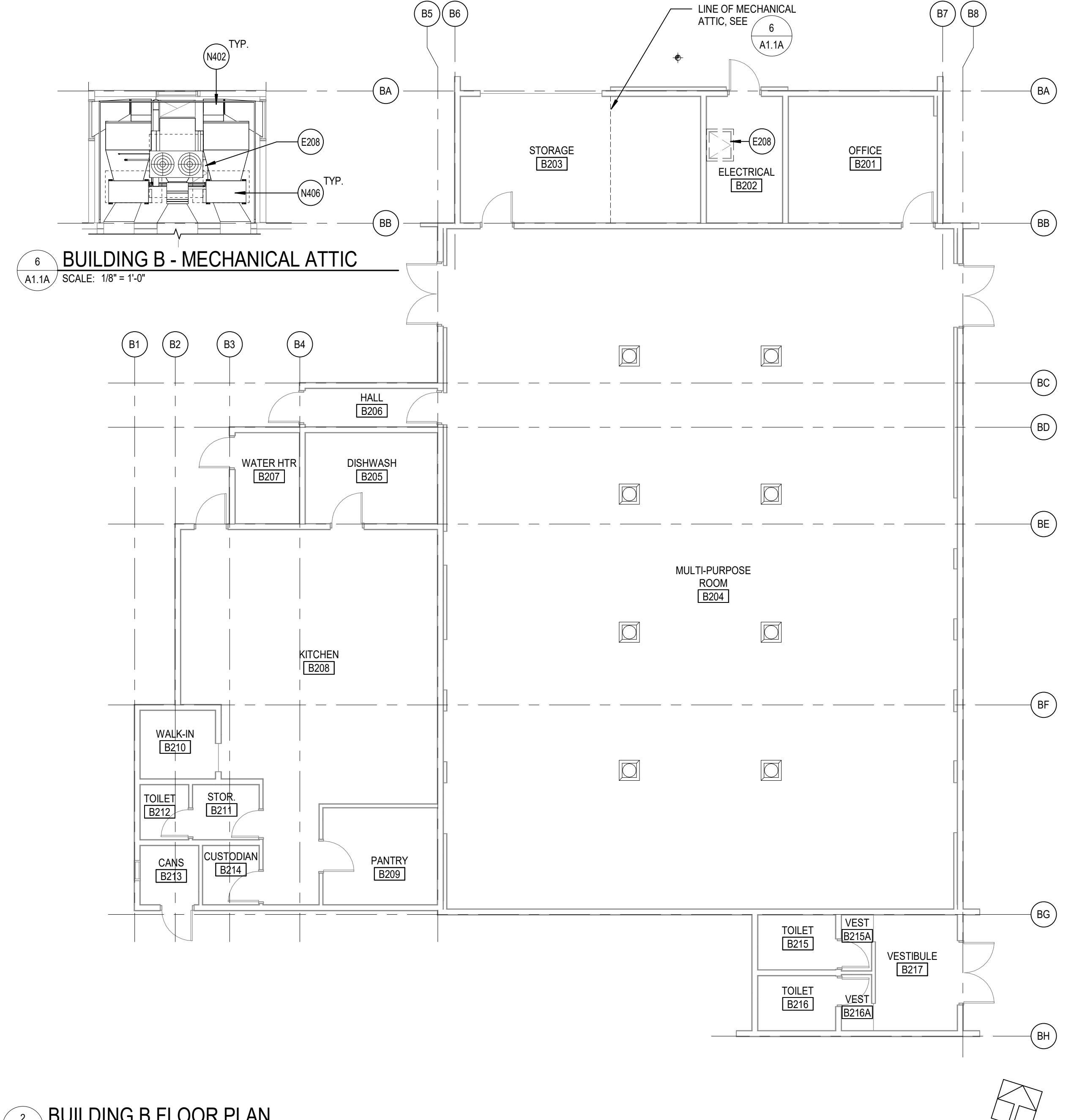
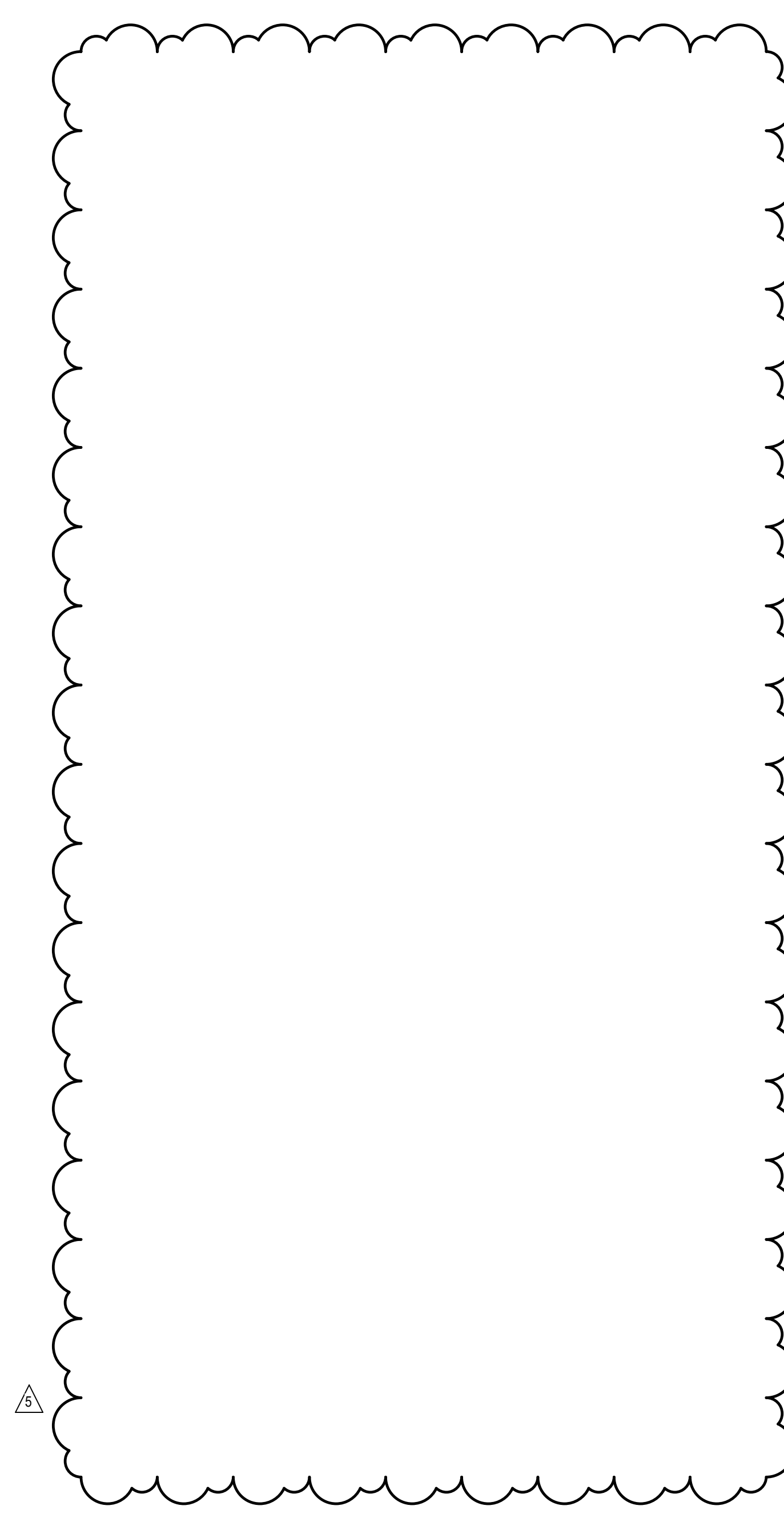
75-22605-00
 DSA A#03-122230
 DSA File #: 19-25
 ARCHITECTURAL
 SITE PLAN

A1.1

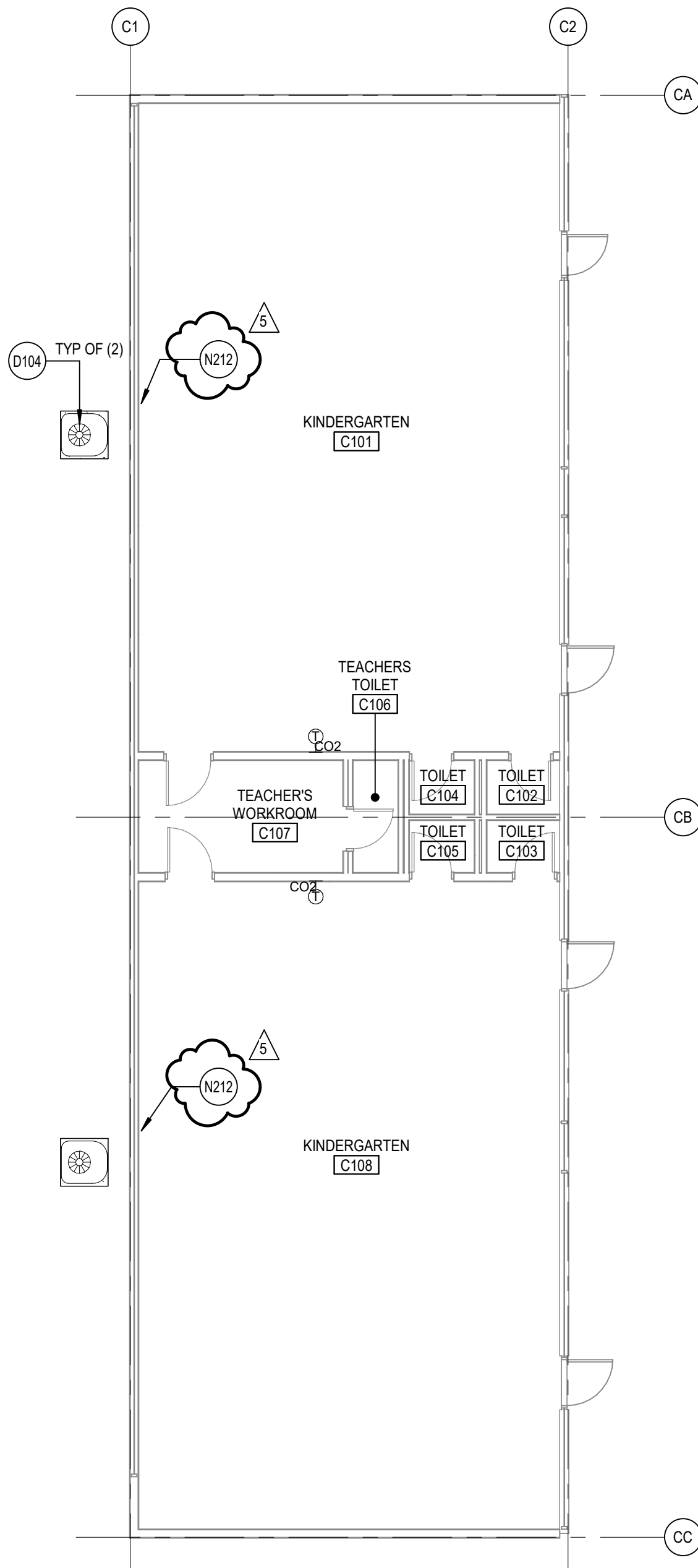
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 ARCHITECTURAL SITE PLAN
 SCALE: 1" = 30'-0"



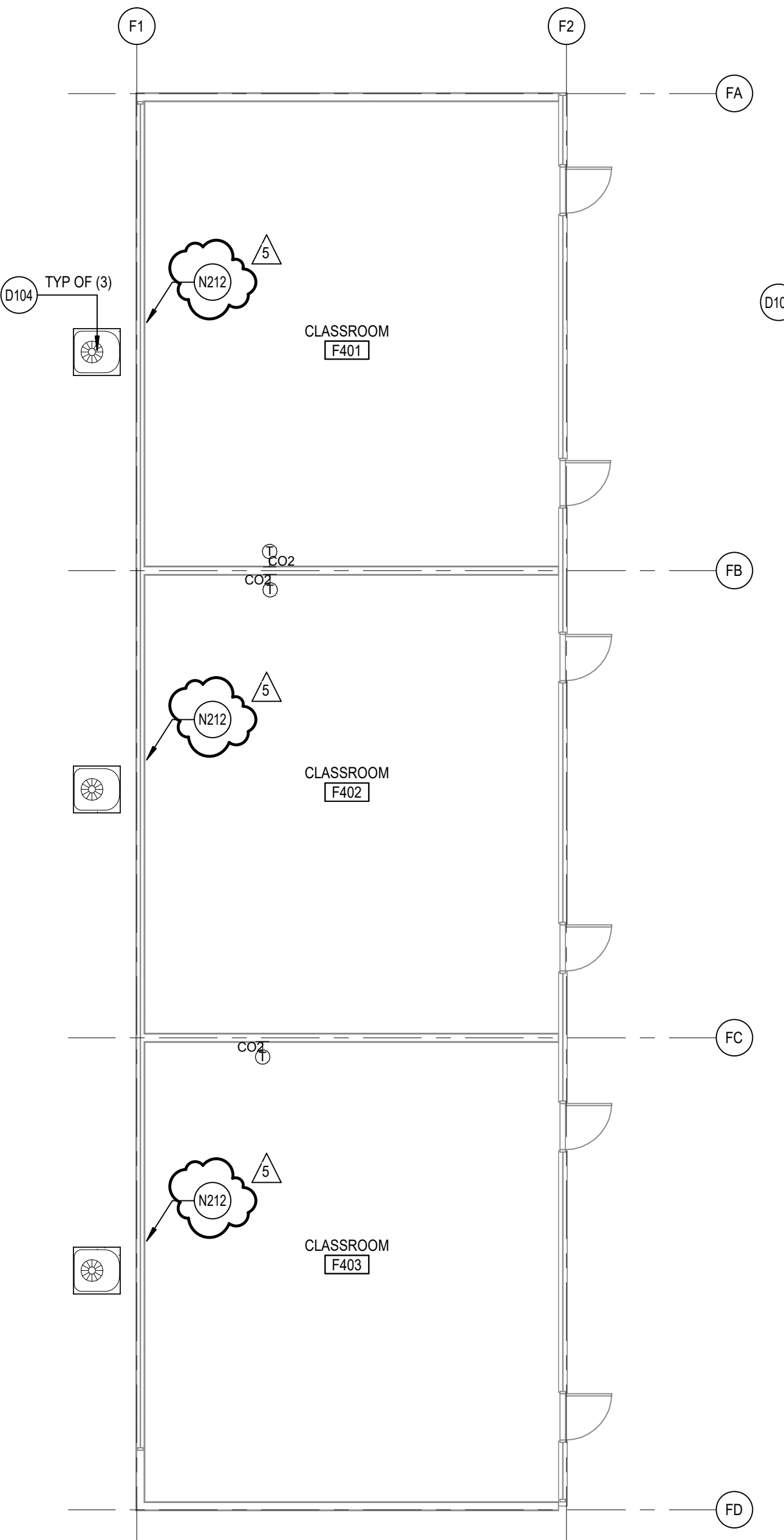
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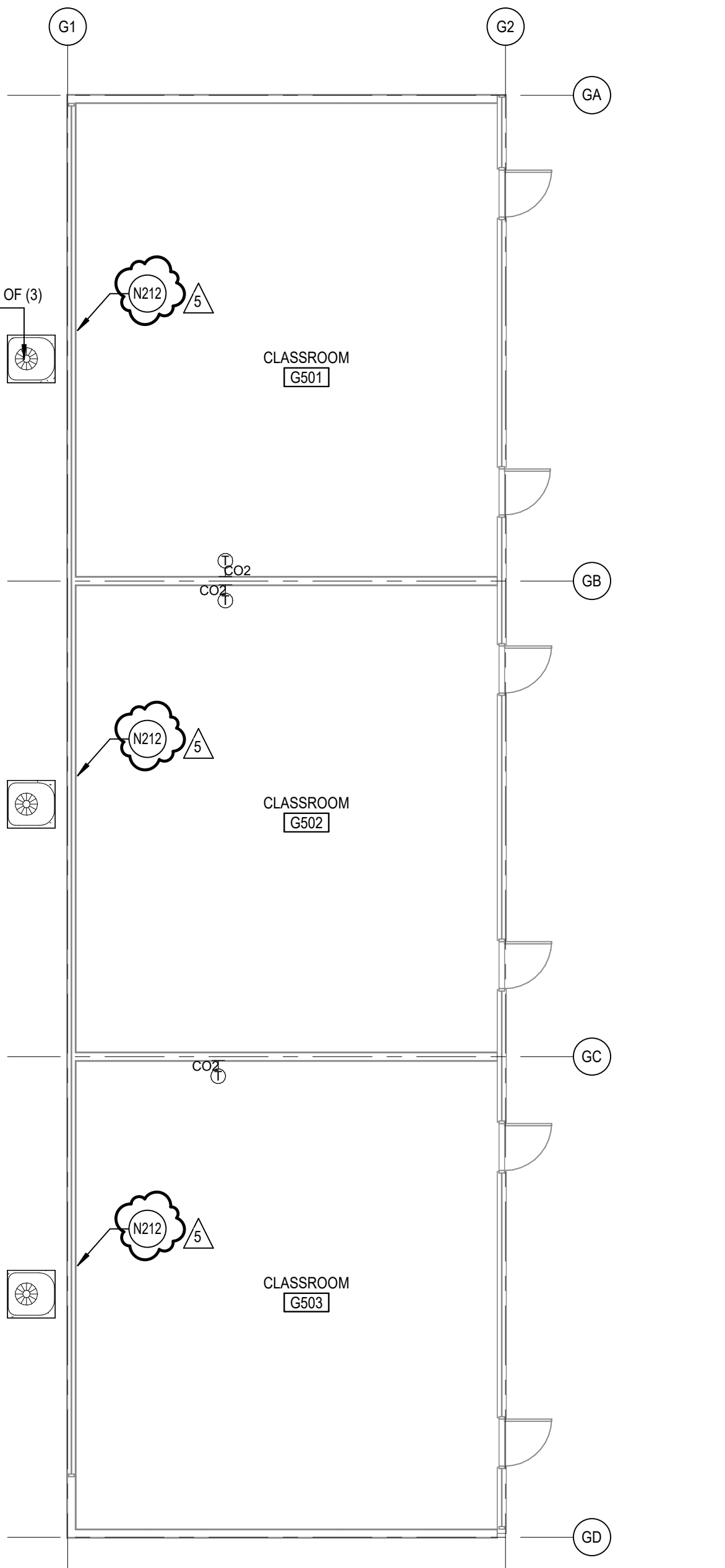
2 BUILDING B FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



3 BUILDING C FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



4 BUILDING F FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



5 BUILDING G FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- KEYNOTES
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (B) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
 - E206 ACCESS DOOR TO REMAIN
 - N402 REPLACE (E) INWELL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - N406 (N) MECHANICAL UNITS ATTACHED TO THE (E) UNIT CURB. SEE MECHANICAL DRAWING SHEET MT-3, MT-4 AND MT-5.

GENERAL ARCHITECTURAL NOTES

- 1 ALL (E) INTERIOR WALLS SHALL ARE TO REMAIN U.N.O.
- 2 FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS WHERE OCCURS.
- 4 GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- 5 NOT USED
- 6 SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
- 7 MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILING OR AS SHOWN ON THE DRAWINGS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
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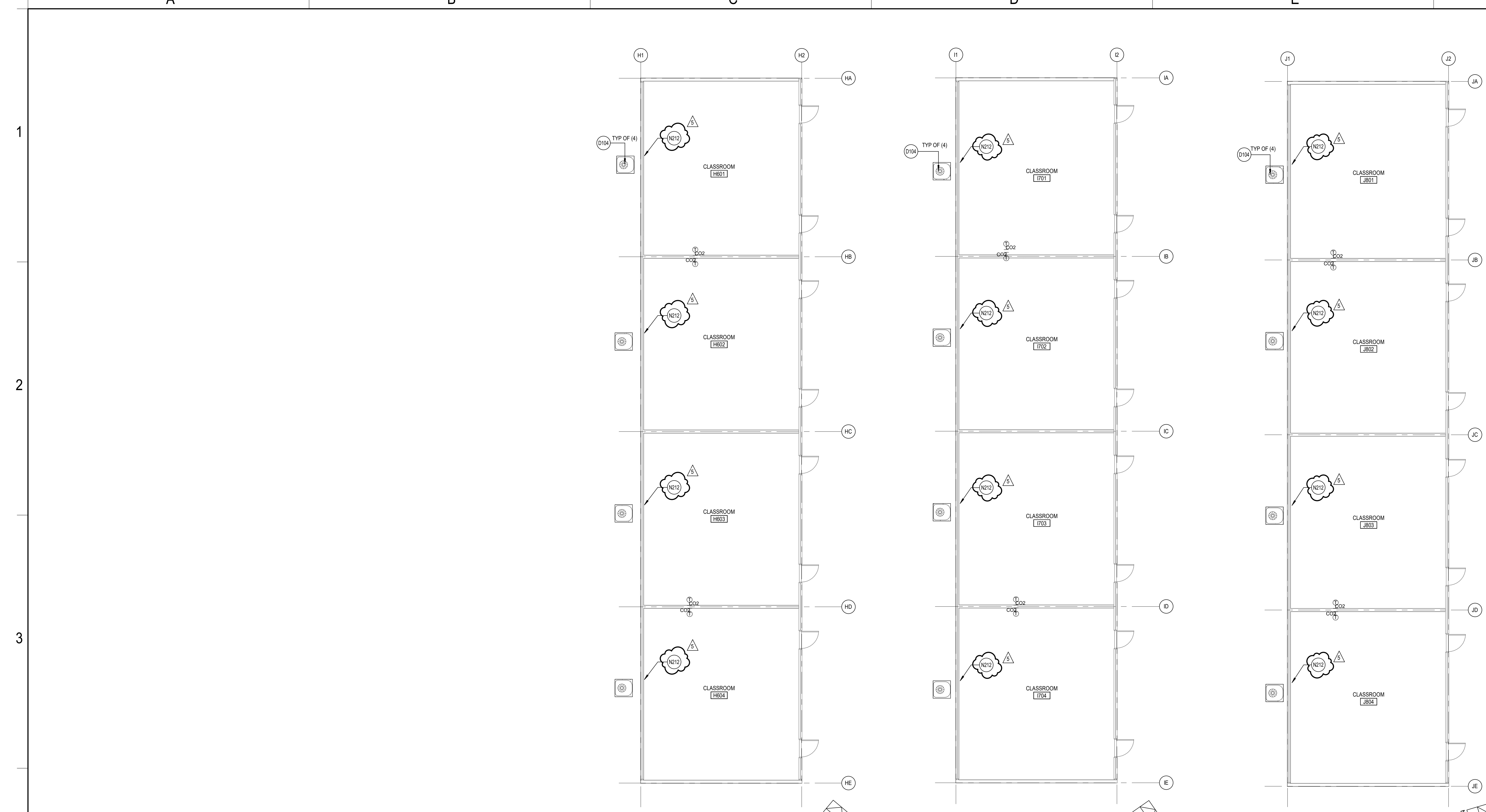
LICENSED ARCHITECT
JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

CYPRESS ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
381 W. CYPRESS ST. COVINA, CA 91723

100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-122230
DSA File #: 19-25
BUILDING ABCFG FLOOR PLANS

A1.1A



2 BUILDING H FLOOR PLAN
A1.1B / SCALE: 1/8" = 1'-0"

3 BUILDING I FLOOR PLAN
A1.1B / SCALE: 1/8" = 1'-0"

1 BUILDING J FLOOR PLAN
A1.1B / SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- KEYNOTES**
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DIV. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE. PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
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 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
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 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED
 - Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

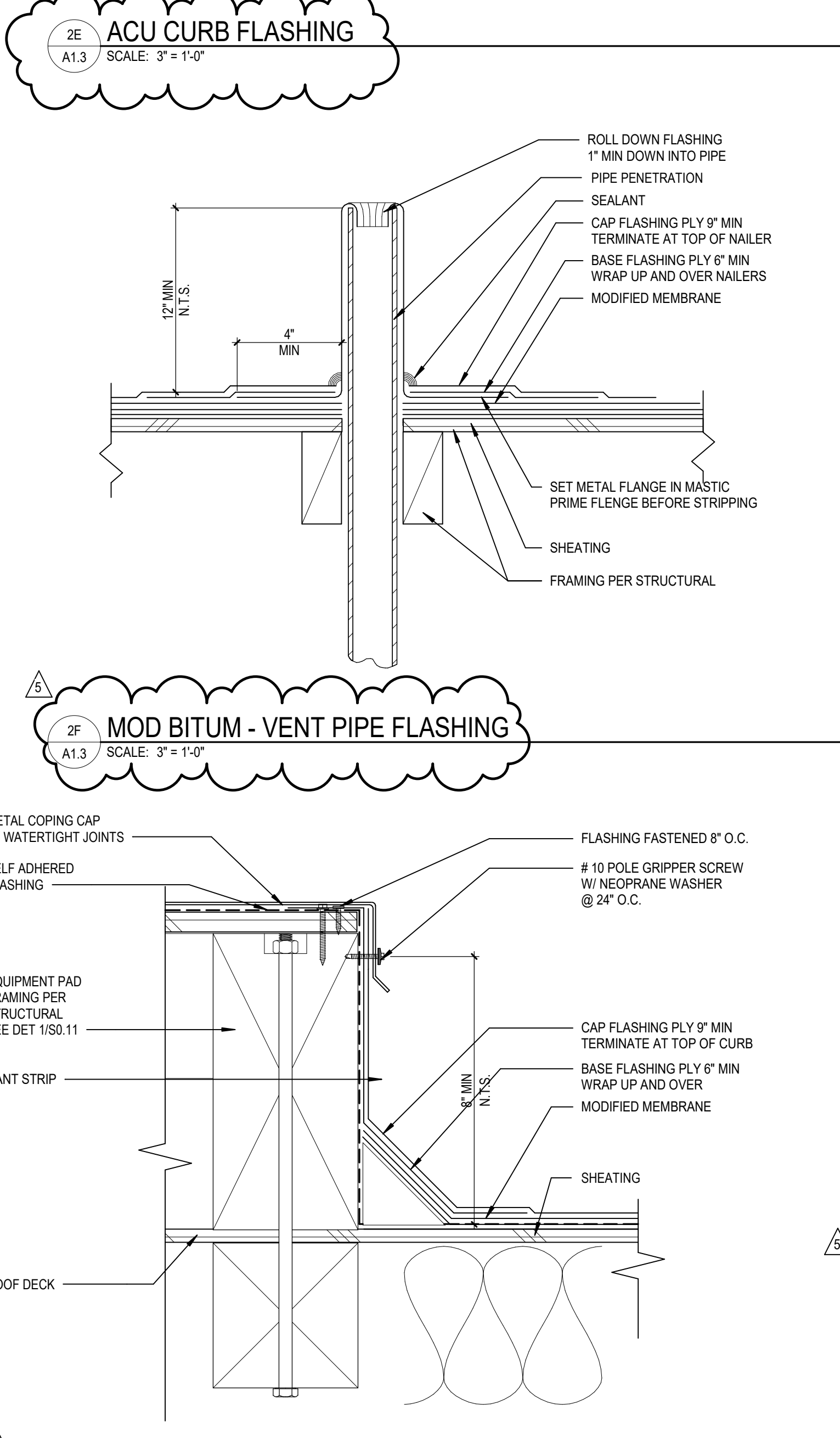
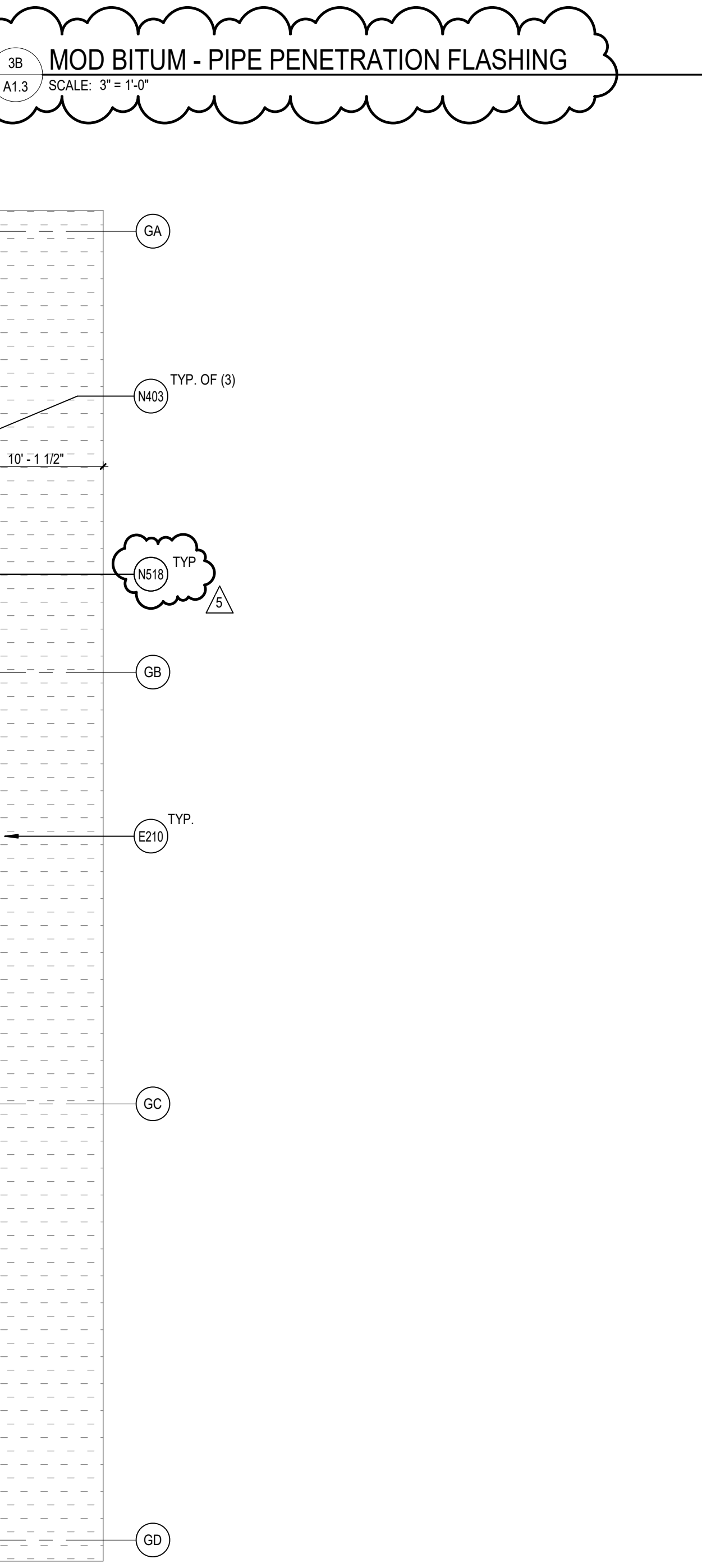
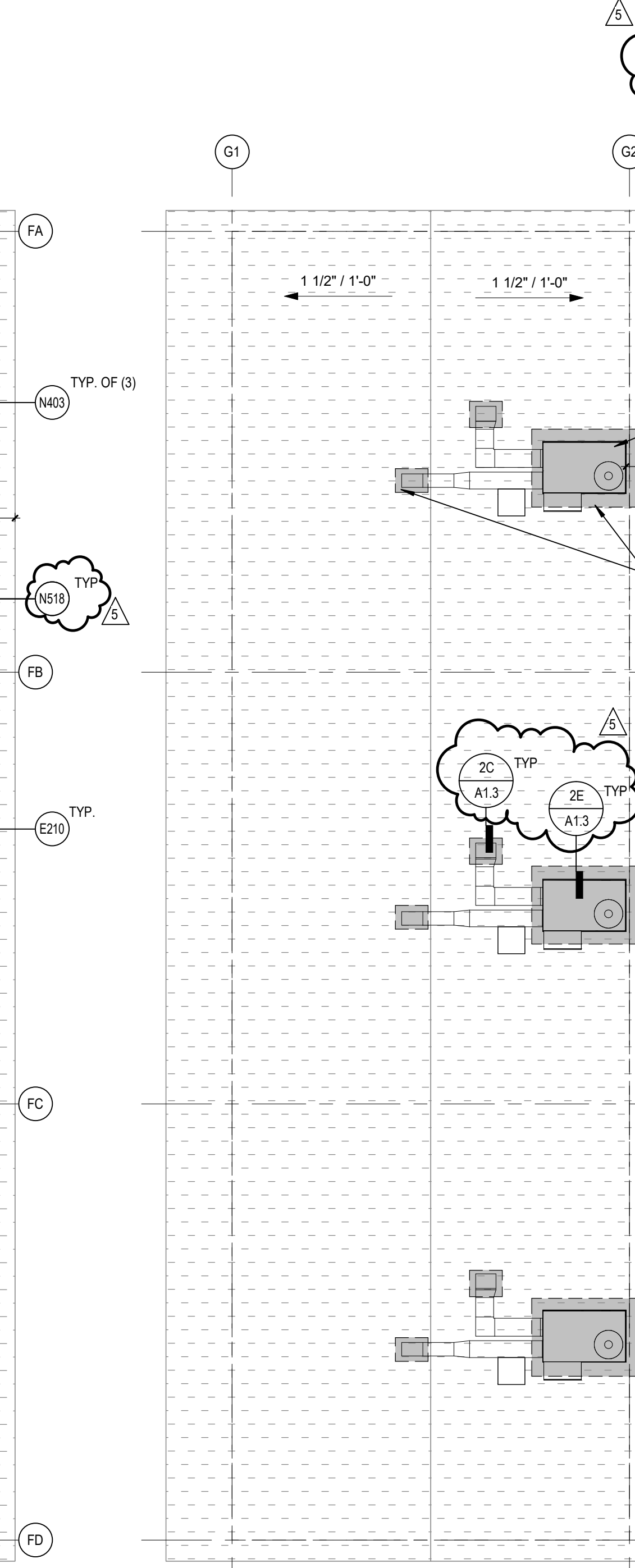
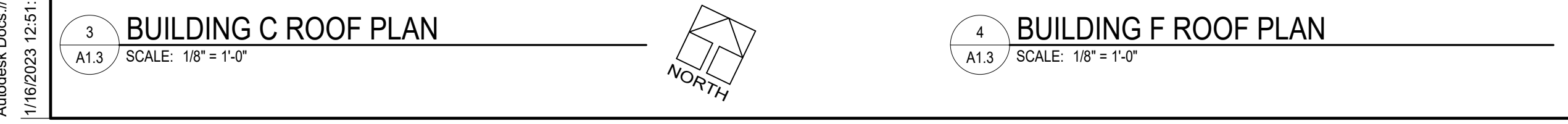
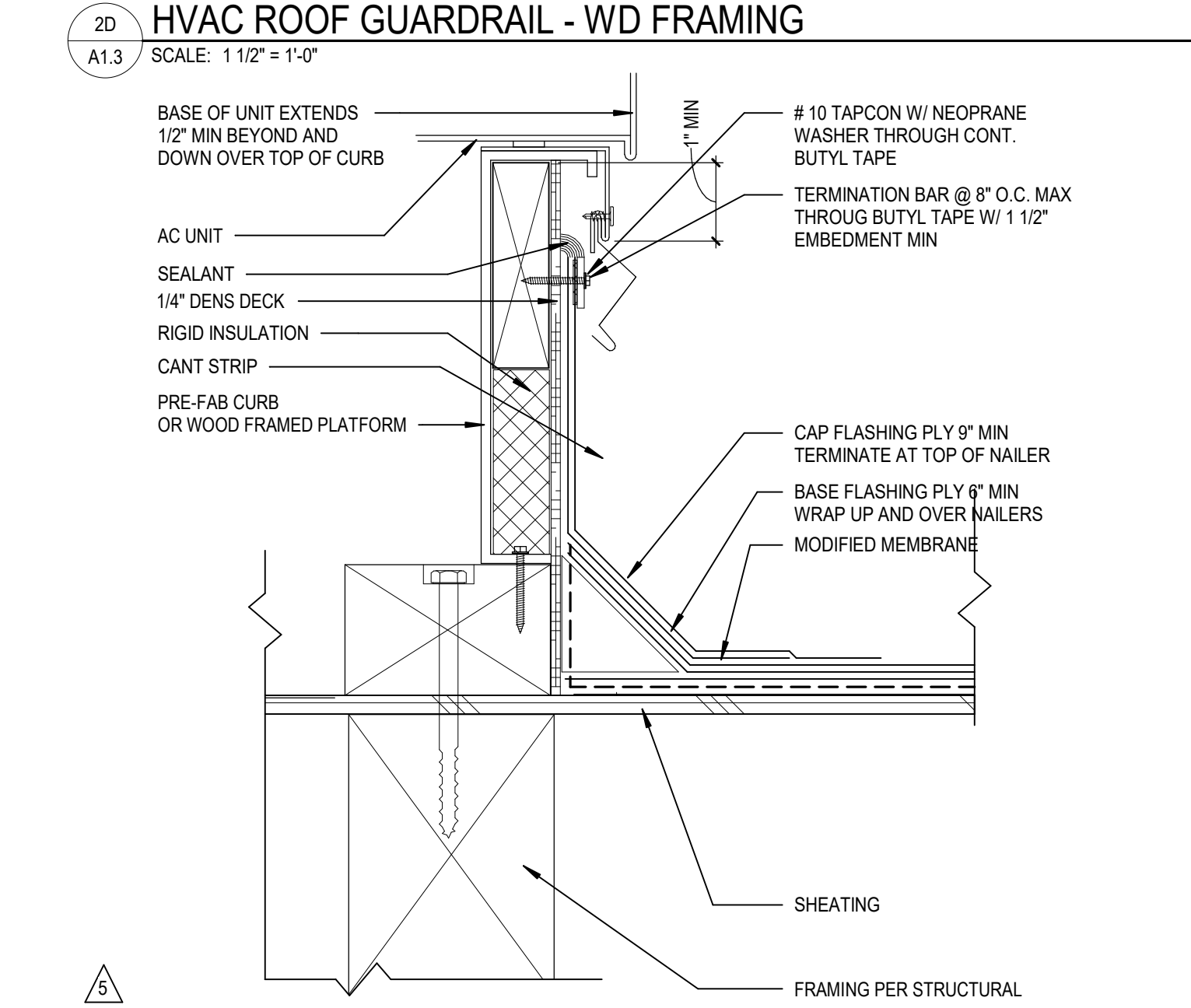
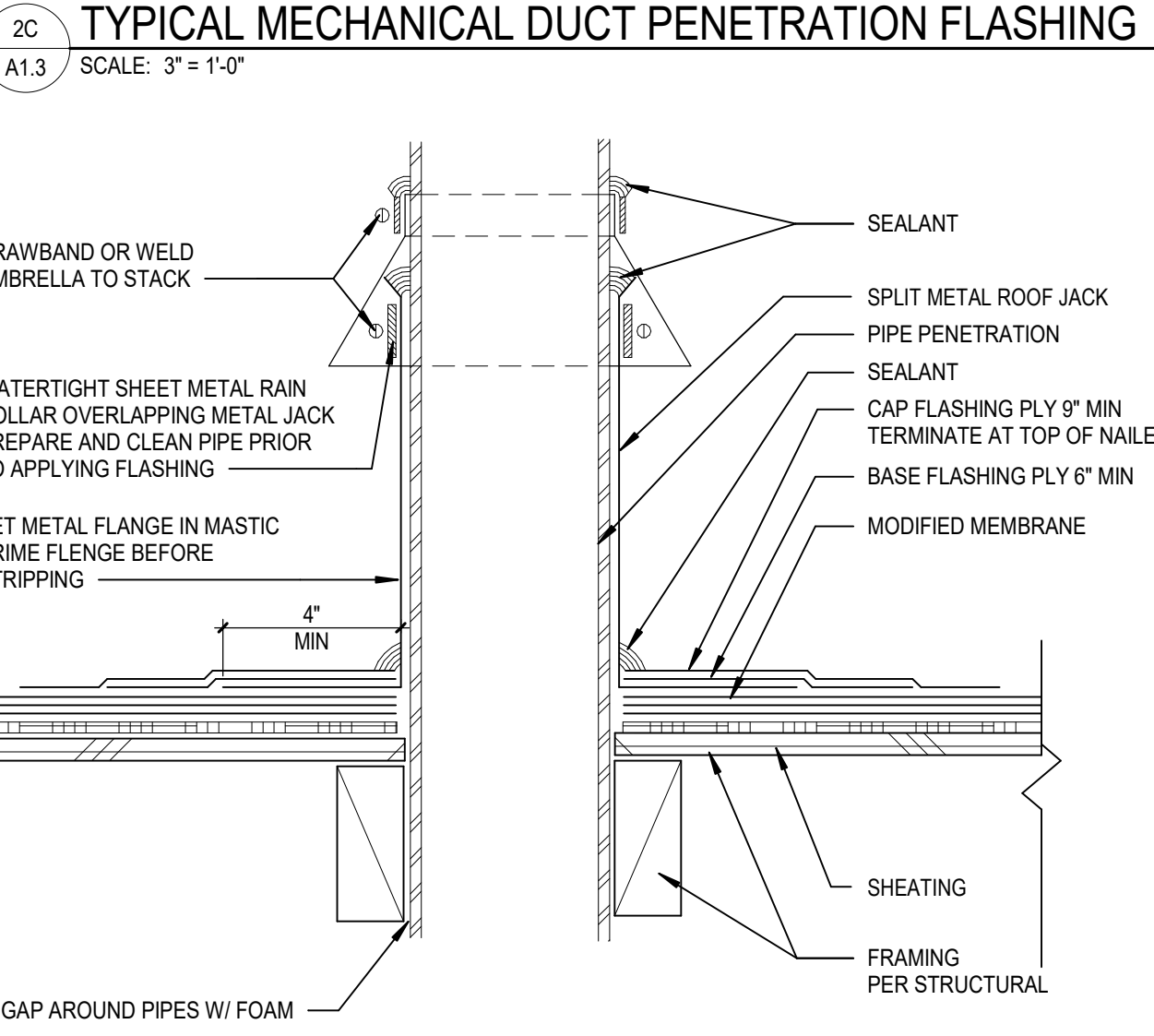
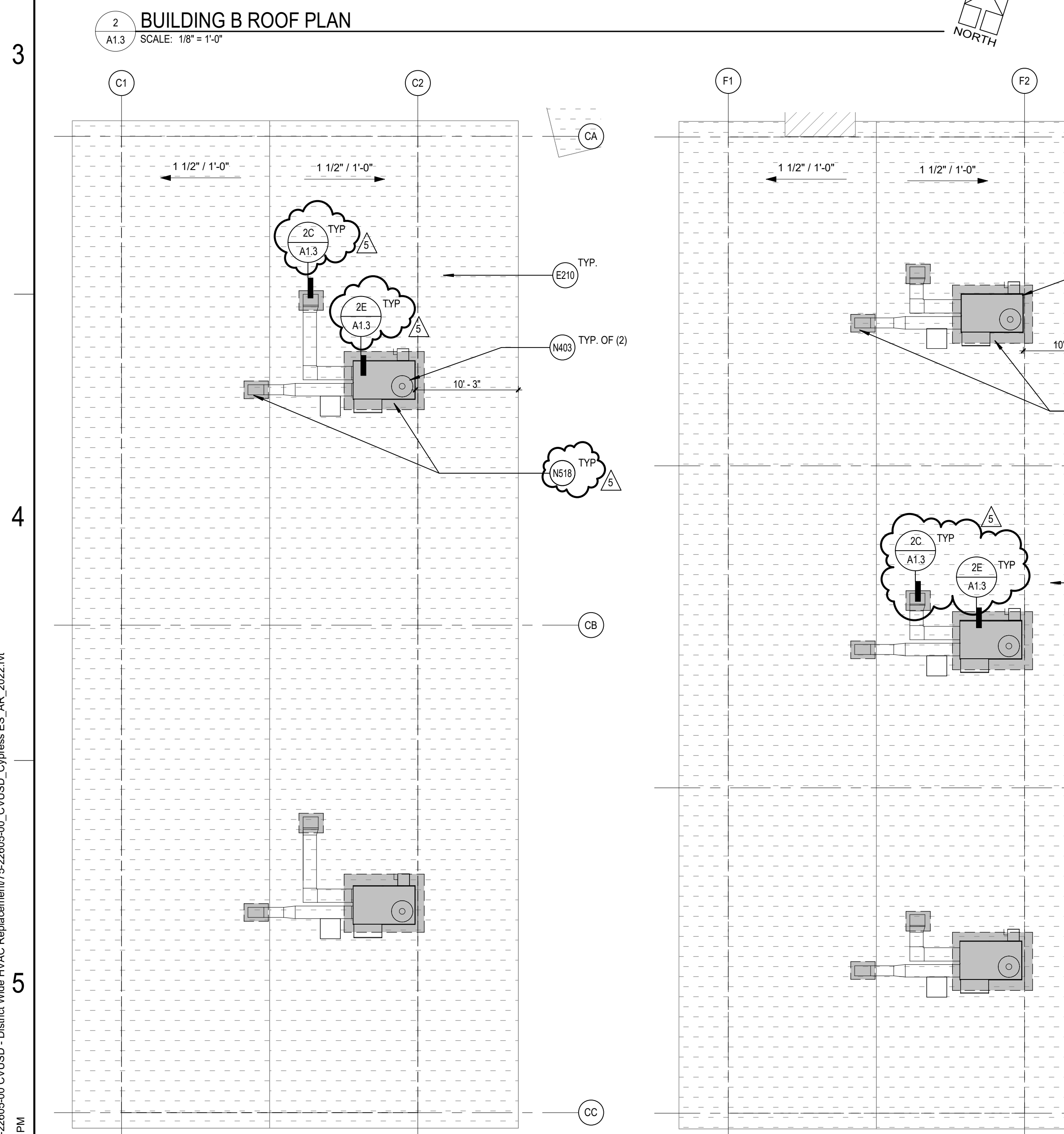
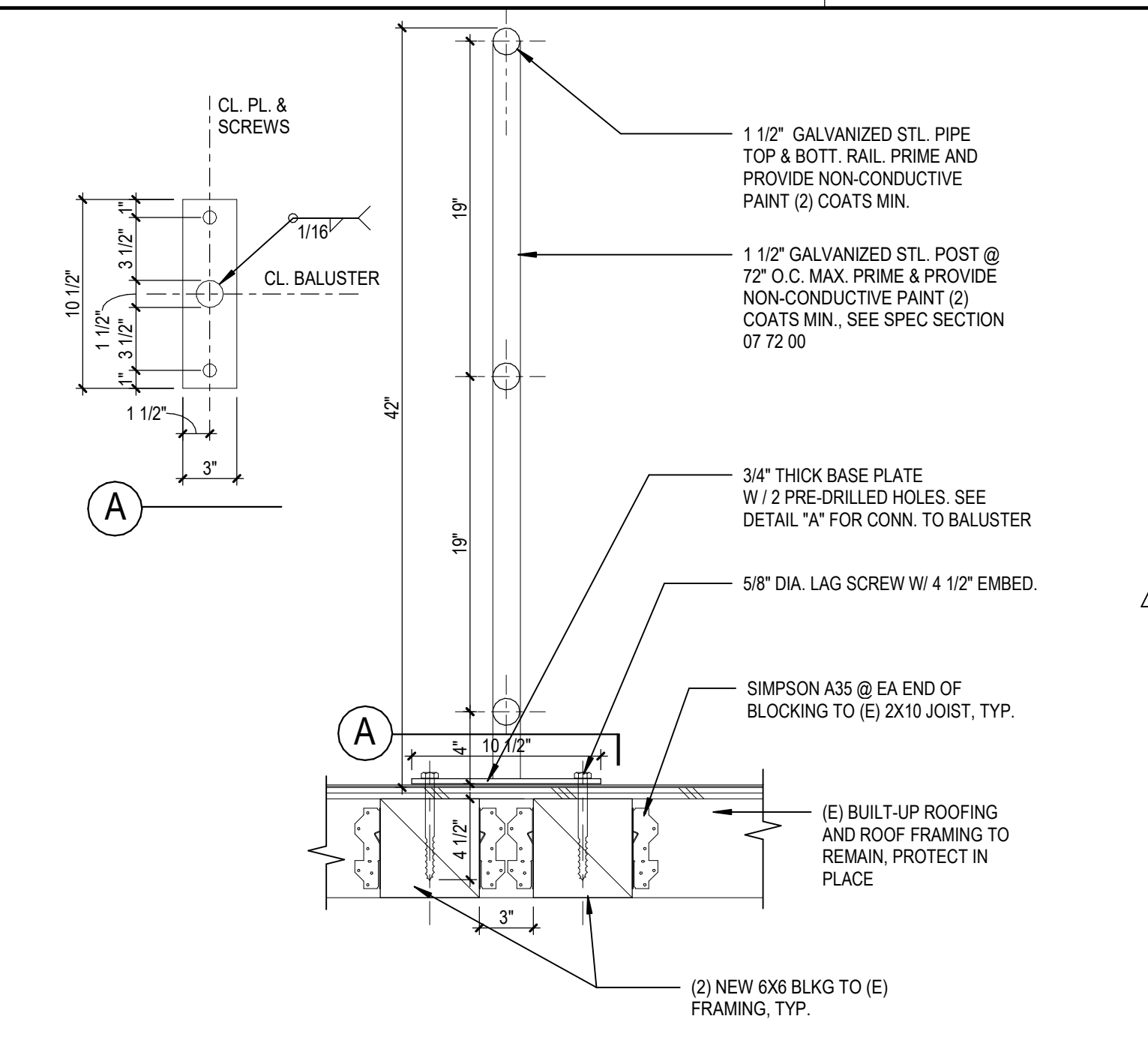
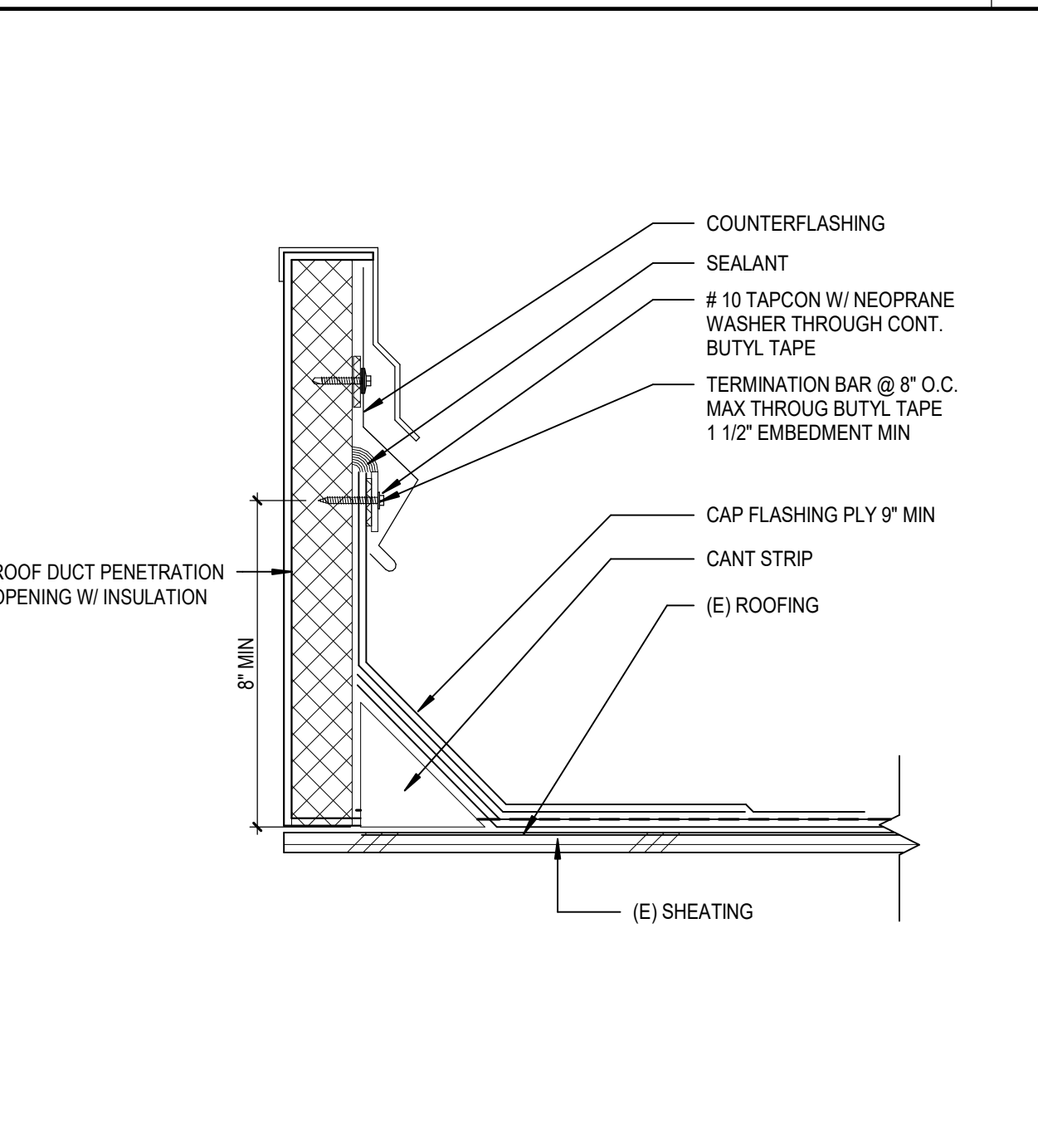
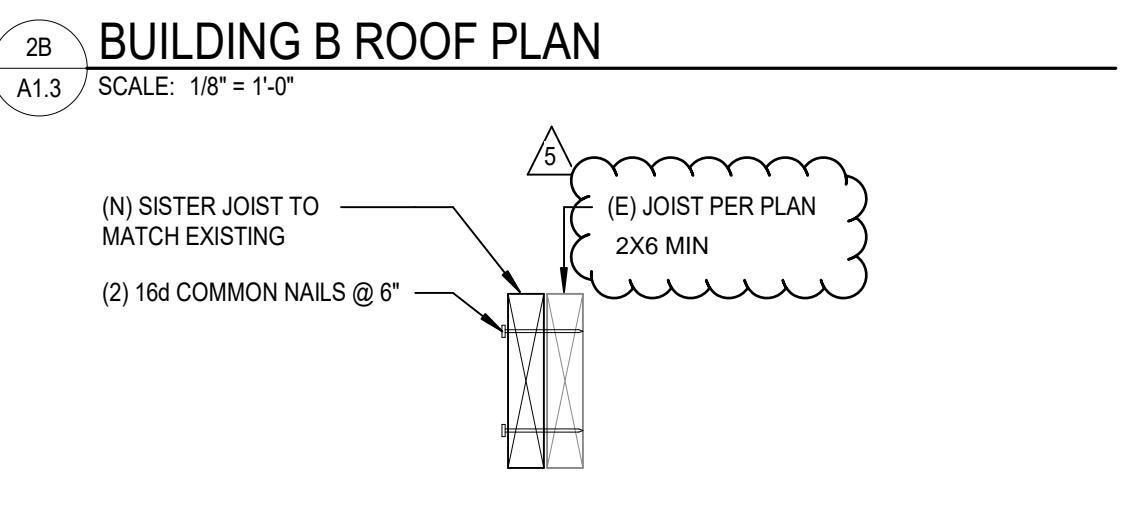
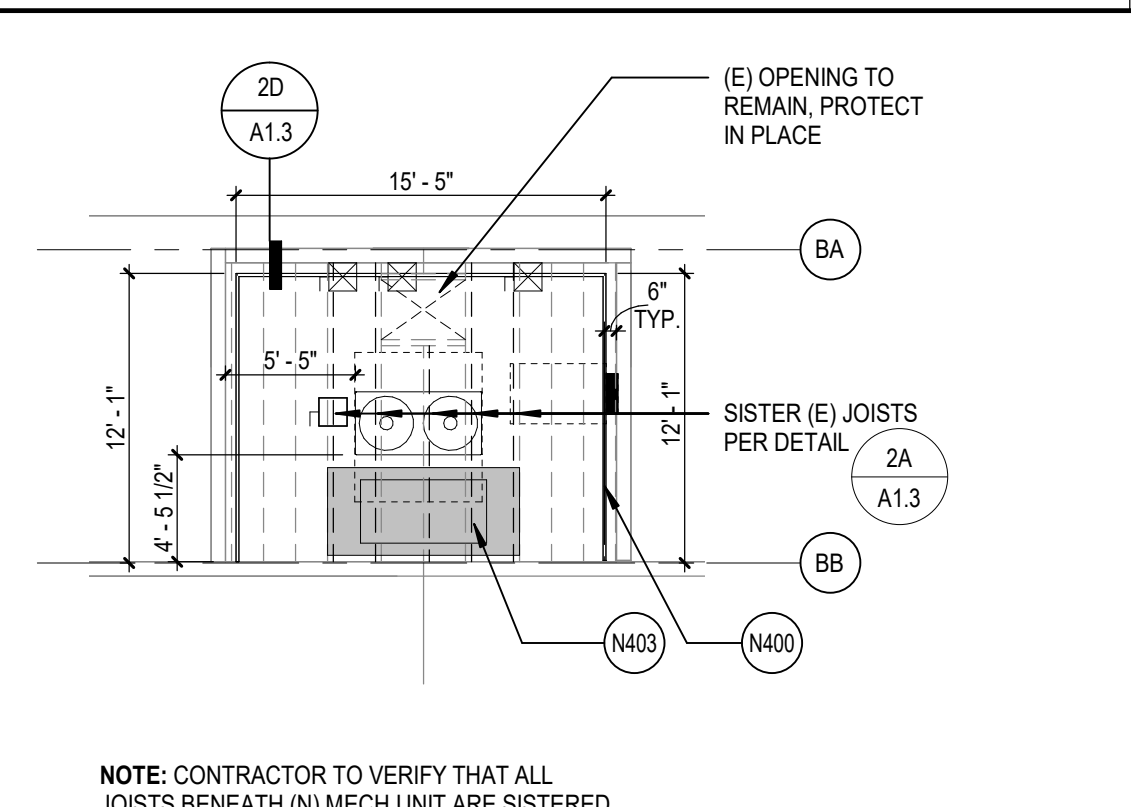
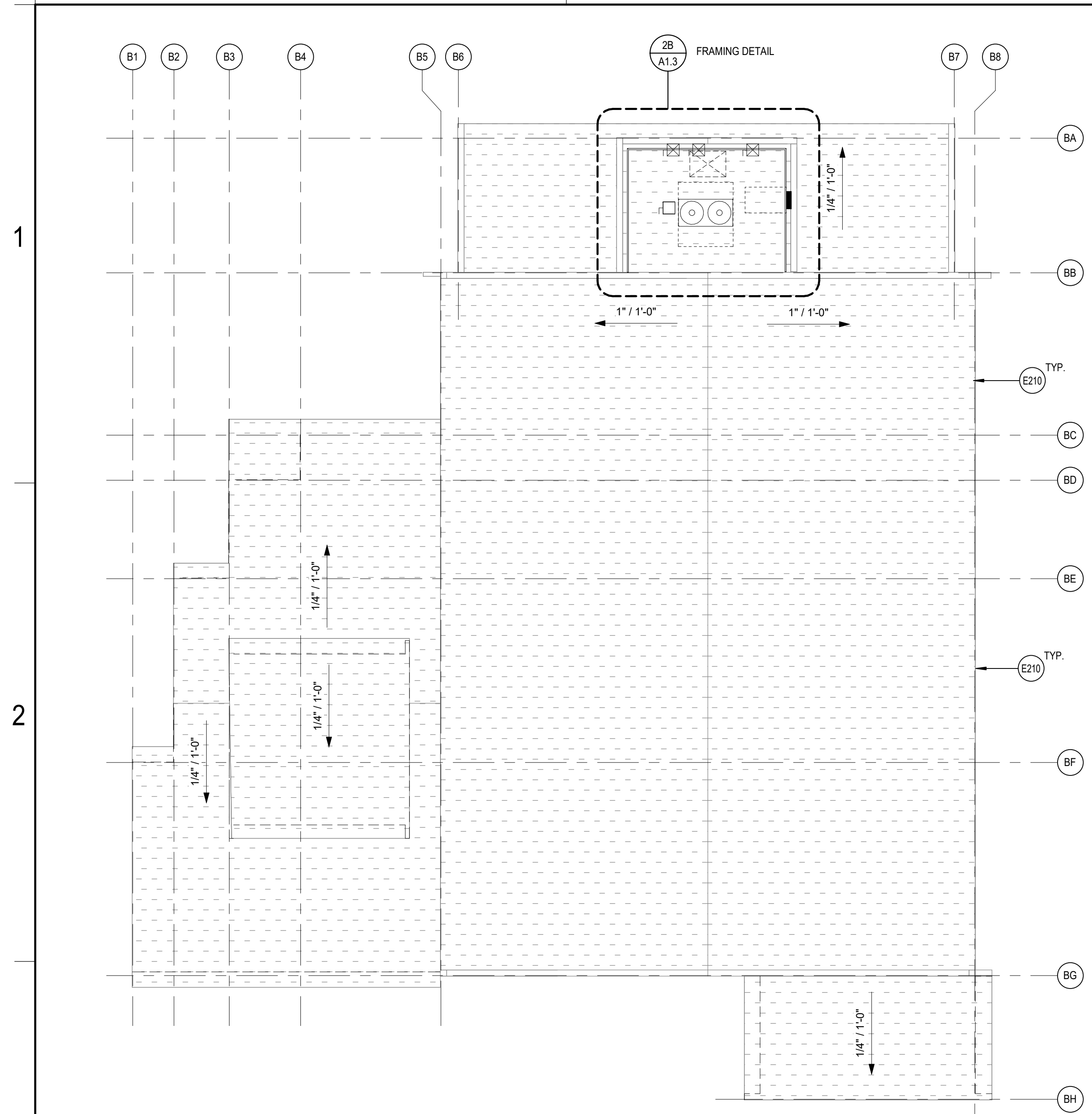


CYPRESS ELEMENTARY SCHOOL
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351 W. CYPRESS ST. COVINA, CA 91723

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REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-122230
DSA File #: 19-25
BUILDING HIJ FLOOR PLANS

A1.1B



REFERENCE KEYNOTES	
KEYNOTES	
E210	LINE OF (E) BLDG BELOW SHOWN DASHED.
N400	NEW FREESTANDING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00 AND SET 20A1.3
N403	(N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
(N)519	(N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

A. (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.

B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.

C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.

D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.

G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.

H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.

I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.

J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.

L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.

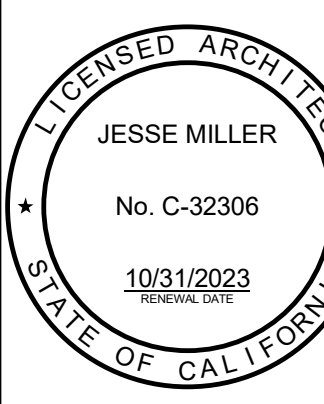
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.

O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.

P. NOT USED.

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0\"/>

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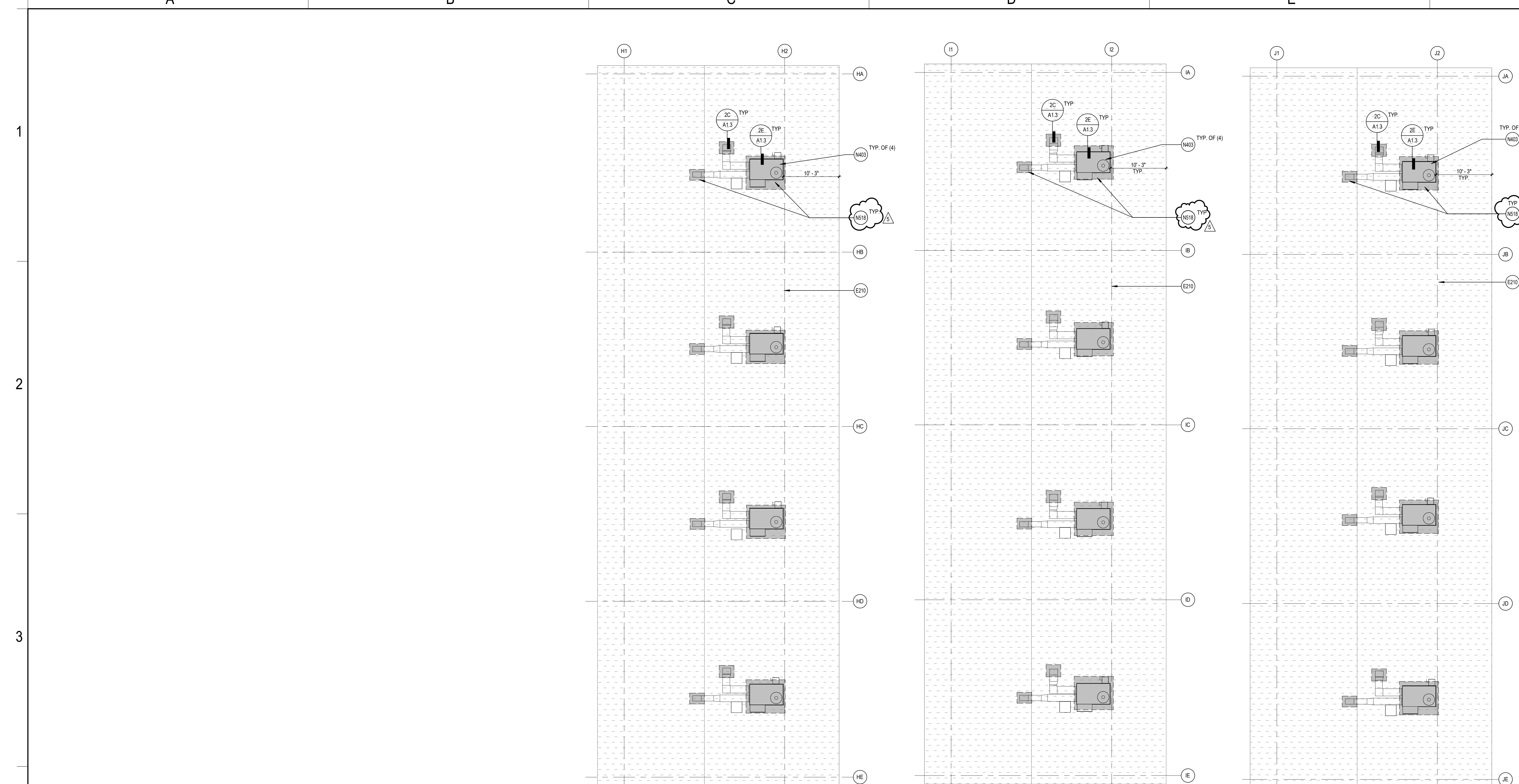


CYPRESS ELEMENTARY SCHOOL
 COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
 585 W. CYPRESS ST. COVINA, CA 91723

100% CONSTRUCTION DOCUMENTS
 05/05/2022
 REVISIONS
 5 1/13/2023

75-22605-00
 DSA A#03-122230
 DSA File #: 19-25
 BUILDING ABCFG
 ROOF PLANS

A1.3



2 BUILDING H ROOF PLAN
A1.3B / SCALE: 1/8" = 1'-0"

3 BUILDING I ROOF PLAN
A1.3B / SCALE: 1/8" = 1'-0"

1 BUILDING J ROOF PLAN
A1.3B / SCALE: 1/8" = 1'-0"

KEYNOTES

E210 LINE OF (E) BLDG BELOW SHOWN DASHED
N403 IN MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
N518 (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

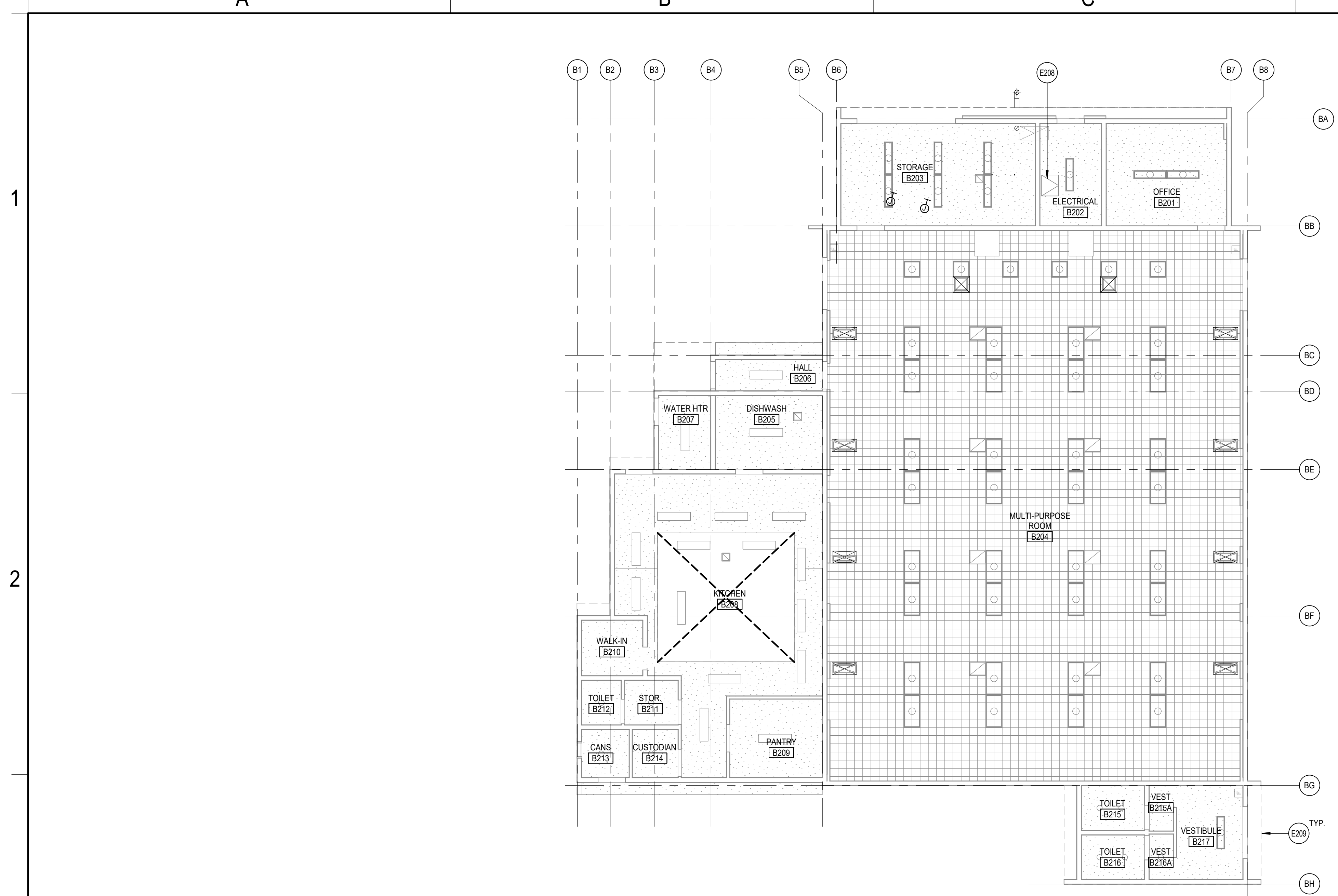


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351 W. CYPRESS ST. COVINA, CA 91723

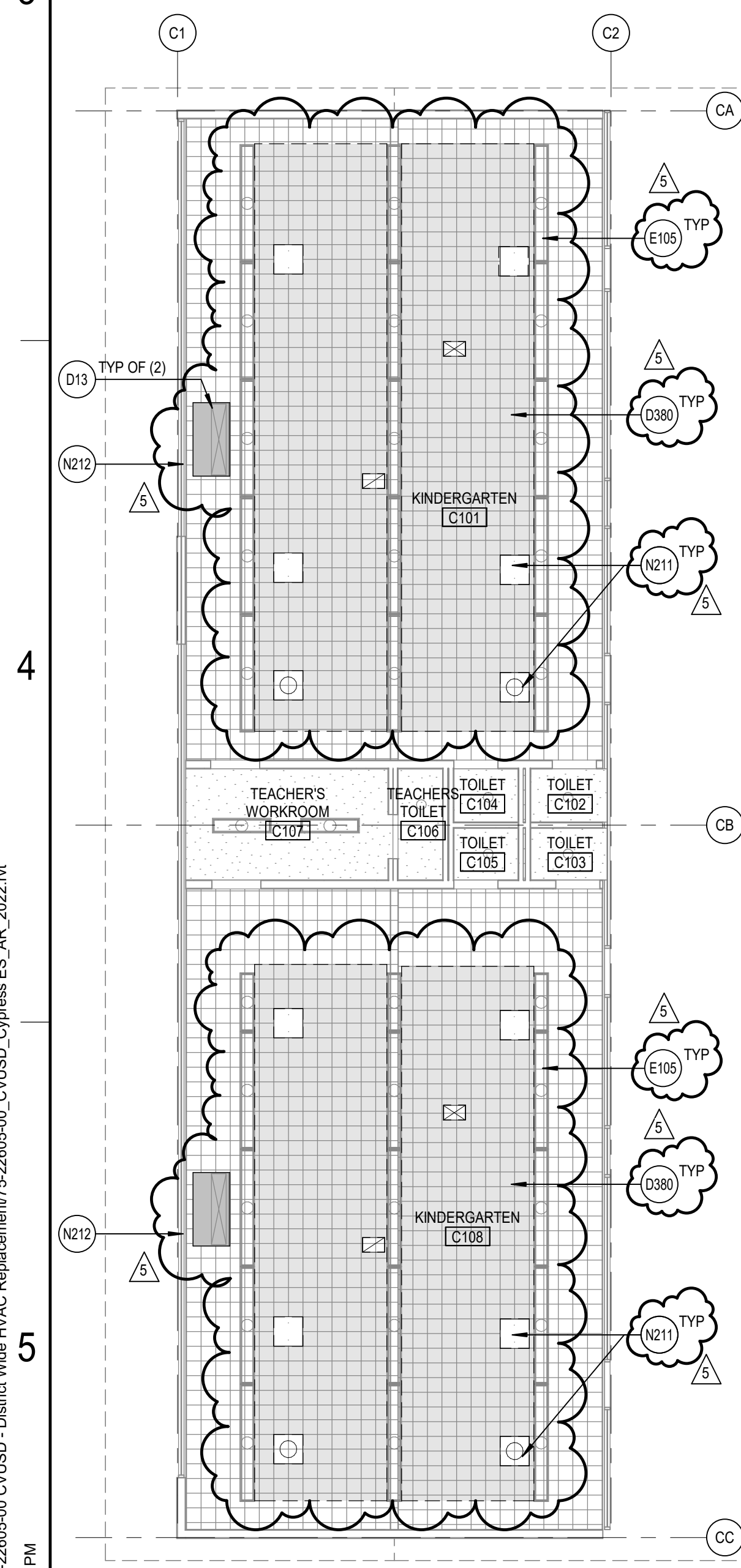
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75-22605-00
DSA A#03-122230
DSA File #: 19-25
**BUILDING HIJ
ROOF PLANS**

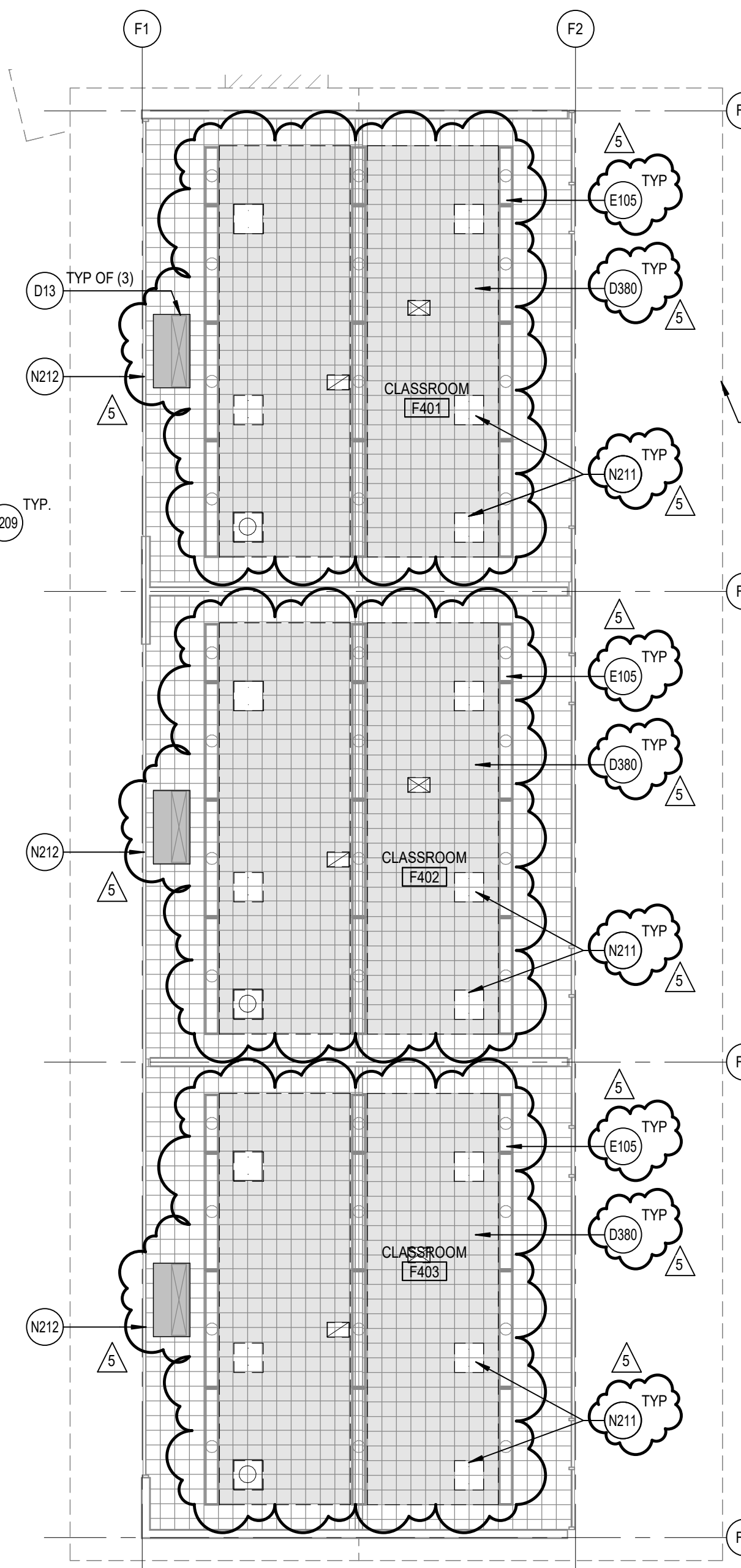
A1.3B



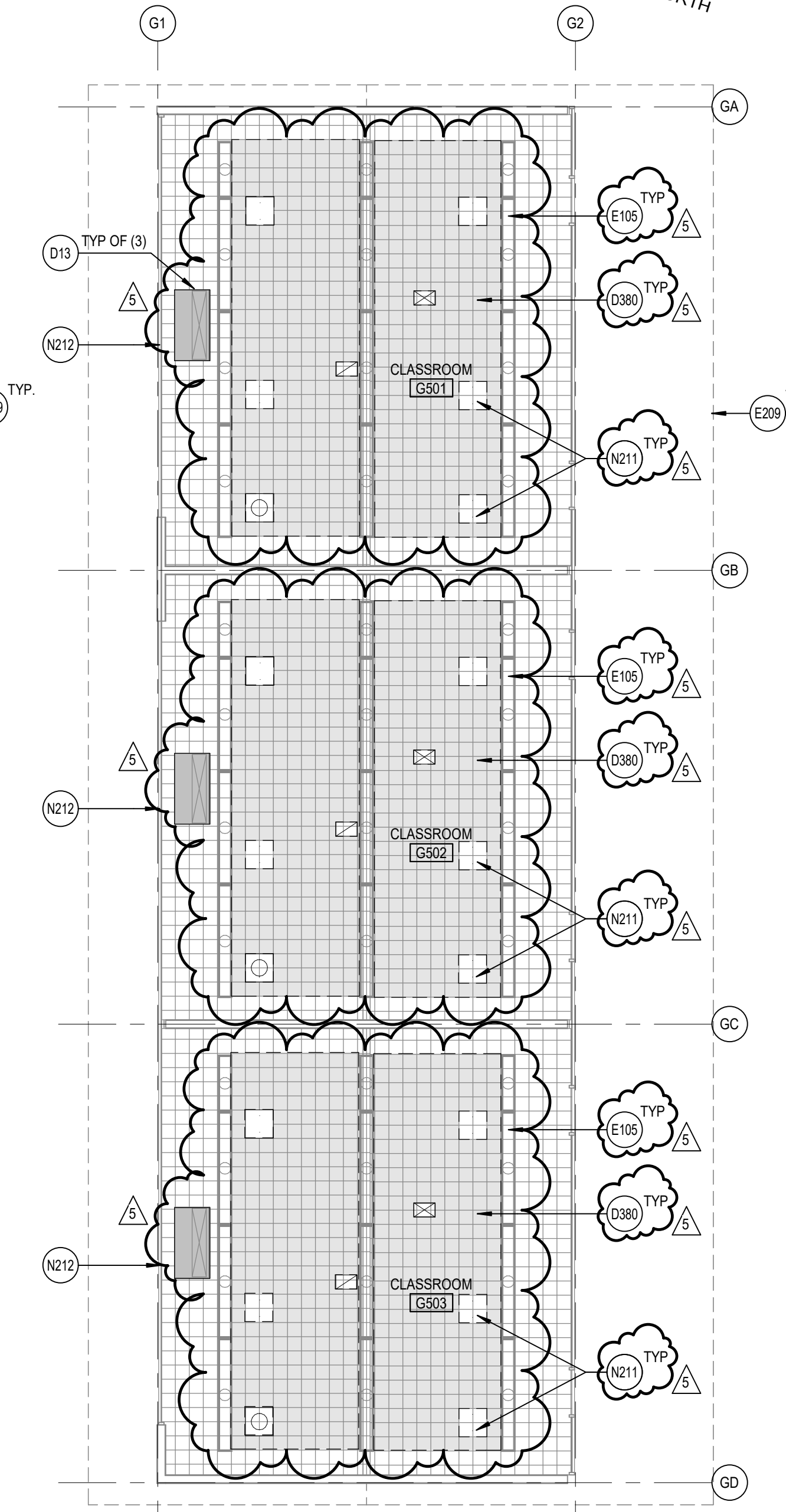
2 BUILDING B REFLECTED CEILING PLAN
A3.1 SCALE: 1/8" = 1'-0"



3 BUILDING C REFLECTED CEILING PLAN
A3.1 SCALE: 1/8" = 1'-0"



4 BUILDING F REFLECTED CEILING PLAN
A3.1 SCALE: 1/8" = 1'-0"



5 BUILDING G REFLECTED CEILING PLAN
A3.1 SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

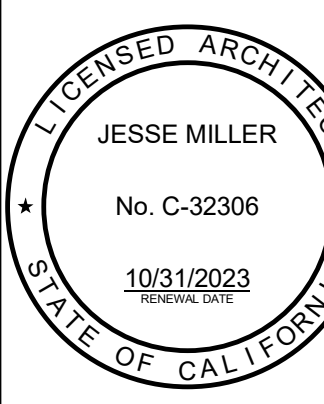
- KEYNOTES
- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
 - D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
 - E105 (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE
 - E209 (E) ACCESS DOOR TO REMAIN
 - E208 LINE OF (E) ROOF ABOVE SHOWN DASHED
 - N212 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES, REFER TO MECHANICAL DRAWINGS
 - E209 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
- a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

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 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BORDERS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
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 - P. NOT USED
 - Q. WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



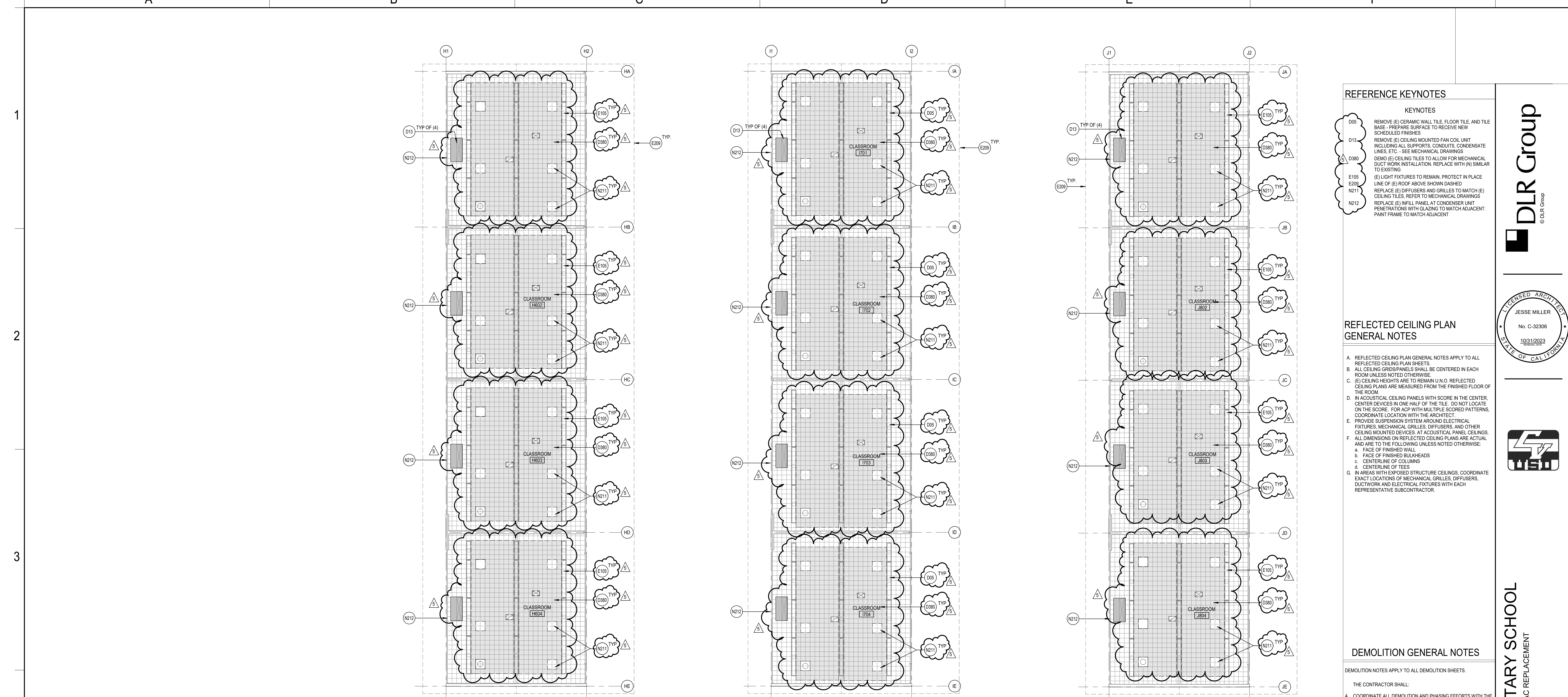
CYPRESS ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
381 W. CYPRESS ST. COVINA, CA 91723

100% CONSTRUCTION DOCUMENTS
05/05/2022
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5 1/13/2023

75-22605-00
DSA A#03-122230
DSA File #: 19-25
BUILDING ABCFG
REFLECTED CEILING PLANS

A3.1

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2 BUILDING H REFLECTED CEILING PLAN
A3.1B SCALE: 1/8" = 1'-0"

3 BUILDING I REFLECTED CEILING PLAN
A3.1B SCALE: 1/8" = 1'-0"

1 BUILDING J REFLECTED CEILING PLAN
A3.1B SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES	
KEYNOTES	
D05	REMOVE (E) CERAMIC WALL TILE, FLOOR TILE, AND TILE BASE. PREPARE SURFACE TO RECEIVE NEW SCHEDULED FINISHES.
D13	REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS.
D380	DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING.
E105	(E) LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE.
E209	LINE OF (E) ROOF ABOVE SHOWN DASHED.
N211	REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS.
N212	REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

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 - CENTERLINE OF COLUMNS
 - CENTERLINE OF TEES
 - IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

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 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
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DLR Group
© DLR Group

ARCHITECT
JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

USG

CYPRESS ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
381 W. CYPRESS ST. COVINA, CA 91723

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**BUILDING H/J
REFLECTED
CEILING PLANS**

A3.1B

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A

B

C

D

E

F

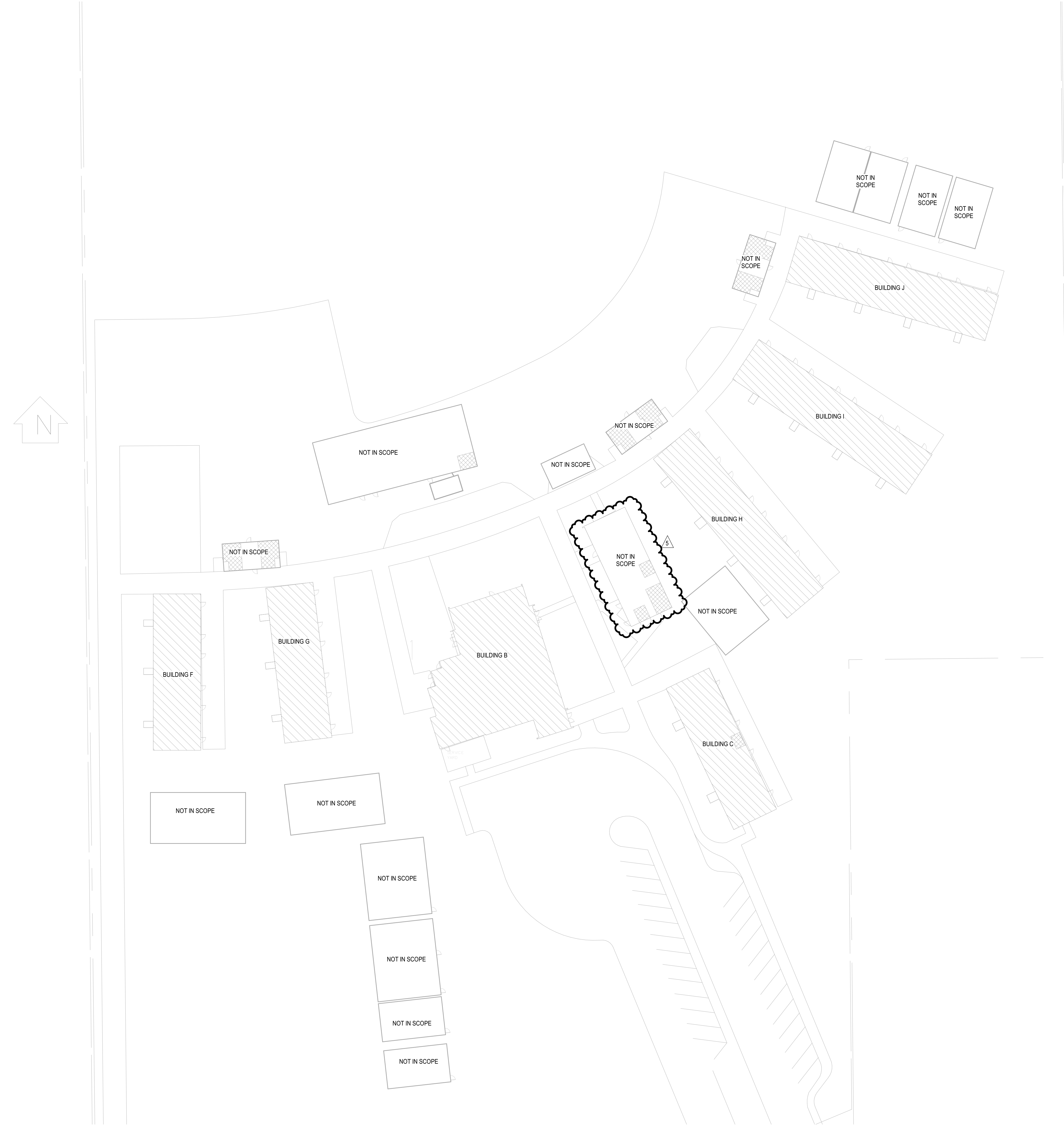
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5



GENERAL NOTES

A FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING M0.1

SITE LEGEND

- EXISTING BUILDING NOT IN SCOPE
- EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
- (E) RESTROOMS - NOT IN SCOPE



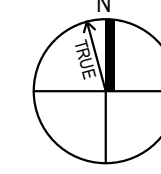
Cypress Elementary School
 COVINA VALLEY USD
 581 CYPRESS ST., COVINA, CA 91723

DSA Submitted Set
 1/13/2023
 REVISIONS
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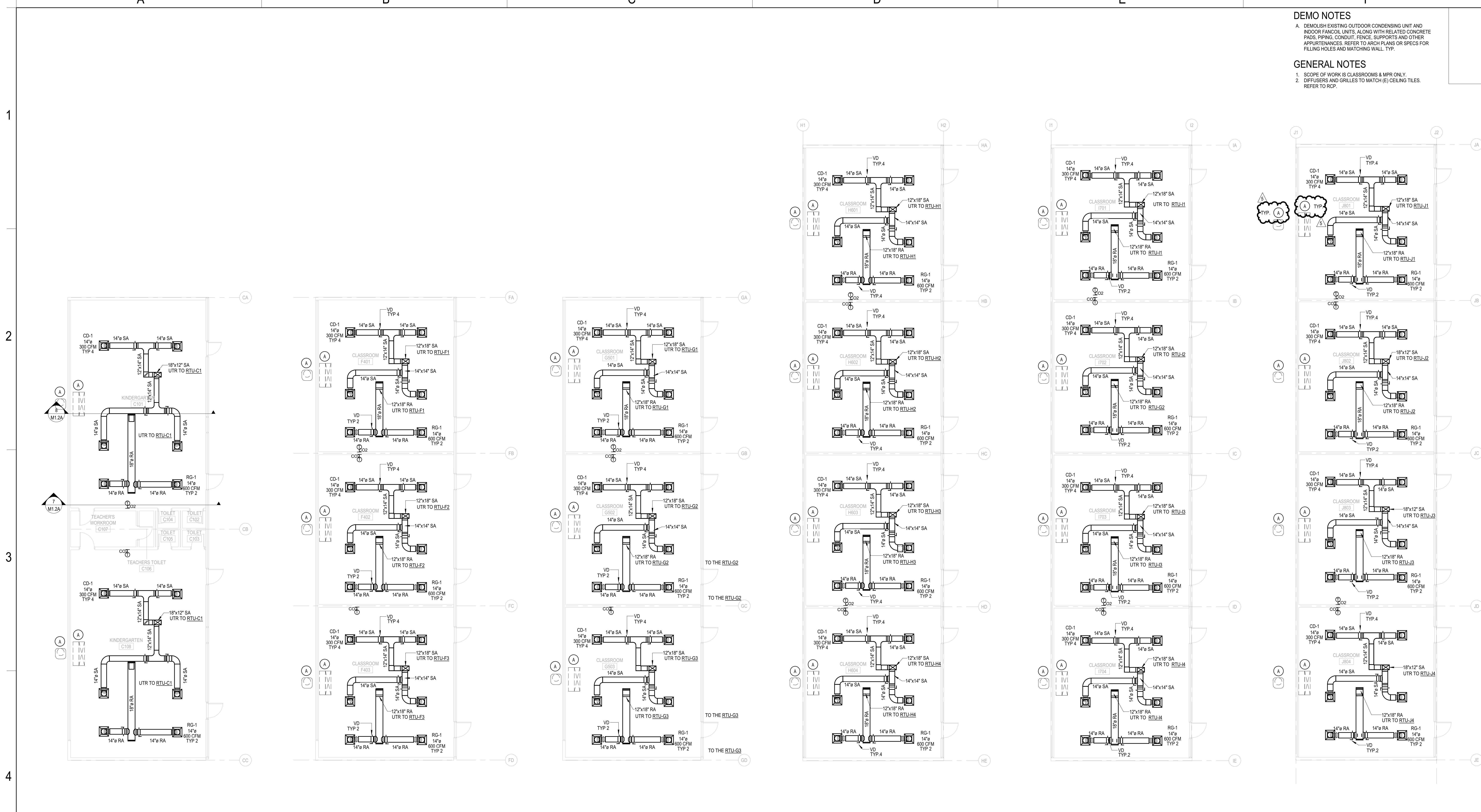
OVERALL MECHANICAL SITE PLANS

M1.1



OVERALL MECHANICAL FLOOR PLANS
 SCALE: 1" = 30'-0"

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DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
 2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.

1 **BUILDING C MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"

2 **BUILDING F MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"

3 **BUILDING G MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"

4 **BUILDING H MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"

5 **BUILDING I MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"

6 **BUILDING J MECHANICAL FLOOR PLAN**
 M1.1A SCALE: 1/8" = 1'-0"



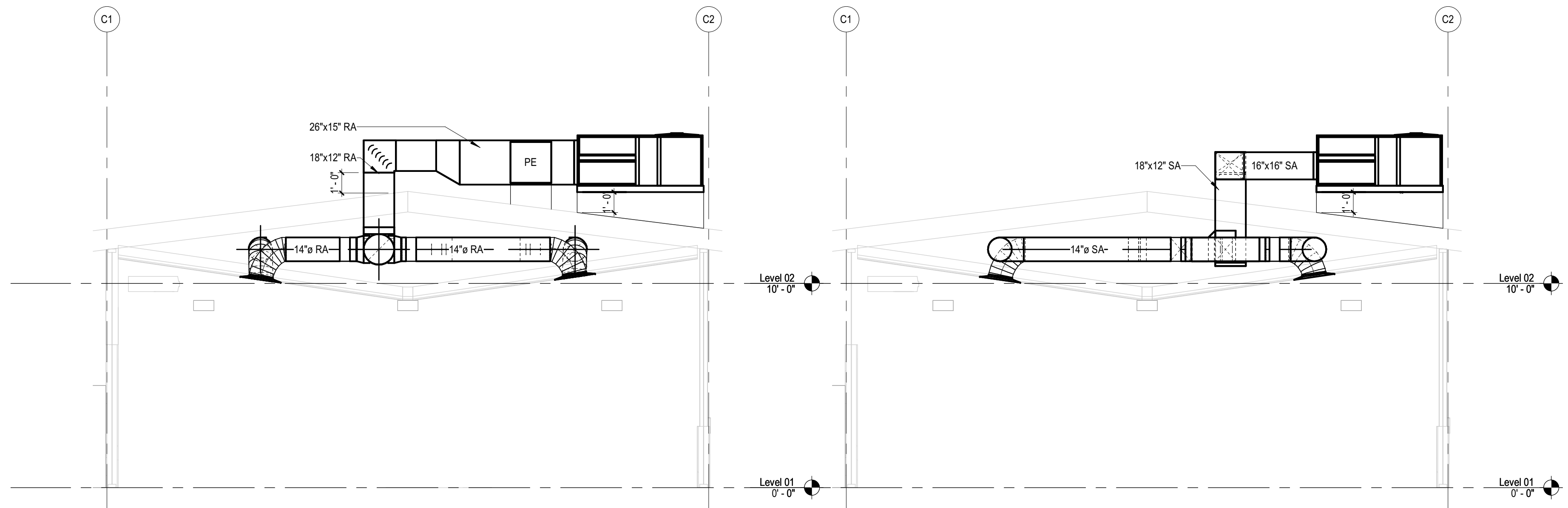
Cypress Elementary School
 COVINA VALLEY USD
 381 CYPRESS ST. COVINA, CA 91723

DSA Submitted Set
 1/13/2023
 REVISIONS
 5 1/13/2023

75-22605-00
 MECHANICAL FLOOR PLANS

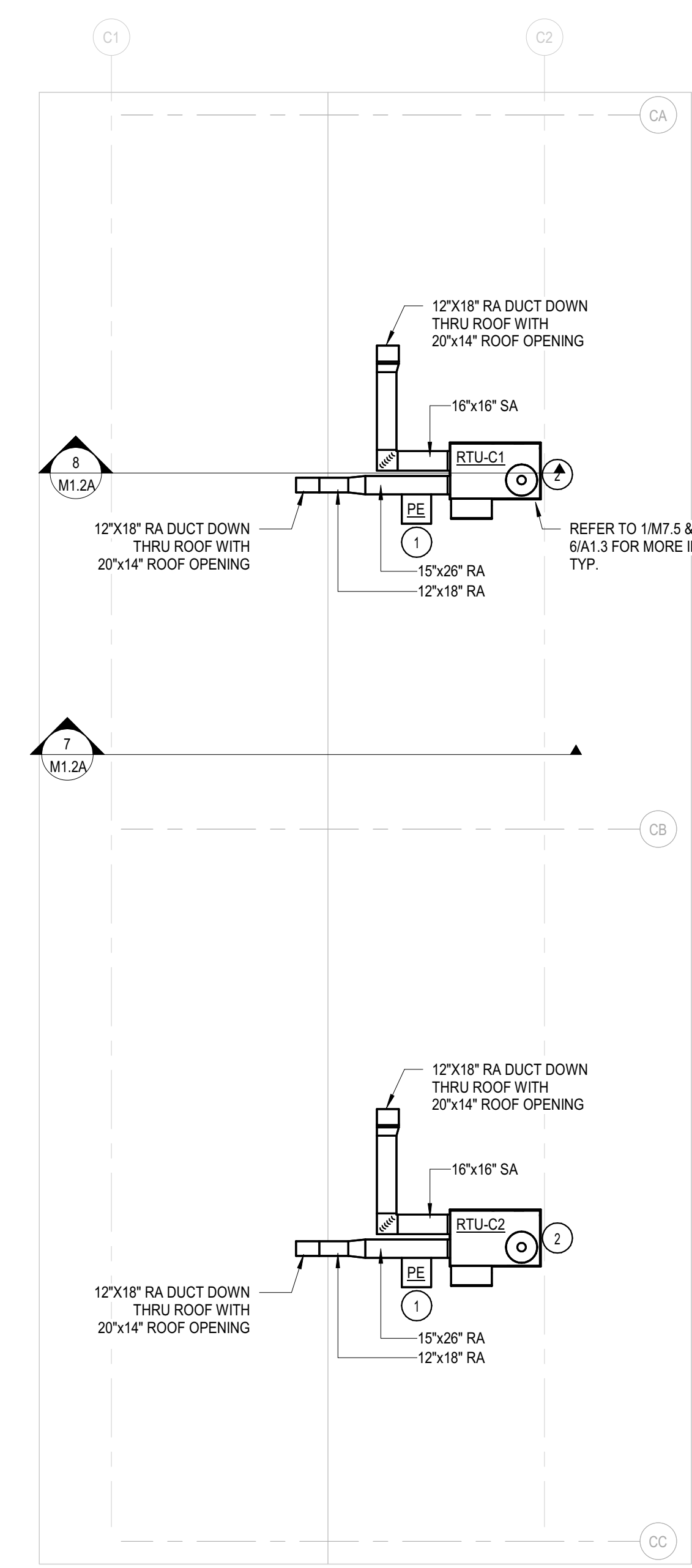
M1.1A

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES MEP_2023.rvt
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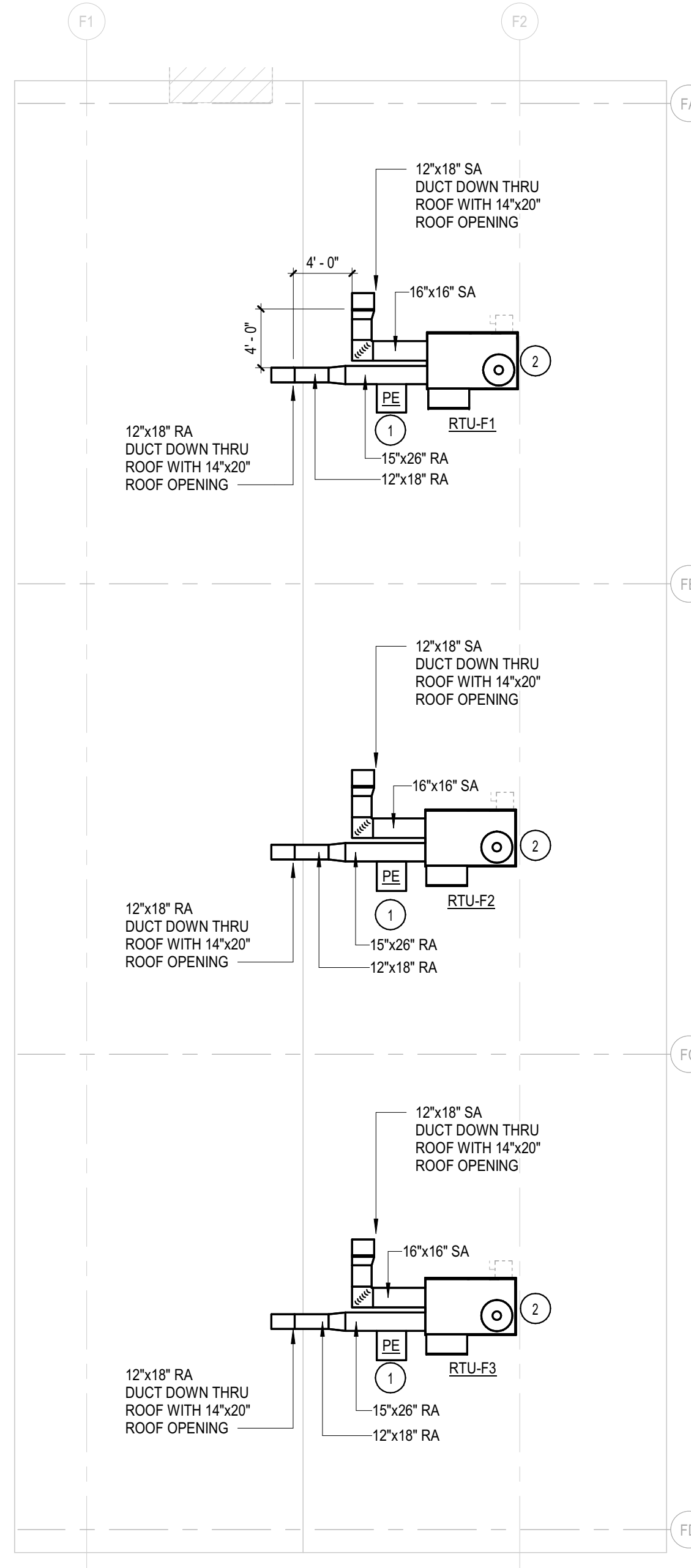


7 BUILDING SECTION 1
M1.2A SCALE: 1/4" = 1'-0"

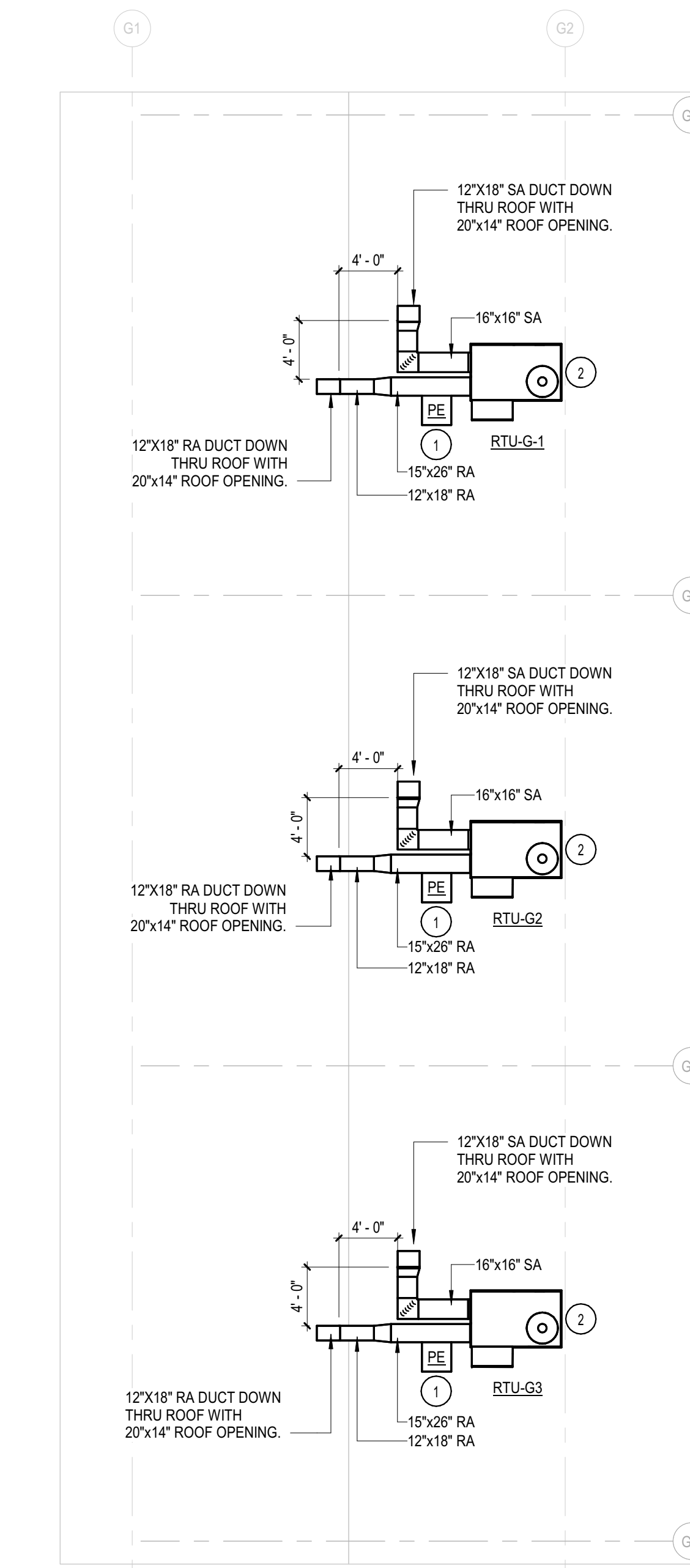
8 BUILDING SECTION 2
M1.2A SCALE: 1/4" = 1'-0"



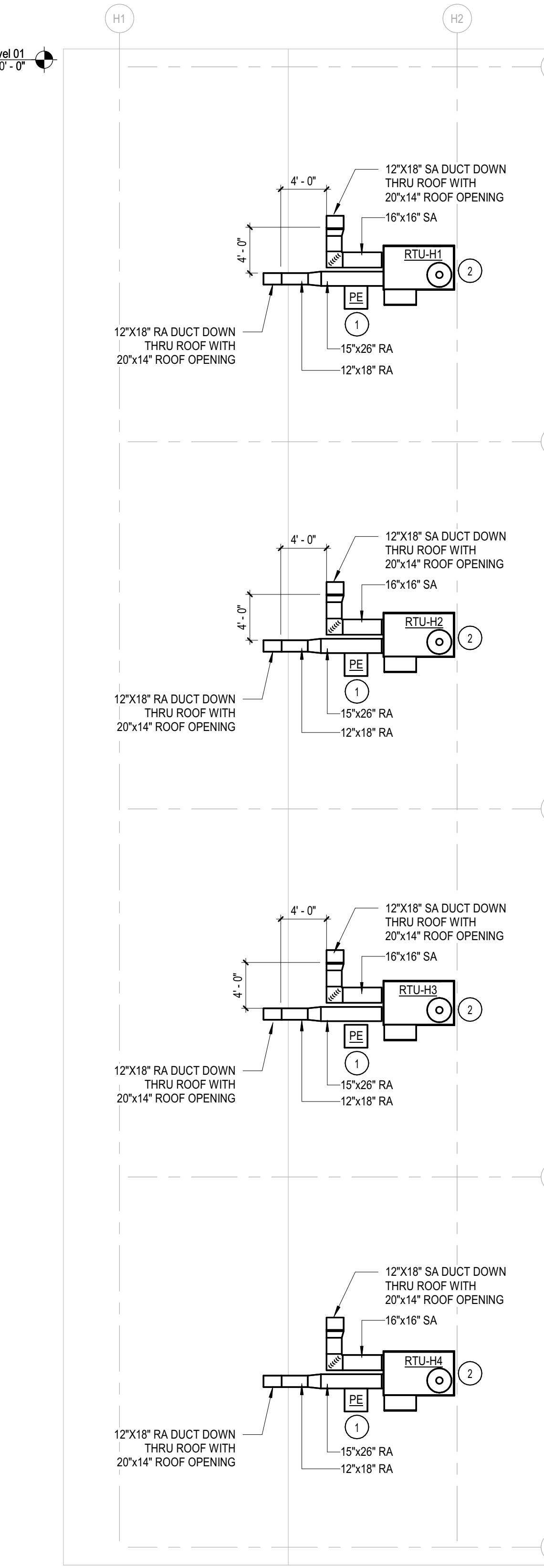
1 BUILDING C MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



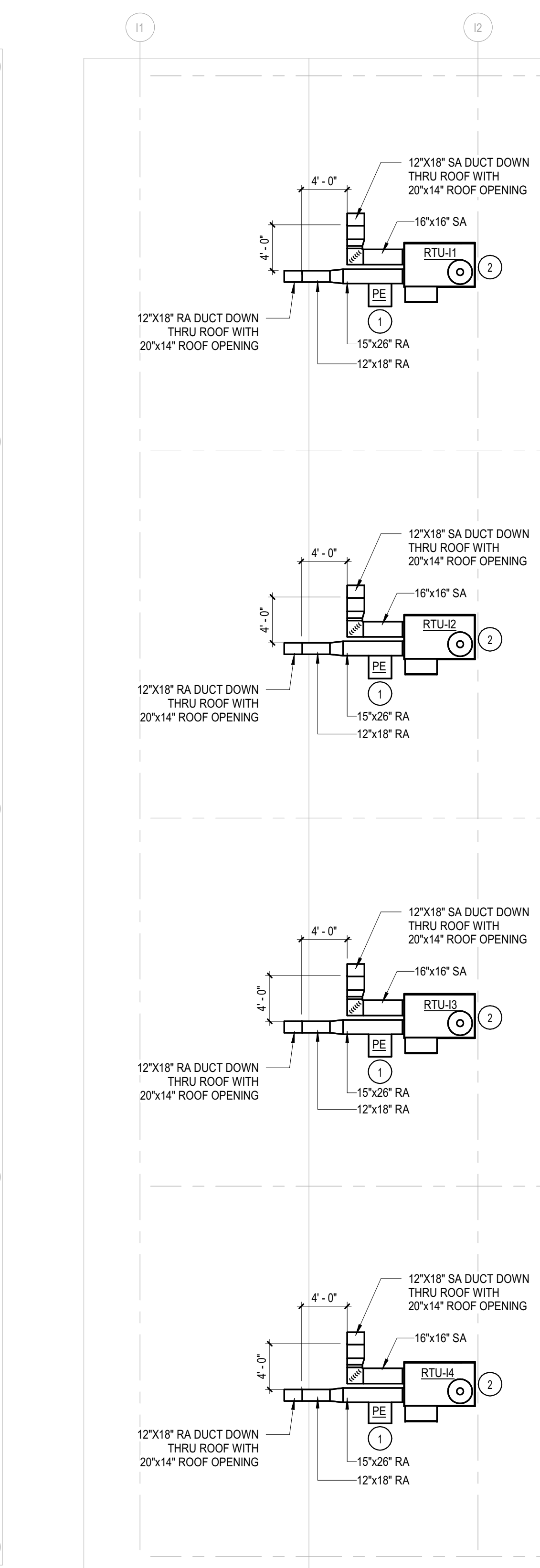
2 BUILDING F MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



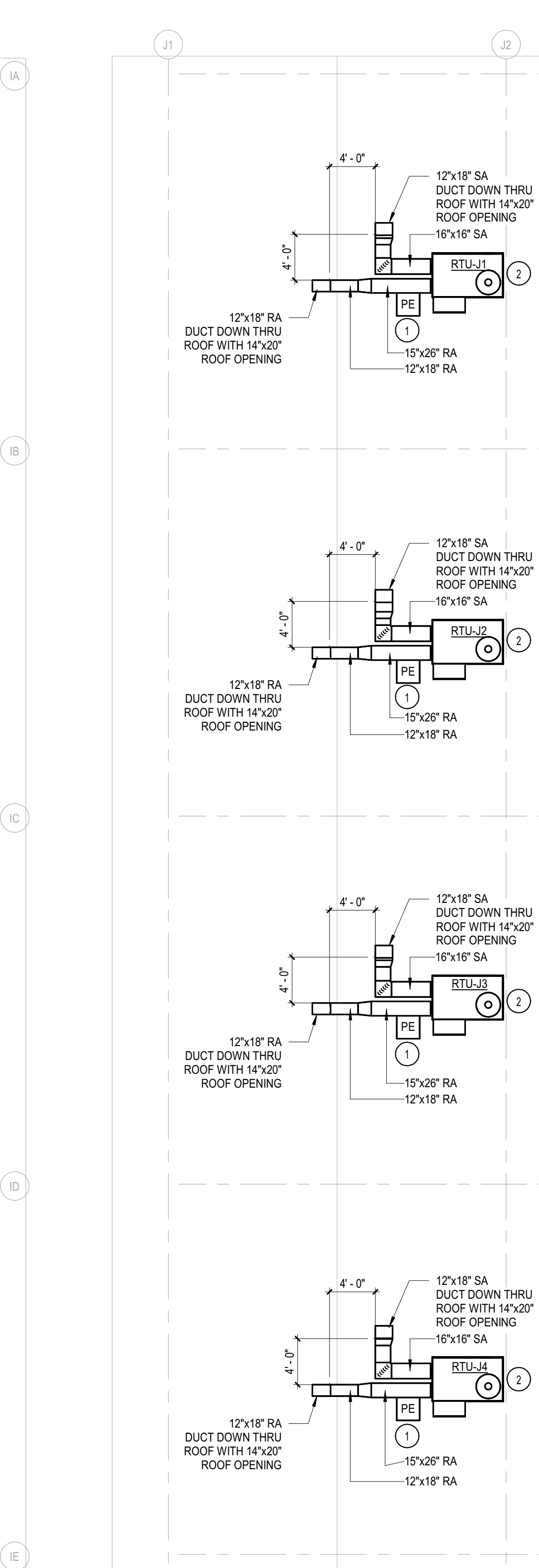
3 BUILDING G MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



4 BUILDING H MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



5 BUILDING I MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



6 BUILDING J MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"

GENERAL NOTES

- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
- NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
- PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.



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ROOF PLANS

M1.2A

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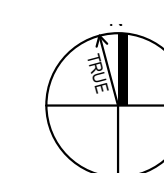
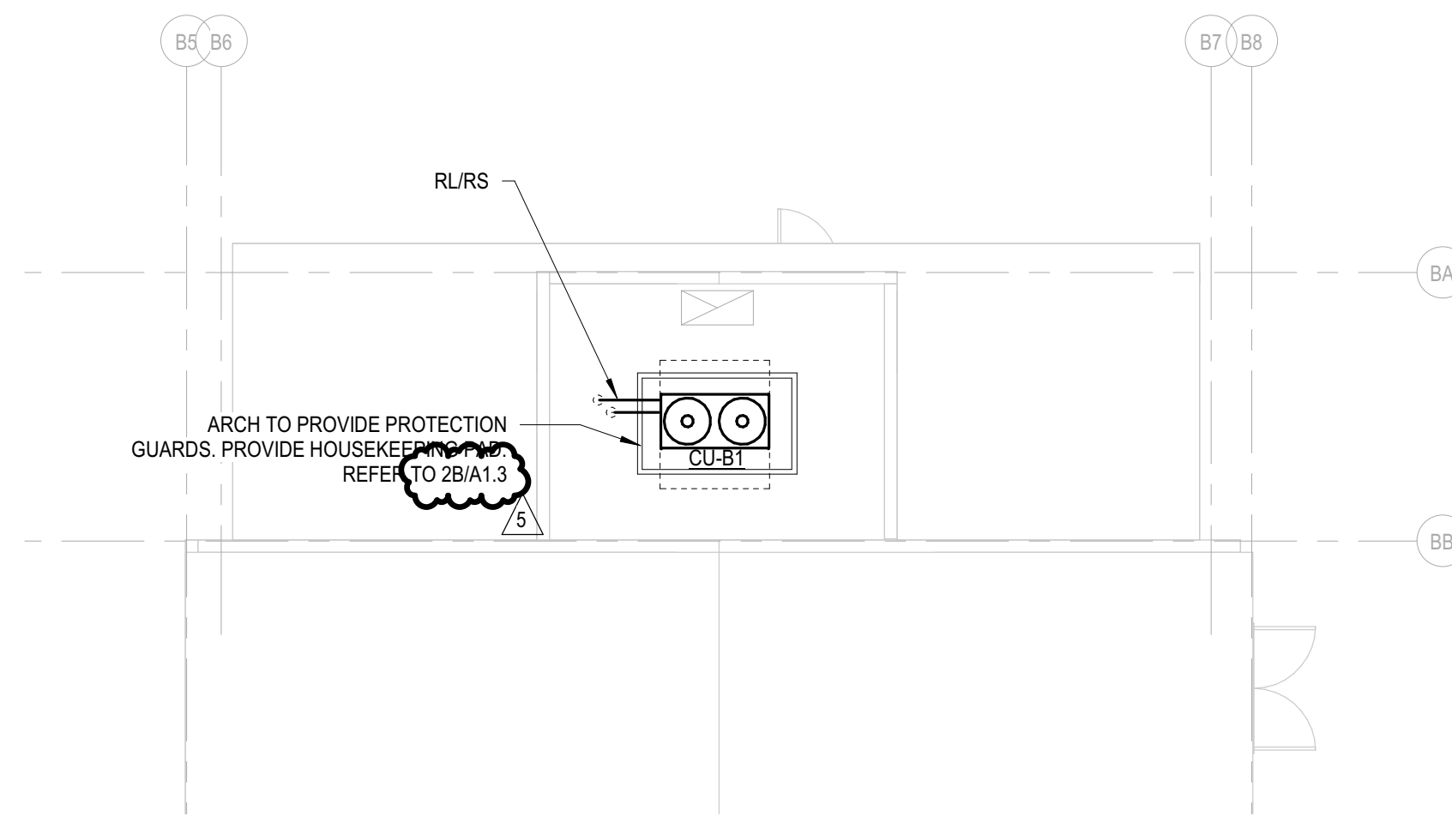
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LEVEL 02 - BUILDING B - ROOF MECHANICAL PLAN

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



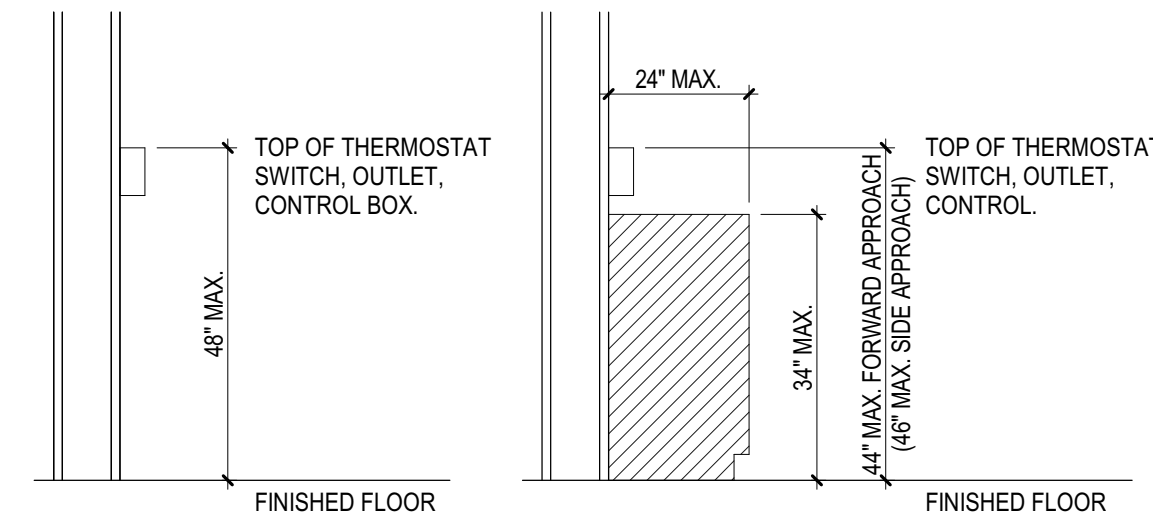
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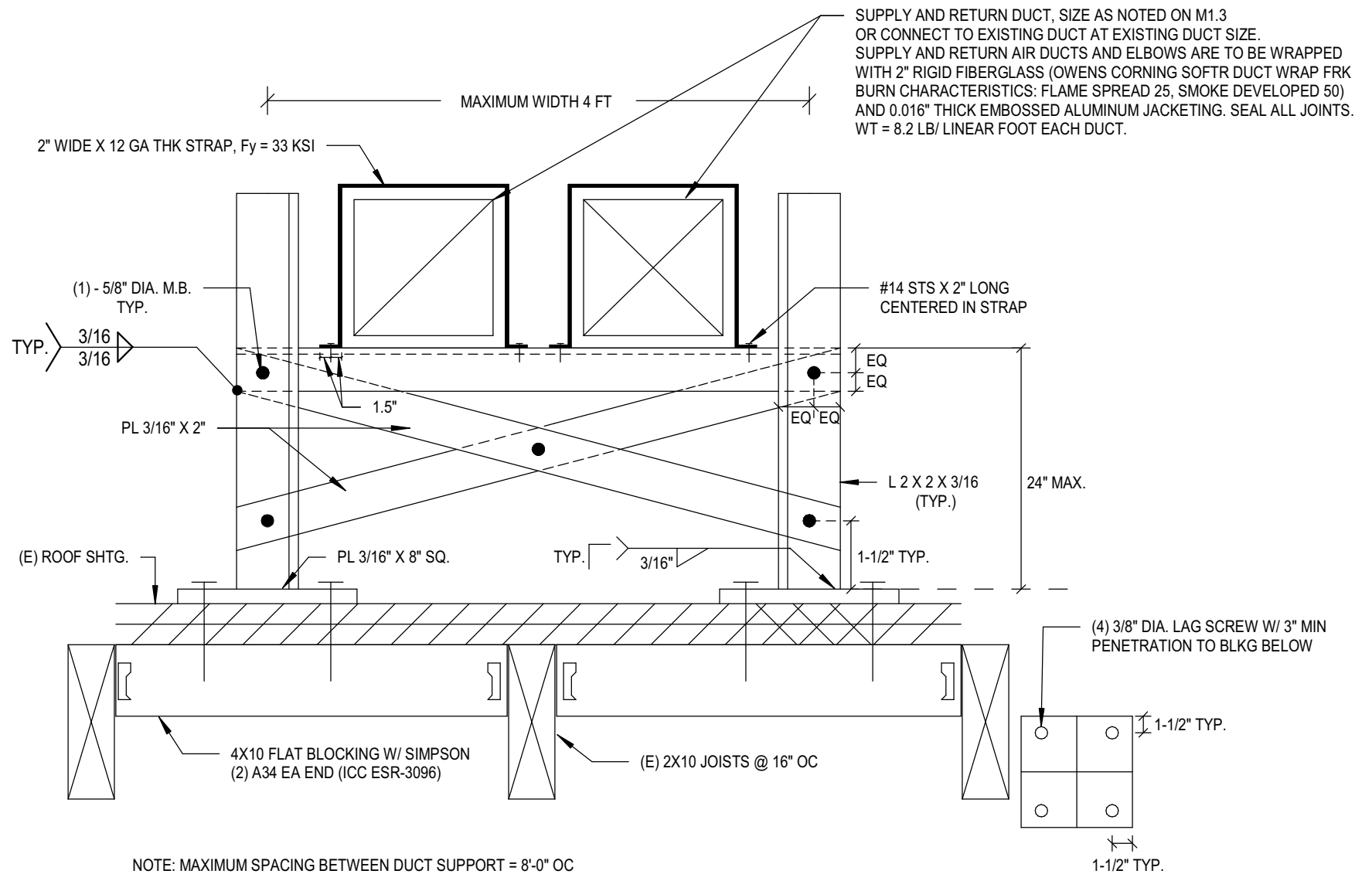
75-22605-00
 MECHANICAL
 ROOF PLANS

M1.2B

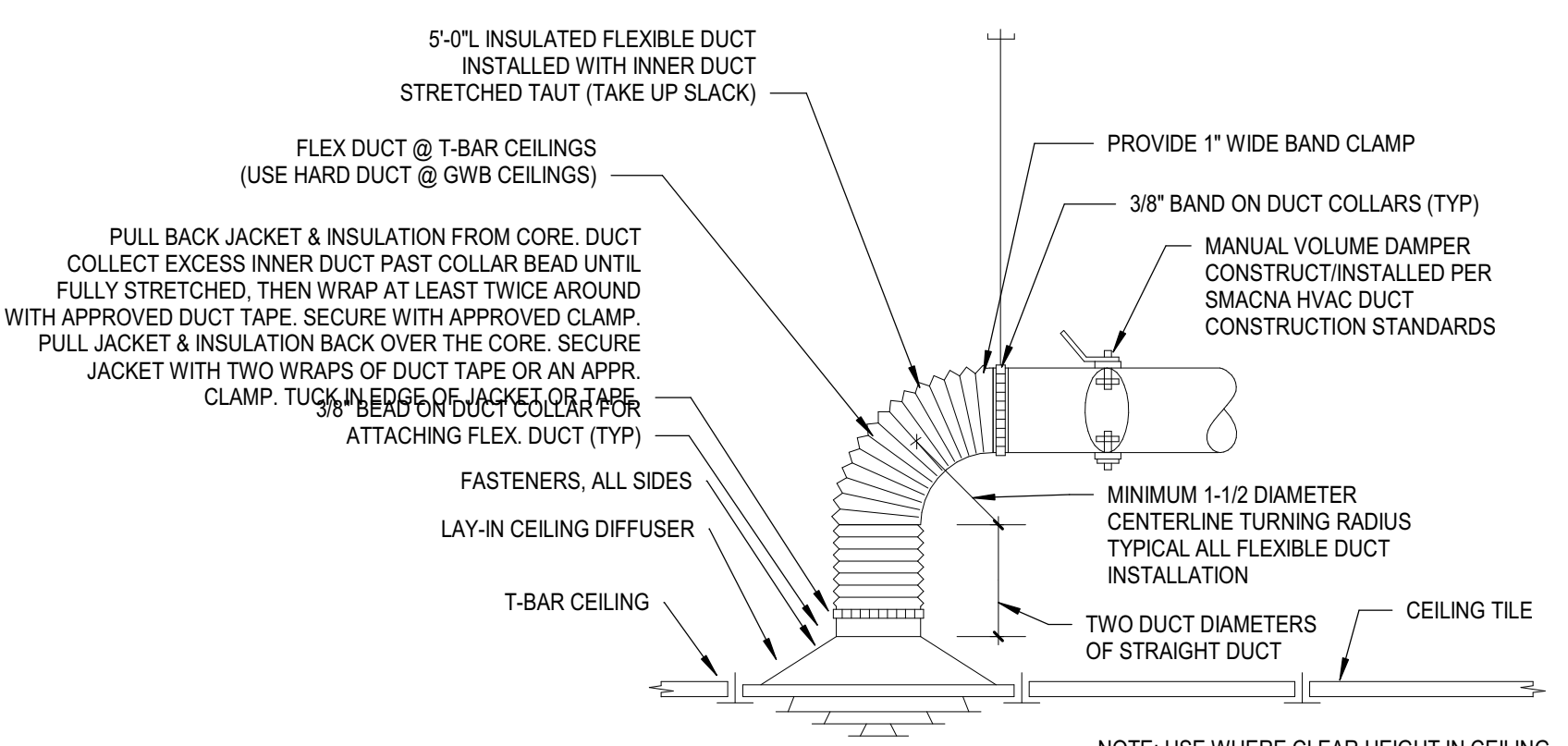
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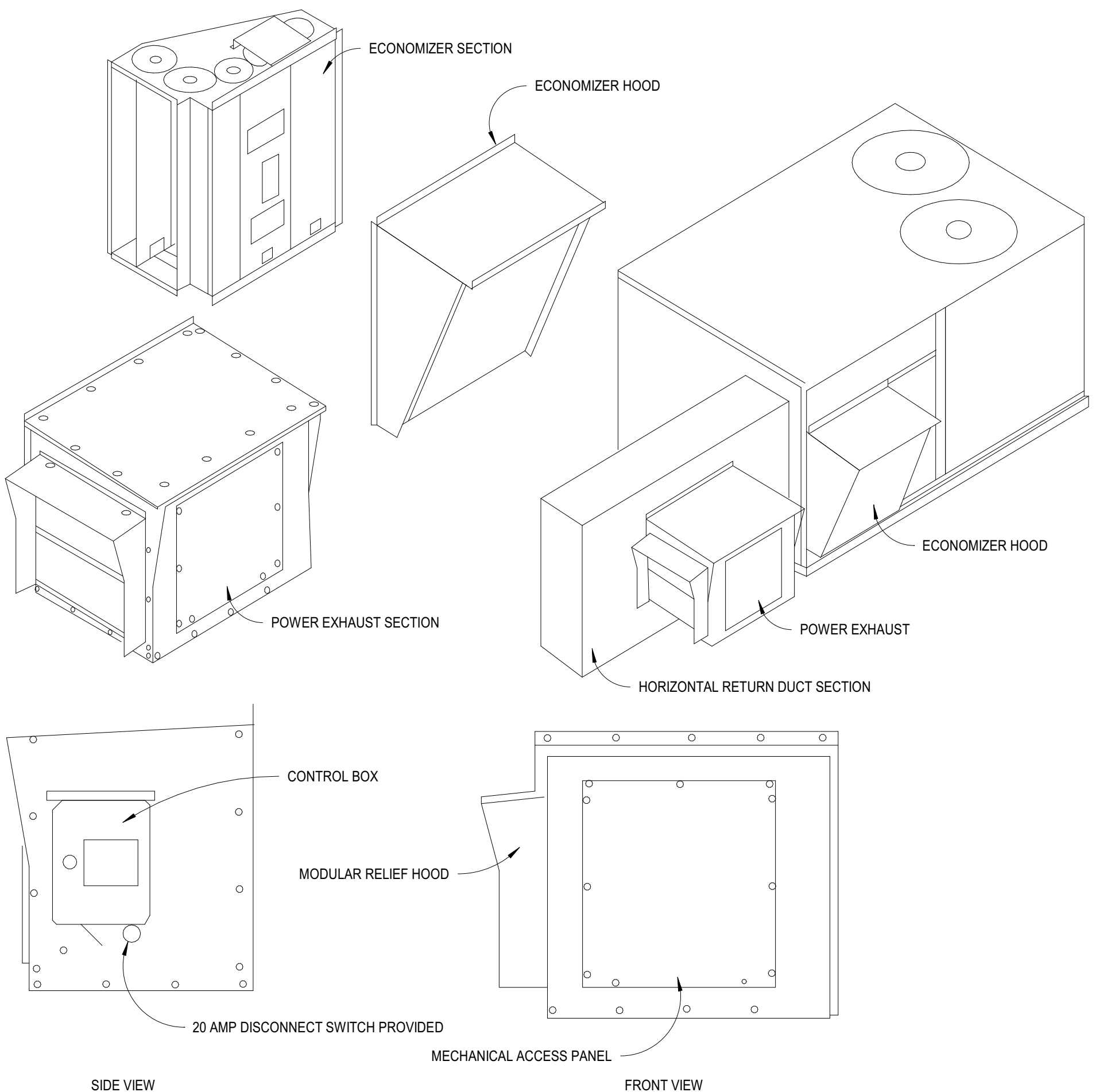
1 THERMOSTAT MOUNTING
M7.1 NO SCALE



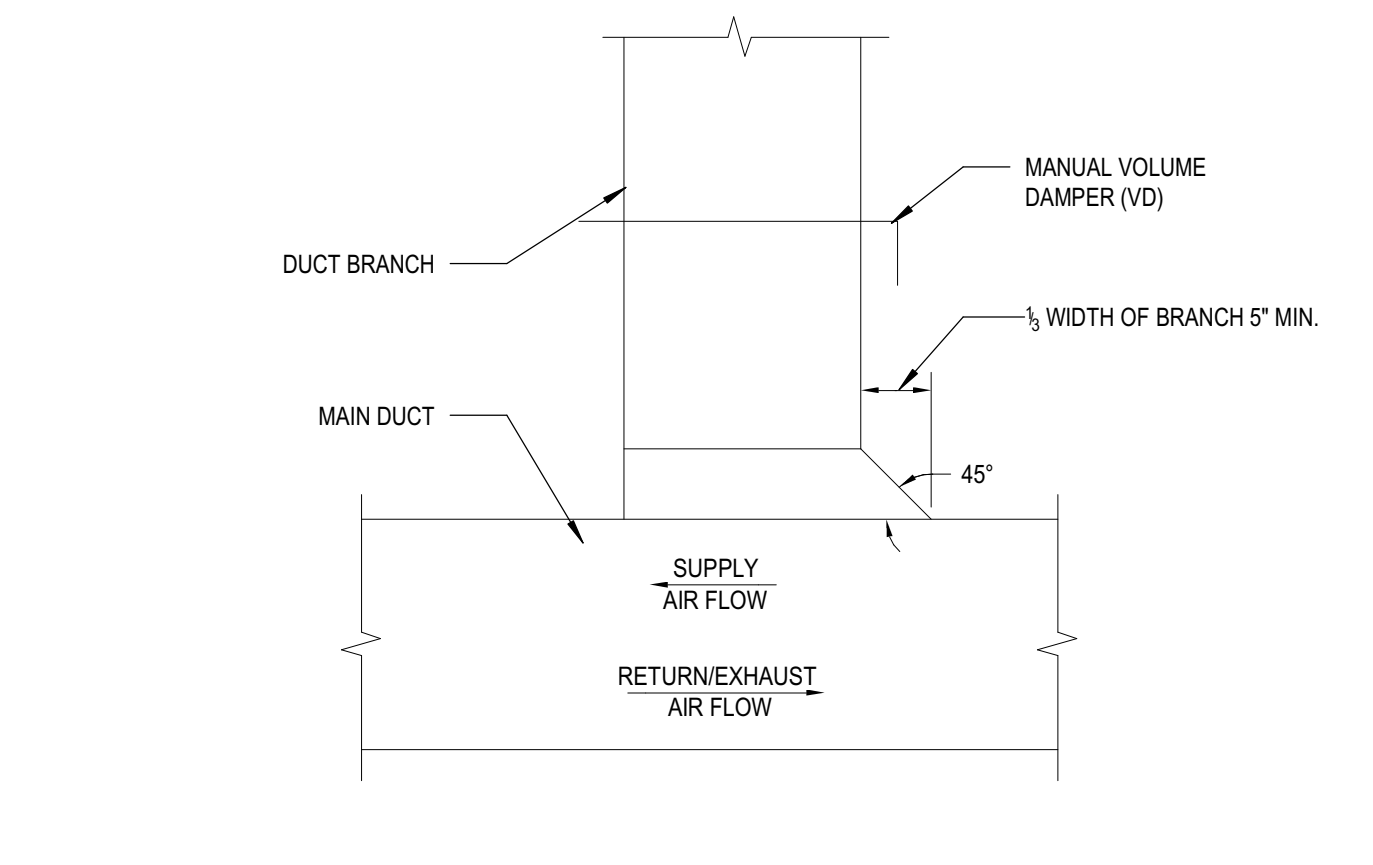
2 DUCT SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



3 CEILING SUPPLY DIFFUSER CONNECTION DETAIL
M7.1 NO SCALE

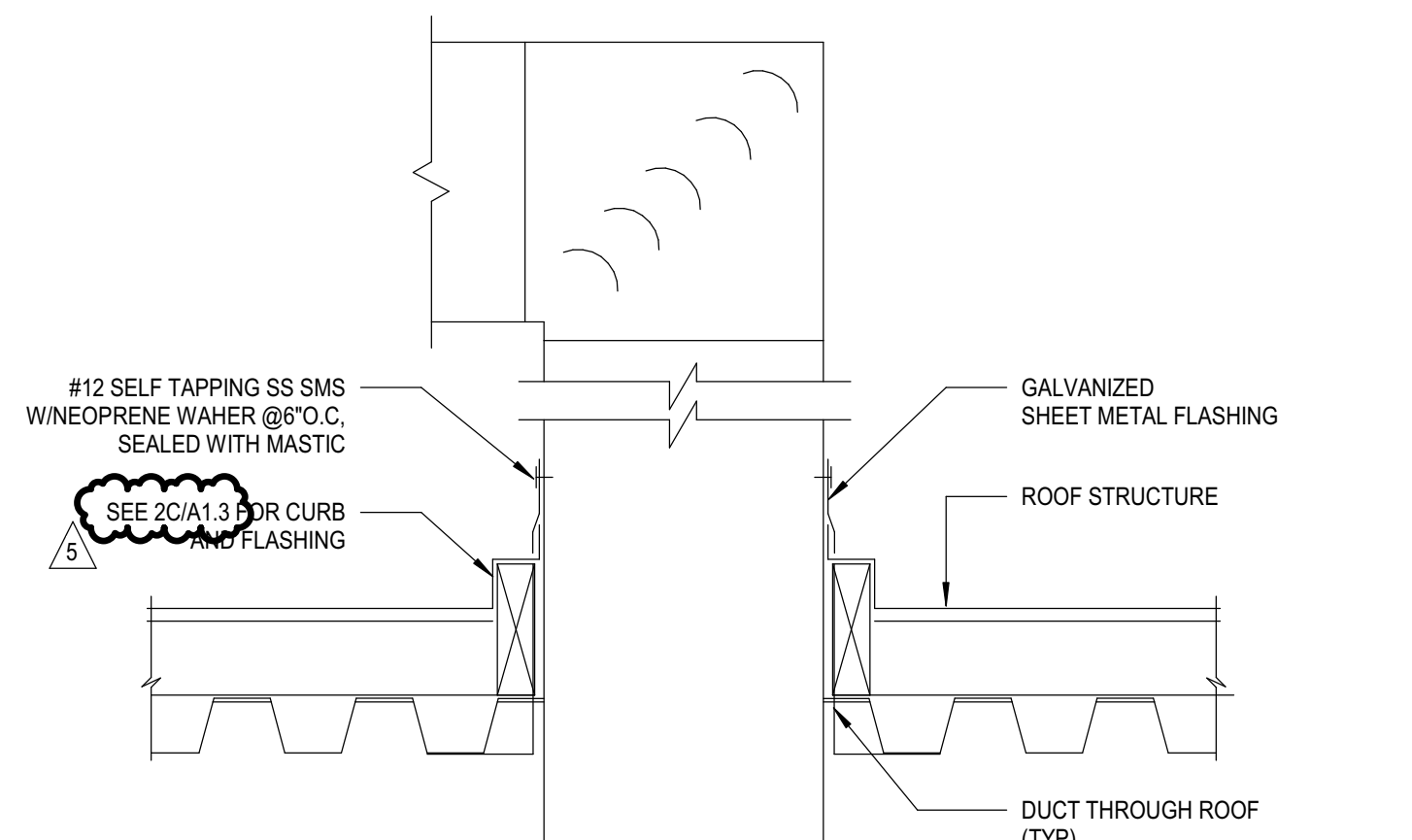


4 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE

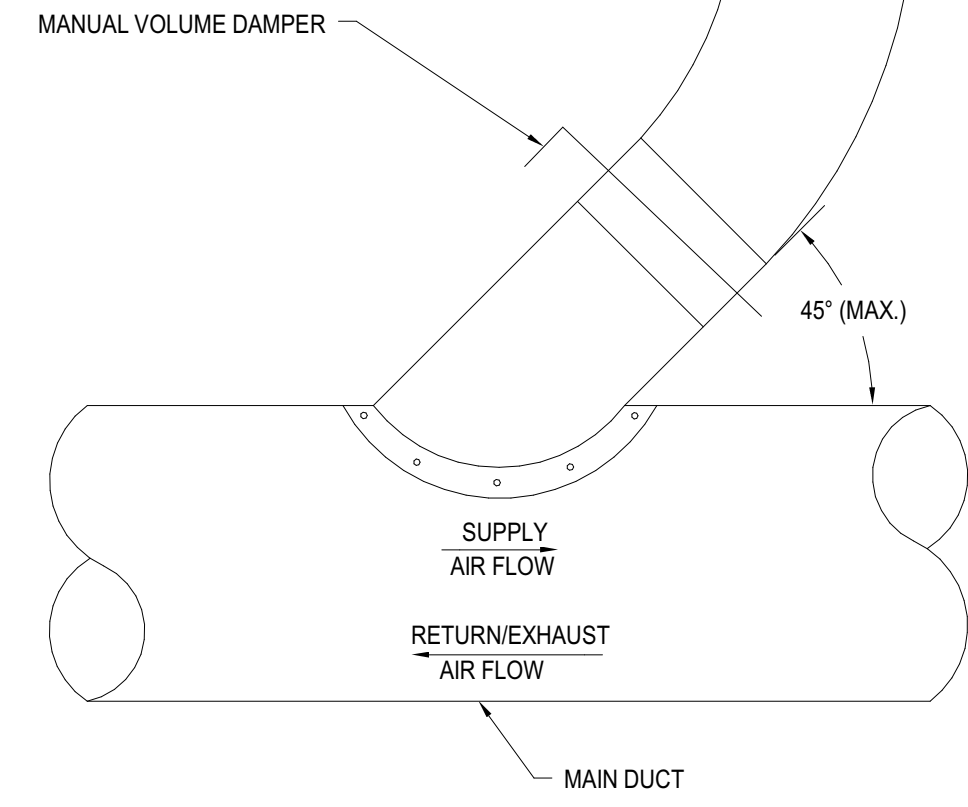


- NOTES:
- FURNISH THIS TYPE OF CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW, OR WHERE INDICATED ON DRAWINGS.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 24MS.1.
 - SUP-IN VOLUME DAMPER HOUSING WILL NOT BE ALLOWED.

12 RECTANGULAR DUCT BRANCH TO RECTANGULAR DUCT
M7.1 NO SCALE

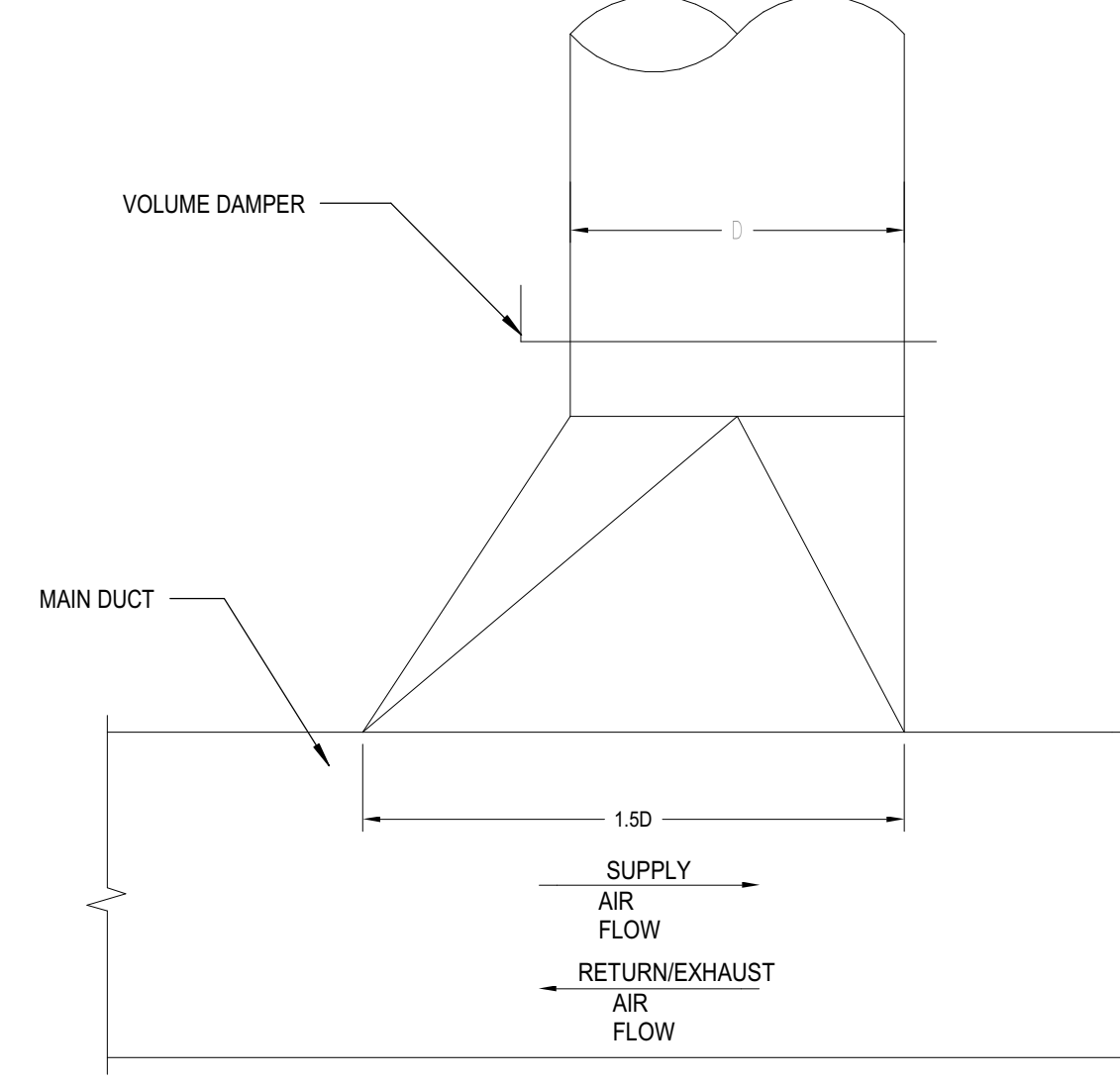


5 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE



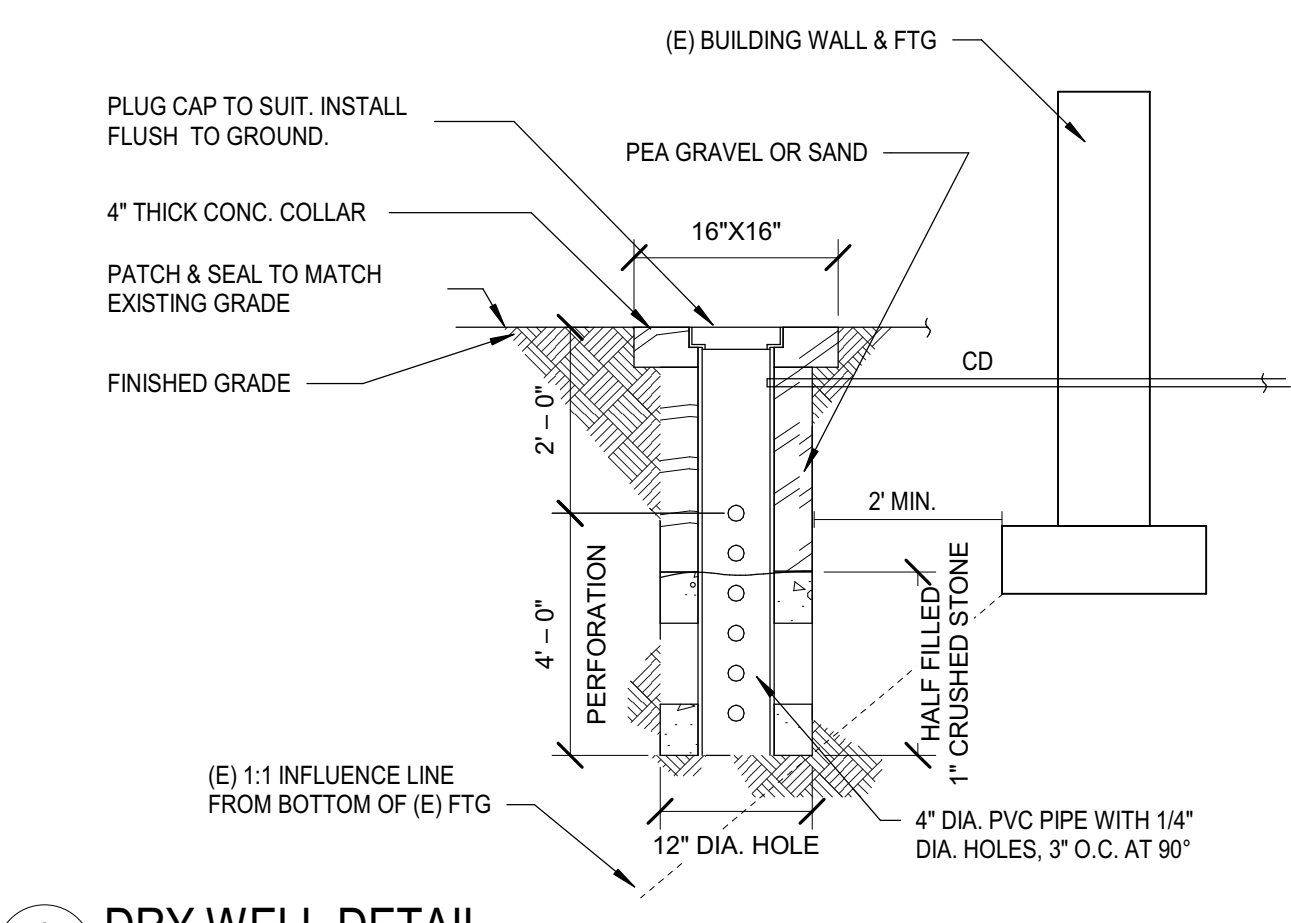
- NOTES:
- FURNISH LATERAL TEE CONNECTION FOR BRANCHES WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS .
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 24MS.2.

7 ROUND DUCT BRANCH TO ROUND MAIN CONNECTION
M7.1 NO SCALE

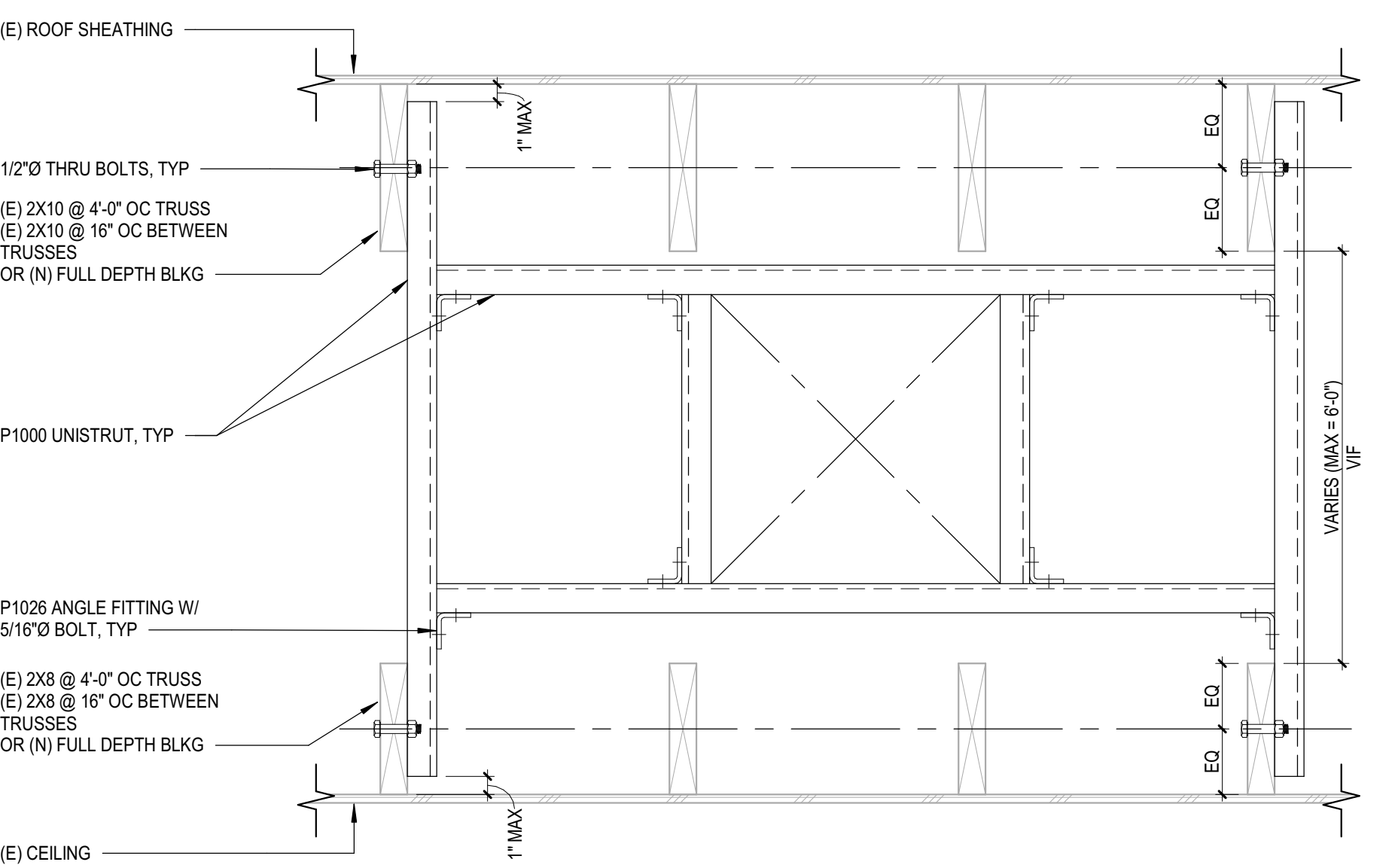


- NOTES:
- FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF TOTAL AIR FLOW.
 - PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL MANUAL VOLUME DAMPER LOCATION.

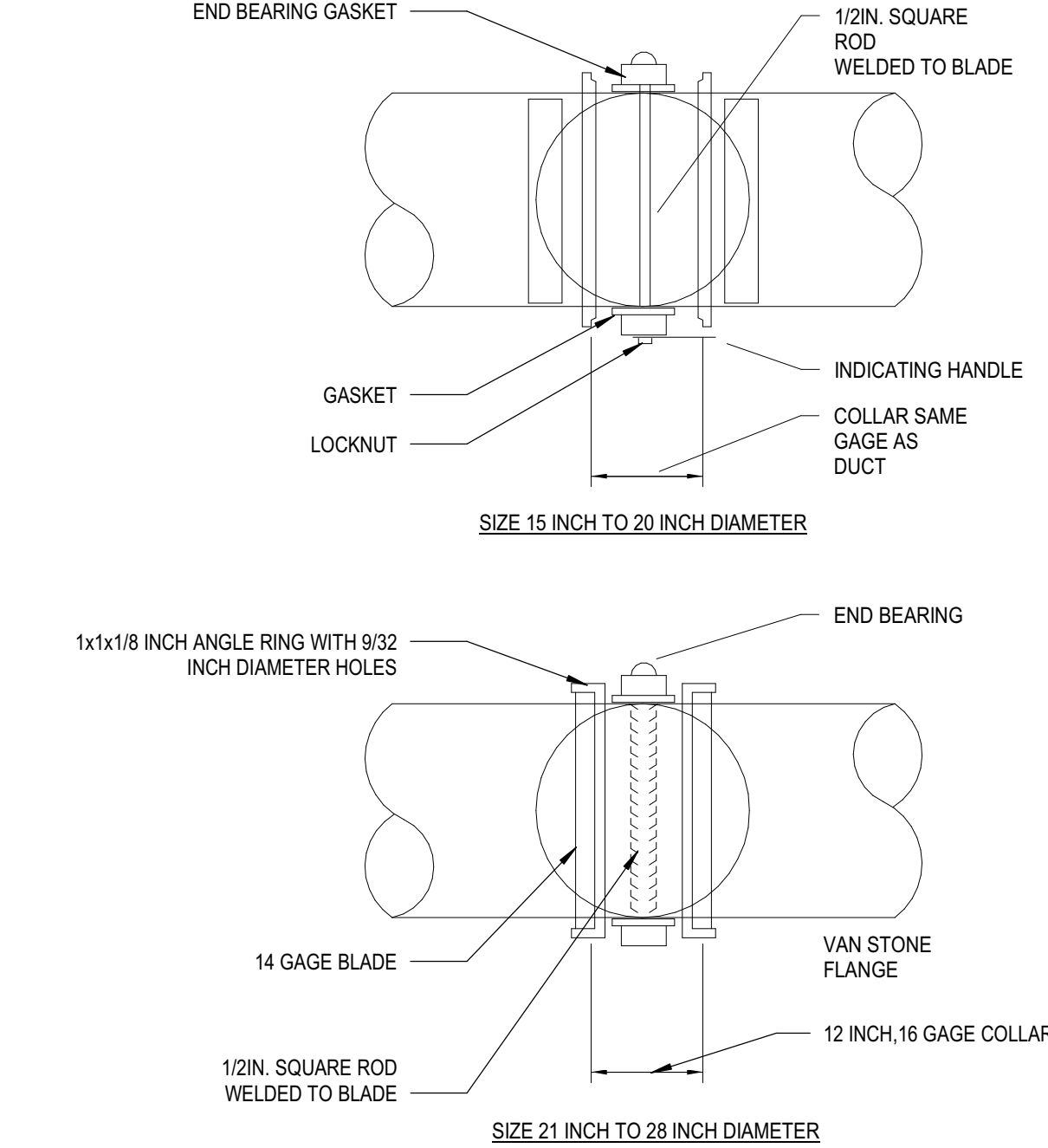
6 ROUND DUCT BRANCH TO MAIN RECT. CONNECTION
M7.1 NO SCALE



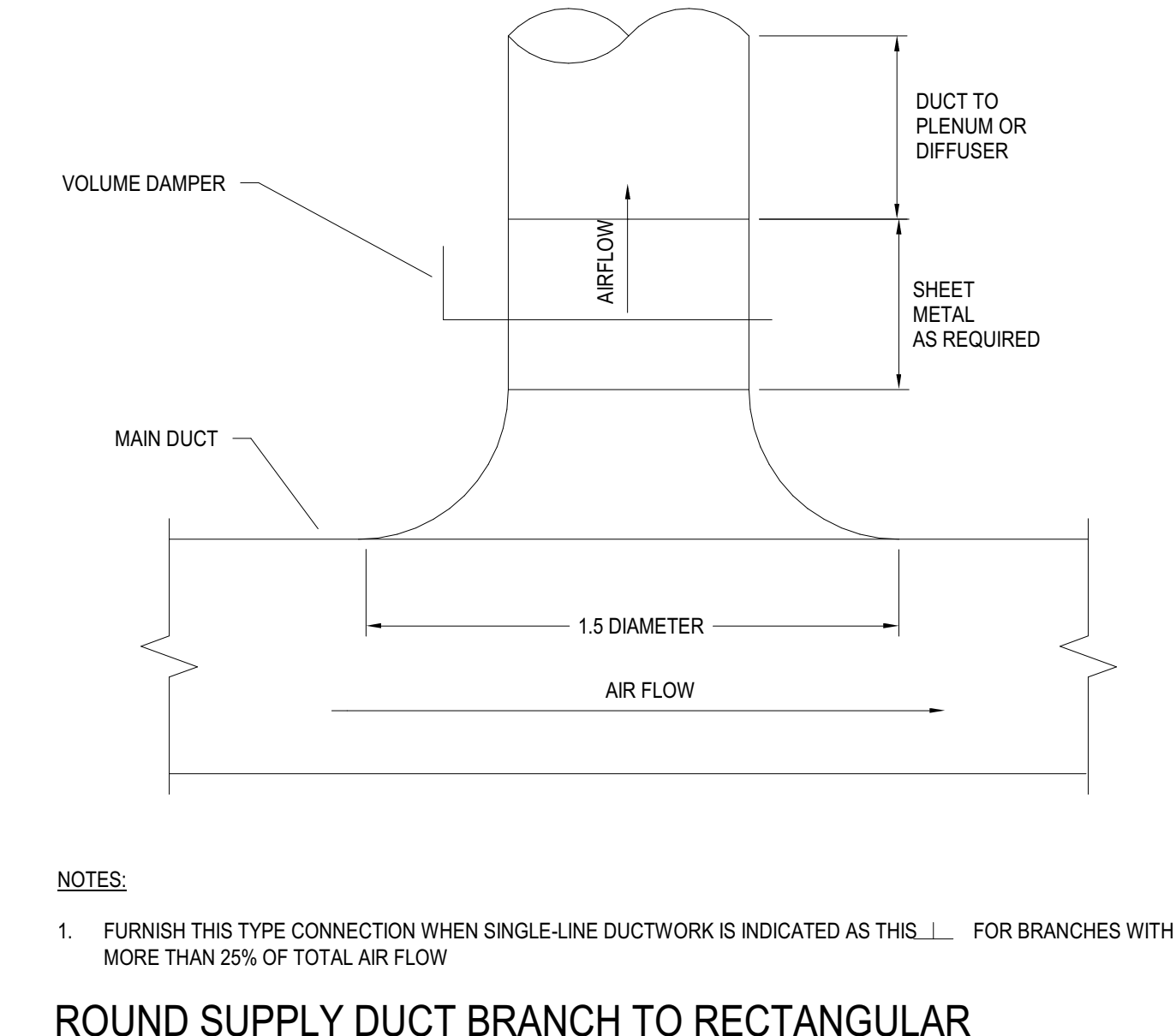
8 DRY WELL DETAIL
M7.1 NO SCALE



11 DUCT SUPPORT IN CEILING SPACE
M7.1 NO SCALE

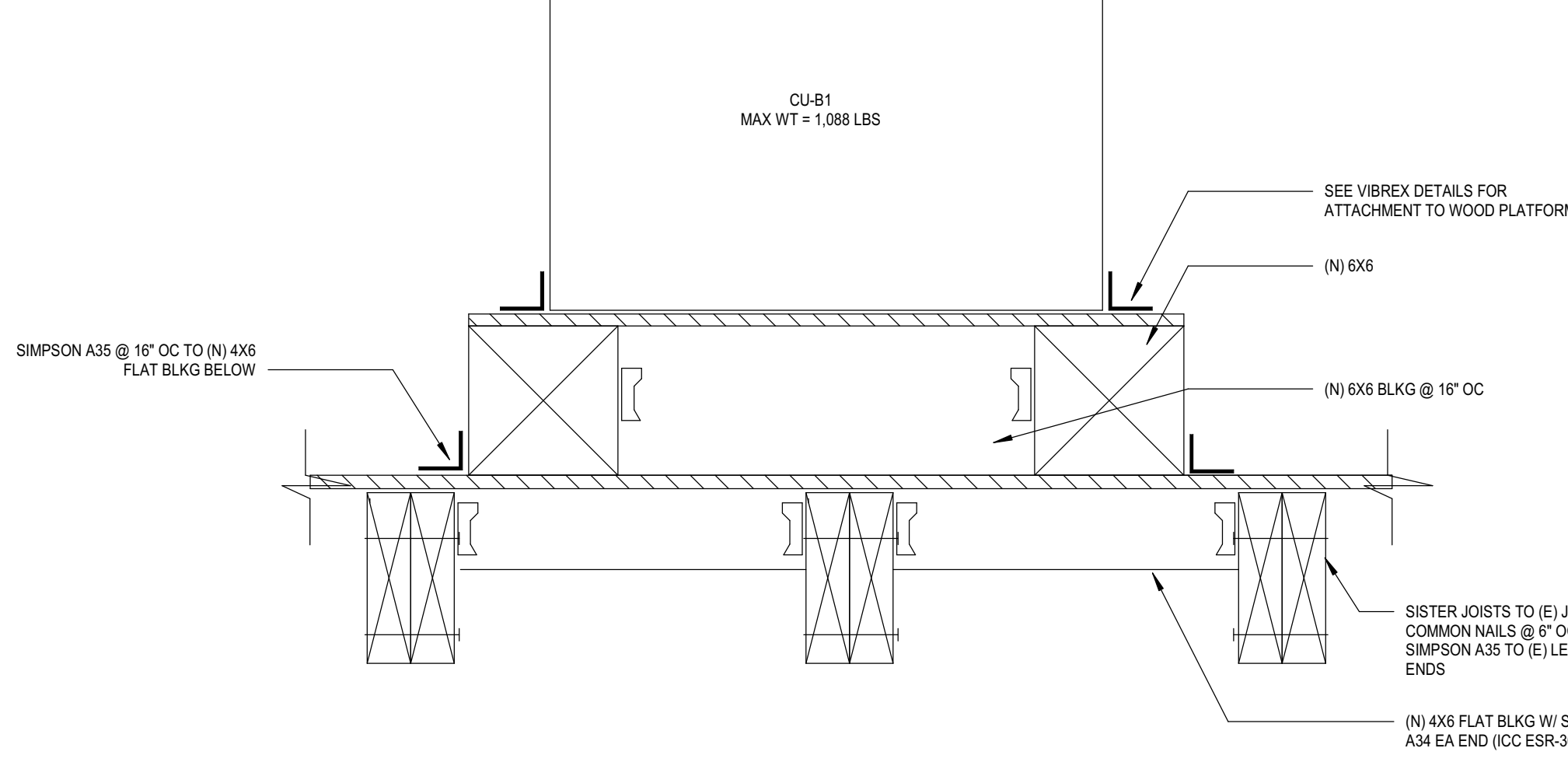


10 ROUND VOLUME DAMPER (LARGER THAN 14" DIA.)
M7.1 NO SCALE



- NOTES:
- FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH MORE THAN 25% OF TOTAL AIR FLOW

9 ROUND SUPPLY DUCT BRANCH TO RECTANGULAR DUCT
M7.1 NO SCALE



13 WOOD PLATFORM DETAIL
M7.1 NO SCALE

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MARK	MAKE	MODEL	MTS	SPRING O.D.	DETL.
FCU-B1	CARRIER	40RUQA25	1-4	3"	1"

NOTE: 1. MAX 5/8" DIA. ROD AND HARDWARE BY OTHERS.

VIBREX TYPE RMXA-3-VLS

DETAIL-1

TYPICAL EQUIPMENT CABLE BRACING SYSTEM

DETAIL-2

ANCHORAGE OF 3/16 INCH DIA. AIRCRAFT CABLE IN WOOD

DETAIL-3

ANCHORAGE OF 3/16 INCH DIA. AIRCRAFT CABLE IN WOOD

DETAIL-4

LAG BOLT DIA.	MIN. PENETRATION	MIN. EDGE DISTANCE	MIN. END DISTANCE
5/8"	5"	2-1/2"	4-3/8"

TABLE 1. (L MAX. W/O ROD STIFFENER)	
ROD DIA.	3/8" 1/2" 5/8" 3/4" 7/8"
L MAX.	15" 21" 26" 32" 38"

TABLE 2. (L MAX. W/ ROD STIFFENER)	
ROD STIFFENER	12GA. X 1-5/8" X 1-5/8" STRUT CHANNEL
L MAX.	116"

TABLE 3. (S MAX. W/ ROD STIFFENER)	
ROD DIA.	3/8" 1/2" 5/8" 3/4" 7/8"
S MAX.	15" 21" 26" 32" 38"

NOTE: 1) SEE TABLE 1 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITHOUT ROD STIFFENER.
 2) SEE TABLE 2 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITH ROD STIFFENER.
 3) SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
 4) (08) ROD STIFFENER CLAMPS PROVIDED IN A KIT. IF ADDITIONAL CLIPS ARE REQUIRED, CONTACT M. W. SAUSSE & CO., INC.

RS-1 - ROD STIFFENER REQUIREMENTS FOR EQUIPMENT CABLE BRACING

EQUIPMENT BRACING KIT: 316C4-SLH

- (04) UPPER BRACKET - SLH-34
- (04) UPPER SLOTTED WASHER - SLW-1
- (04) LOWER BRACKET - SLH-34
- (04) LOWER SLOTTED WASHER - SLW-1
- (08) ROD STIFFENER CLAMPS - RS-1
- (04) CABLE - 1/8" - 10 FT.
- (24) CABLE CLAMPS - 3/16"

NOTE: 1) CABLE IS 7 X 19 GALVANIZED AIRCRAFT CABLE.
 2) CABLES TO BE INSTALLED HAND TAUT W/O SLACK.
 3) FOR CABLE ANCHORAGE, SEE DETAIL - 3.
 4) ROD STIFFENER MAY BE REQUIRED. SEE DETAILS - 4.

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVNA USD - CYBRESS ES 6481	REVISIONS:	DRN: TDT
	CUST.: DLR	A: BASE TO HUNG (8-2-22)	DATE: 8-1-22
	CUST. P.O.: 10/05/2022	B: ADDED TRANSFORMER WT (8-3-22)	DRAWING NO.:
	MECH. ENGR.: DLR	C:	-2B
	MARK: FCU-B1	D:	

1 FCU STRUCTURAL DETAILS
M7.3 / NO SCALE

A

B

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D

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MARK CU-B1	MAKE TOSHIBA	MODEL MMY-AP144	STEEL FRAME ASTM A36 L 4 X 3 X 1/4	DETAIL-1	DETAIL-3	MTG 1-4	SPRING OD 4"	DEFL. 2"
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ATTACHMENT OF SPRING ISOLATORS TO ROOF STRUCTURE
 13/16" DIA. HOLE (2) PLACES
 USE 5/8" DIA. LAGBOLTS INTO DOUGLAS FIR WOOD
 4" PENETRATION, 2-5/8" EDGE DISTANCE & 4-3/8" END DISTANCE
 ADD WOOD BLOCKING IF REQUIRED BY SEOR

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 225 LBS.
- FOR ISOLATORS. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

DETAIL-2

MAX. ALLOW. LOADS: HORIZ: 2200 LBS VERT. (UP): 2820 LBS

M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - CYPRESS	REVISIONS:	DRN: TDT
	CUST.:	A: CALL OUT ALL ATTACHMENTS ((-2-22))	DATE: 08-01-22
	CUST. P.O.:	B:	DRAWING NO.:
	MECH. ENGR.: DLR	C:	-1A
	MARK: CU-B1	D:	

1 CU-B1
M7.4 / NO SCALE



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MECHANICAL
DETAILS

M7.4

DETAIL-1

DETAIL-2

DETAIL-3

MARK	MAKE	TYPE	SIZE	CURB WT.
3 TON	CARRIER	50FCQA	04	275#

A	B	C	D	E	F	G	H	I	
36-15/16	67-1/8	40-7/16	70-5/8	20-1/4	13-11/16	13-7/8	15-3/16	32-1/16	
						J	K	L	M
						42-15/16	72-1/8	71-1/8	40-15/16

SECTION A-A

NOTES:

- FOR ANCHOR REQUIREMENTS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
- ROOF SLOPE TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION & ROOF CURB HEIGHT ARE APPROXIMATE.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

2. SUBMITTED ROOF CURBS ARE PITCHED TO MATCH ROOF SLOPE.

NOTES:

- L & M DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.
- FOR ANCHORAGE, USE 3/8" DIA. LAG BOLT MIN. 3" LONG INTO MIN. 4 X 4 DOUGLAS FIR, MIN 1-1/2" EDGE DISTANCE, & MIN 2-5/8" END DISTANCE. (3) ON LONG SIDES & (2) ON SHORT SIDES.

M. W. SAUSSE & CO., INC.
 28744 Whitherspoon Pkwy. Valencia, CA 91355
 Phone: (661) 257-3311 Fax: (661) 257-7673

Vibrex SRC
airflow & volume control systems

JOB NAME: COVINA USD - CYPRESS

REVISIONS:

A:	
B:	
C:	
D:	

DRN: TDT
DATE: 7-29-22
DRAWING NO.: -3

1 3-TON
M7.5 NO SCALE



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MECHANICAL
DETAILS

M7.5

1

CYPRESS AC UNIT REPLACEMENT

CYPRESS EXISTING UNIT											NEW UNIT																														
TAGS	MAKE	MODEL	CAPACITY (TONS)	GAS INPUT/OUTPUT (BTUHR)	ELECTRICAL (SINGLE CIRCUIT)		WEIGHT (LBS)	POWER EXHAUST		OPERATING WEIGHT (LBS)	DIRECT REPLACEMENT? Y/N	CARRIER MODEL #	NET COOLING CAPACITY			AIRFLOW (CFM)		ESP (IN WG)	SEER	EER	HEATING CAPACITY (MBH)	NEW MERV RATING	FILTER QUANTITY & SIZE (W" X H" X D")	ELECTRICAL			WEIGHT (LBS)	OUTSIDE AIR HOOD WEIGHT (LBS)	ECONOMIZER		POWER EXHAUST			ROOF CURB WEIGHT (LBS)	TOTAL WEIGHT (LBS)	UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE				
					V/PH	MCA		NOMINAL TON	TOTAL (BTUH)				SENSIBLE (BTUH)	SUPPLY	MIN OSA	V-PH	MCA							MOC	LBS	REQUIRED?			WEIGHT	REQUIRED?	MODEL #	MCA	MOC					WEIGHT			
RTU-C1 & RTU-C2 (BLDG. C)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
RTU-H1 THRU RTU-H4 (BLDG. I)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
RTU-J1 THRU RTU-J4 (BLDG. J)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
RTU-F1 THRU RTU-F3 (BLDG. F)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
RTU-G1 THRU RTU-G3 (BLDG. G)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
RTU-H1 THRU RTU-H4 (BLDG. H)	SANYO	CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	208-1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	98	731	75 X 47 X 34	1/M7.5		
CU-B1 (BLDG. B)	N/A											MMY-MAP1446HT6P-UL	12	141924	118368														NO	NA	NO	NA	NA	NA			838	63 X 31 X 73	1/M7.4		
FCU-B1A (BLDG. B)	N/A											MMD-AP0721HP-UL1	6	70962	59184	2236	600	1					80.273	13	2 (25X14X2)	208-1	5.7	15	218		NO	NA	NO	NA	NA	NA			218	56 X 36 X 18	1/M7.3
FCU-B1B (BLDG. B)	N/A											MMD-AP0721HP-UL1	6	70962	59184	2236	600	1					80.273	13	2 (25X14X2)	208-1	5.7	15	218		NO	NA	NO	NA	NA	NA			218	56 X 36 X 18	1/M7.3

NOTES:
1. PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.
2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
3. ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION. UNO. FIELD VERIFY PRIOR TO ORDERING.
4. PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
5. FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT AND OUTSIDE AIR INTAKE. AS APPLICABLE.
6. SCOR RATING OF RTUs SHALL BE MINIMUM OF 10KA FOR CLASSROOM RTUs & MPR FCU-B1 AND 25KA FOR MPR CU-B1.
7. PROVIDE MANUFACTURER INSTALLED ACME ELECTRIC CE1000F010 TO FCU-B1A & FCU-B1B TO TRANSFER POWER FROM 480V TO 208V. THE POWER TO BE 480V/3PH AT 2.17 FLA.

2

3

DIFFUSER AND GRILLE SCHEDULE

MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES
CD-1	TITUS PAS	CEILING SUPPLY	24"x24"	6"Ø	0 - 110	25	0.1	1,2,3
				8"Ø	111 - 190	25	0.1	
				10"Ø	191 - 280	25	0.1	
				12"Ø	281 - 350	25	0.1	
				14"Ø	351 - 450	25	0.1	
				16"Ø	451 - 550	25	0.1	
RG-1	TITUS PAR	CEILING RETURN	24"x24"	6"Ø	0 - 100	20	0.1	1,2,3
				8"Ø	101 - 175	20	0.1	
				10"Ø	176 - 275	20	0.1	
				12"Ø	276 - 380	20	0.1	
				14"Ø	381 - 500	20	0.1	
				16"Ø	501 - 570	20	0.1	

NOTES:
1. OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.
2. MATCH THE BORDER TYPE TO THE CEILING.

DUCT SIZING SCHEDULE *** FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST

CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	26" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

REMARKS:
DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.
VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

DUCT SIZING *** MEDIUM PRESSURE DUCTWORK

CFM	ROUND DUCT (IN)	RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)				
		WX4	WX6	WX8	WX10	WX12
UP TO 150	6	8	6	X	X	X
151-280	8	10	10	8	X	X
281-500	10	X	16	12	10	X
501-800	12	X	X	16	12	X
801-1200	14	X	X	22	16	14

REMARKS:
DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.
VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

AIR VELOCITY GUIDELINES (FPM)

LOCATION	NOISE CRITERIA (NC)					
	40	35	30	25	20	15
MAIN SUPPLY DUCT	1700	1500	1000	800	700	600
MAIN RETURN DUCT	1200	1000	750	600	500	400
DUCT TO GRILLE SUPPLY	600	500	400	300	250	200
DUCT TO GRILLE RETURN	600	500	400	300	250	200

4

FAN SCHEDULE

NOTES:
1.
2.
3.
4.
5.

ID	TYPE	ARRANGEMENT	AIR FLOW (CFM) DESIGN	ESP (IN WG)	RPM	FAN DATA				ELECTRICAL DATA					WEIGHT (LBS)	BASIS OF DESIGN		NOTES
						DRIVE TYPE	MOTOR			FLA (A)	MCA (A)	MOC (A)	VOLT (V)	PH		MANUFACTURER	MODEL	
							QTY	HP	RPM									
EF-B1	EXHAUST	CENTRIFUGAL IN-LINE	4,400	0.5	1713	DIRECT	1	1725	Yes	3.4	4.3	4.5	460	3	218	LOREN COOK	16SSQ17D	

5

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Cypress Elementary School
 COVINA VALLEY USD
 581 CYPRESS ST., COVINA, CA 91723

DSA Submitted Set
 1/13/2023
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 5 1/13/2023

75-22605-00

MECHANICAL SCHEDULES

M8.1

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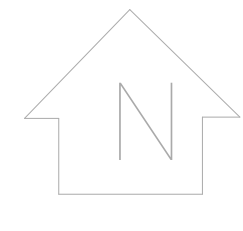
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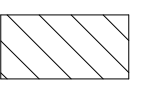

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4

5



SITE LEGEND

-  EXISTING BUILDING - NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE

MECHANICAL PLUMBING SITE PLAN
SCALE: 1" = 30'-0"



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COVINA VALLEY USD
381 CYPRESS ST., COVINA, CA 91723

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MECHANICAL PLUMBING SITE PLAN

MP1.1

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES MEP_2022.rvt
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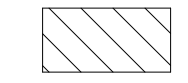
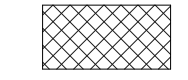
GENERAL NOTES

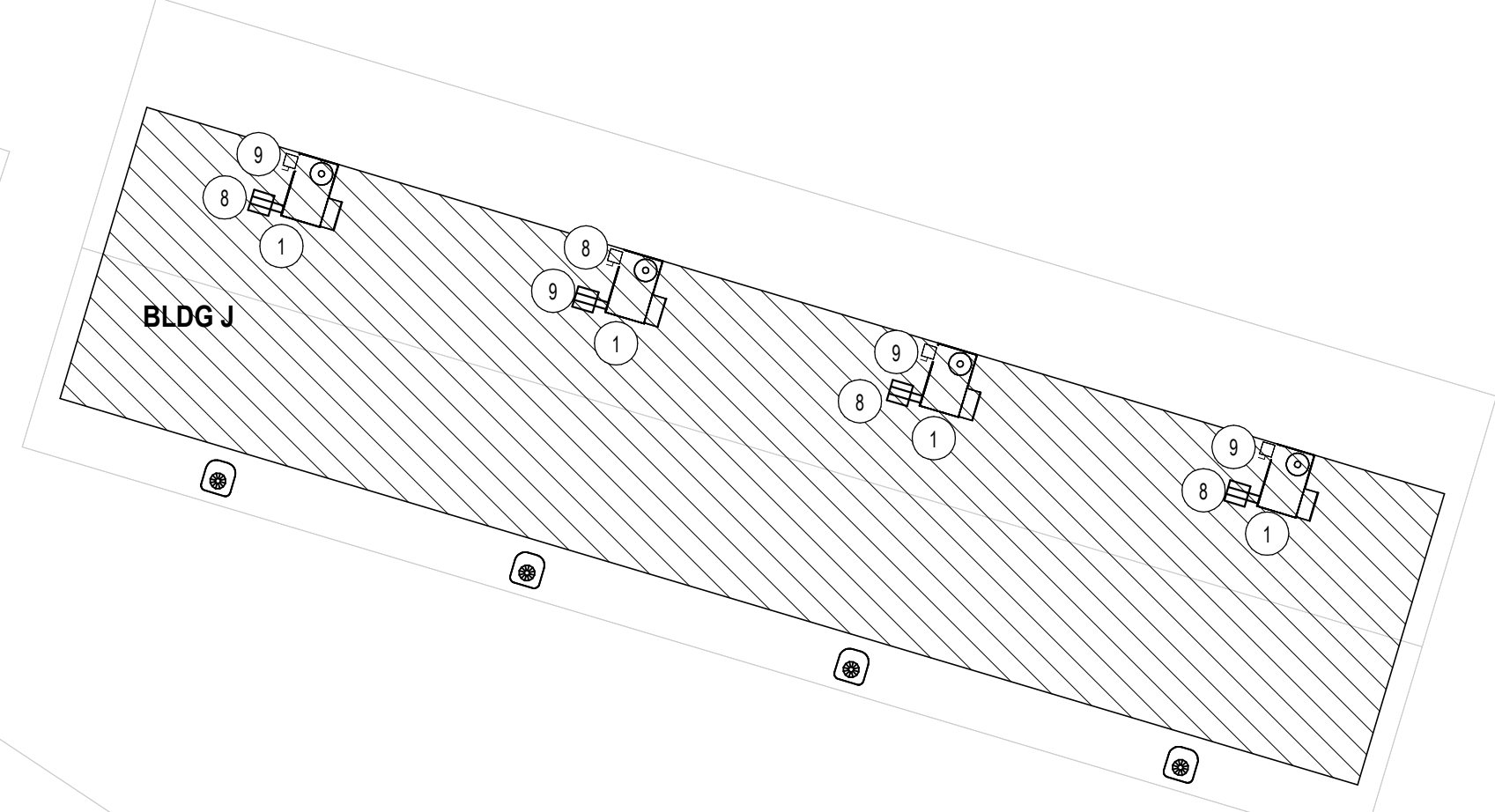
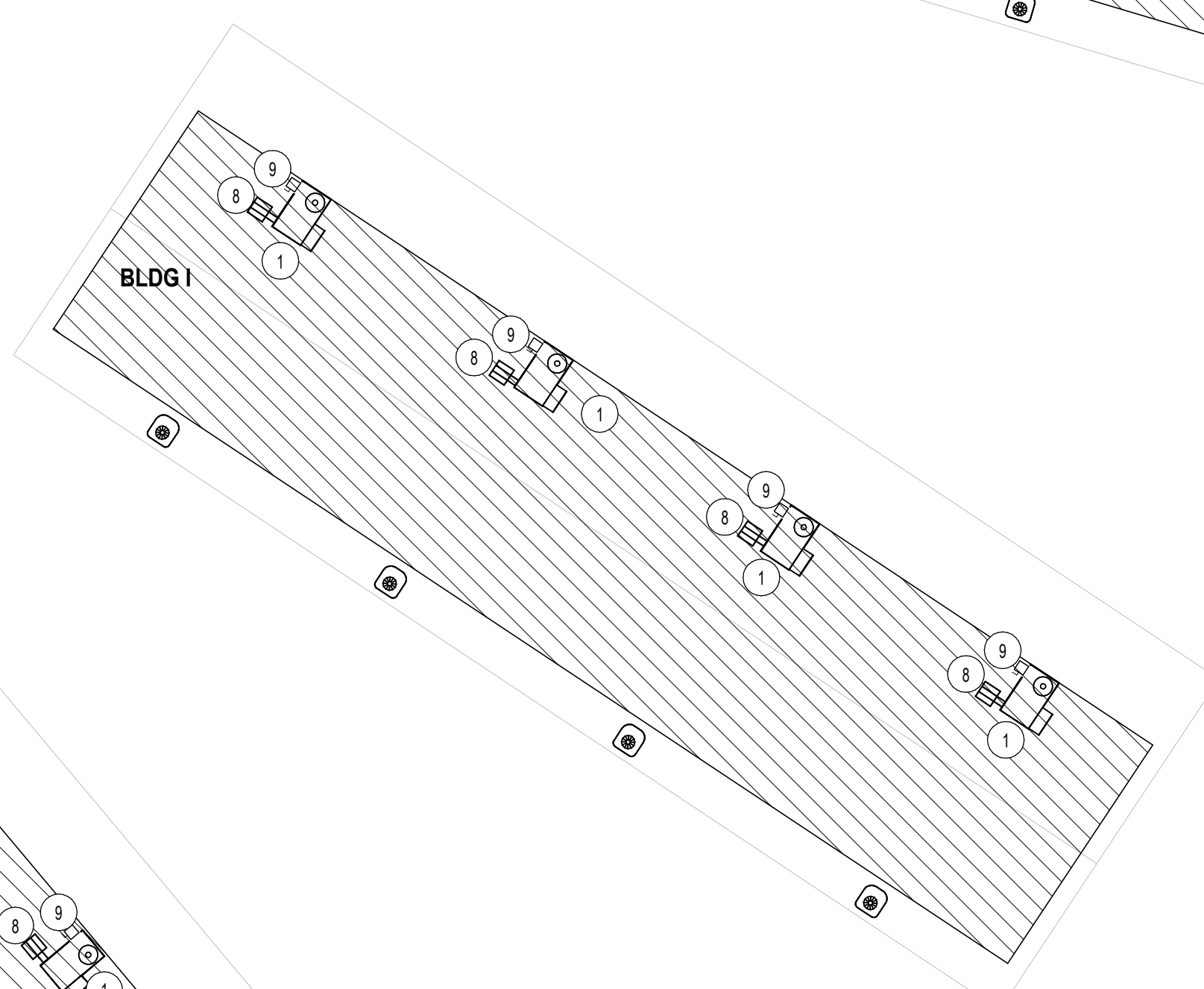
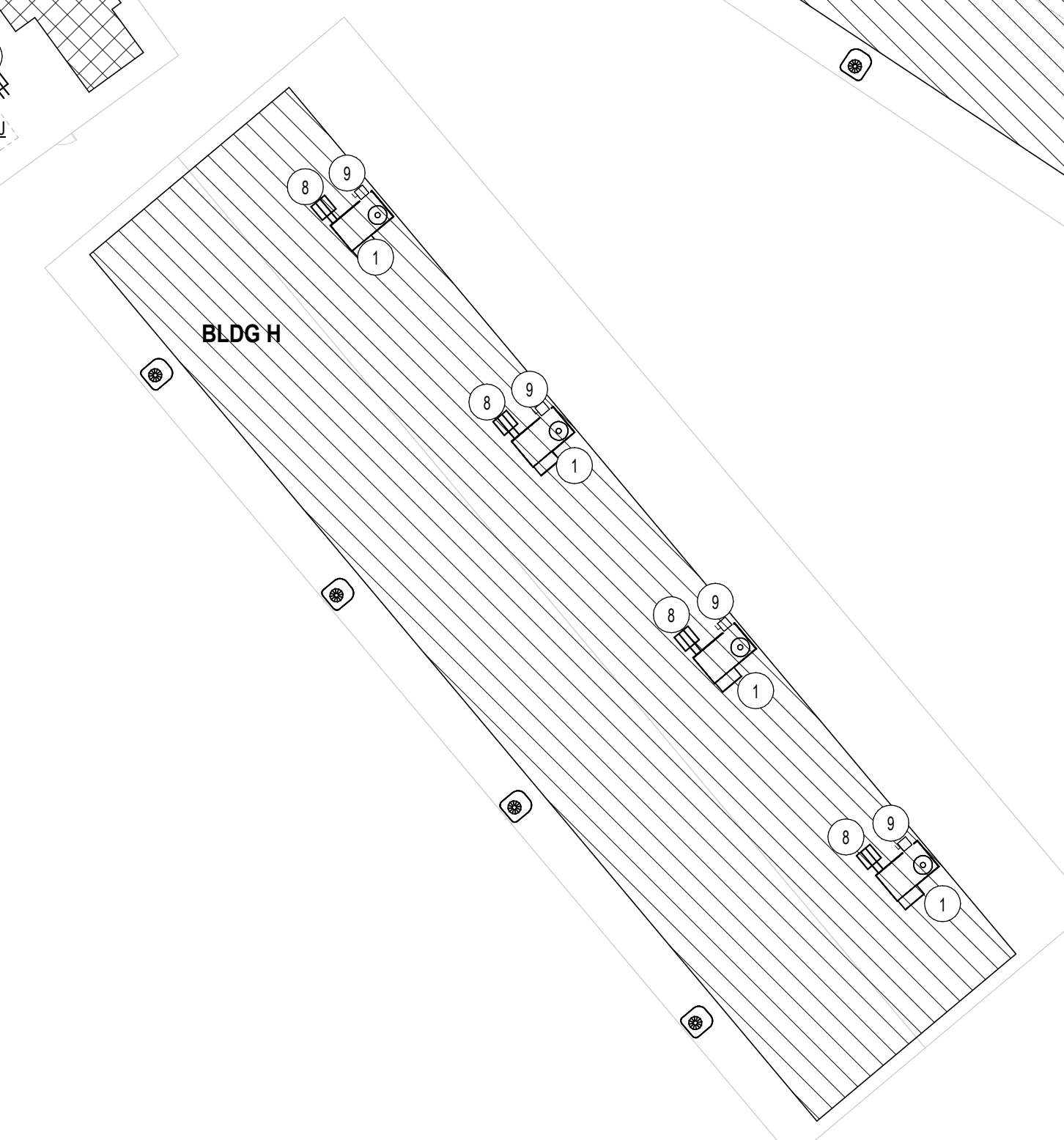
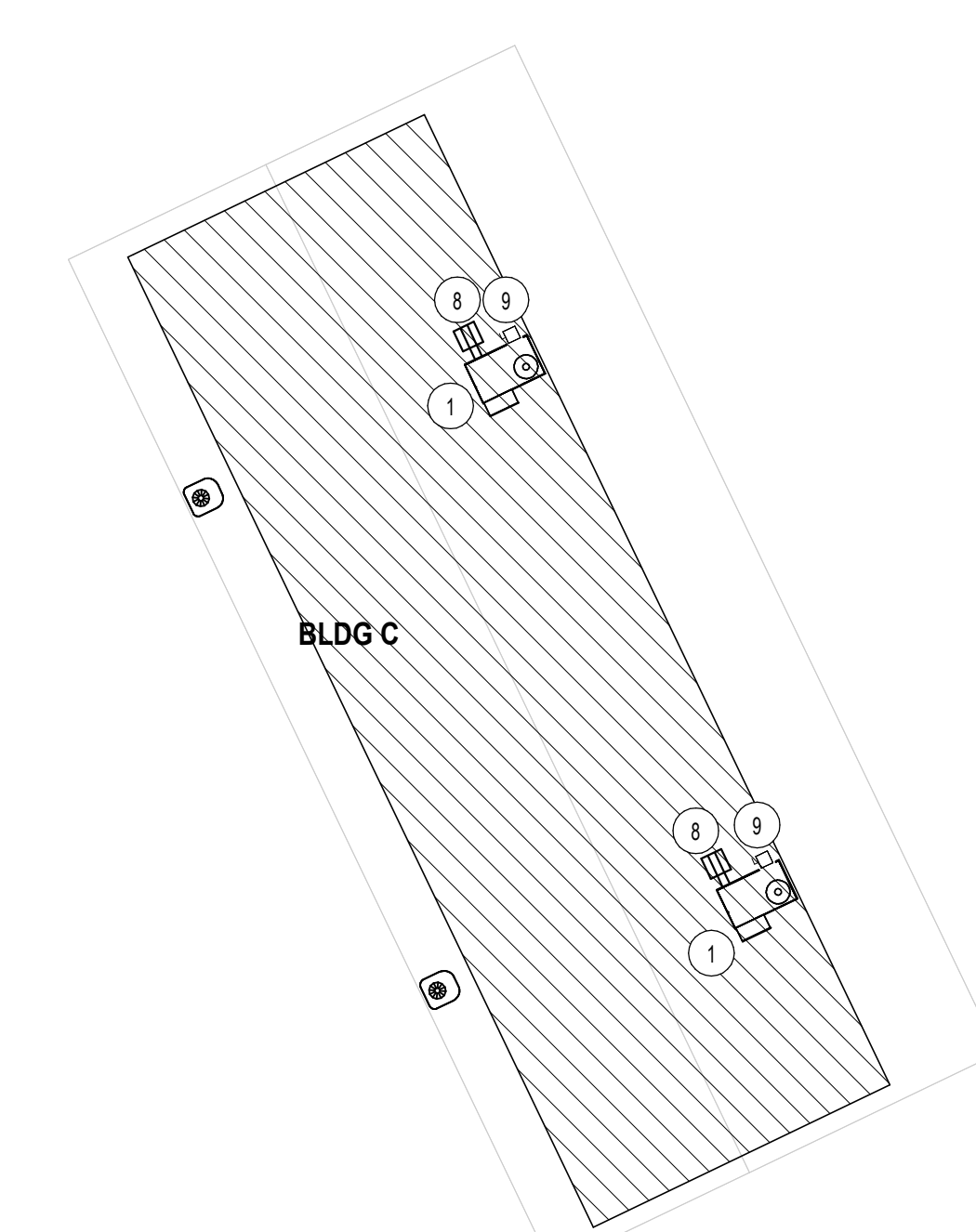
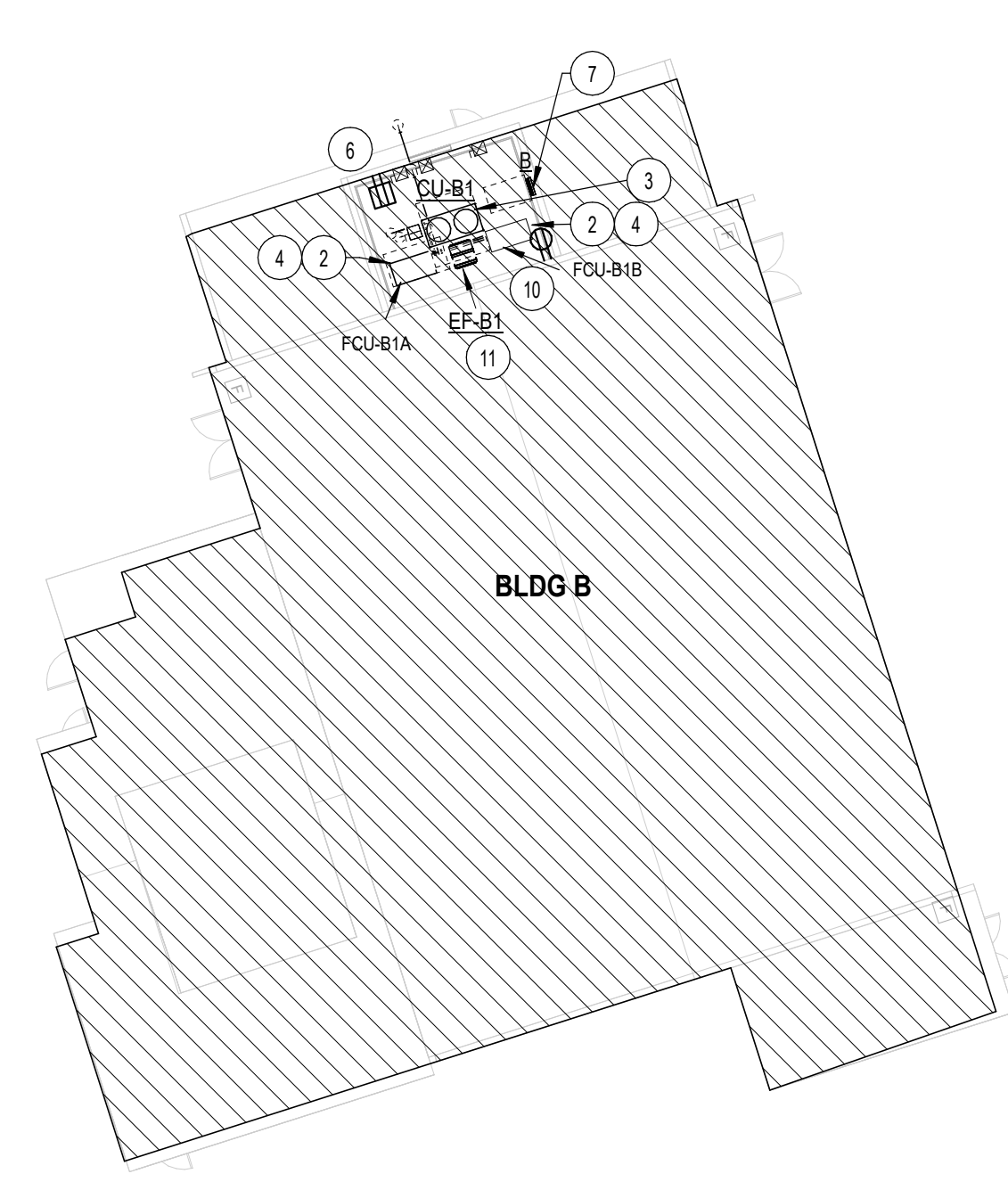
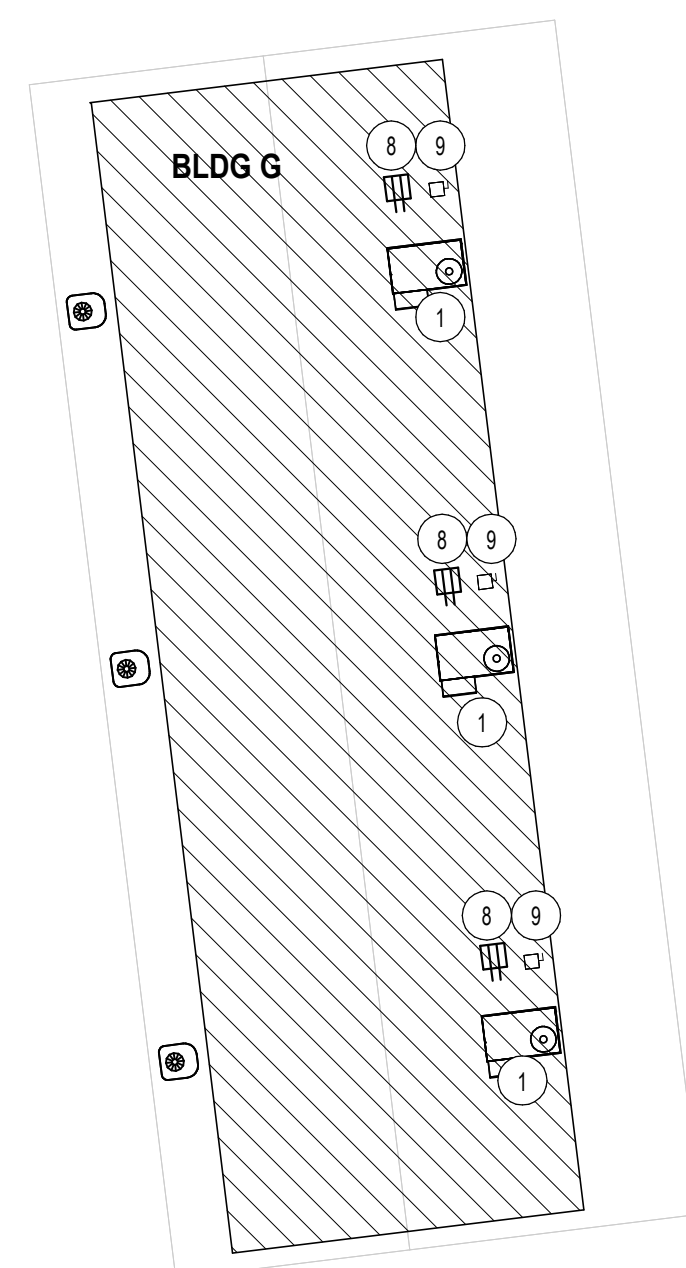
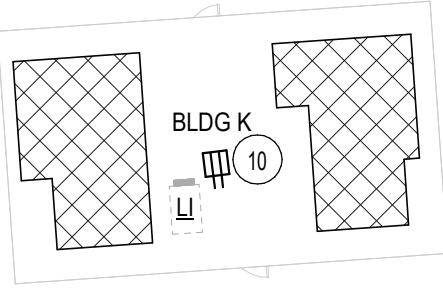
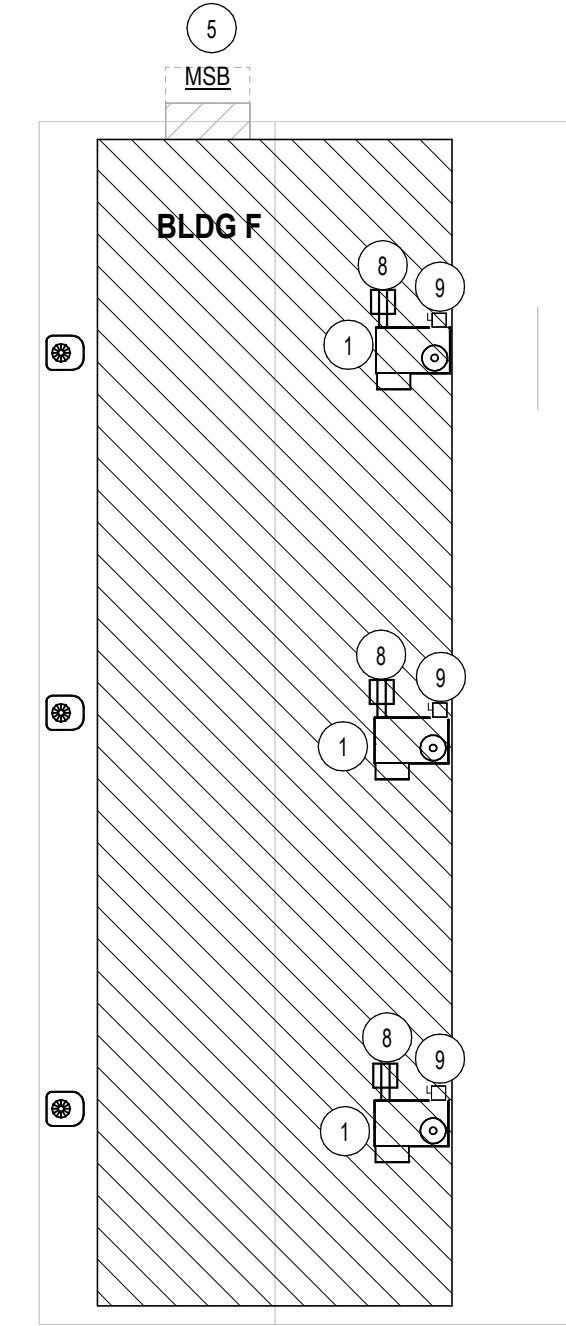
- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET ES.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CECS 503.15.1:
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK WITH ROOF TOP EQUIPMENT. EXTEND EXISTING FEEDER AS REQUIRED. SEE TABLE ON SHEET ES.1 FOR OTHER INFORMATION. PROVIDE ALL REQUIRED CONNECTION.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
3	NEW HVAC EQUIPMENT. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
4	THIS UNIT MEETS CALIFORNIA MECHANICAL CODE SECTION 608 EXCEPTION NO. 2. THE ROOM THIS UNIT SERVES HAS DIRECT ACCESS TO EXTERIOR WHICH IS LESS THAN 100 FEET.
5	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
6	PROVIDE 120 VOLT CIRCUIT FROM SPARE BREAKER. PROVIDE TANDEM BREAKER AS REQUIRED.
7	(N) PANELBOARD B AT GRADE LEVEL, 277/480 VOLTS, 3-PHASE, W-WIRE, 225 AMP BUS, RUN NEW FEEDER ABOVE EXISTING WALKWAY CANOPIES, FIELD CONNECT TO EXISTING PANELBOARD OWNED BY CONTRACTOR.
8	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ES.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
10	PROVIDE 120V CIRCUIT FOR EMS PANEL AND EMS ROUTER. FIELD VERIFY EXACT LOCATION OF EMS PANEL AND EMS ROUTER.
11	NEW HVAC EQUIPMENT EF-81 AT GRADE.

SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



OVERALL ELECTRICAL POWER PLAN
SCALE: 1/16" = 1'-0"



Cypress Elementary School
COVINA VALLEY USD
381 CYPRESS ST., COVINA, CA 91723

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75-22605-00

ROOF
ELECTRICAL
PLAN

E2.1

GROVECENTER ELEM. SCHOOL

775 N LARK ELLEN AVE. WEST COVINA, CA 91791

COVID 19 - COVINA VALLEY DISTRICT HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION # A# 03-122225

SHEET INDEX

GENERAL		ELECTRICAL	
G0.1	COVER SHEET	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
G1.1	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	E2.1	ELECTRICAL ROOF POWER PLAN
ARCHITECTURAL			
A0.1	DOOR DETAIL	E3.1	ELECTRICAL DIAGRAMS AND SCHEDULES
A1.1	ARCHITECTURAL SITE PLAN	TOTAL: 25 SHEETS EET	
A1.1A	BUILDING BCD, AND BUILDING E FLOOR PLANS		
A1.1B	BUILDING F AND BUILDING G FLOOR PLANS		
A1.3A	BUILDING BCD, AND BUILDING E ROOF PLANS		
A1.3B	BUILDING F AND BUILDING G ROOF PLANS		
A3.1A	BUILDING BCD, AND BUILDING E REFLECTED CEILING PLANS		
A3.1B	BUILDING F AND BUILDING G REFLECTED CEILING PLANS		
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES		
M0.2	TITLE 24 COMPLIANCE		
M0.4	TITLE 24 COMPLIANCE		
M0.3	TITLE 24 COMPLIANCE		
M0.5	TITLE 24 COMPLIANCE		
M0.6	TITLE 24 COMPLIANCE		
M1.1	OVERALL MECHANICAL SITE PLAN		
MD1.1	MECHANICAL DEMOLITION PLANS		
M1.1C	MECHANICAL FLOOR PLANS		
M1.3C	MECHANICAL ROOF PLANS		
M5.1	CONTROLS DIAGRAMS		
M5.2	CONTROLS DIAGRAMS		
M7.1	MECHANICAL DETAILS		
M7.2	MECHANICAL DETAILS		
M7.3	MECHANICAL DETAILS		
M7.4	MECHANICAL DETAILS		
M7.5	MECHANICAL DETAILS		
M8.1	MECHANICAL SCHEDULES		
MP1.1	MECHANICAL PLUMBING SITE PLAN		

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122225 File No. 19-25)

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(d))

I FIND THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES) THIS DRAWING OR PAGE

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: JESSE MILLER DATE: 05/05/2022
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
PRINT NAME: JESSE MILLER
C-32306 10/31/2023
LICENSE NUMBER EXPIRATION DATE

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: DATE:
ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
PRINT NAME:
LICENSE NUMBER EXPIRATION DATE

DESIGN ANALYSIS DATA

- WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS
 - RISK CATEGORY: II
 - WIND DESIGN SPEED: V=110 MPH
 - WIND EXPOSURE CATEGORY: B (PER ASCE 7-16)
- EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5)
 - SEISMIC DESIGN CATEGORY: E OR F
 - SITE CLASS: D
 - S₁ = 1.656
 - S₂ = 0.911
 - S₃ = 1.564
 - S₃ = "null"
 - S₃ = 1.104
 - S₃ = "null"
 - L_p (IMPORTANCE FACTOR) = 1.25
 - F_p (CONTROLLING HOR. SEISMIC FORCE) = 2089.48 LBS
- DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6)
 - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF
 - ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF MIN.

SCOPE OF WORK

SCOPE OF WORK SHALL BE AS FOLLOWS:
REMOVAL OF EXISTING SPLIT SYSTEM UNITS INCLUDING GROUND MOUNTED CONDENSING UNITS AND ALL ASSOCIATED CONDUITS, PIPING, SUPPORTS, ETC. REPLACEMENT WITH NEW ROOF MOUNTED HVAC UNITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED.
IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MPR UNIT WITH NEW HVAC SYSTEM.
REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED

APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- 2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- 2021 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS
- 2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- 2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
- 2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
- 2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
- 2022 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2019 ASME A17.1, LSCA 844-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
- NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADDITION
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

DSA GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), NOT WITHSTANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS. COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, AND STRUCTURAL ENGINEER OR RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL, ENGINEER, AND FIRE SAFETY) SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK.
- THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY ALL OF THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, STRUCTURAL ENGINEER OF RECORD, AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER.
- ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- A DSA-ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT, IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND SUPPORT EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE MECHANICAL CODE. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNERS AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM-ACCEPTANCE-COM](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-testing-technician-certification-provider-program-acceptance-com)
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

VICINITY MAP



PROJECT DIRECTORY

- OWNER**
COVINA VALLEY UNIFIED SCHOOL DISTRICT
518 E BADILLO STREET
COVINA, CA 91723
CONTACT: BRIAN JOHNSON
PH: 626.974.7000
BJOHNSON@CVUSD.ORG
- MECHANICAL ENGINEER**
DLR GROUP
700 FLOWER ST 22ND FLOOR
LOS ANGELES, CA 90017
CONTACT: DONNA ZHAO
PH: 213.800.9400
NPATENA@DLRGROUP.COM
- ELECTRICAL ENGINEER**
DLR GROUP
700 FLOWER ST 22ND FLOOR
LOS ANGELES, CA 90017
CONTACT: NORMAN PATENA
PH: 213.800.9400
NPATENA@DLRGROUP.COM
- ARCHITECT**
DLR GROUP
1650 SPRUCE ST. #300
RIVERSIDE, CA 92507
CONTACT: JESSE MILLER
PH: 951.882.0470
JMILLER@DLRGROUP.COM
- STRUCTURAL ENGINEER**
DLR GROUP
700 FLOWER ST 22ND FLOOR
LOS ANGELES, CA 90017
CONTACT: DANIEL KHANM
PH: 213.800.9400
DANKHAN@DLRGROUP.COM



GROVECENTER ELEM. SCHOOL
COVID 19 - COVINA VALLEY DISTRICT HVAC REPLACEMENT
775 N LARK ELLEN AVE. WEST COVINA, CA 91791

100% CONSTRUCTION DOCUMENTS
05/05/2022 REVISIONS
5 1/15/2023

75-22605-00
DSA A#03-122225
DSA File #: 19-25
COVER SHEET

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BADILLO STREET

ELGENIA STREET

DOSH DRIVE

GROVE CENTER


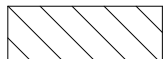

ELLEN AVENUE

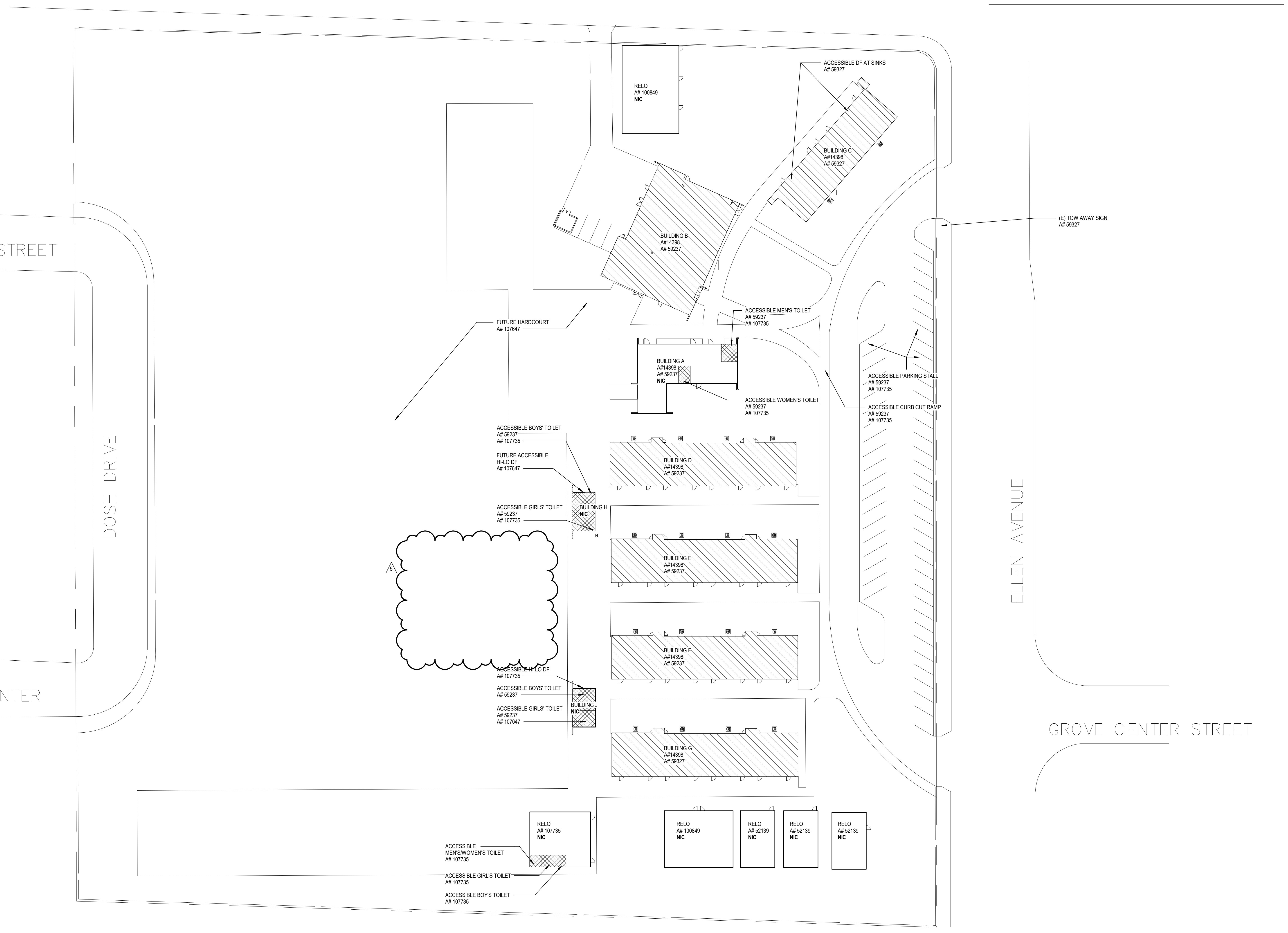
GROVE CENTER STREET

DSA CERTIFICATON LIST

APPLICATION #	FILE #	APPROVAL YEAR	NOTE
03-14398	19-25	1949	ORIGINAL CAMPUS BUILDINGS
03-59237	19-25	1993	MODERNIZATION
03-198353	19-25	2005	ALTERATION TO MULTIPURPOSE BLDG
03-107735	19-25	2008	4-RELOCATABLE CLASSROOM BLDGS.
03-117196	19-25	2017	3-SOLAR PANEL STRUCTURES PC#02-113544 & SITEMWORK
03-119460	19-25	2018	RELOCATION OF 2-CLASSROOM BUILDINGS
03-107647	19-25	2018	CONSTRUCTION OF LIB/MEDIA CENTER

SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



GROVECENTER ELEM. SCHOOL
 COVID 19 - COVINA VALLEY DISTRICT HVAC REPLACEMENT
 775 N LARK ELLEN AVE WEST COVINA, CA 91791

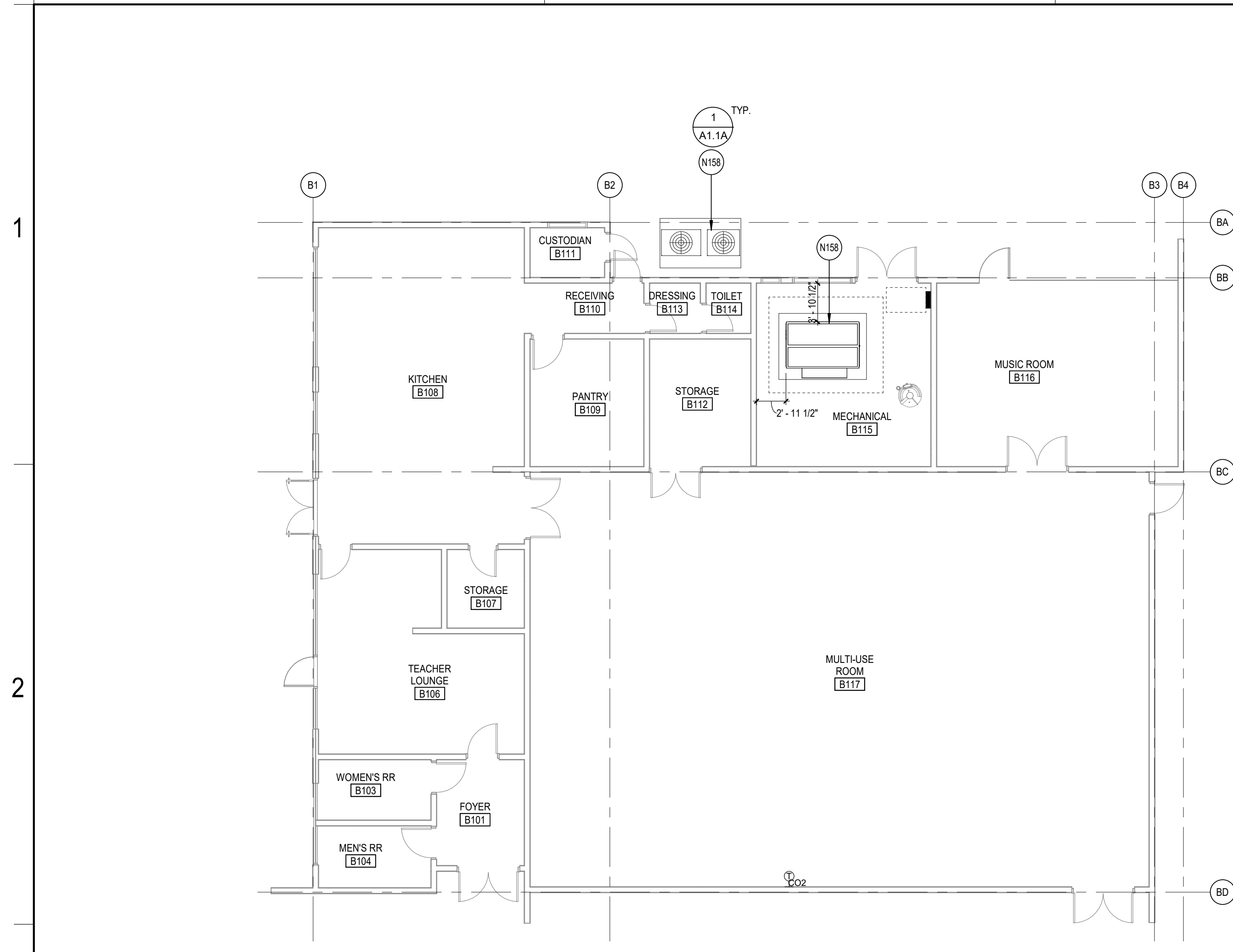
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75-22605-00
 DSA #A03-122225
 DSA File #: 19-25
 ARCHITECTURAL
 SITE PLAN

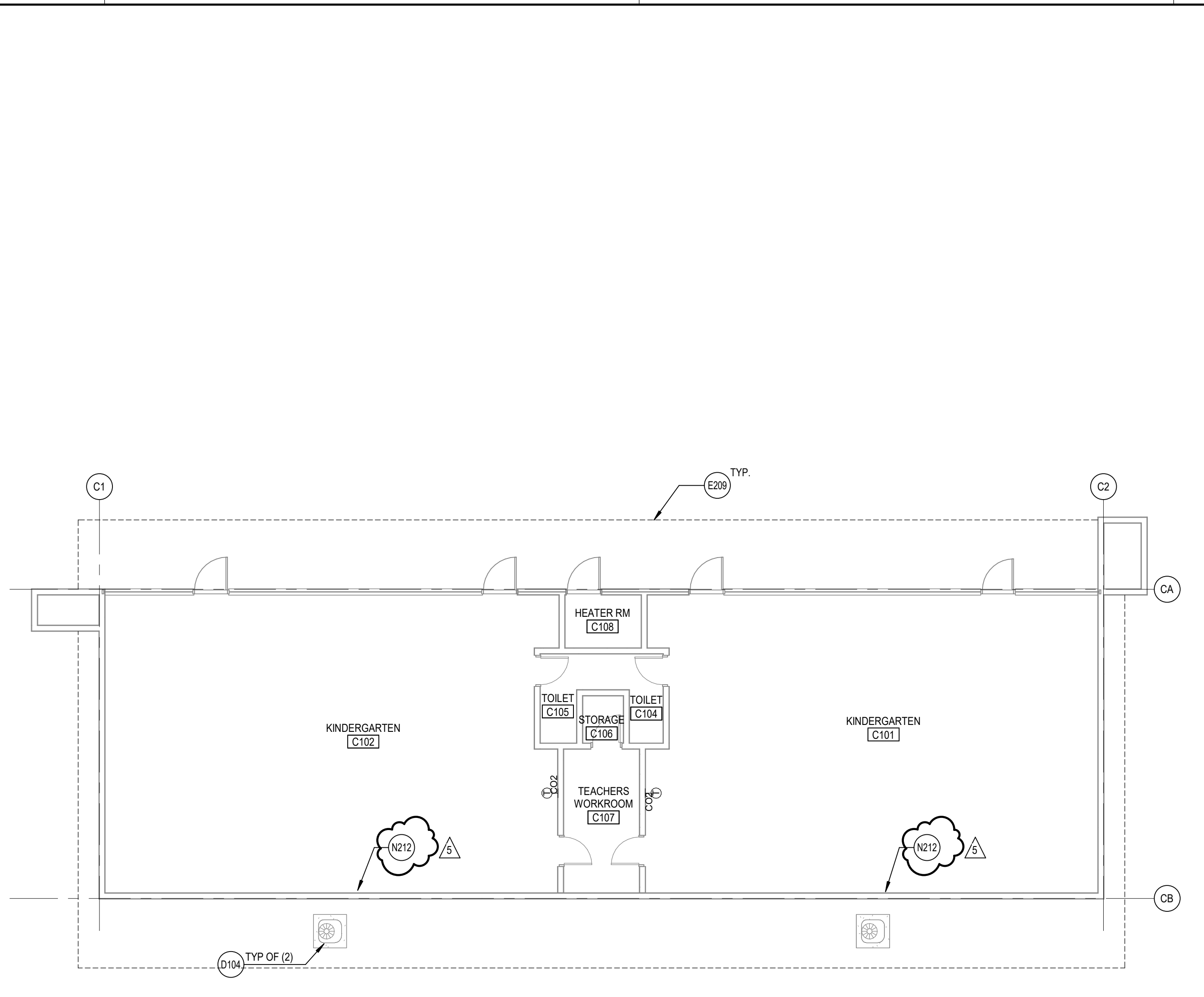
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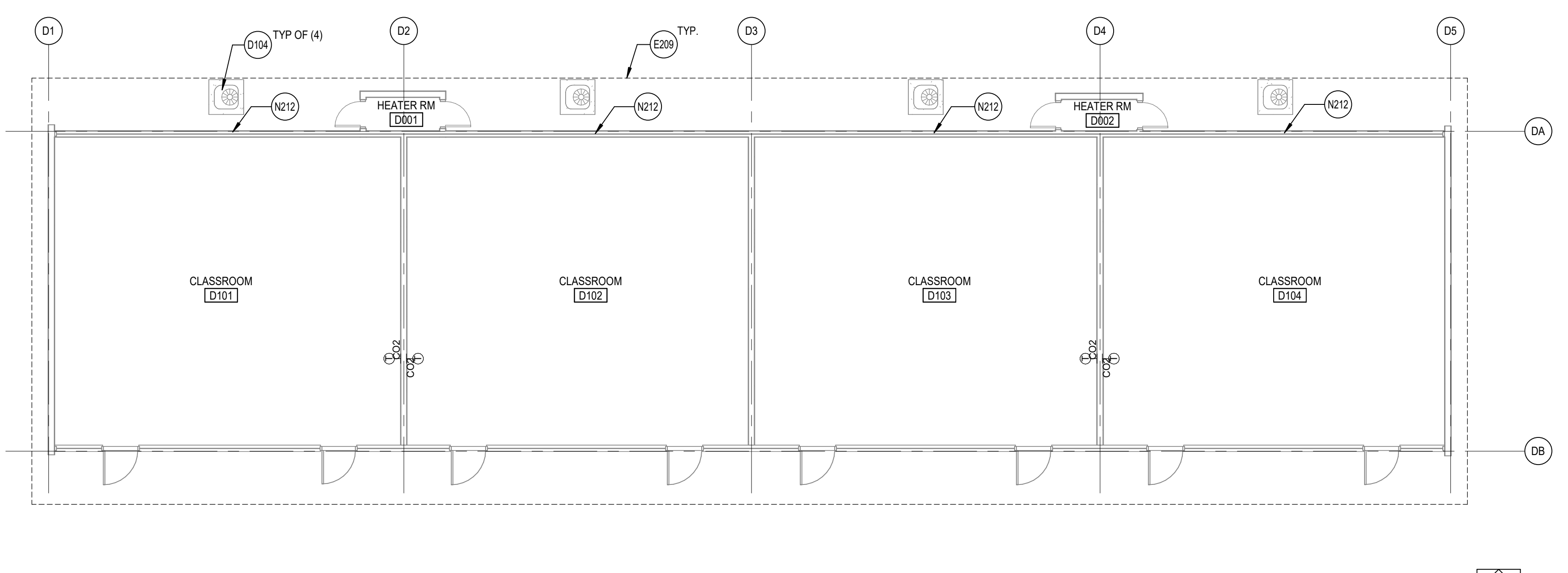




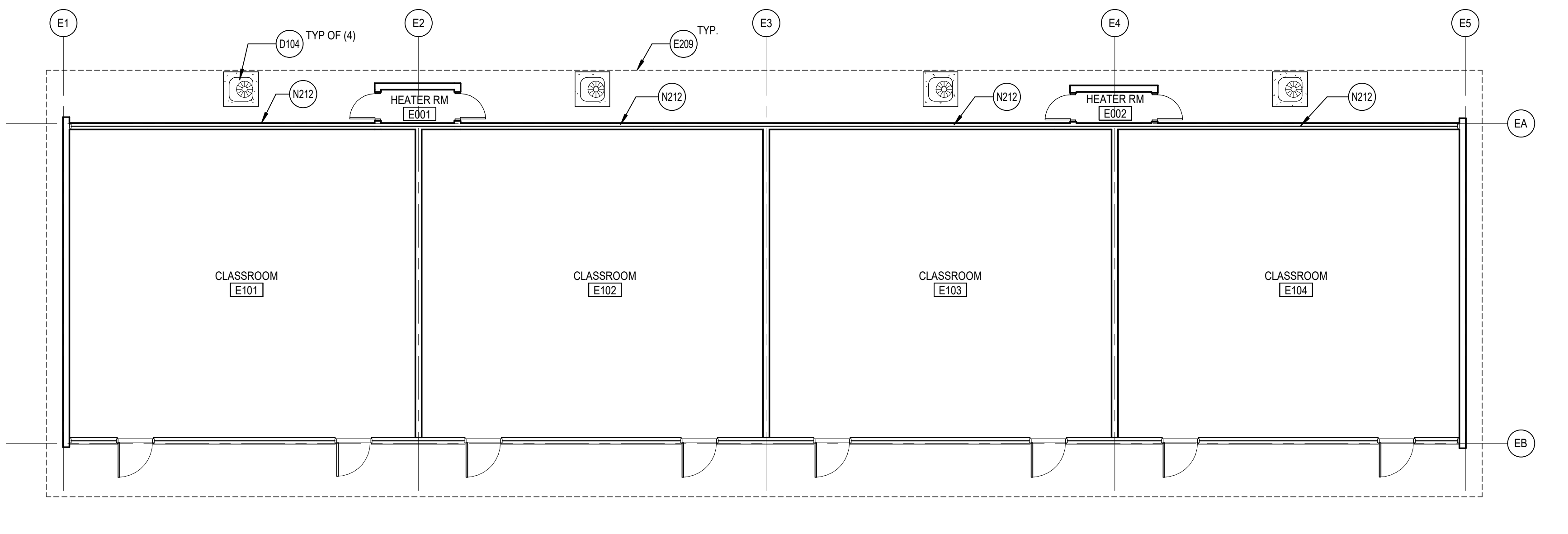
2 BUILDING B FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



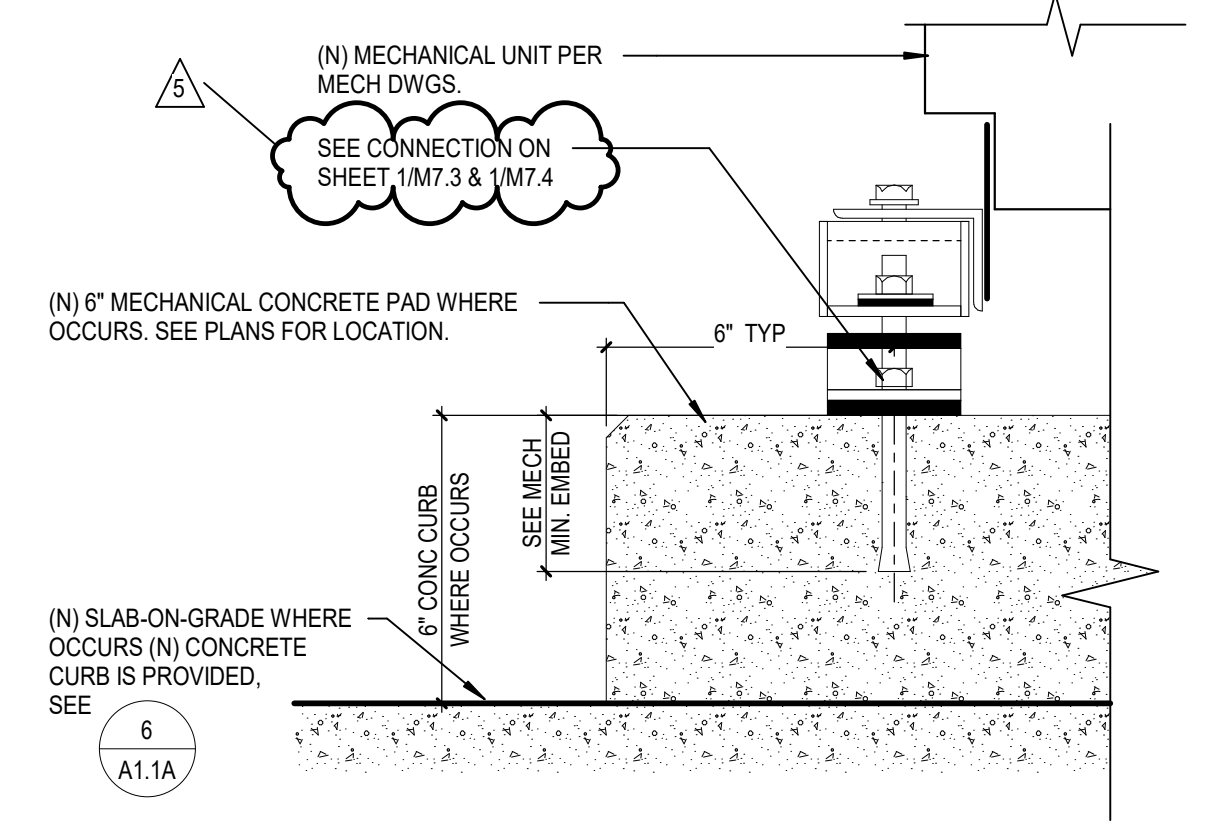
3 BUILDING C FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



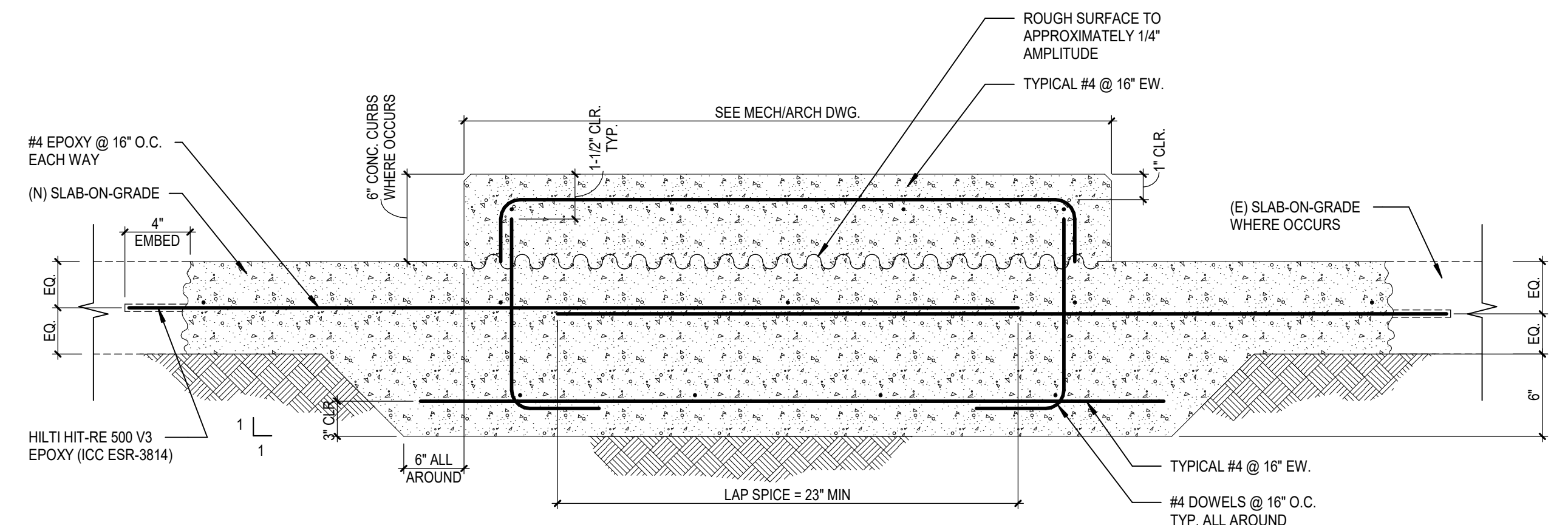
4 BUILDING D FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



5 BUILDING E FLOOR PLAN
A1.1A SCALE: 1/8" = 1'-0"



1 MECH. ANCHORAGE AT CONC. CURB
A1.1A SCALE: 3" = 1'-0"



6 TYPICAL MECH. EQUIPMENT CONCRETE PAD AT (E) SLAB-ON-GRADE
A1.1A SCALE: 1 1/2" = 1'-0"

REFERENCE KEYNOTES

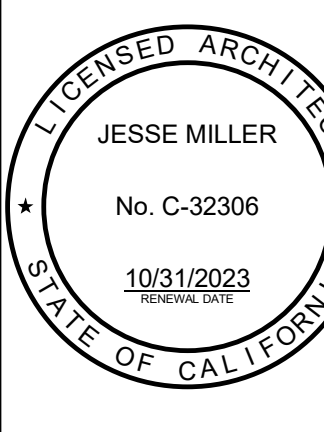
- KEYNOTES**
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACES. SEE MECH DWGS.
 - E209 REMOVE (E) MECHANICAL EQUIP. AS SHOWN DASHED
 - N158 NEW MECHANICAL EQUIPMENT ON NEW 6" THK. TOP LEVELED CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.
 - N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT

GENERAL ARCHITECTURAL NOTES

- 1. ALL INTERIOR CMU WALLS SHALL REMAIN U.O. NOT USED
- 2. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS WHERE OCCURS
- 3. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS. NOT USED
- 4. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS
- 5. MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILING OR AS SHOWN ON THE DRAWINGS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



GROVECENTER ELEM. SCHOOL
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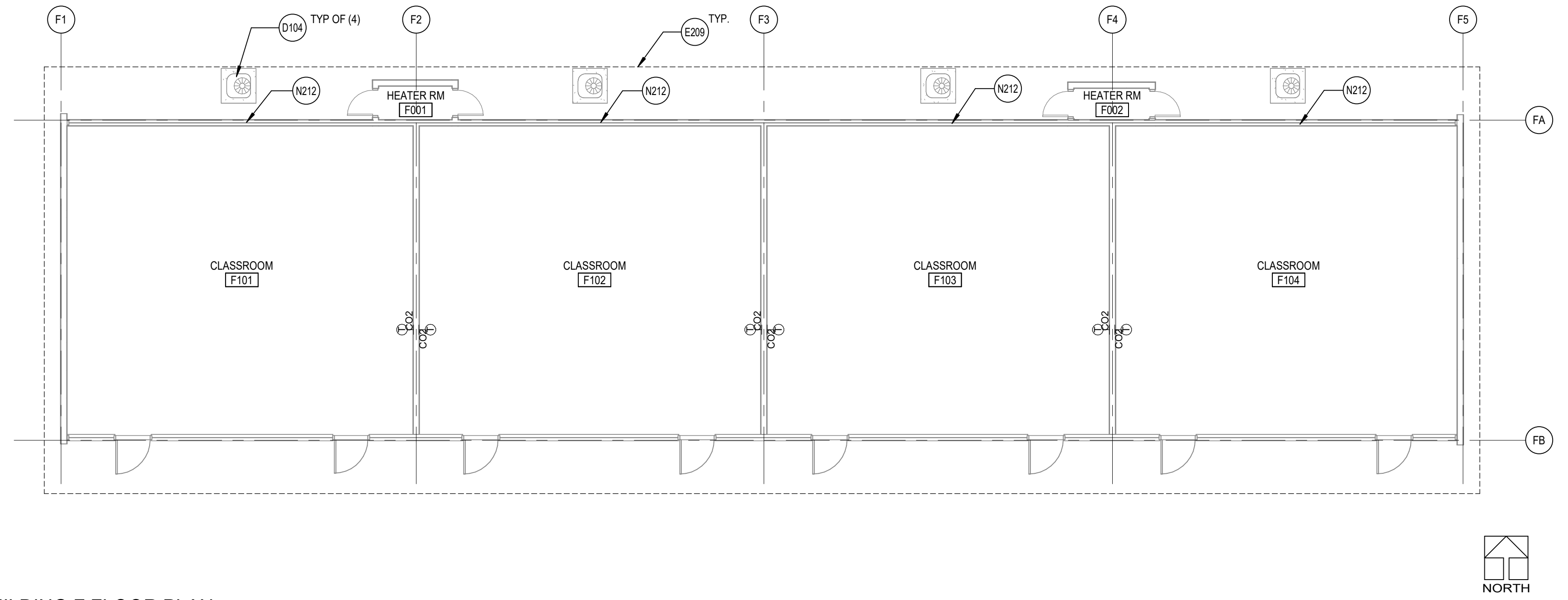
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75-22605-00
DSA A#03-122225
DSA File #: 19-25
BUILDING BCD, AND BUILDING E FLOOR PLANS

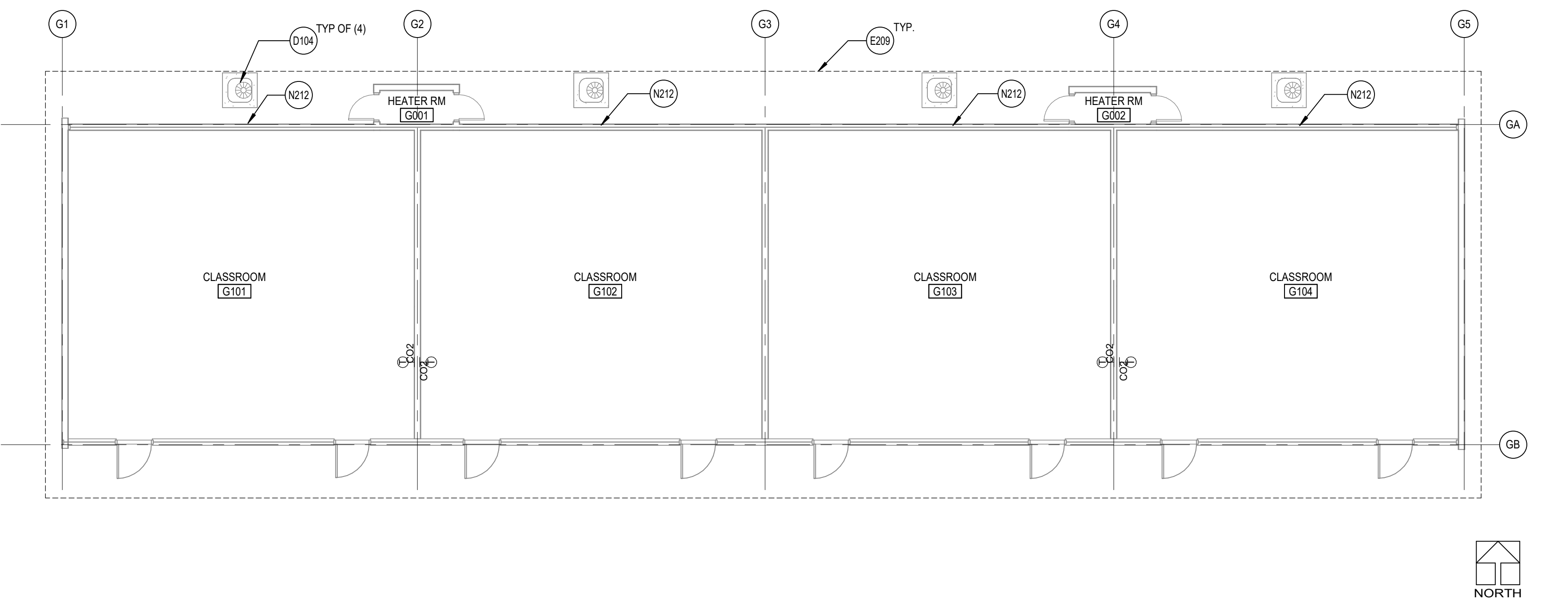
A1.1A

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1 BUILDING F FLOOR PLAN
A1.1B SCALE: 1/8" = 1'-0"



2 BUILDING G FLOOR PLAN
A1.1B SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

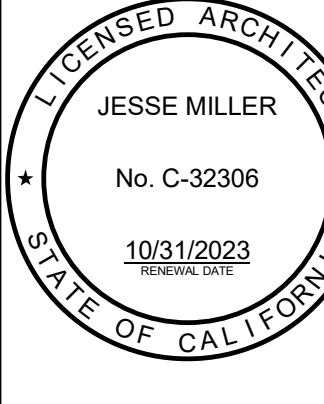
- KEYNOTES**
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DIV. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH.
 - E209 LINE OF (E) ROOF REMOVE SHOWN DASHED.
 - N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
2. NOT USED
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4. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
5. NOT USED
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



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5 1/13/2023

75-22605-00
DSA A#03-122225
DSA File #: 19-25
BUILDING F AND
BUILDING G
FLOOR PLANS

A1.1B

REFERENCE KEYNOTES

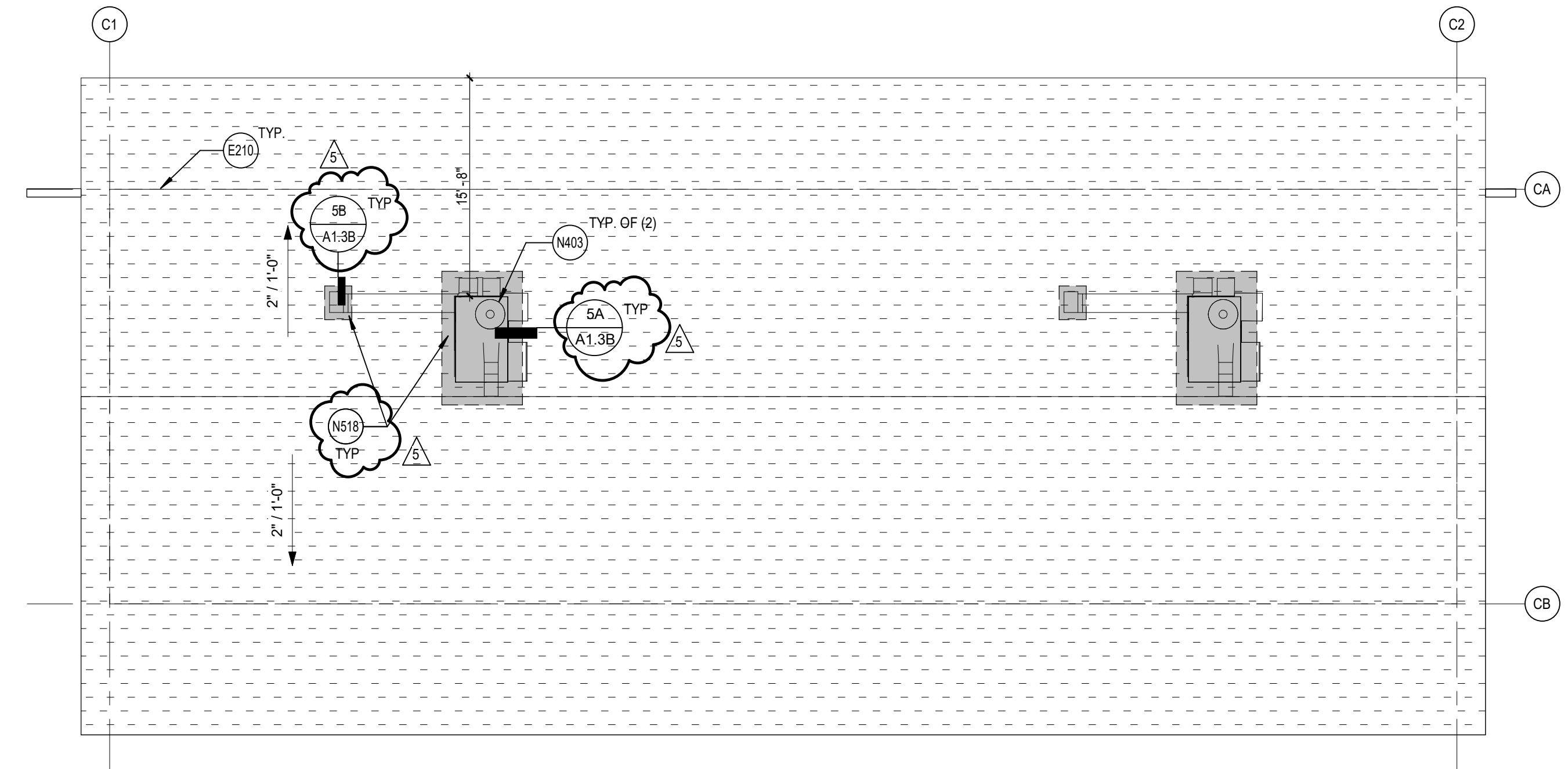
KEYNOTES	
E210	LINE OF (E) BLDG BELOW SHOWN DASHED
N400	NEW FREESTANDING METAL GUARDRAIL SYSTEM, SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00
N403	(N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURBS. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
(N) NS19	(N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

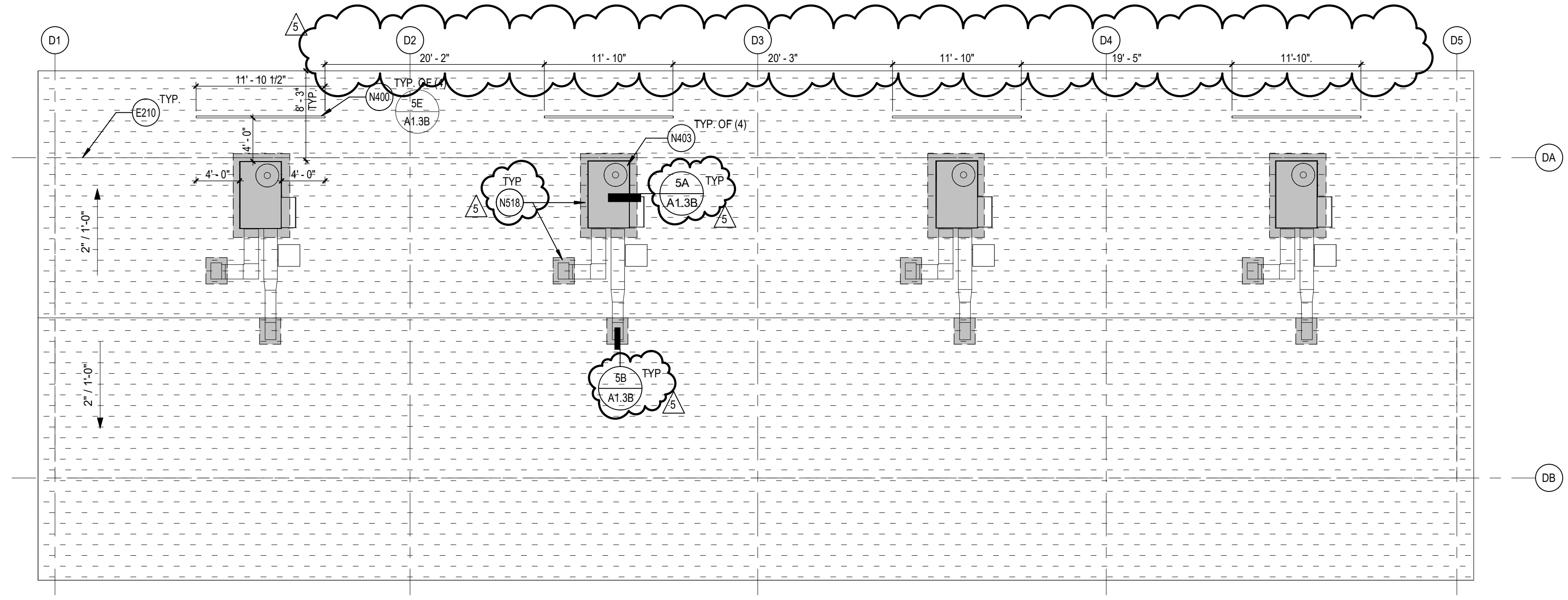
- A. (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

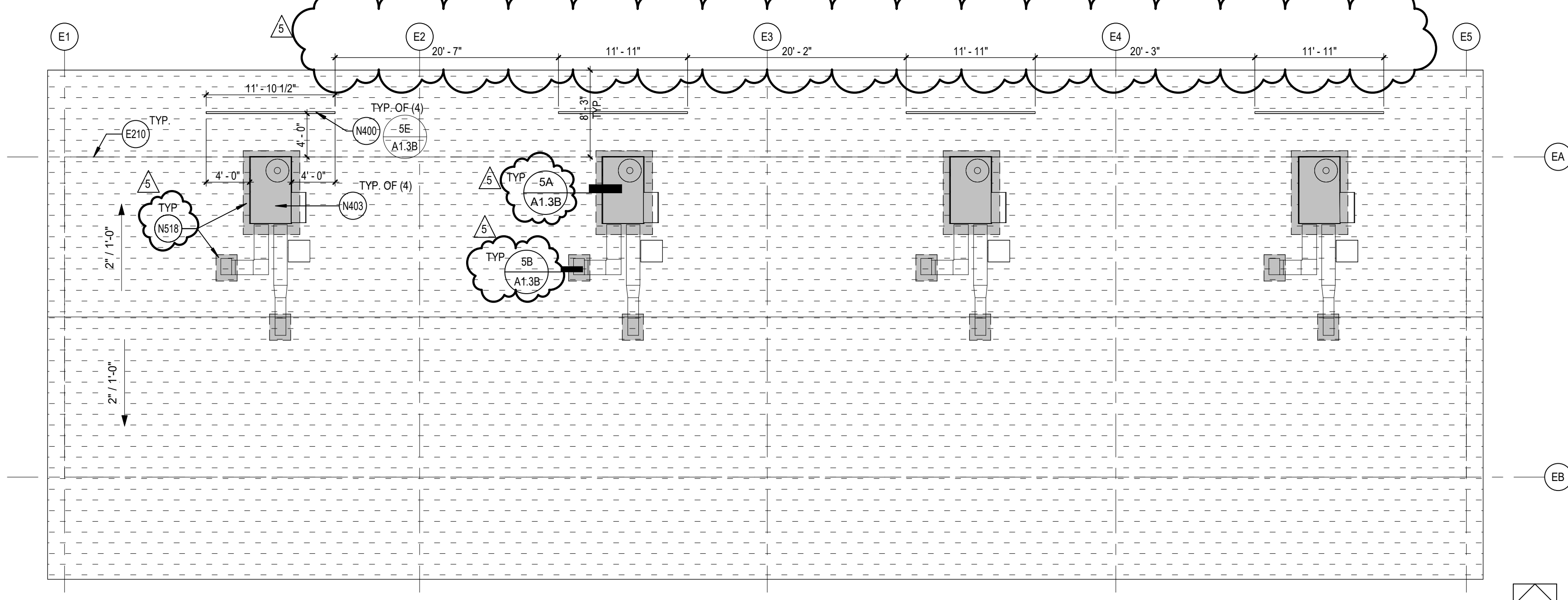
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



3 BUILDING C ROOF PLAN
A1.3A SCALE: 1/8" = 1'-0"



4 BUILDING D ROOF PLAN
A1.3A SCALE: 1/8" = 1'-0"



5 BUILDING E ROOF PLAN
A1.3A SCALE: 1/8" = 1'-0"



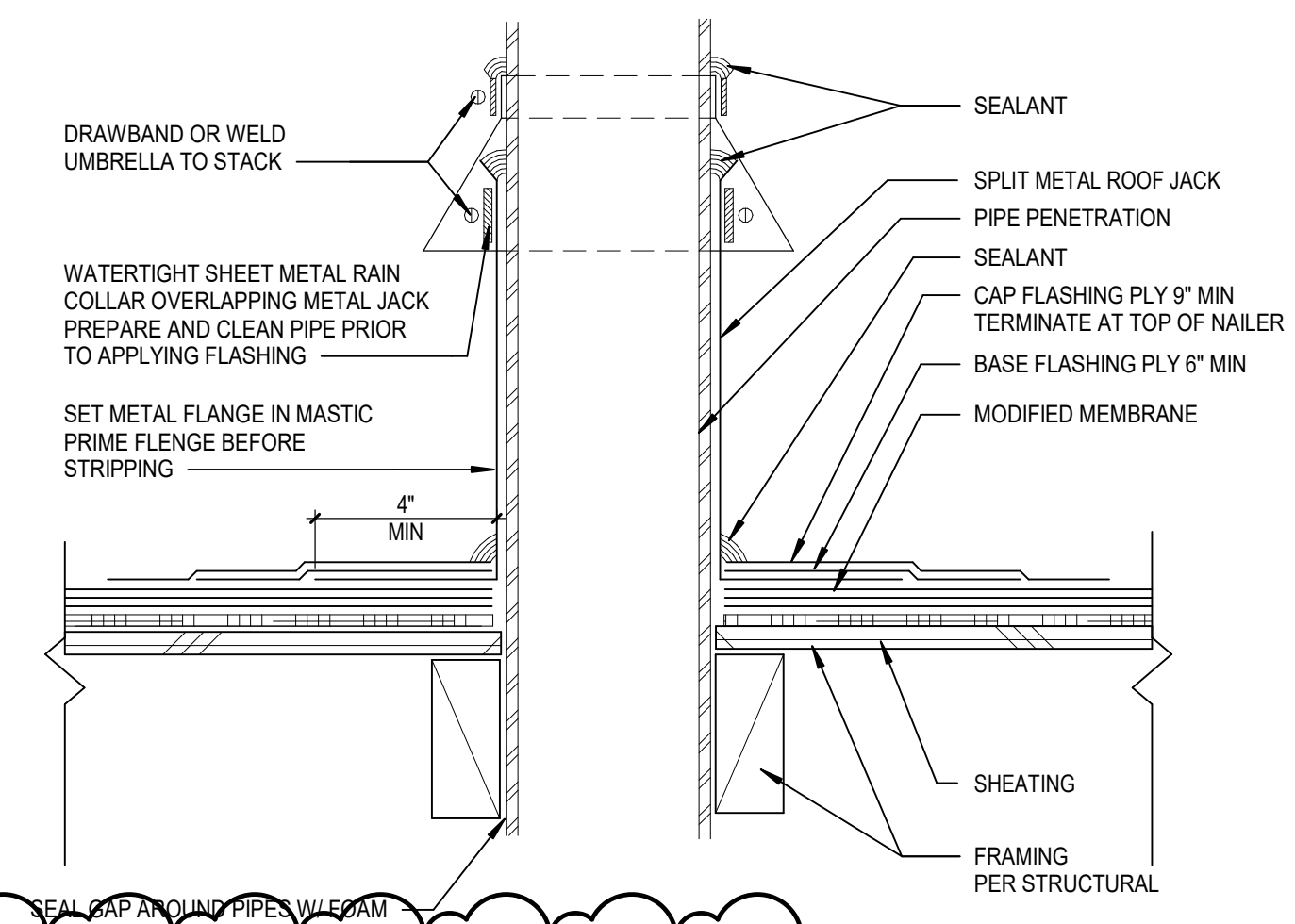
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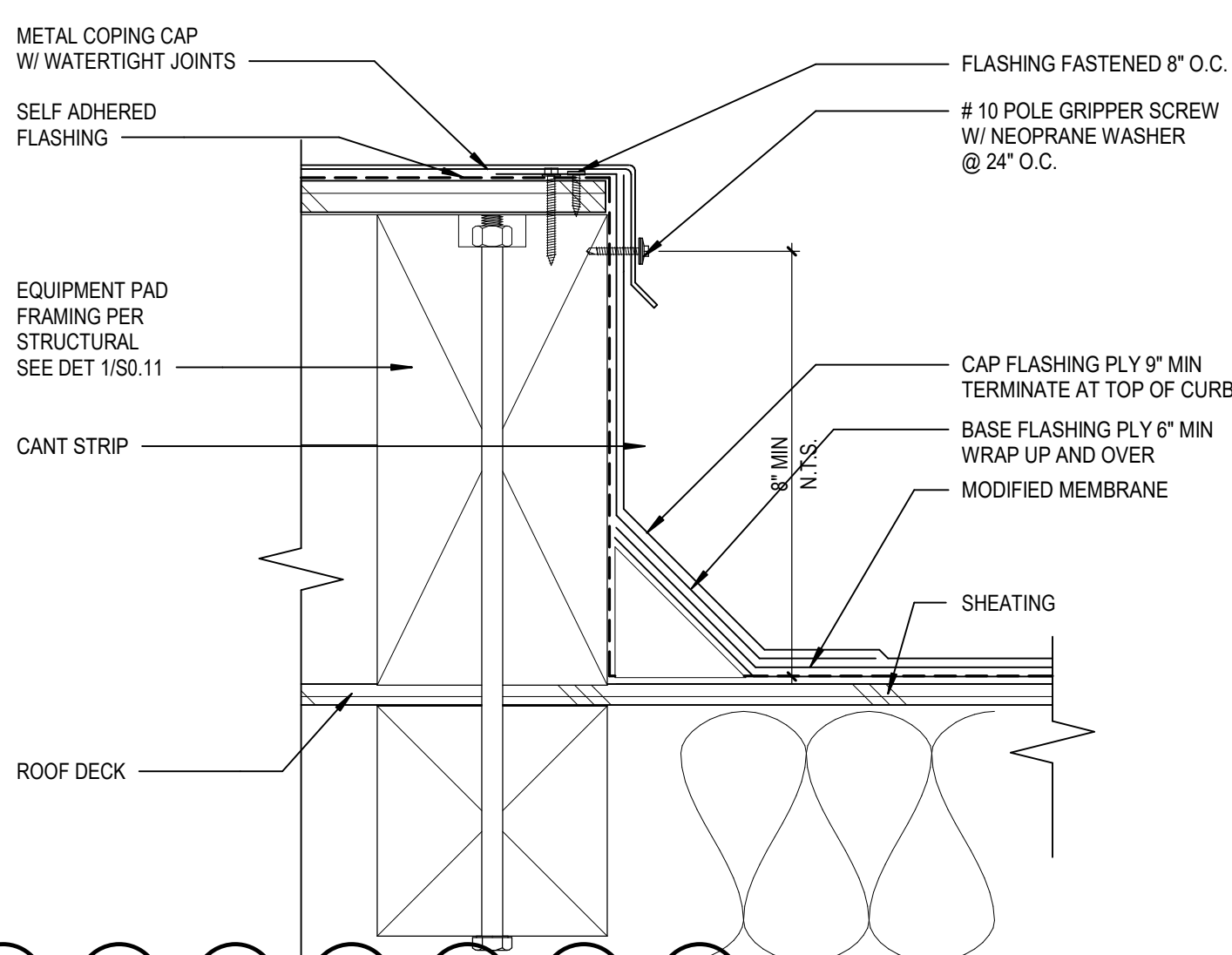
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DSA File #: 19-25
BUILDING BCD, AND BUILDING E ROOF PLANS

A1.3A

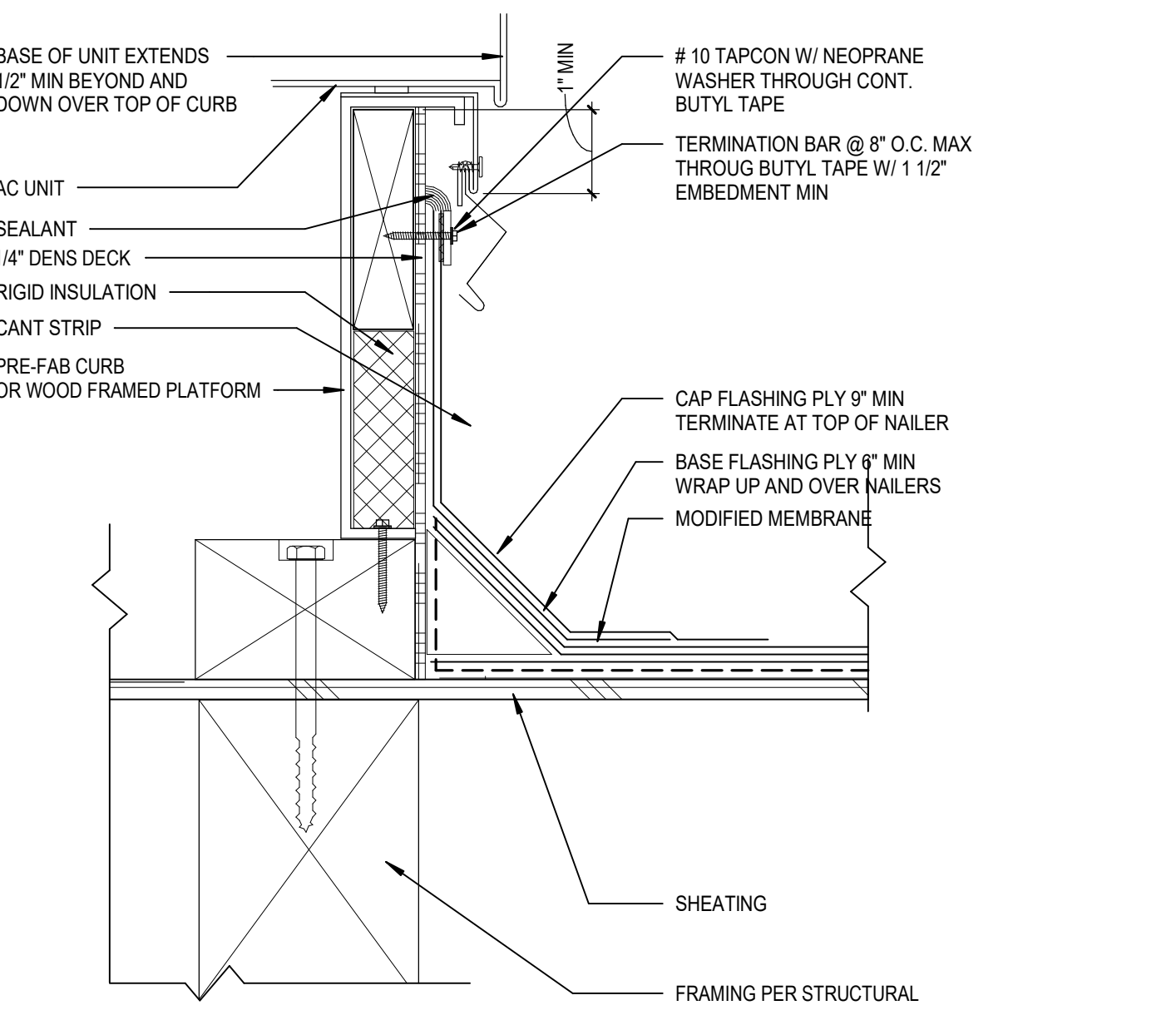
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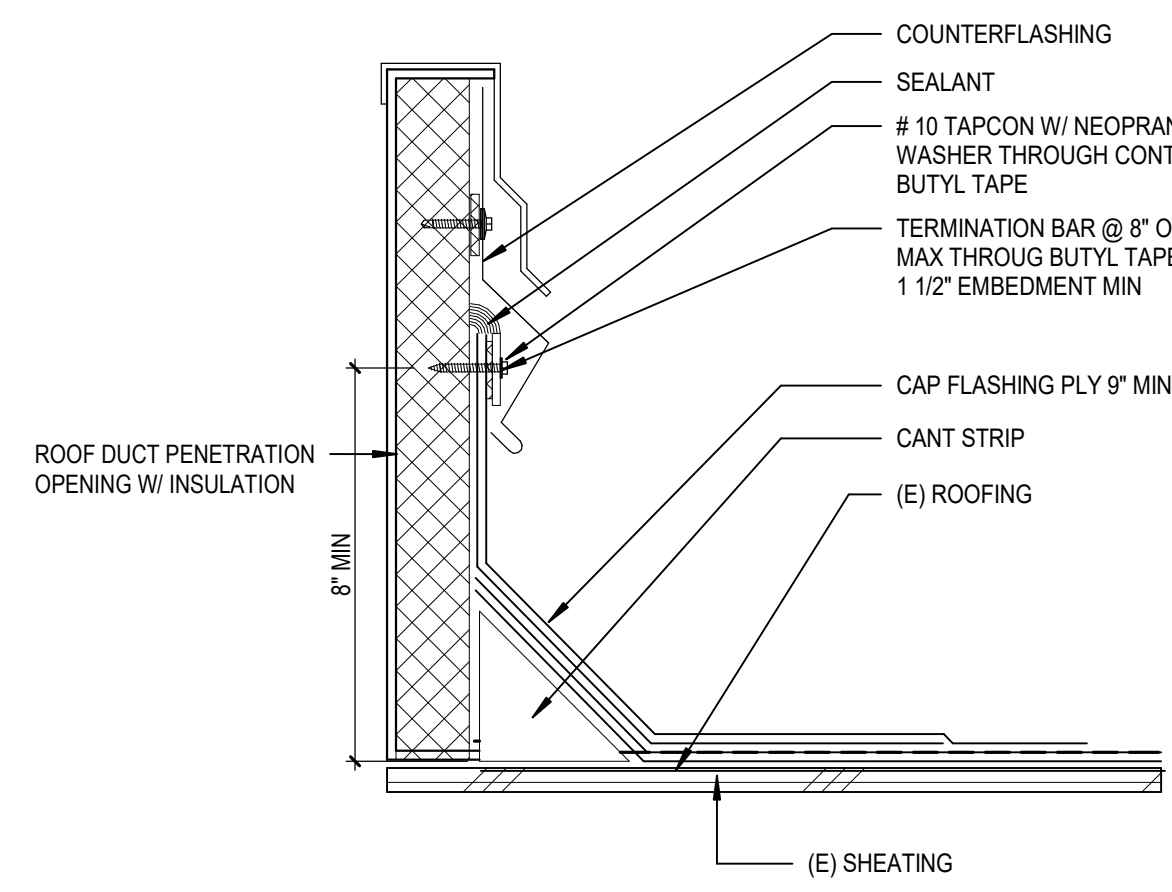
5G MOB BITUM - PIPE PENETRATION FLASHING
A1.3B SCALE: 3" = 1'-0"



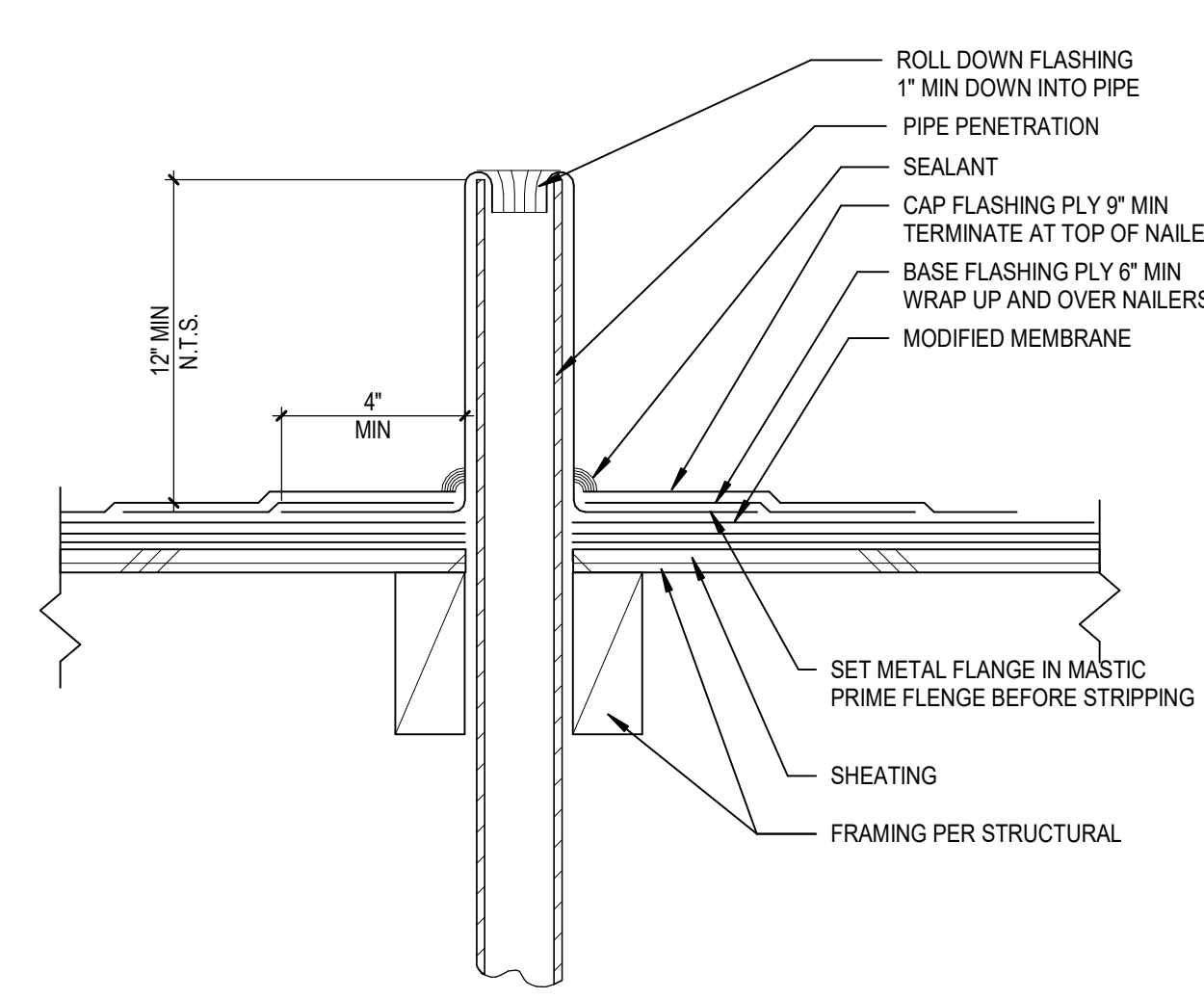
5F MOB BITUM EQUIPMENT PAD
A1.3B SCALE: 3" = 1'-0"



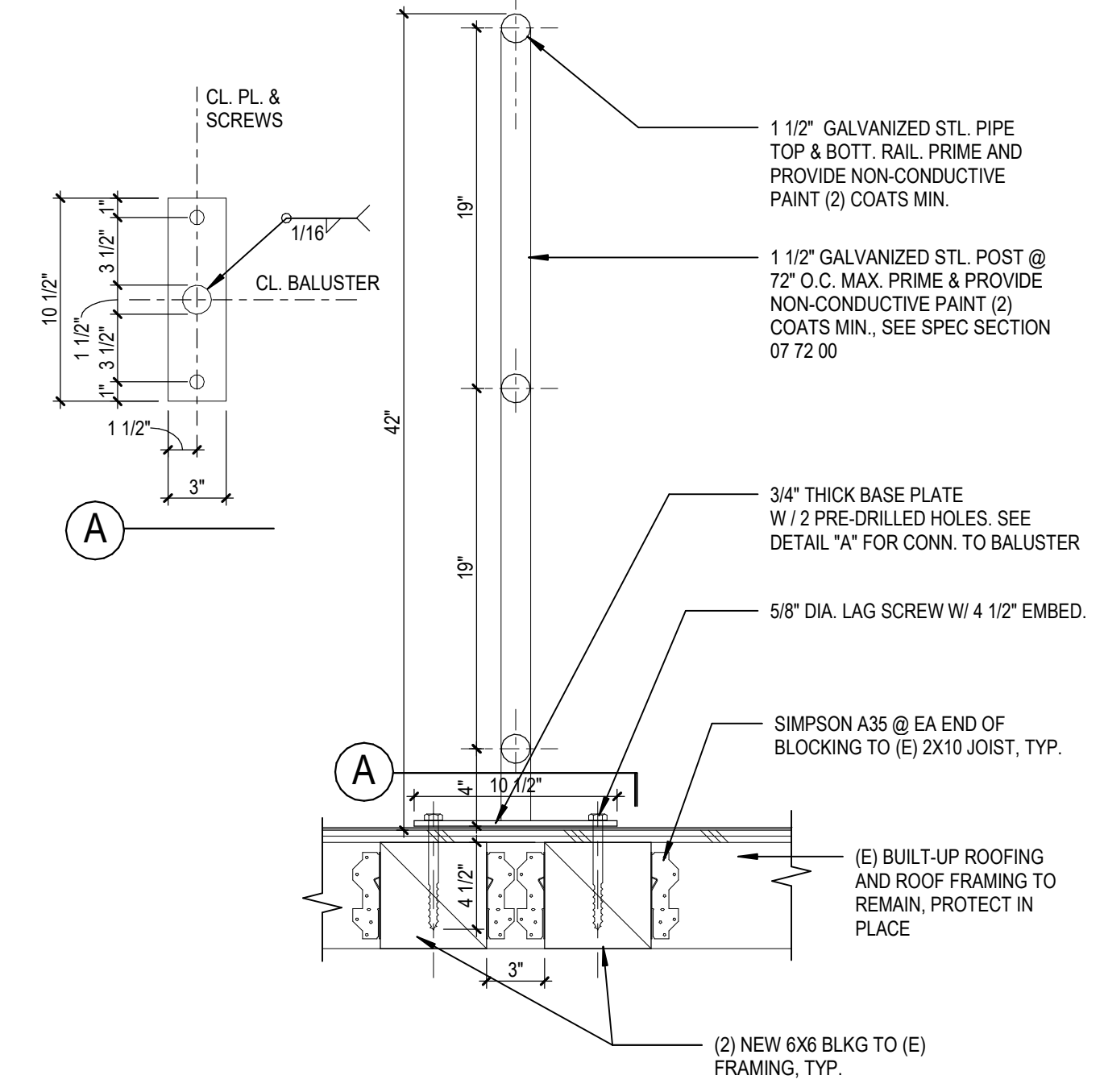
5A MOD BITUM - ACU CURB FLASHING
A1.3B SCALE: 3" = 1'-0"



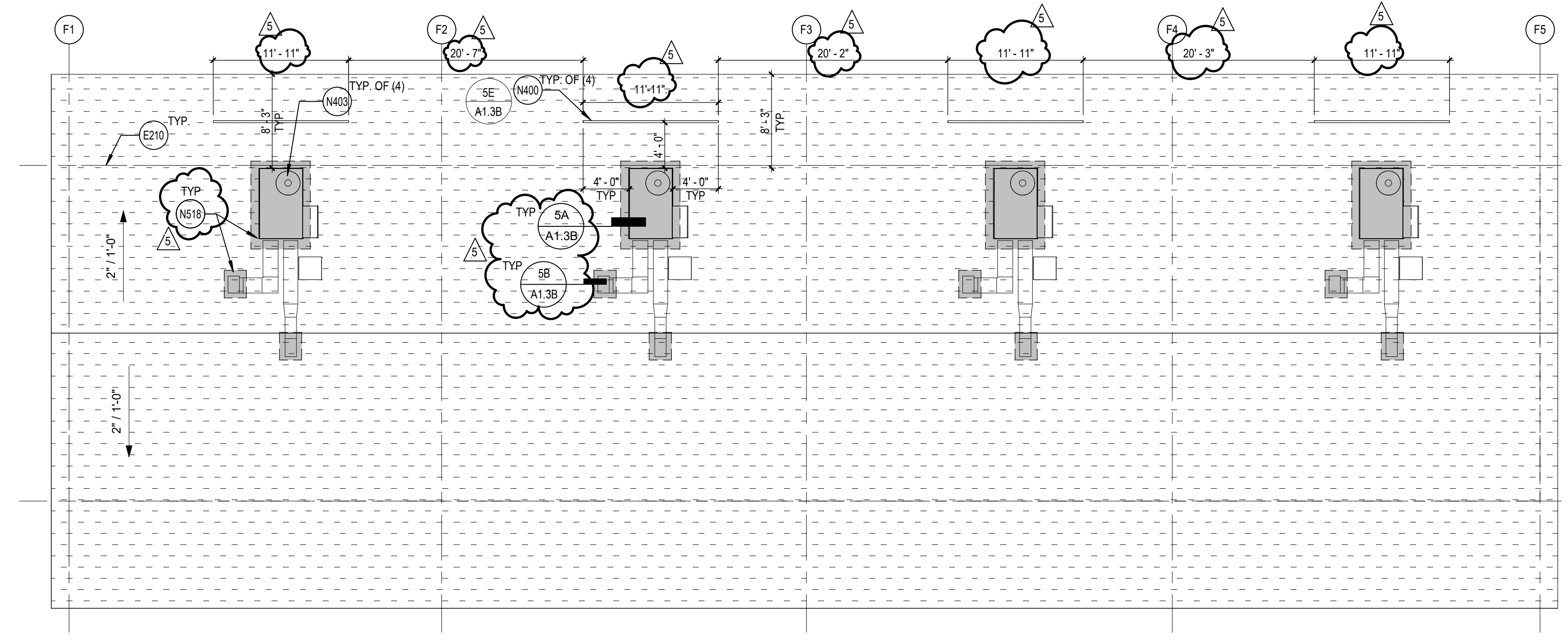
5B TYPICAL MECHANICAL DUCT PENETRATION FLASHING
A1.3B SCALE: 3" = 1'-0"



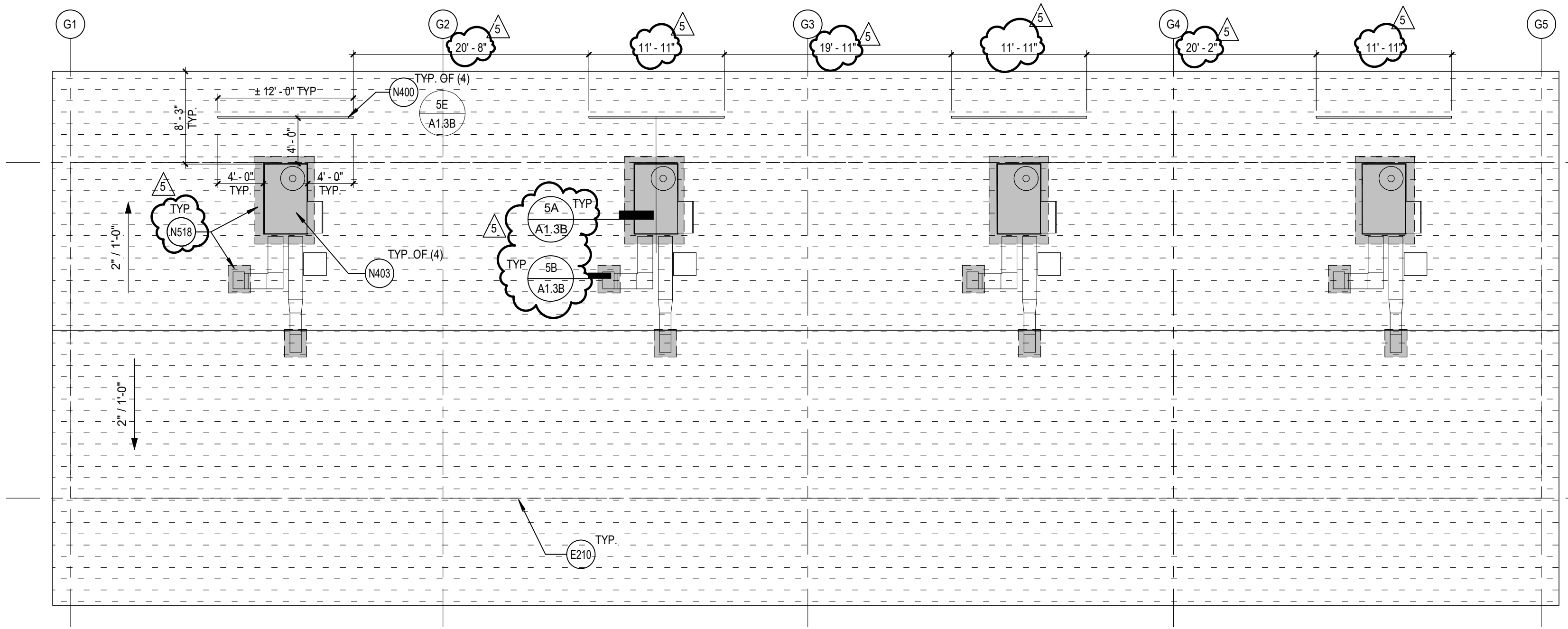
5D MOD BITUM - VENT PIPE FLASHING
A1.3B SCALE: 3" = 1'-0"



5E HVAC ROOF GUARDRAIL - WD FRAMING
A1.3B SCALE: 1 1/2" = 1'-0"



2 BUILDING F ROOF PLAN
A1.3B SCALE: 1/8" = 1'-0"



1 BUILDING G ROOF PLAN
A1.3B SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

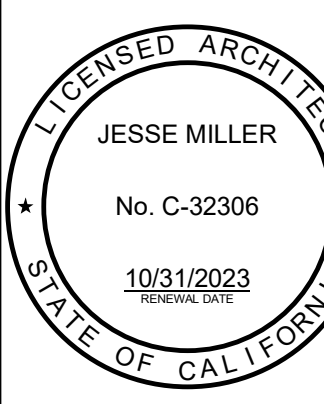
- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
- N400 NEW FREESTANDING METAL GUARDRAIL SYSTEM, SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00
- (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
- (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

- A. (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3C FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

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- THE CONTRACTOR SHALL:
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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
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 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



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75-22605-00
DSA A#03-122225
DSA File #: 19-25
BUILDING F AND BUILDING G ROOF PLANS

A1.3B

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REFERENCE KEYNOTES

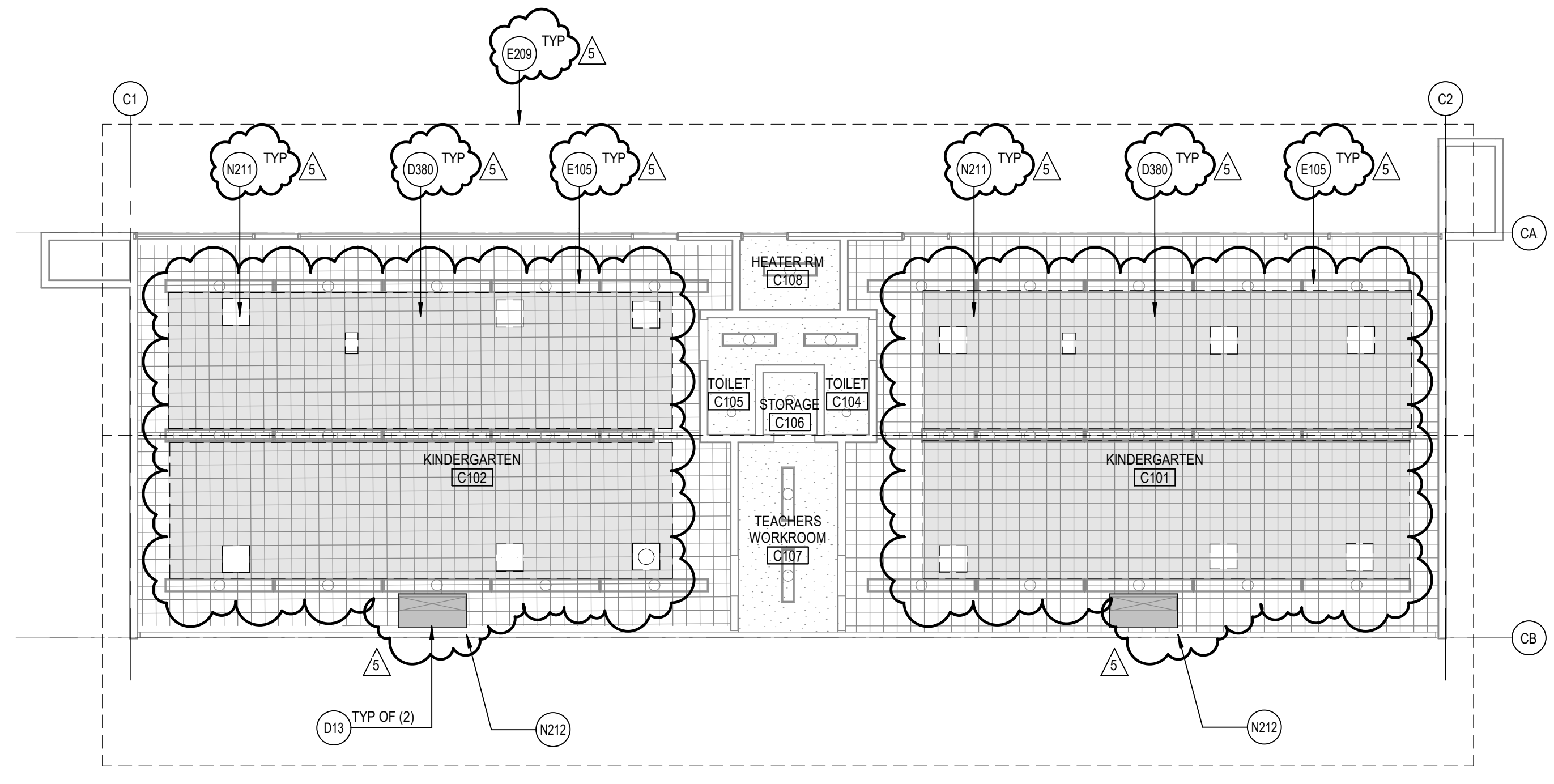
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- E105 (E) LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE LINE OF (E) ROOF ABOVE SHOWN DASHED
- E209 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS
- N211 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT

REFLECTED CEILING PLAN GENERAL NOTES

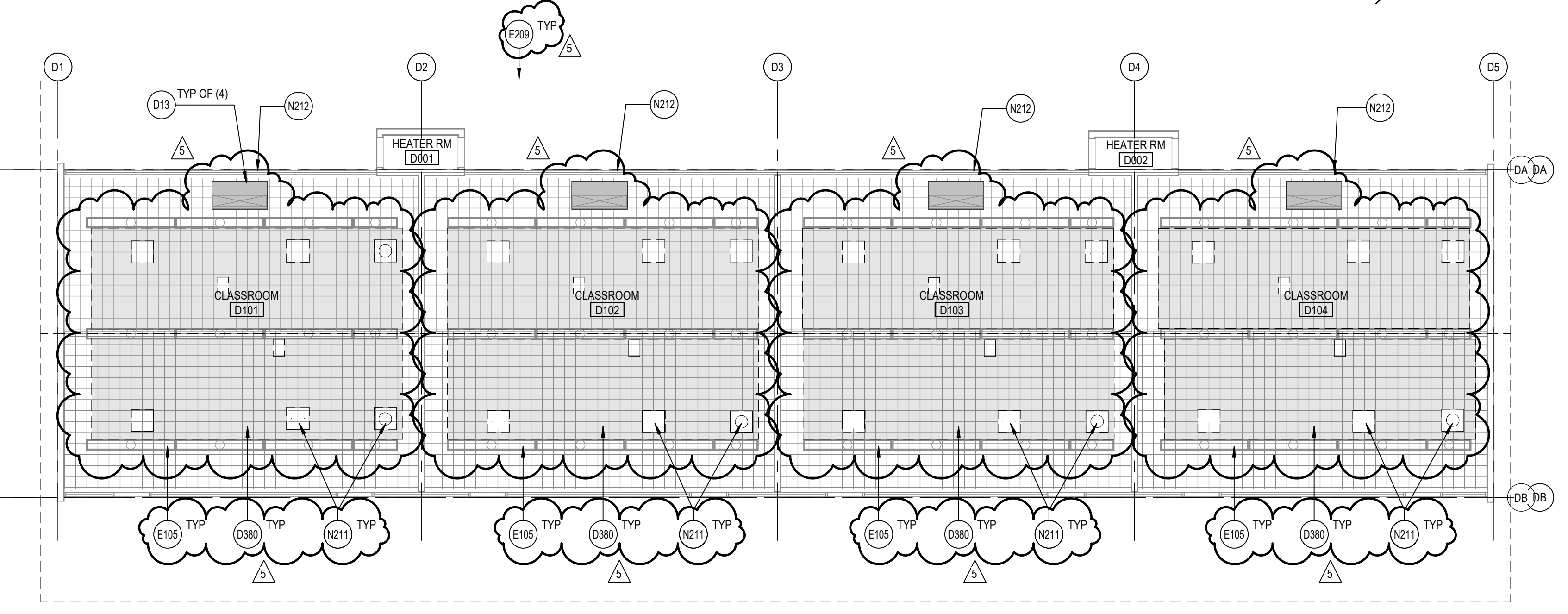
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- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

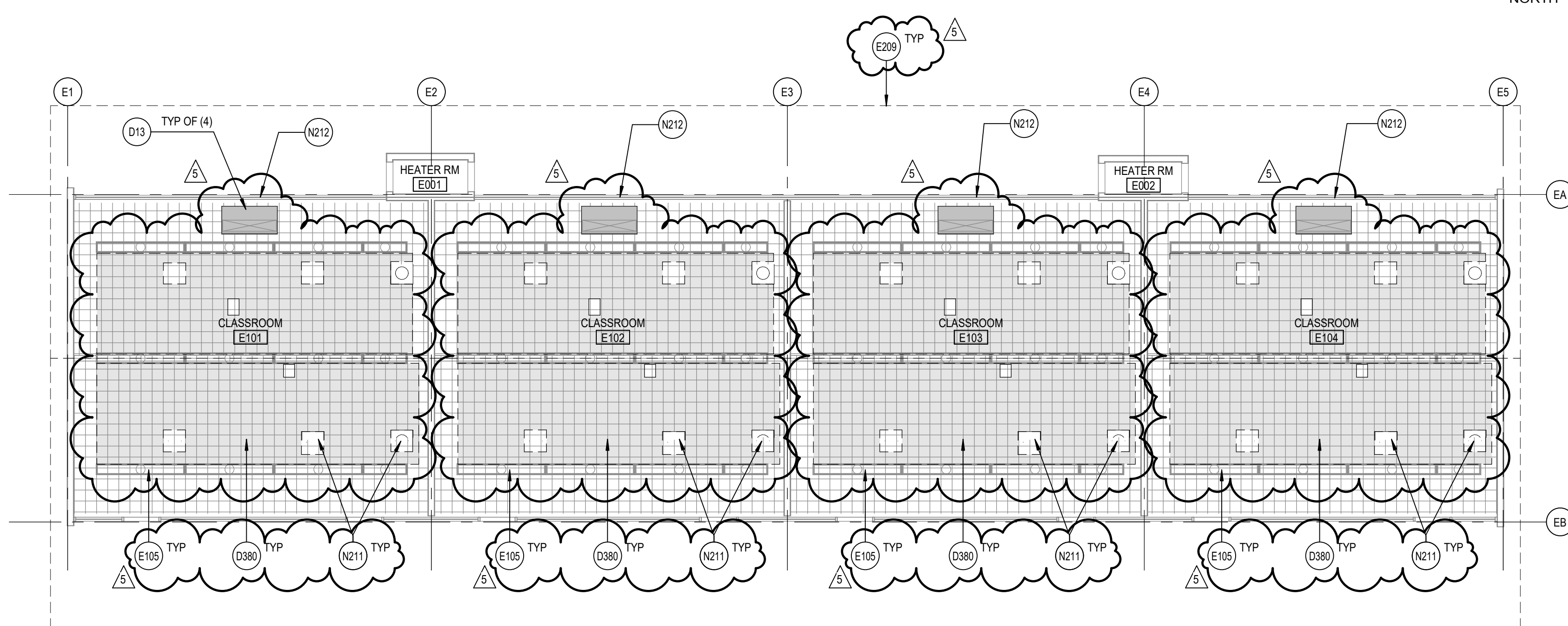
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3 BUILDING C REFLECTED CEILING PLAN
A3.1A SCALE: 1/8" = 1'-0"



4 BUILDING D REFLECTED CEILING PLAN
A3.1A SCALE: 1/8" = 1'-0"



5 BUILDING E REFLECTED CEILING PLAN
A3.1A SCALE: 1/8" = 1'-0"

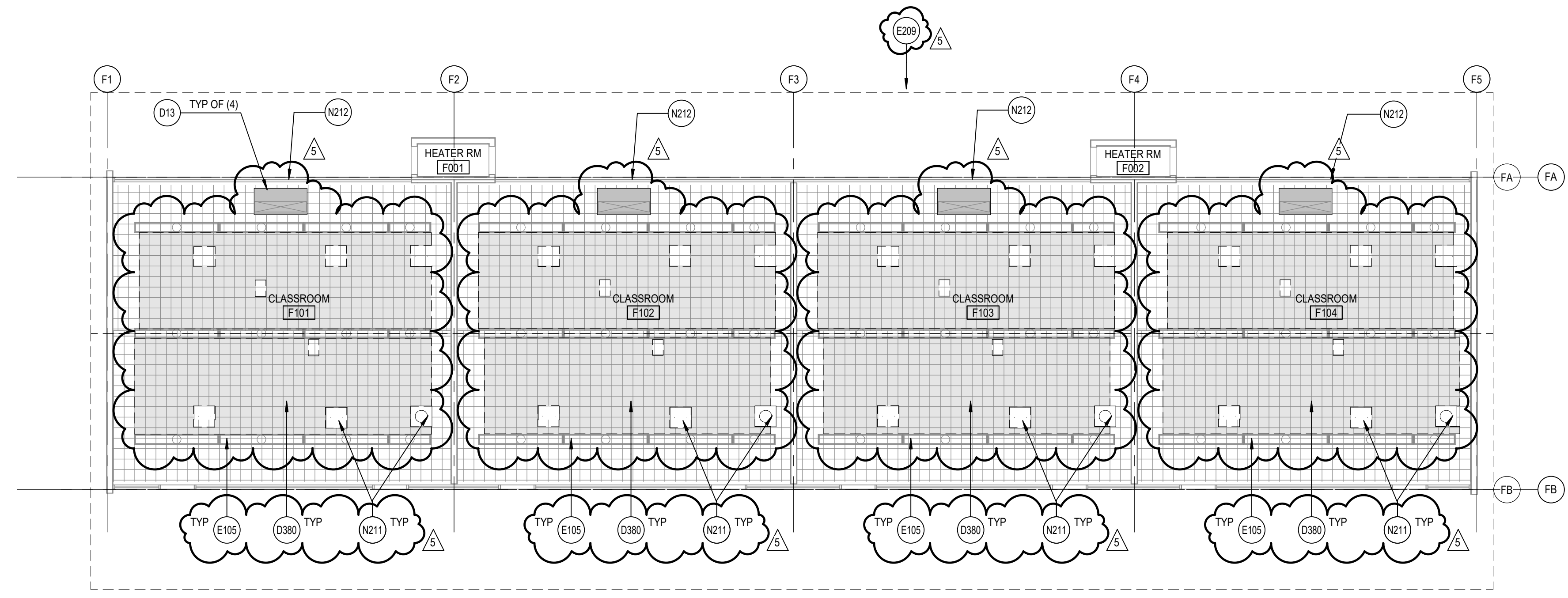


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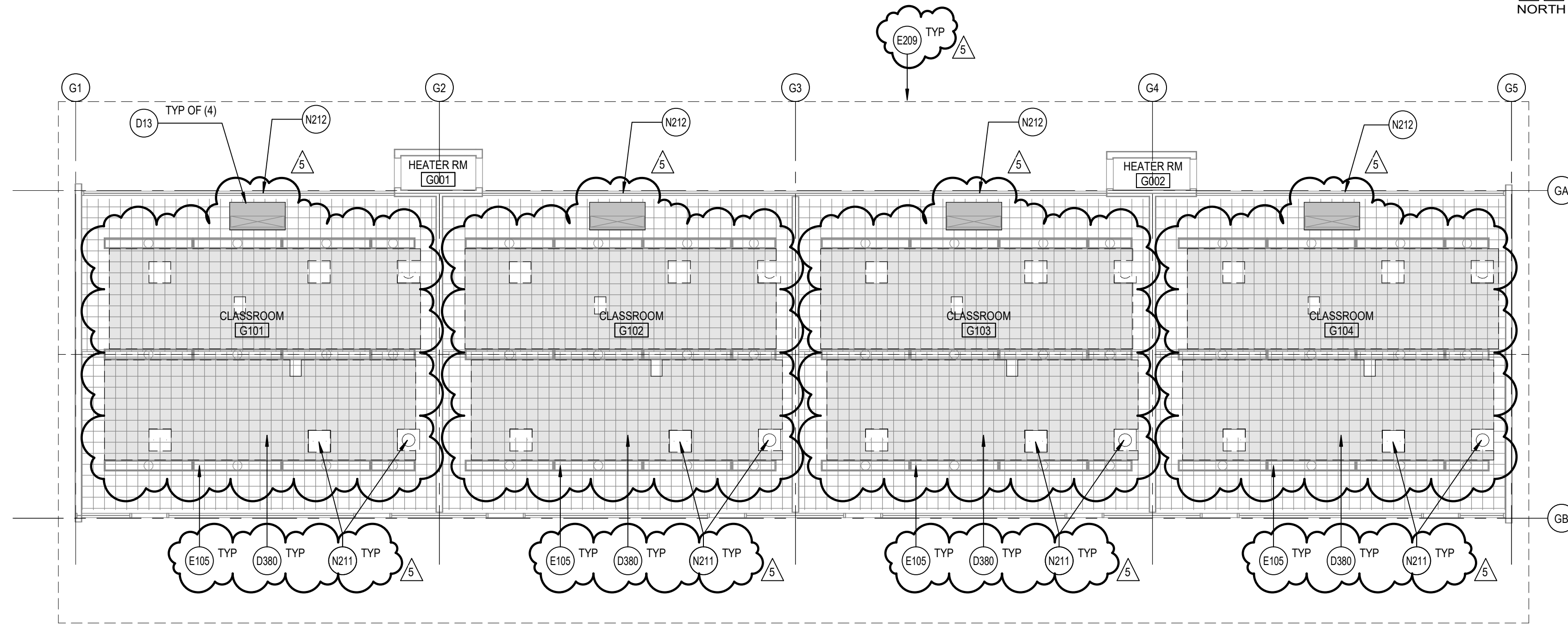
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75-22605-00
DSA A#03-122225
DSA File #: 19-25
BUILDING BCD, AND BUILDING E REFLECTED CEILING PLANS

A3.1A



2 BUILDING F REFLECTED CEILING PLAN
A3.1B SCALE: 1/8" = 1'-0"



1 BUILDING G REFLECTED CEILING PLAN
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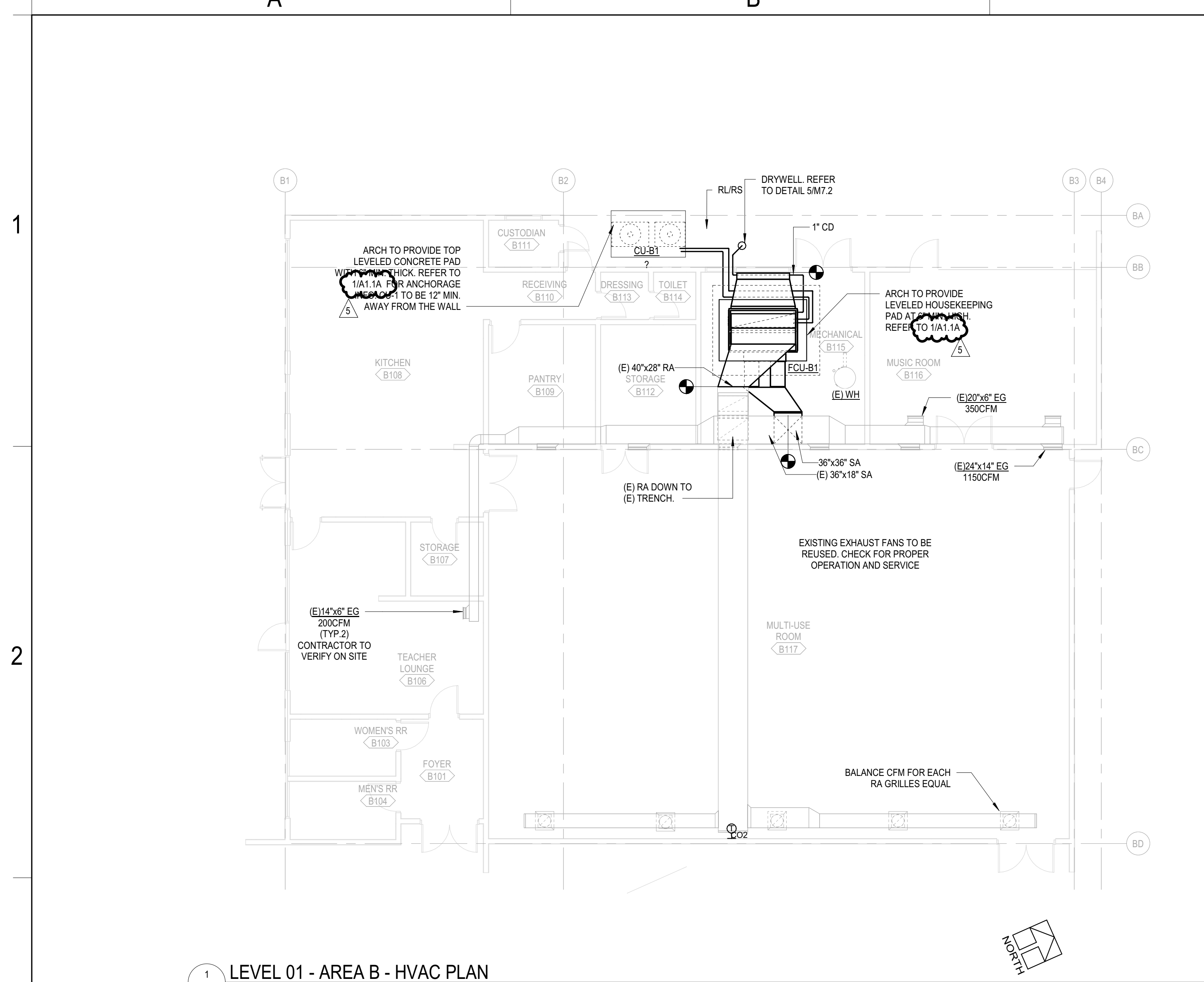
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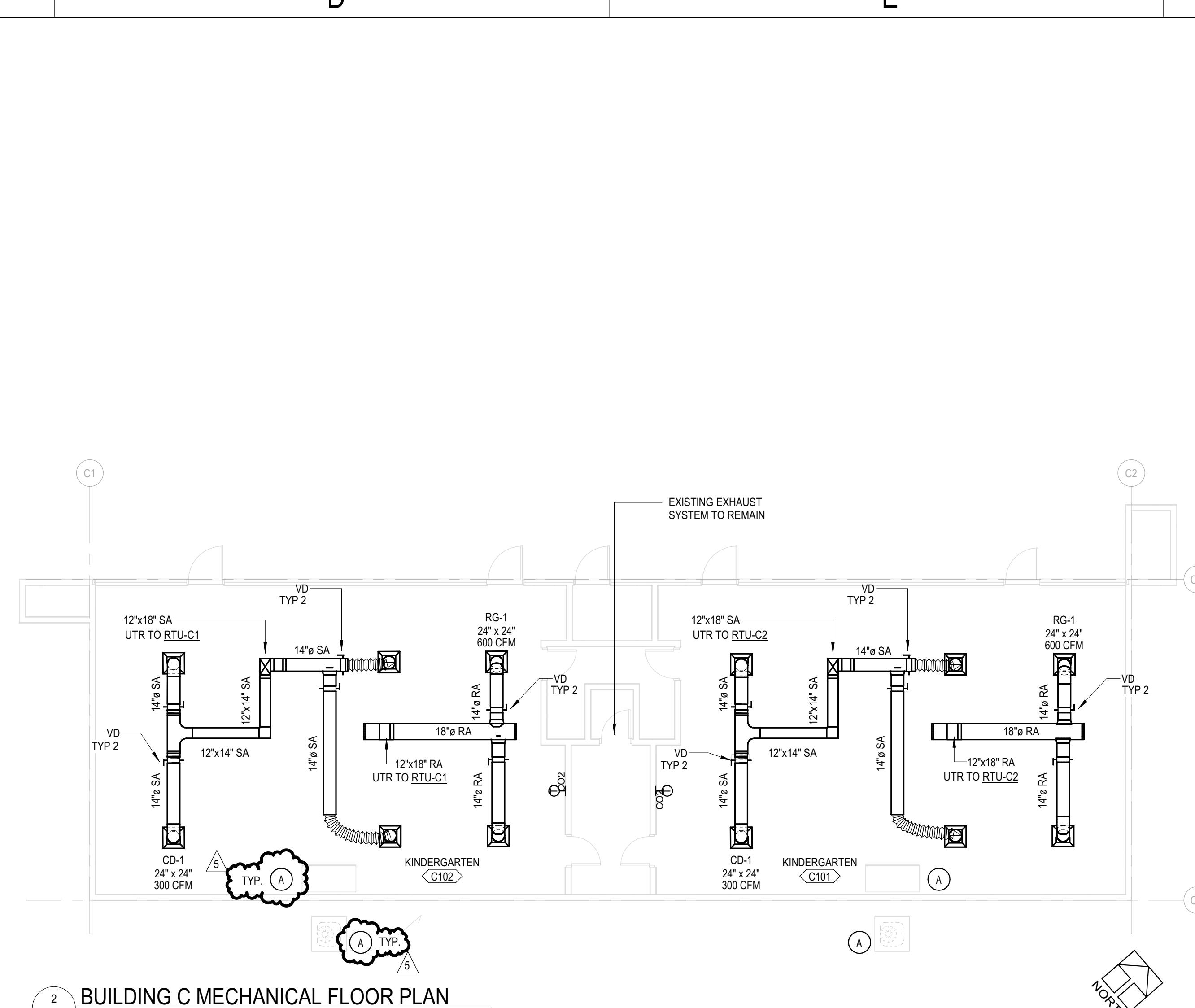
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BUILDING F AND BUILDING G REFLECTED CEILING PLANS

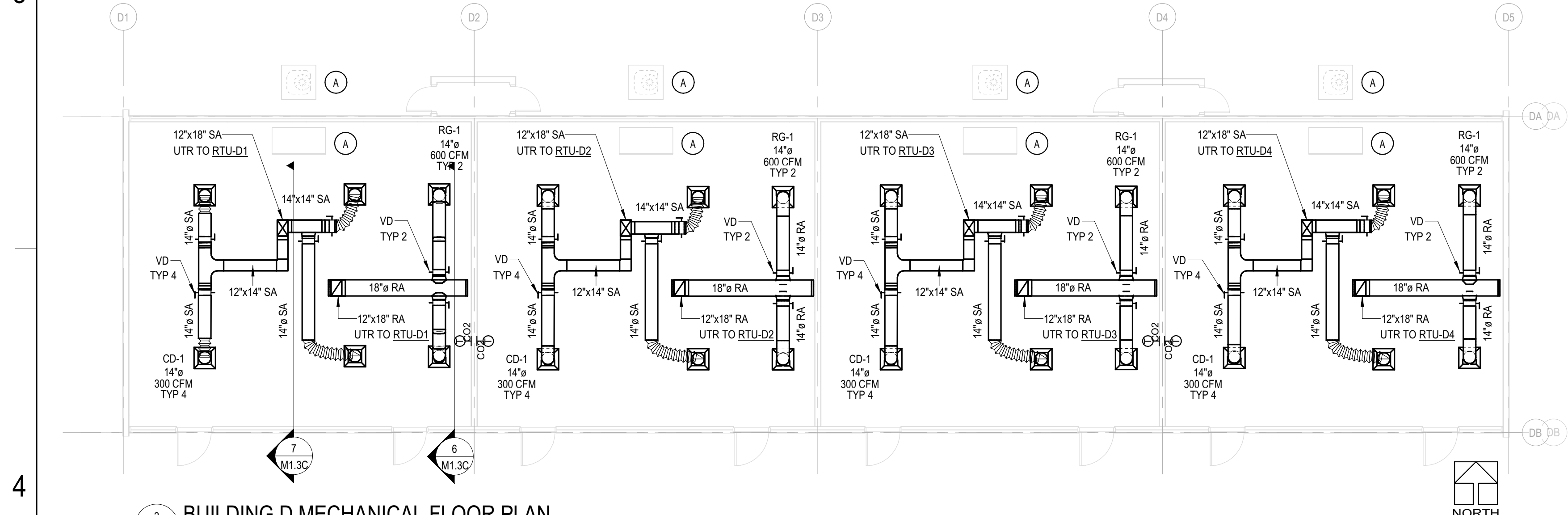
A3.1B



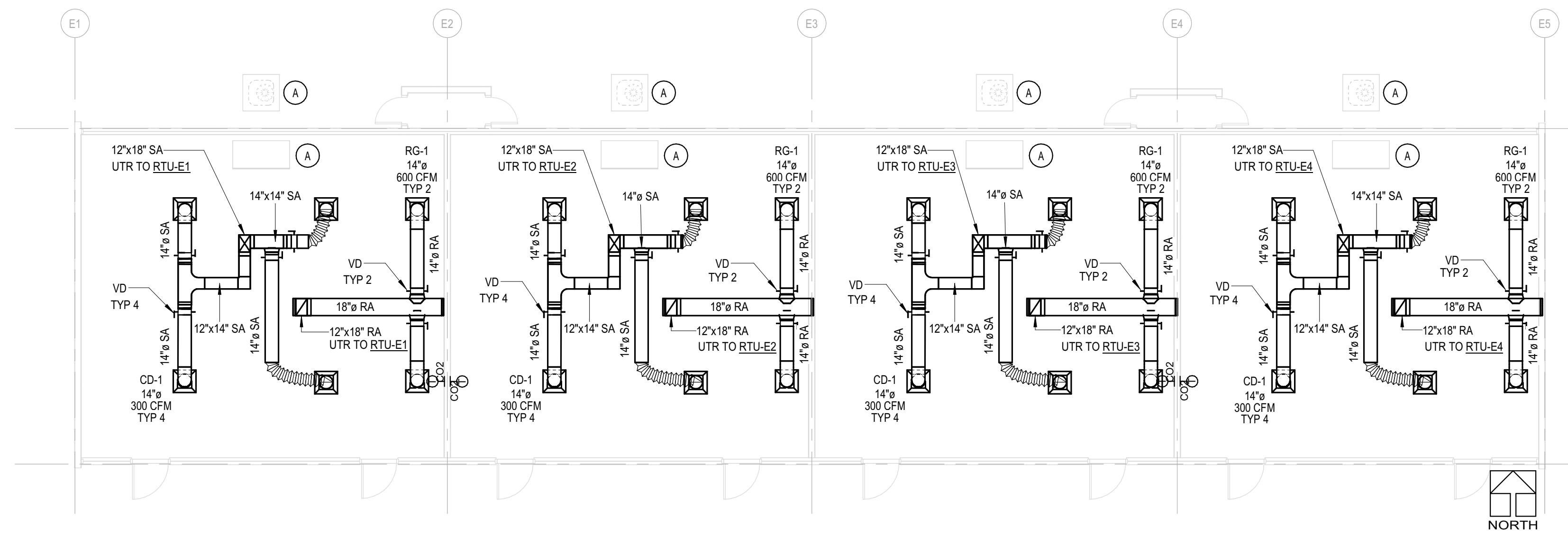
1 LEVEL 01 - AREA B - HVAC PLAN
M1.1C SCALE: 1/8" = 1'-0"



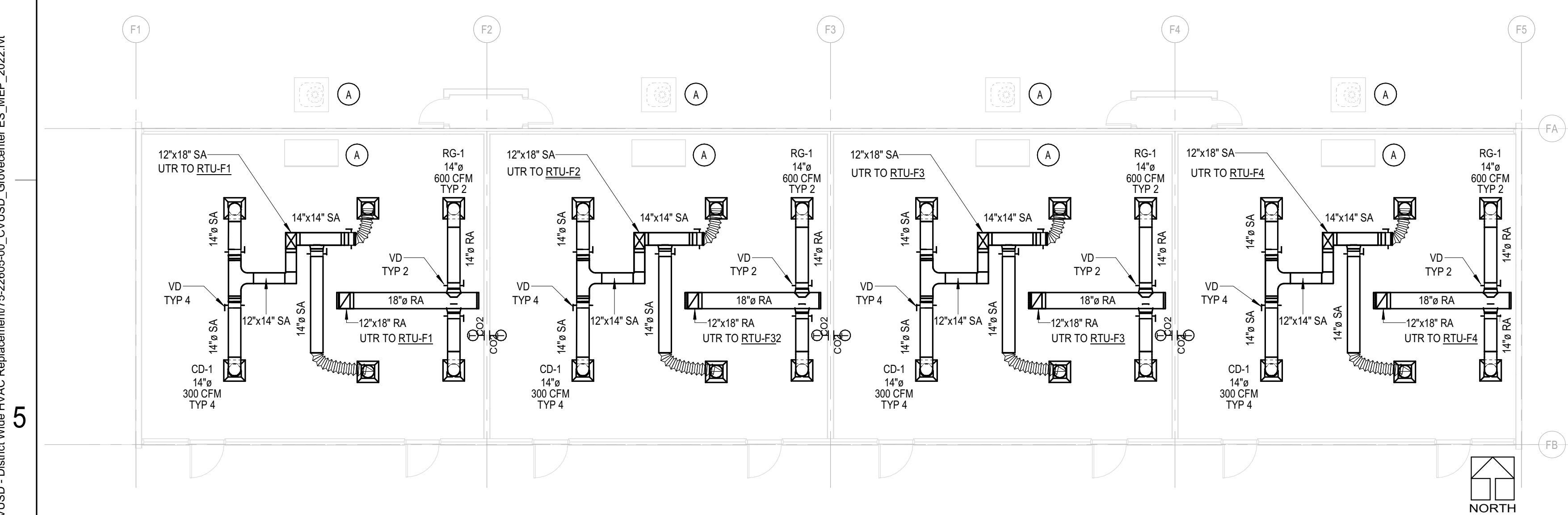
2 BUILDING C MECHANICAL FLOOR PLAN
M1.1C SCALE: 1/8" = 1'-0"



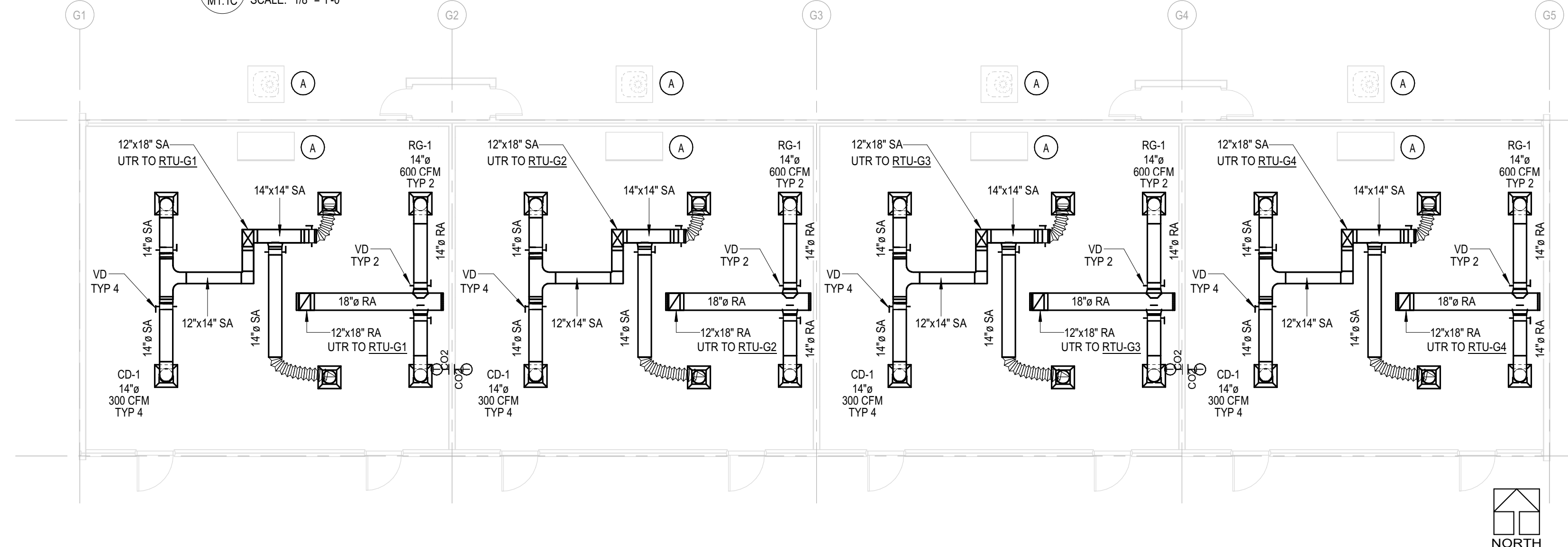
3 BUILDING D MECHANICAL FLOOR PLAN
M1.1C SCALE: 1/8" = 1'-0"



4 BUILDING E MECHANICAL FLOOR PLAN
M1.1C SCALE: 1/8" = 1'-0"



5 BUILDING F MECHANICAL FLOOR PLAN
M1.1C SCALE: 1/8" = 1'-0"



6 BUILDING G MECHANICAL FLOOR PLAN
M1.1C SCALE: 1/8" = 1'-0"

DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



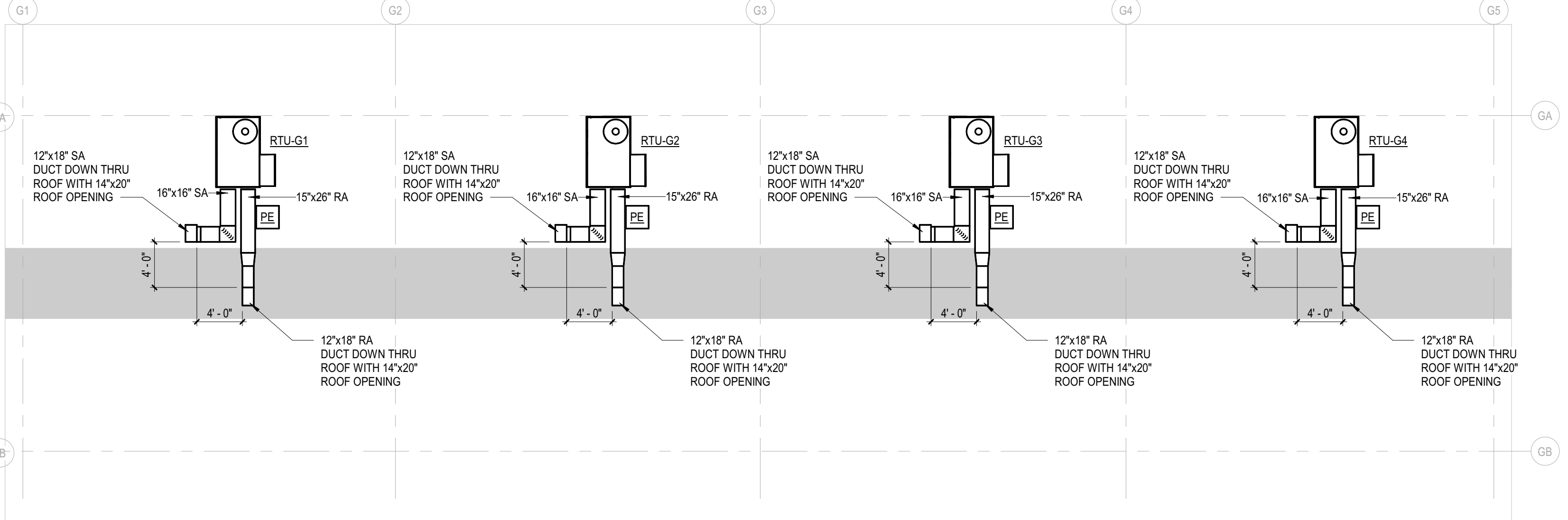
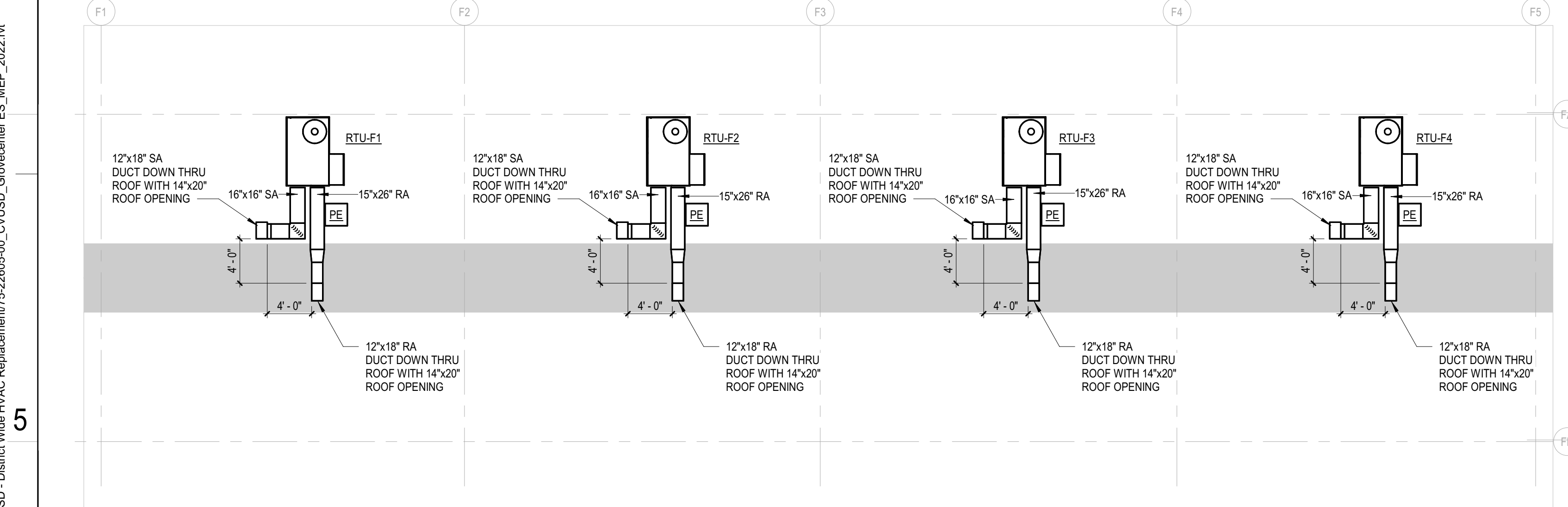
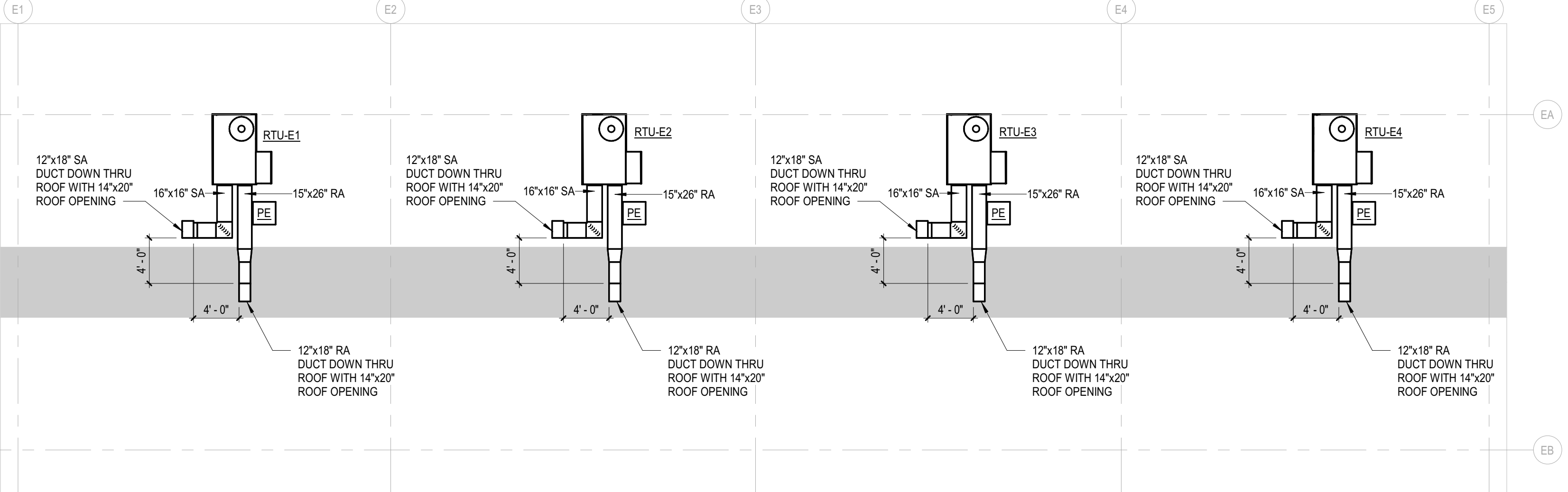
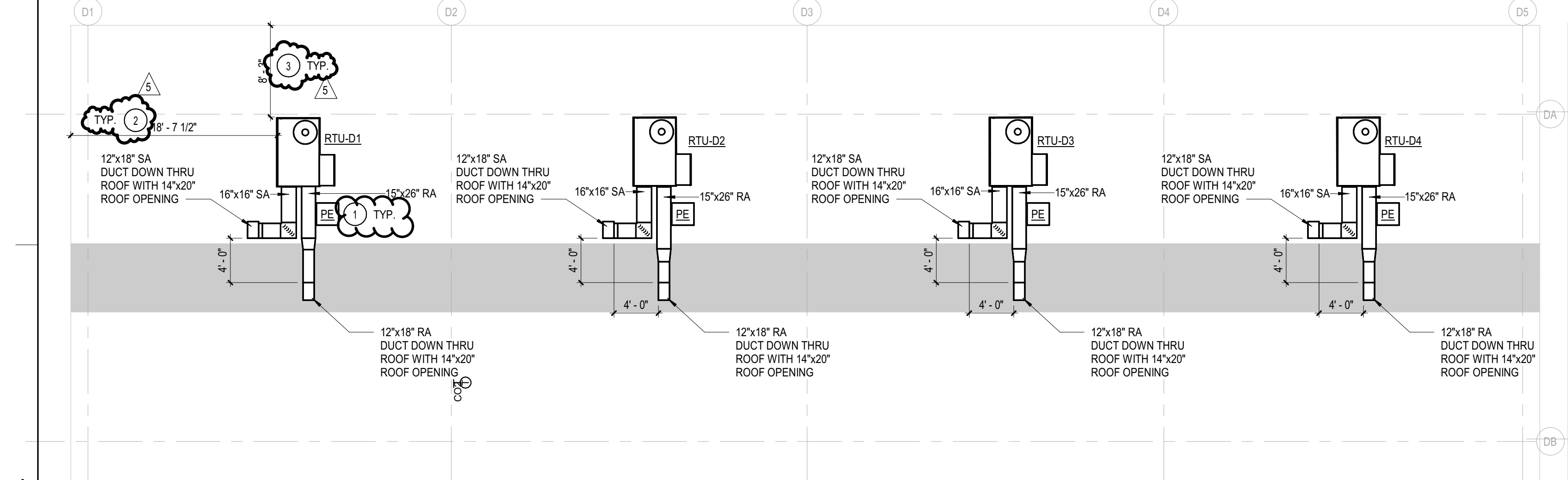
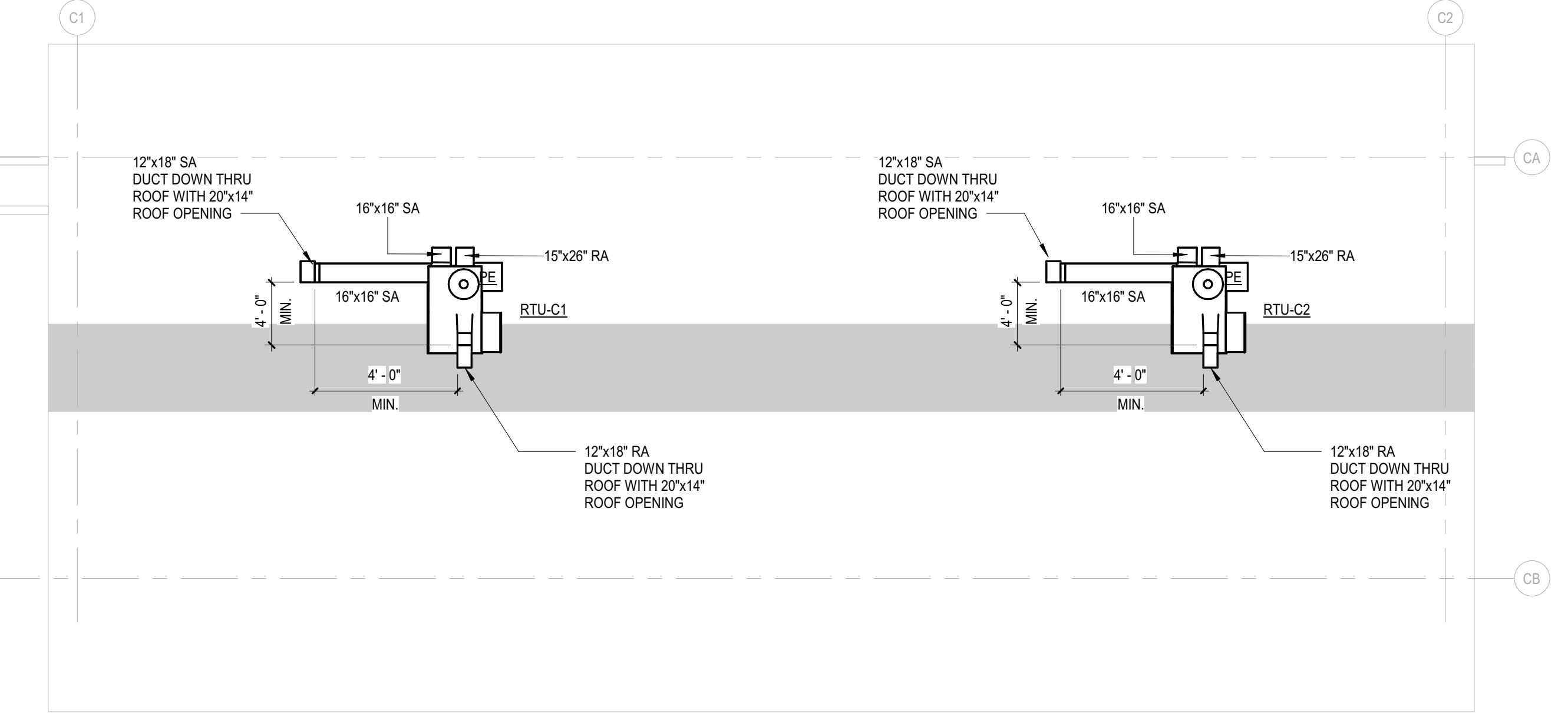
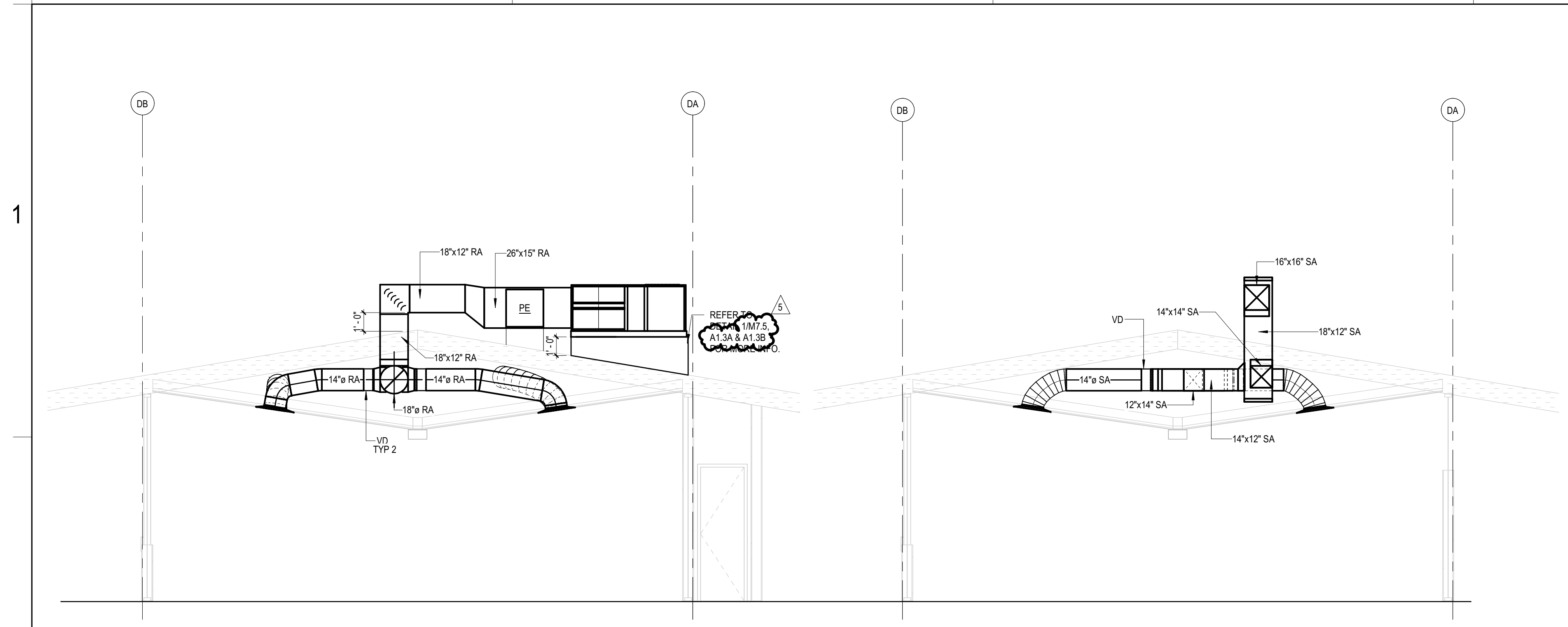
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77-22605-00
MECHANICAL FLOOR PLANS

M1.1C

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GENERAL HVAC NOTES

1. INSTALL NEW RTU ON PLATFORM.
2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
3. DISCONNECTING MEANS TO BE NEMA 3R RATED. FURNISHED BY HVAC EQUIPMENT MANUFACTURER AND INSTALLED UNDER DIVISION 26.
4. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
5. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
2. RTU TO BE 16'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



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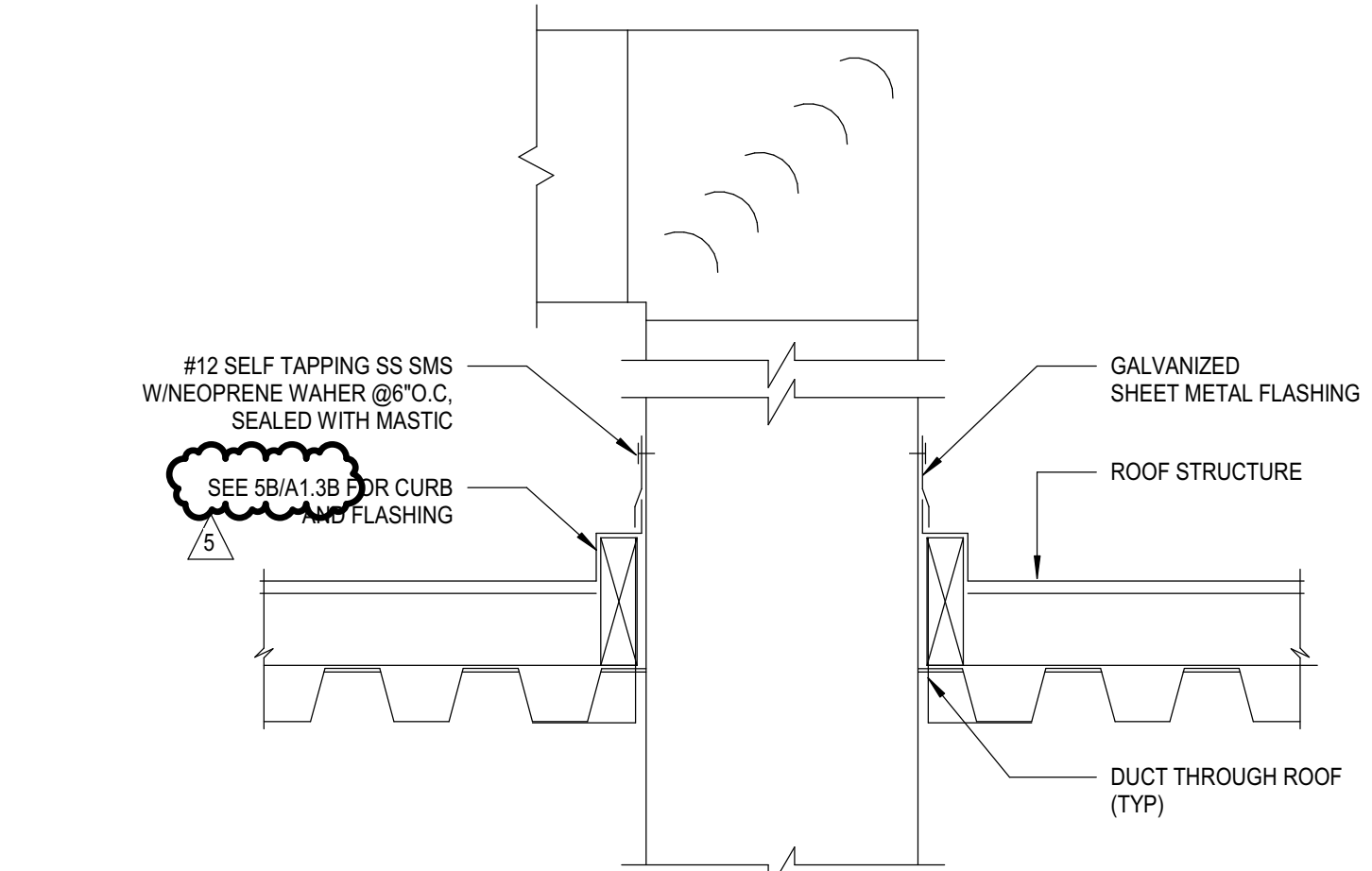
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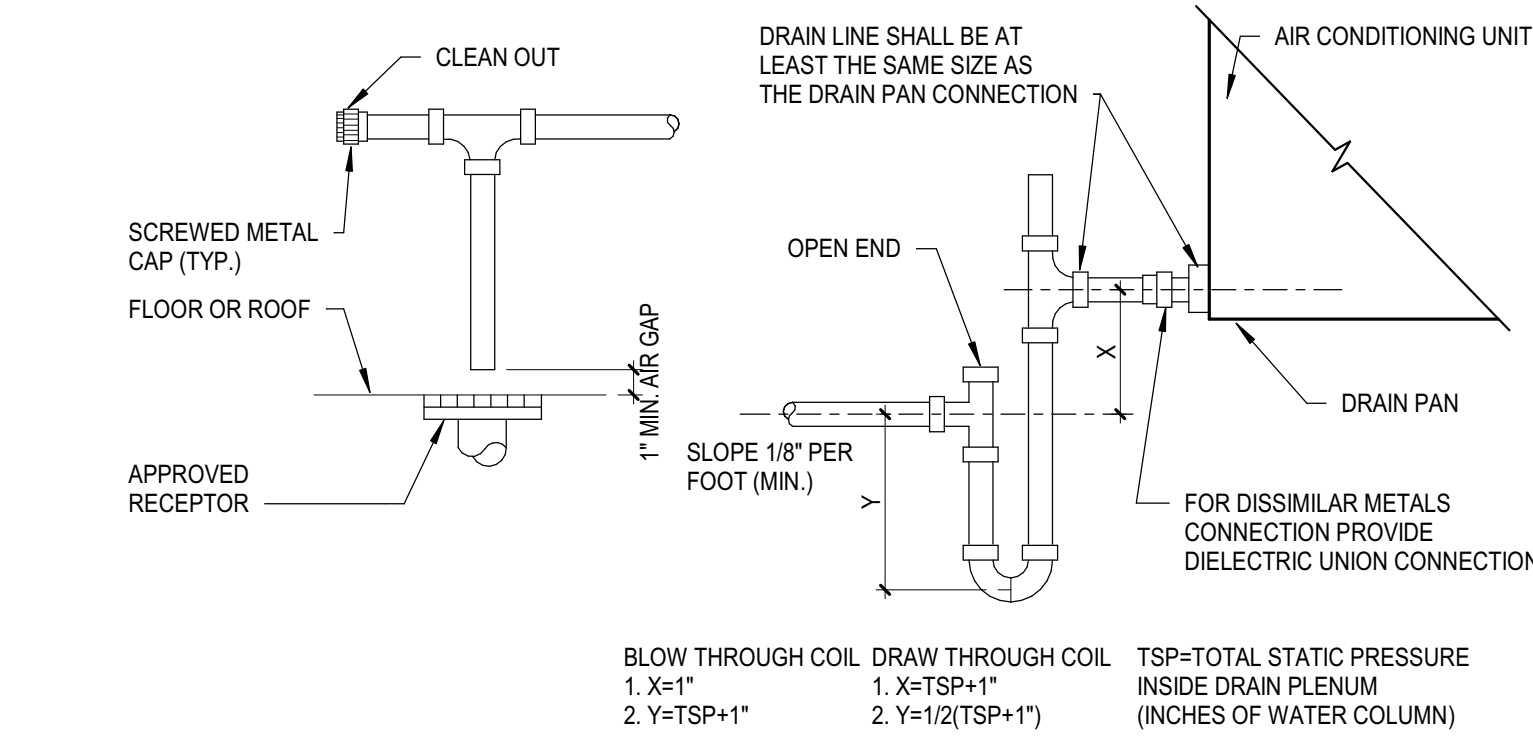
M1.3C

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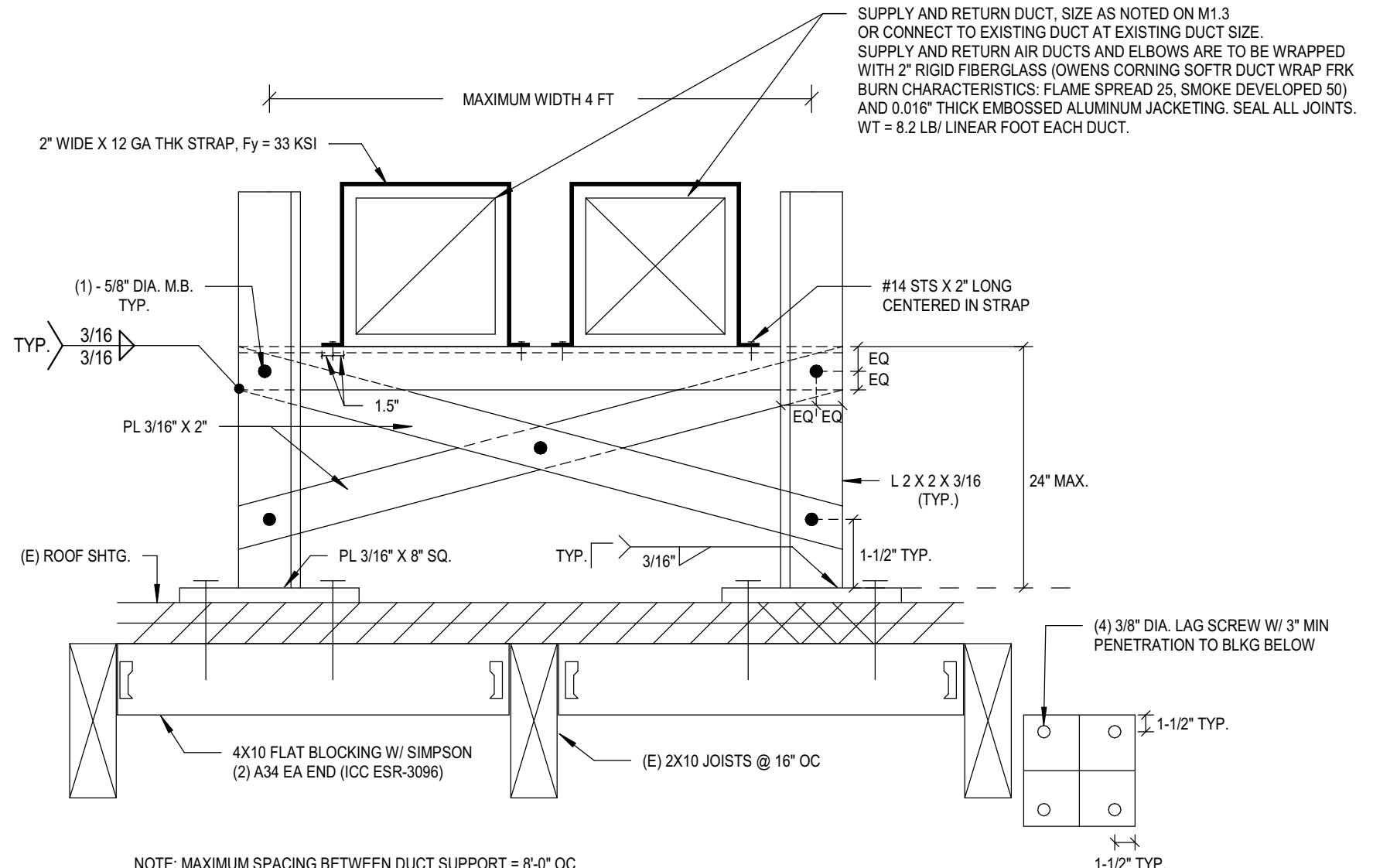
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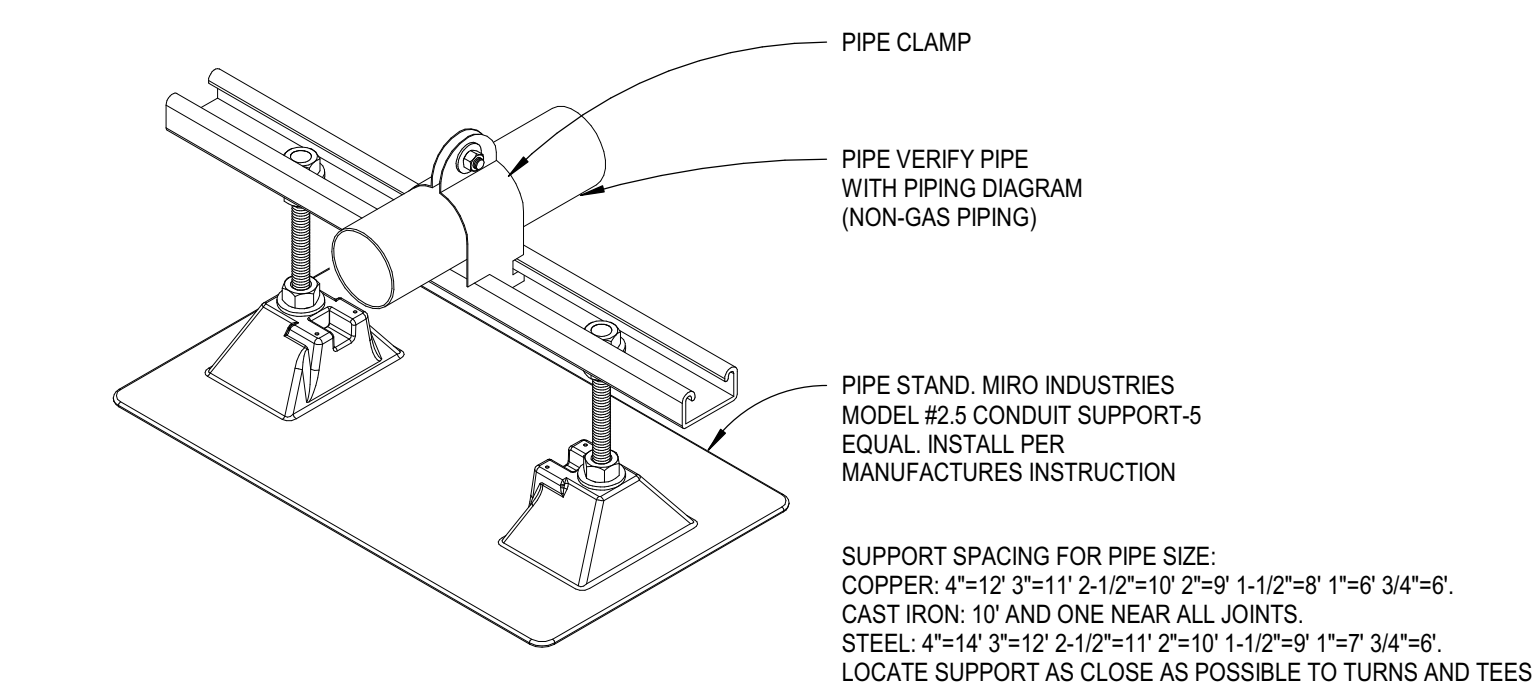
5 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE



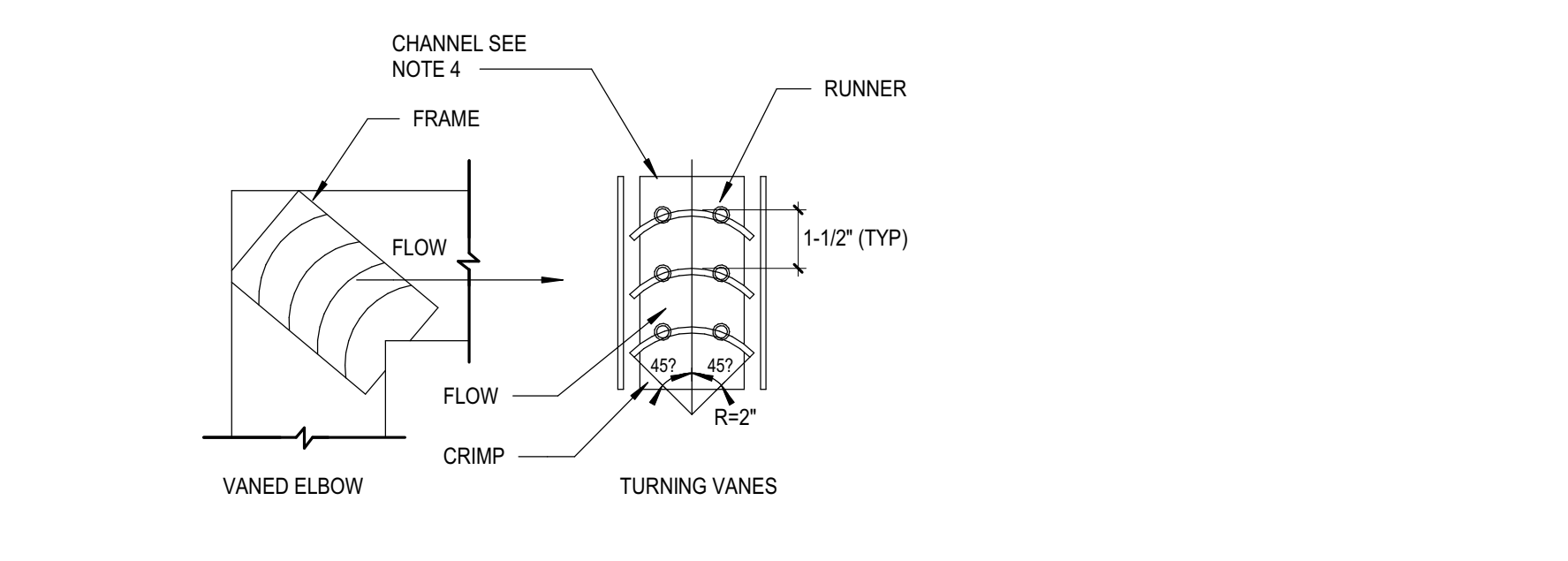
9 CONDENSATE DRAIN CONNECTION DETAIL
M7.1 NO SCALE



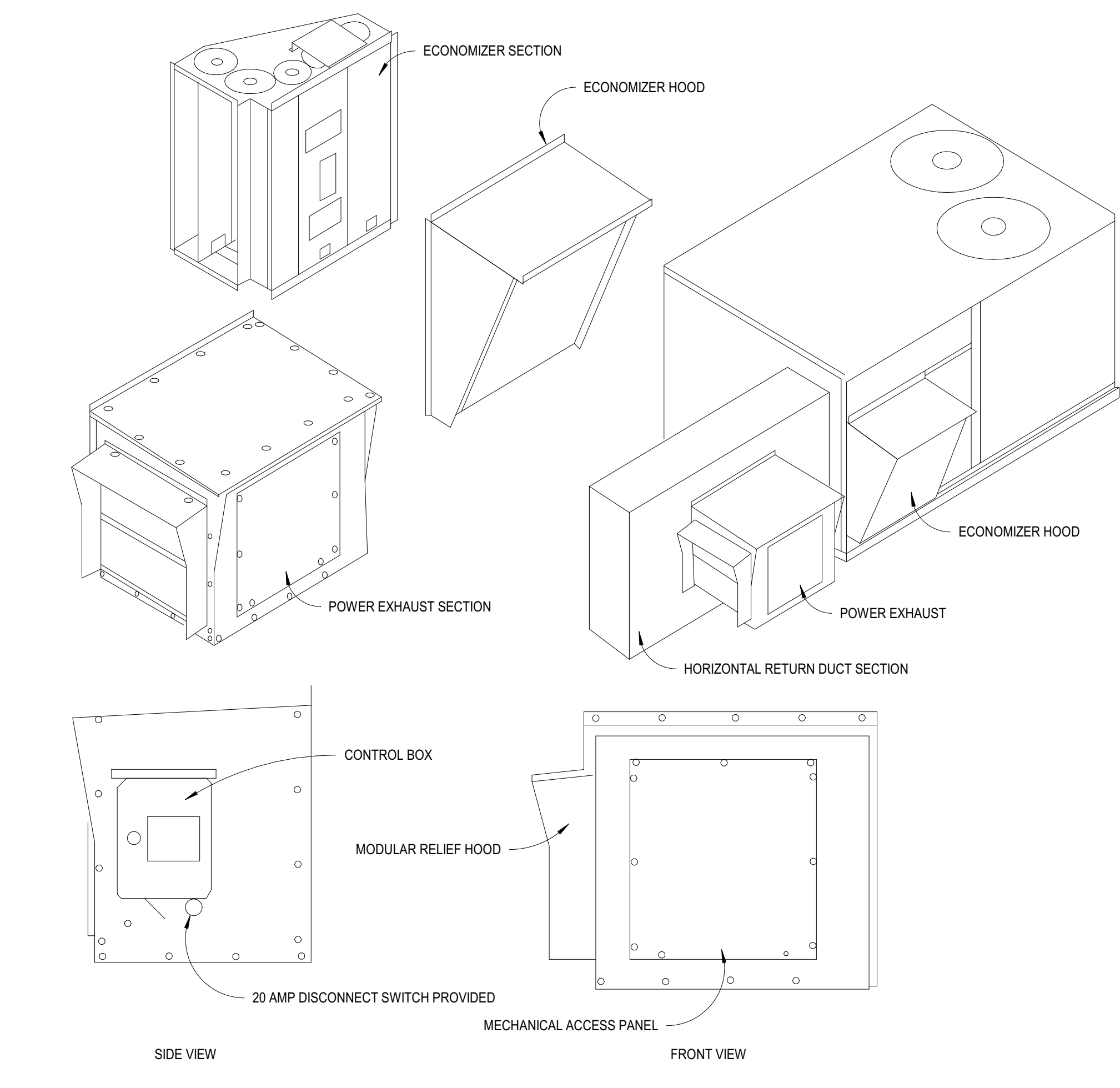
2 DUCT SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



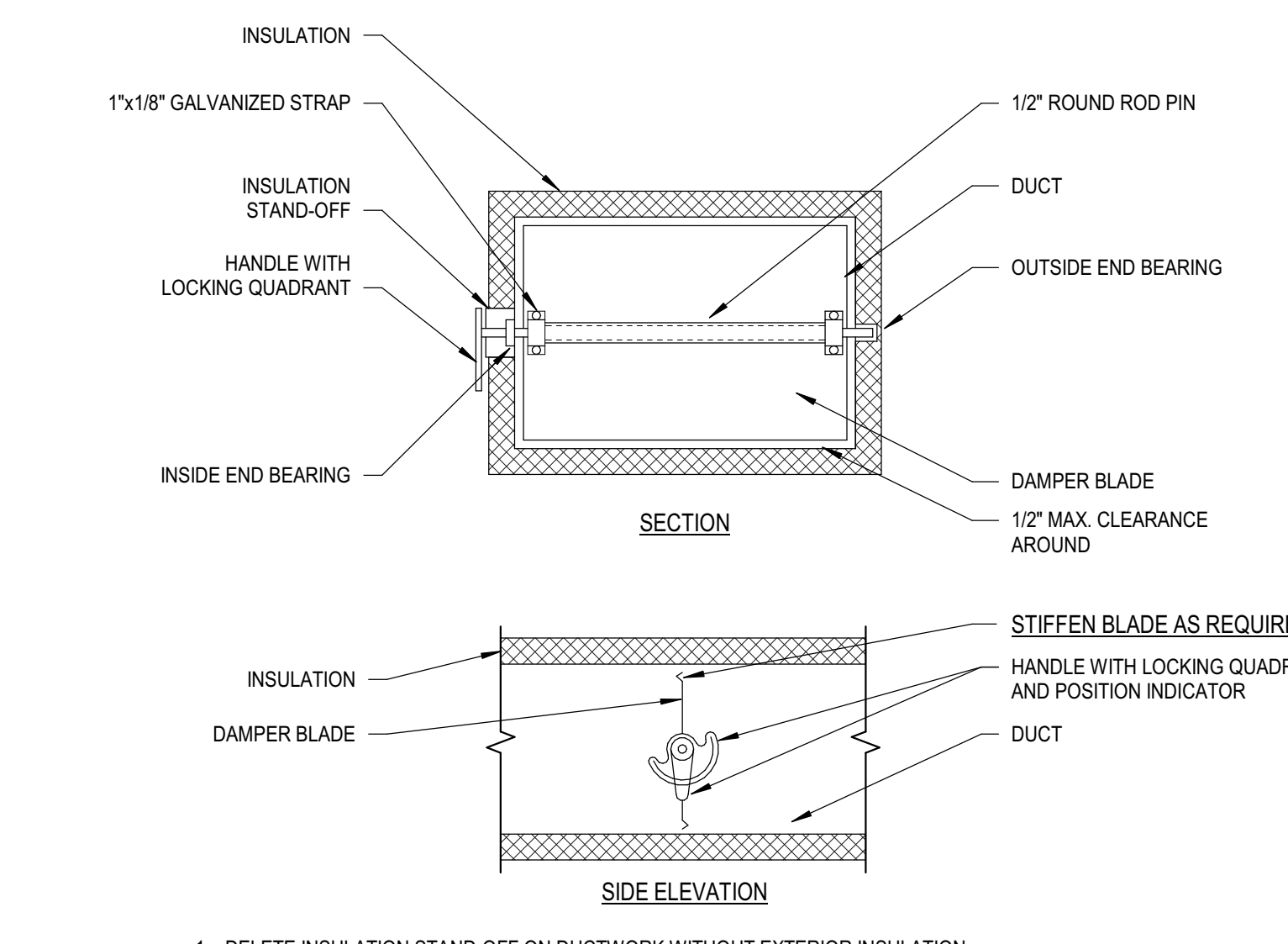
6 PIPE SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



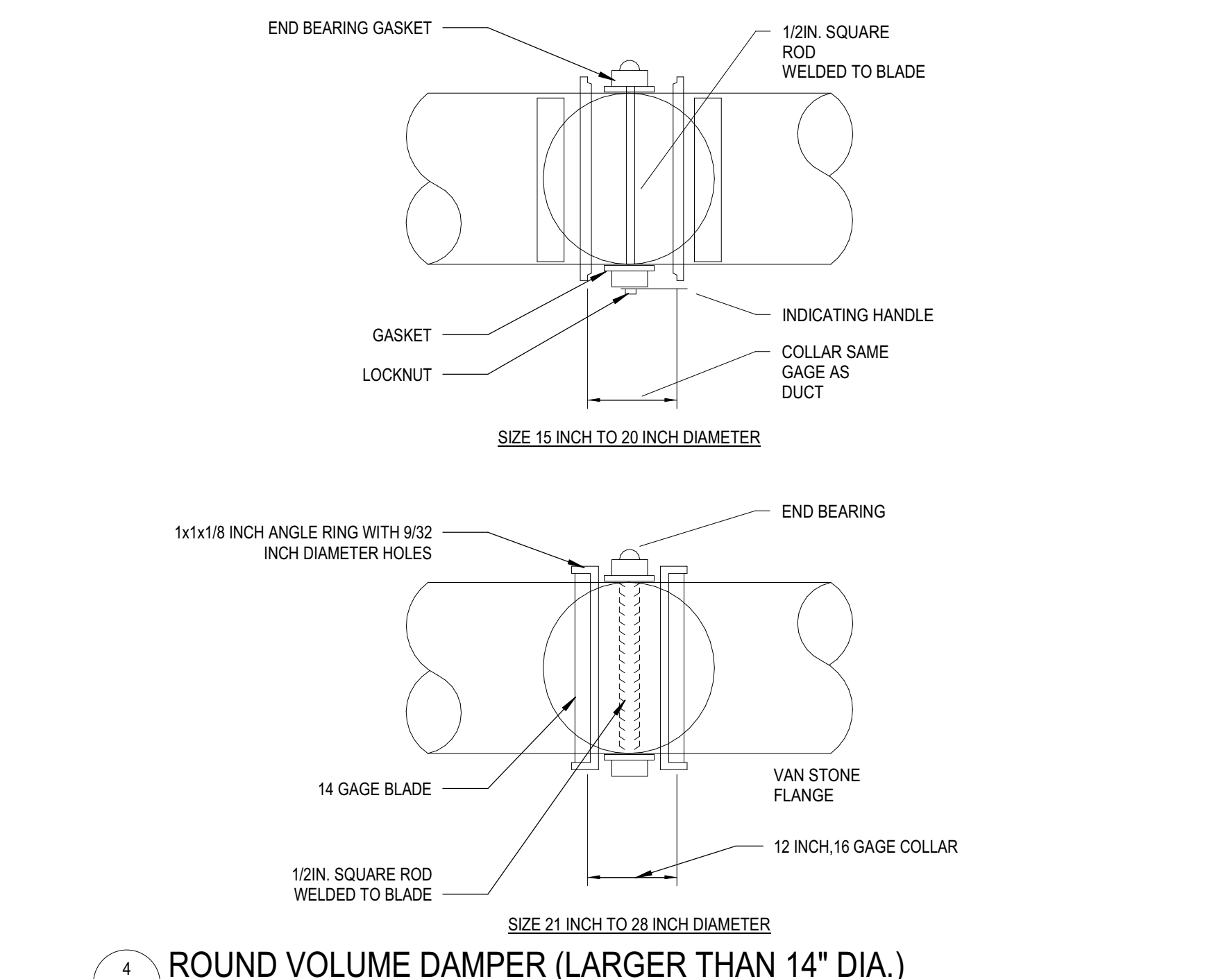
8 RECTANGULAR ELBOW W/ TURNING VANES DETAIL
M7.1 NO SCALE



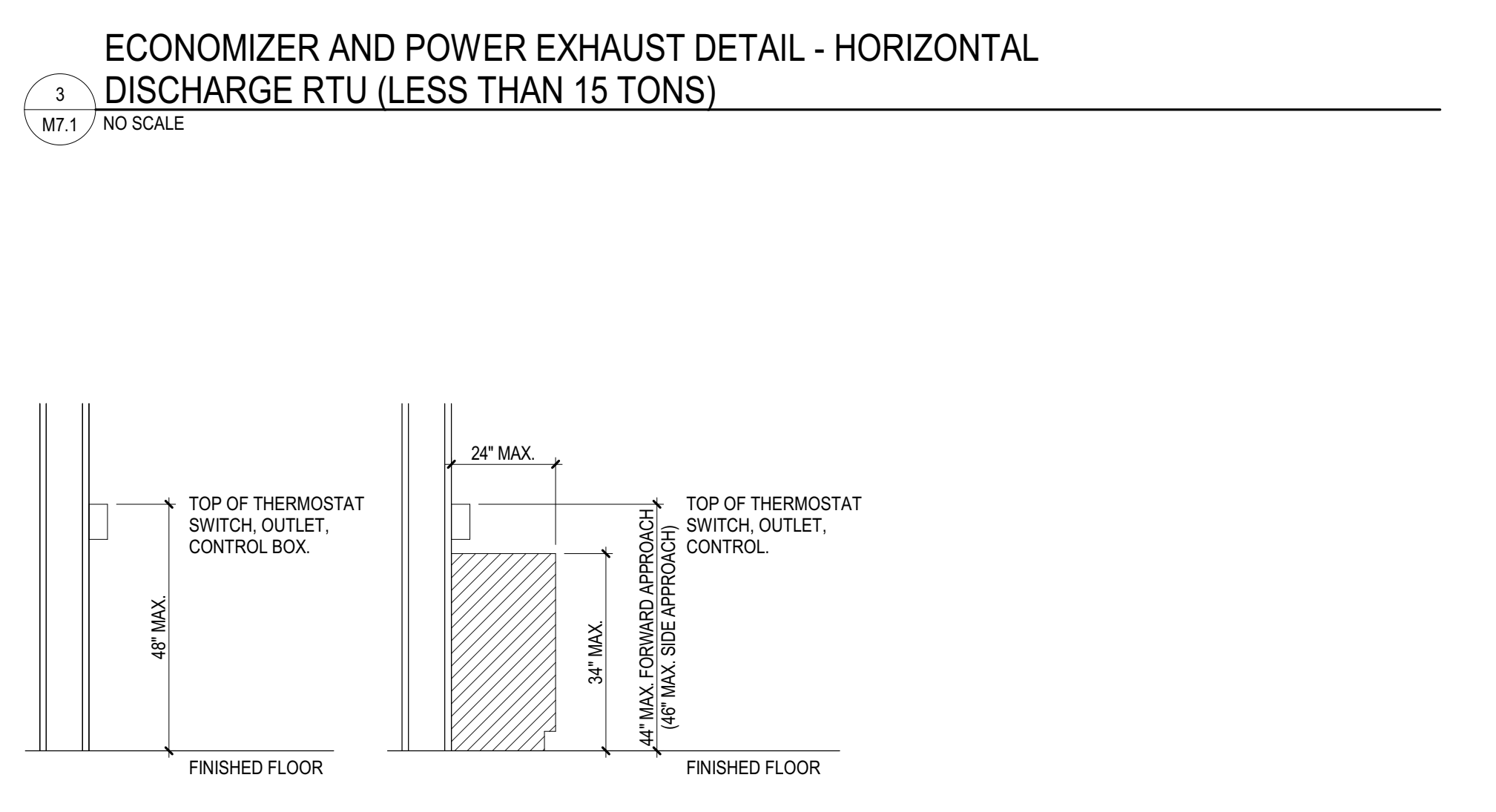
3 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE



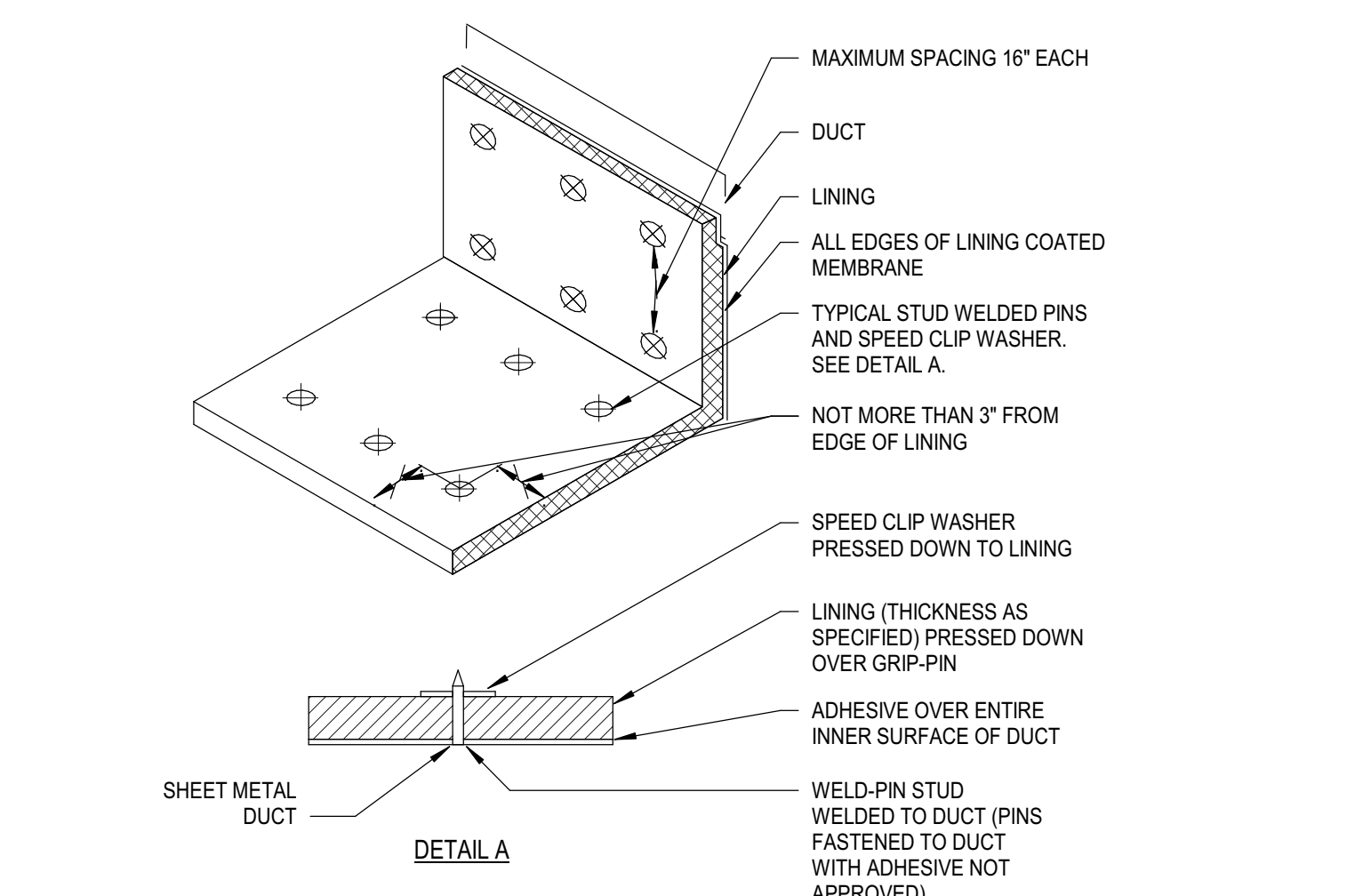
11 RECTANGULAR VOLUME DAMPER DETAIL
M7.1 NO SCALE



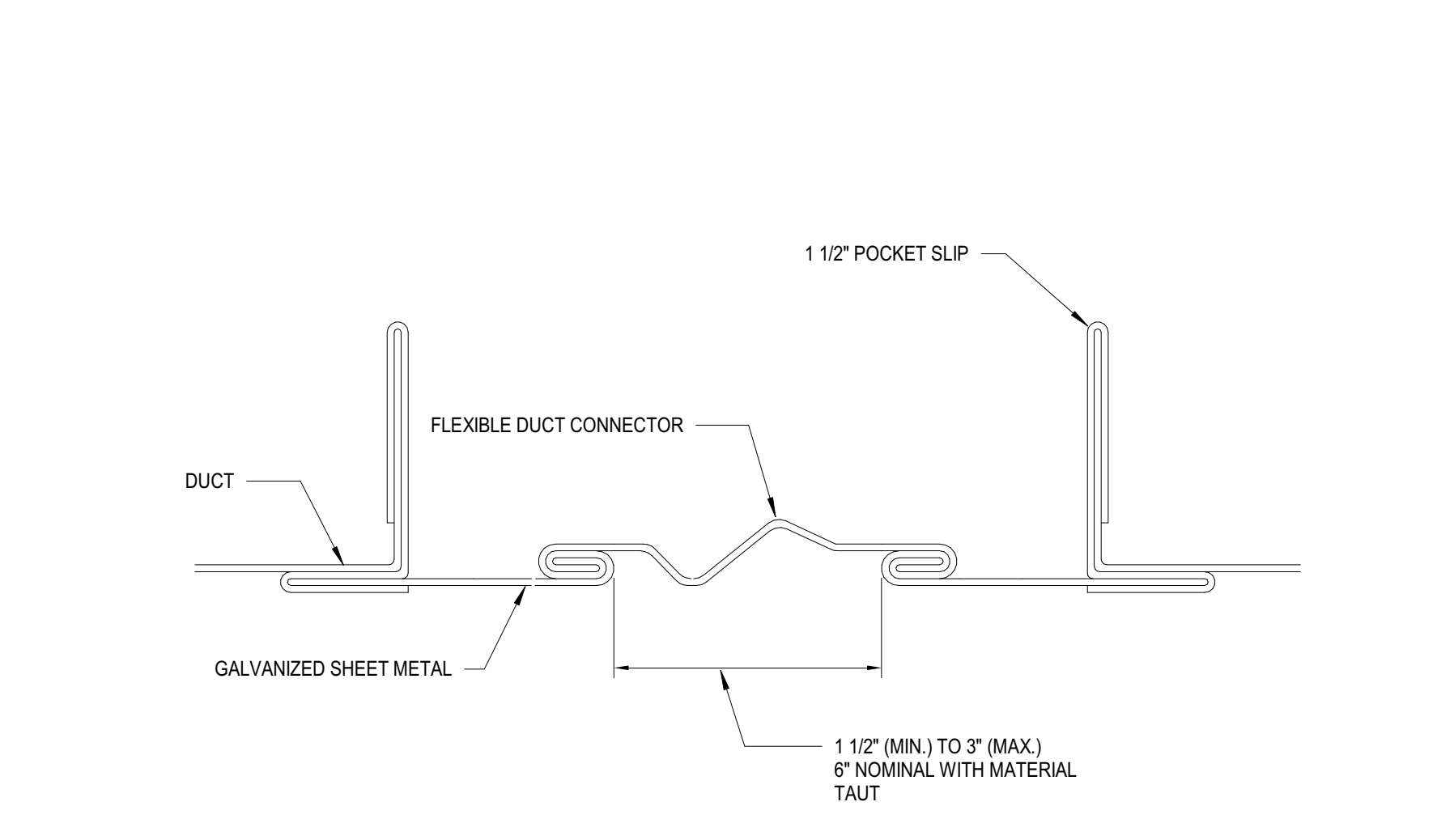
4 ROUND VOLUME DAMPER (LARGER THAN 14\"/>



1 THERMOSTAT MOUNTING
M7.1 NO SCALE



7 ACOUSTICAL DUCT LINING INSTALLATION DETAIL
M7.1 NO SCALE



10 FLEXIBLE DUCT CONNECTION
M7.1 NO SCALE

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MARK FCU-B1	MAKE CARRIER	MODEL 40RUQA-16	STEEL FRAME ASTM A36, L 3 X 3 X 1/4	DETAIL-1	DETAIL-3	MTG 1-6	SPRING OD 2"	DEFL. 1"
-----------------------	------------------------	---------------------------	---	-----------------	-----------------	-------------------	------------------------	--------------------

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 200 LBS.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE
 9/16" DIA. HOLE (2) PLACES
 USE 1/2" DIA. HILTI KB T22 ANCHORS IN 3000 PSI HR CONCRETE, MIN 3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE. INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.
RMU-RQ-SH-1

ATTACHMENT OF UNIT TO STEEL BASE

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - GROVECENTER CUST.: CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: CALL OUT ALL ATTACHMENTS (9-2-22) B: SPECS ANGLE (9-20-22) C: D:	DRN: TDT DATE: 7-25-22 DRAWING NO.: -2B
---	--	---	---

1 FCU-B1
M7.3 NO SCALE

A

B

C

D

E

F

1

2

3

4

5

MARK CU-B1	MAKE TOSHIBA	MODEL MMY-AP192S	STEEL FRAME ASTM A36, L 4 X 3 X 1/4	DETAIL-1	DETAIL-3	MTG 1-6	SPRING OD 4"	DEFL. 2"
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DETAIL-1

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE
 1 1/16" DIA. HOLE (2) PLACES
 USE 5/8" DIA. STAINLESS HILTI KB T22 ANCHORS IN MIN 3000 PSI HR CONCRETE,
 MIN 3-1/4" NOMINAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN
 6" EDGE DISTANCE. INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

DETAIL-3

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 450 LBS.
- FOR ISOLATORS. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

DETAIL-2

VIEW A-A

VIEW B-B

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - GROVECENTER ES	REVISIONS:	DRN: TDT
	CUST.:	A: CALL OUT ALL ATTACHMENT (9-2-22)	DATE: 9-7-22
	CUST. P.O.:	B: CHANGED UNIT (9-6-22)	DRAWING NO.:
	MECH. ENGR.: DLR	C: SPECS ANGLE (9-20-22)	-1C
	MARK: CU-B1	D:	

1 CU-B1
M7.4 NO SCALE



Grovecenter Elementary School
COVINA VALLEY USD
775 N LARK ELLIEN AVE. WEST COVINA, CA 91791

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MECHANICAL
DETAILS

M7.4

DETAIL-1

DETAIL-2

DETAIL-3

MARK MAKE TYPE SIZE CURB WT

3 TON	CARRIER	50FCQA	04	275#
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NOTES:

- FOR ANCHOR REQUIREMENTS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
- ROOF SLOPE TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION & ROOF CURB HEIGHT ARE APPROXIMATE.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

2. SUBMITTED ROOF CURBS ARE PITCHED TO MATCH ROOF SLOPE.

NOTES:

- L & M DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.
- FOR ANCHORAGE, USE 3/8" DIA. LAG BOLT MIN. 3" LONG INTO MIN. 4 X 4 DOUGLAS FIR, MIN 1-1/2" EDGE DISTANCE, & MIN 2-5/8" END DISTANCE. (3) ON LONG SIDES & (2) ON SHORT SIDES.

M. W. SAUSSÉ & CO., INC.
 28744 Whitherspoon Pkwy, Valencia, CA 91355
 Phone: (661) 257-3311 Fax: (661) 257-7873

Vibrex SRC

JOB NAME: COVINA USD
CUST.: 22
CUST. P.O.:
MECH. ENGR.: DLR
MARK: 3 TON

REVISIONS:

A:	
B:	
C:	
D:	

DRN: TDT
DATE: 7-26-22
DRAWING NO.:
 -3

1 RTU CURB
M7.5 NO SCALE

A

B

C

D

E

F

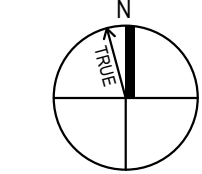
1

2

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4




5



MECHANICAL PLUMBING SITE PLAN
SCALE: 1" = 20'-0"

GENERAL NOTE:
1. ALL CONDENSATE WATER PIPING FOR MPR ROOM TO DRAIN TO CLOSEST EXISTING FLOOR SINK.

SITE LEGEND

-  EXISTING BUILDING - NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



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MECHANICAL
PLUMBING SITE
PLAN

MP1.1

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A

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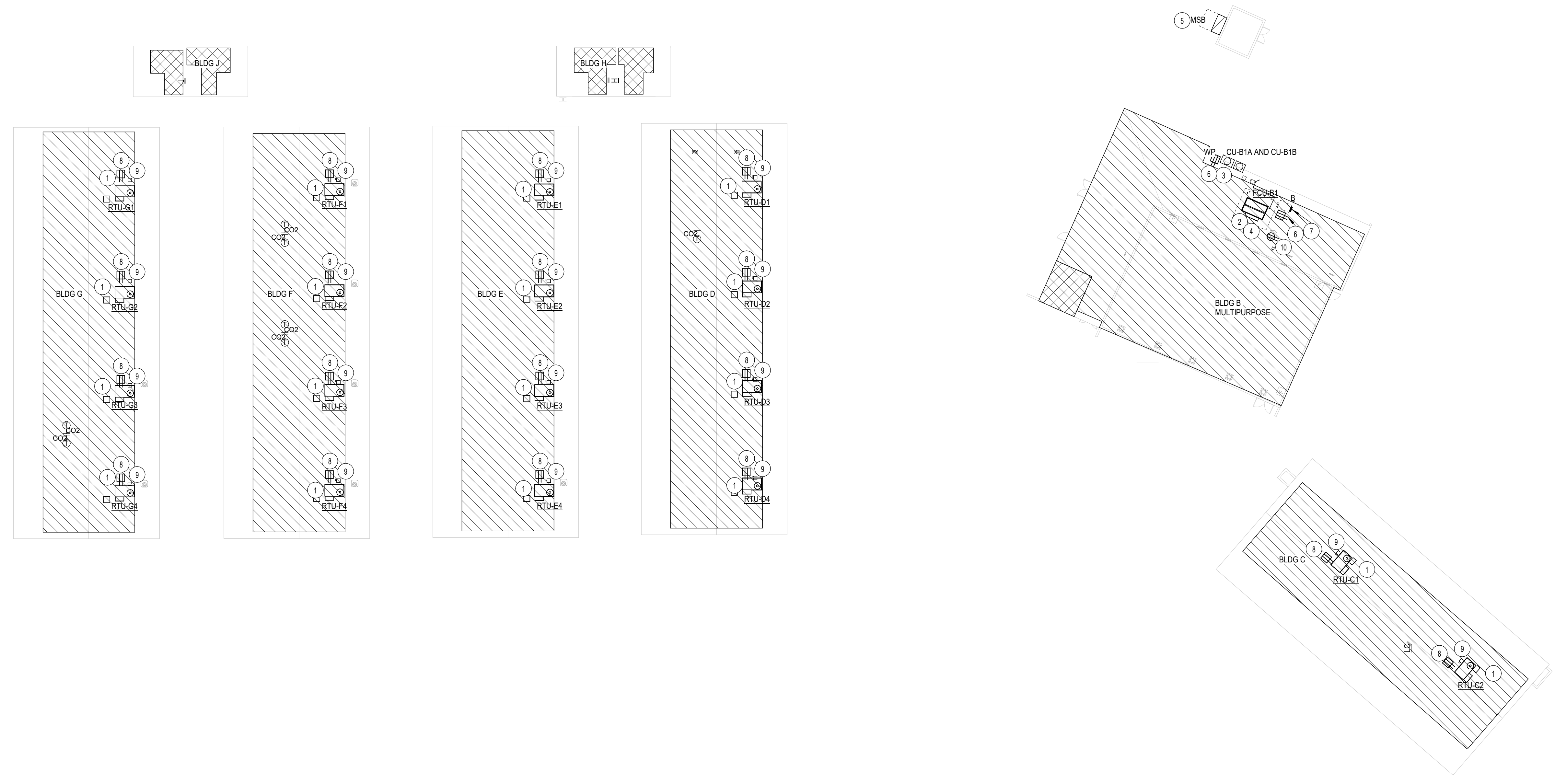
5

GENERAL NOTES

- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26. ELECTRIC HEATING IS BEING PROVIDED.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED.
- D SEE SCHEDULE ON SHEET E5.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CECS 503.15.1:
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

- 1 EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK WITH ROOF-TOP EQUIPMENT. EXTEND EXISTING FEEDER AS REQUIRED. SEE TABLE ON SHEET E5.1 FOR OTHER INFORMATION. PROVIDE ALL REQUIRED CONNECTION.
- 2 EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET E5.1. PROVIDE ALL REQUIRED CONNECTION.
- 3 NEW HVAC EQUIPMENT AT GRADE. PROVIDE NEW FEEDER PER TABLE ON SHEET E5.1. PROVIDE ALL REQUIRED CONNECTION.
- 4 DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 908 IS NOT REQUIRED PER CODE EXCEPTION NO. 2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
- 5 EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
- 6 PROVIDE 120 VOLT CIRCUIT FROM SPARE BREAKER. PROVIDE TANDEM BREAKER AS REQUIRED.
- 7 IN PANELBOARD 8 AT GRADE LEVEL. 277/480 VOLTS, 3-PHASE, W-WIRE, 225 AMP BUS. ROUTE CONDUIT UNDERGROUND FROM EXISTING MSB TO PANEL. LOCATION FIELD COORDINATE WITH SCHOOL DISTRICT EXACT CONDUIT ROUTING AND TRENCHING. REFER TO
- 8 GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET E5.1, GENERAL NOTE NO. 2. PROVIDE WEATHERPROOF COVER.
- 10 PROVIDE 120V CIRCUIT FOR EMS ROUTER AND EMS PANEL. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND EMS PANEL.



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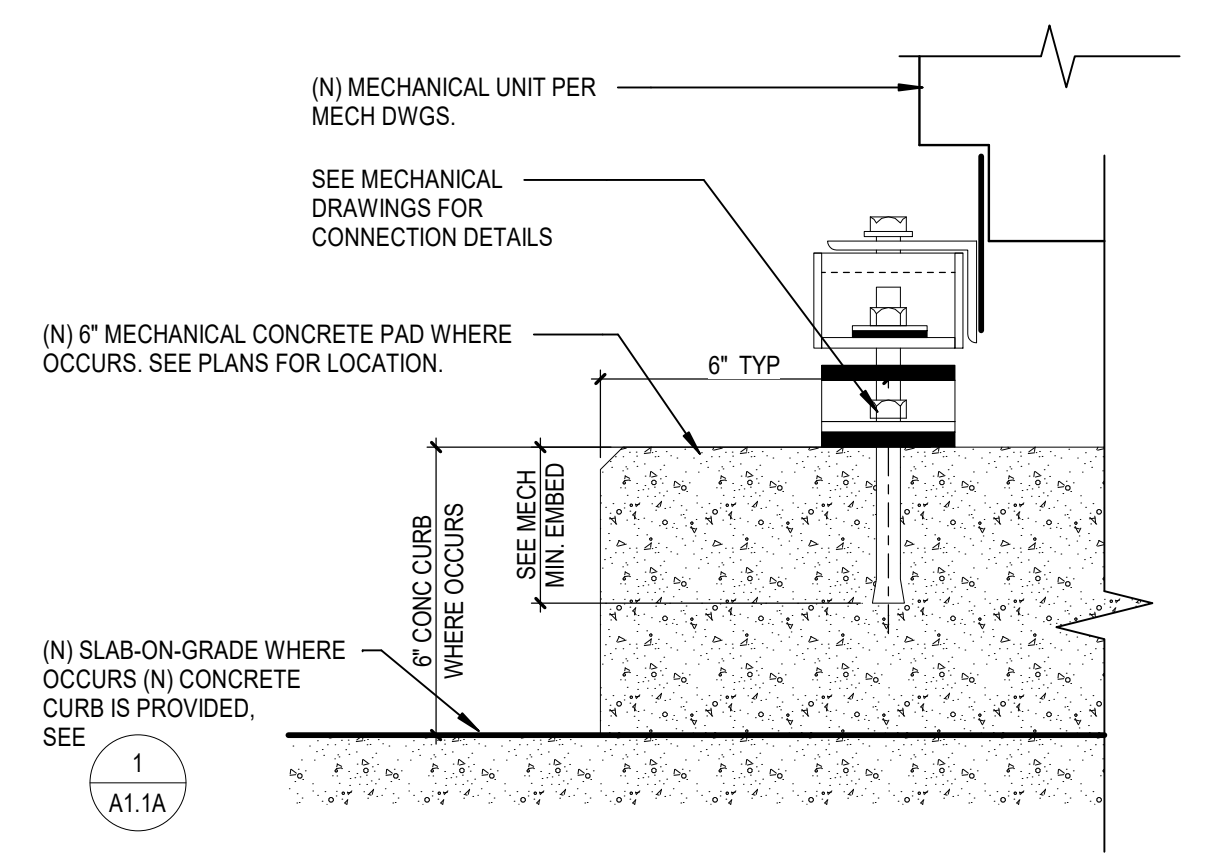
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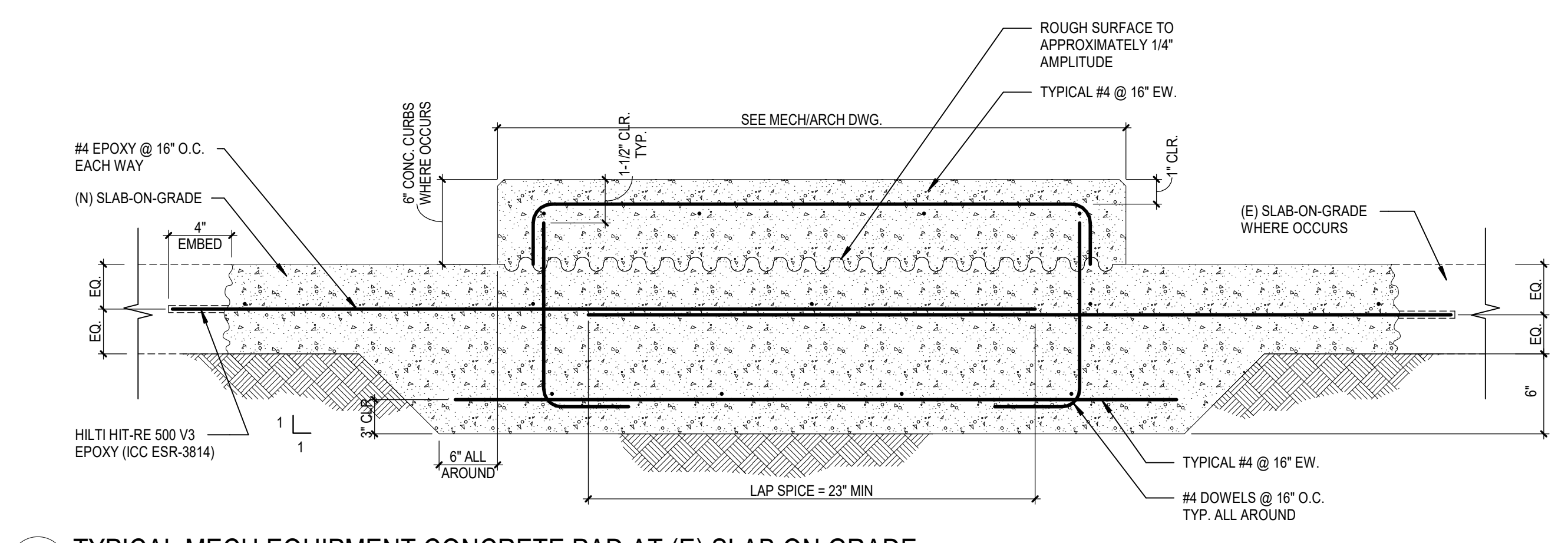
ELECTRICAL
 ROOF POWER
 PLAN

E2.1

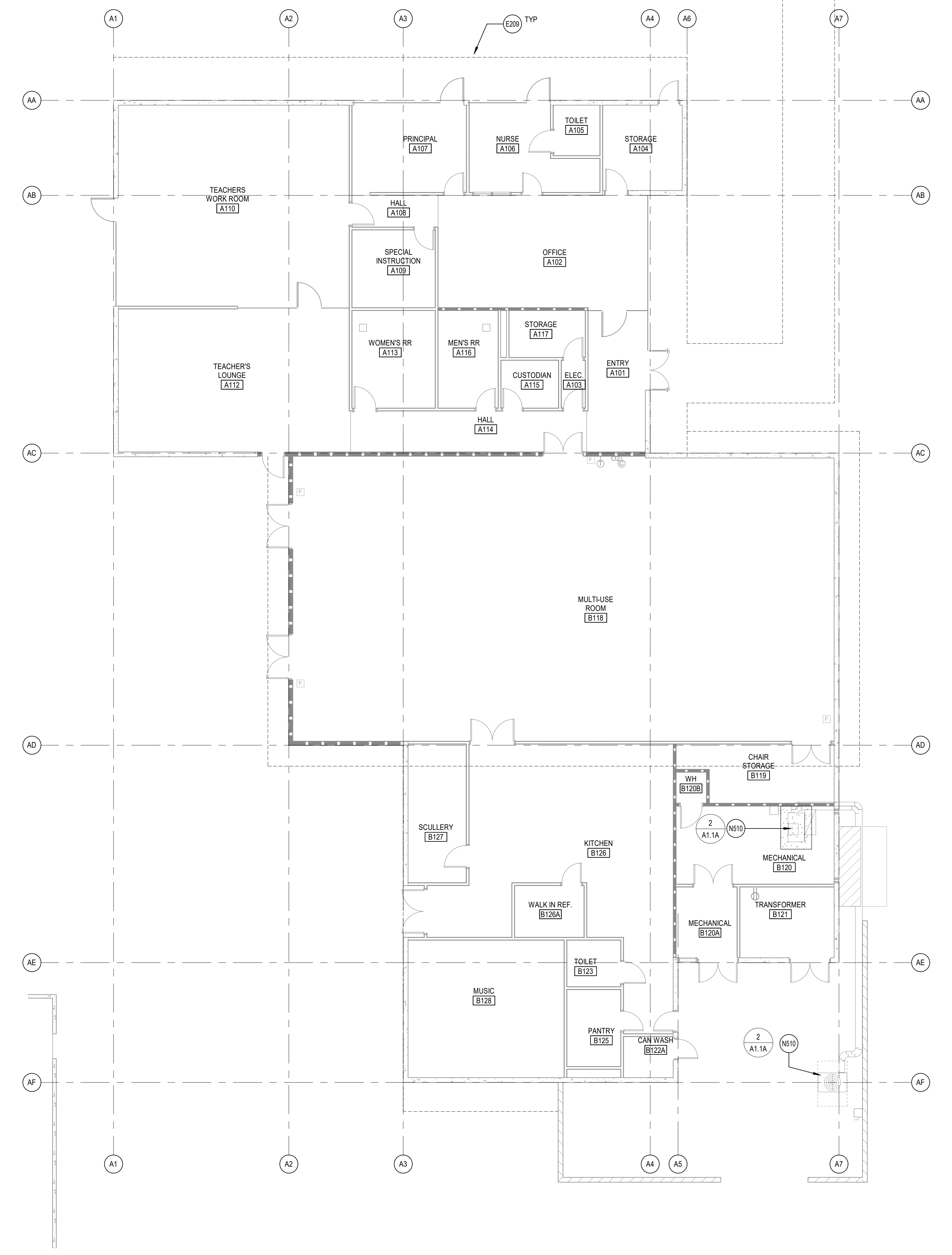
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2 MECH. ANCHORAGE AT CONC. CURB
SCALE: 3" = 1'-0"



1 TYPICAL MECH EQUIPMENT CONCRETE PAD AT (E) SLAB ON GRADE
SCALE: 1 1/2" = 1'-0"



REFERENCE KEYNOTES

N510 NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
2. SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
 LICENSED ARCHITECT
 JESSE MILLER
 No. C-32306
 10/31/2023
 STATE OF CALIFORNIA



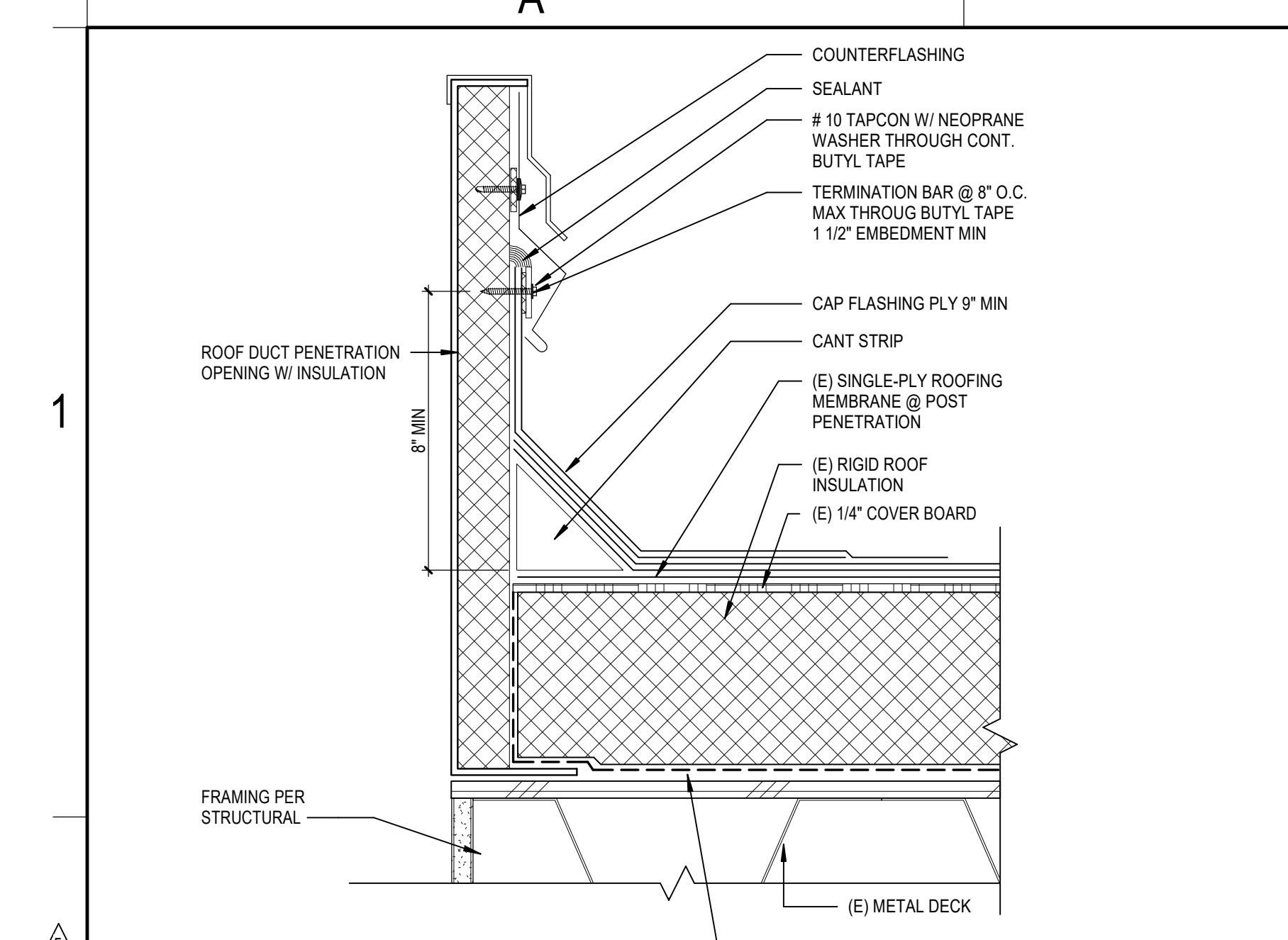
MANZANITA ELEMENTARY SCHOOL
 COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
 4131 N. NORRA AVE. COVINA, CA 91722

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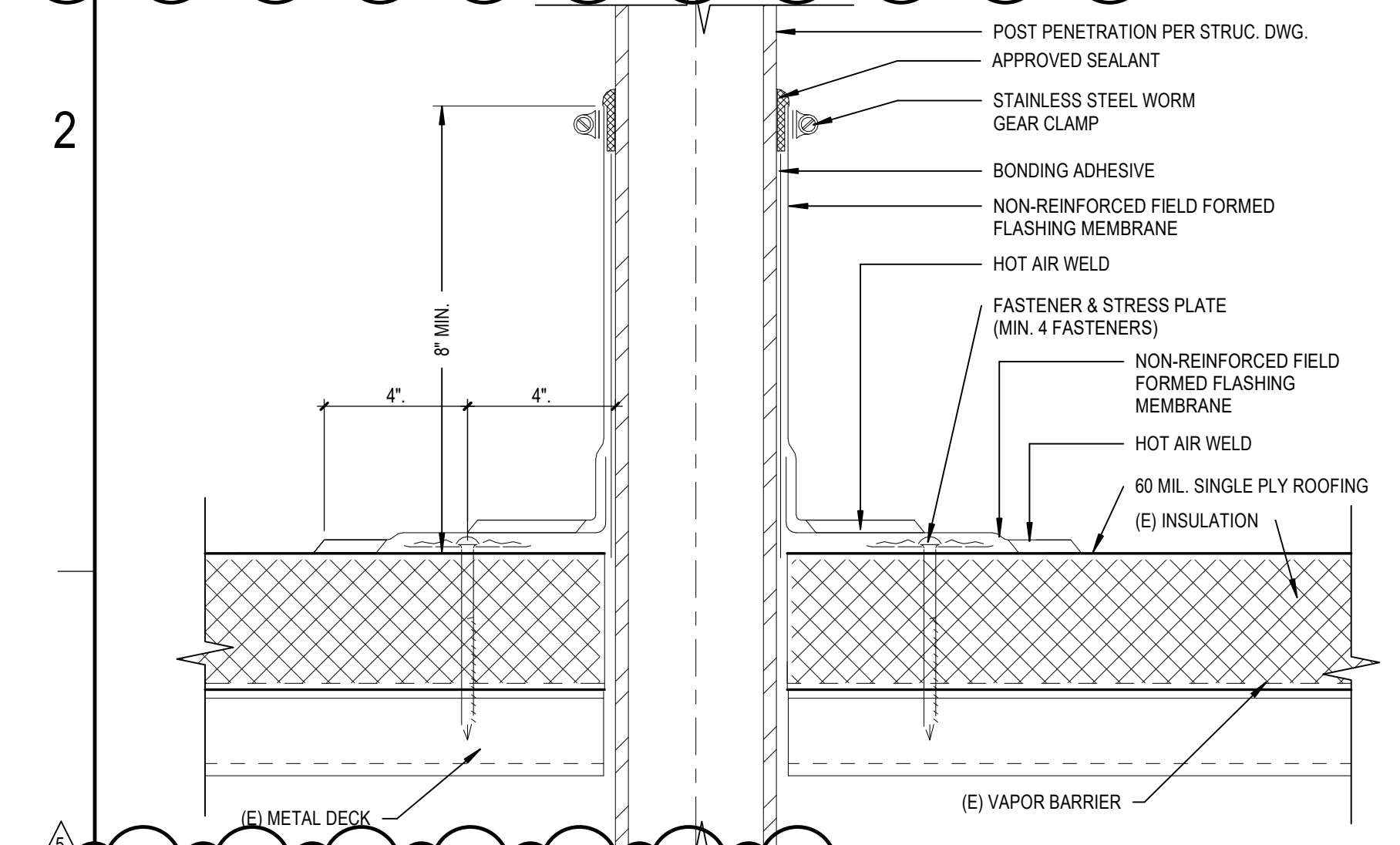
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 DSA File #: 19-25
 ADMIN BUILDINGS
 FLOOR PLAN

A1.1A

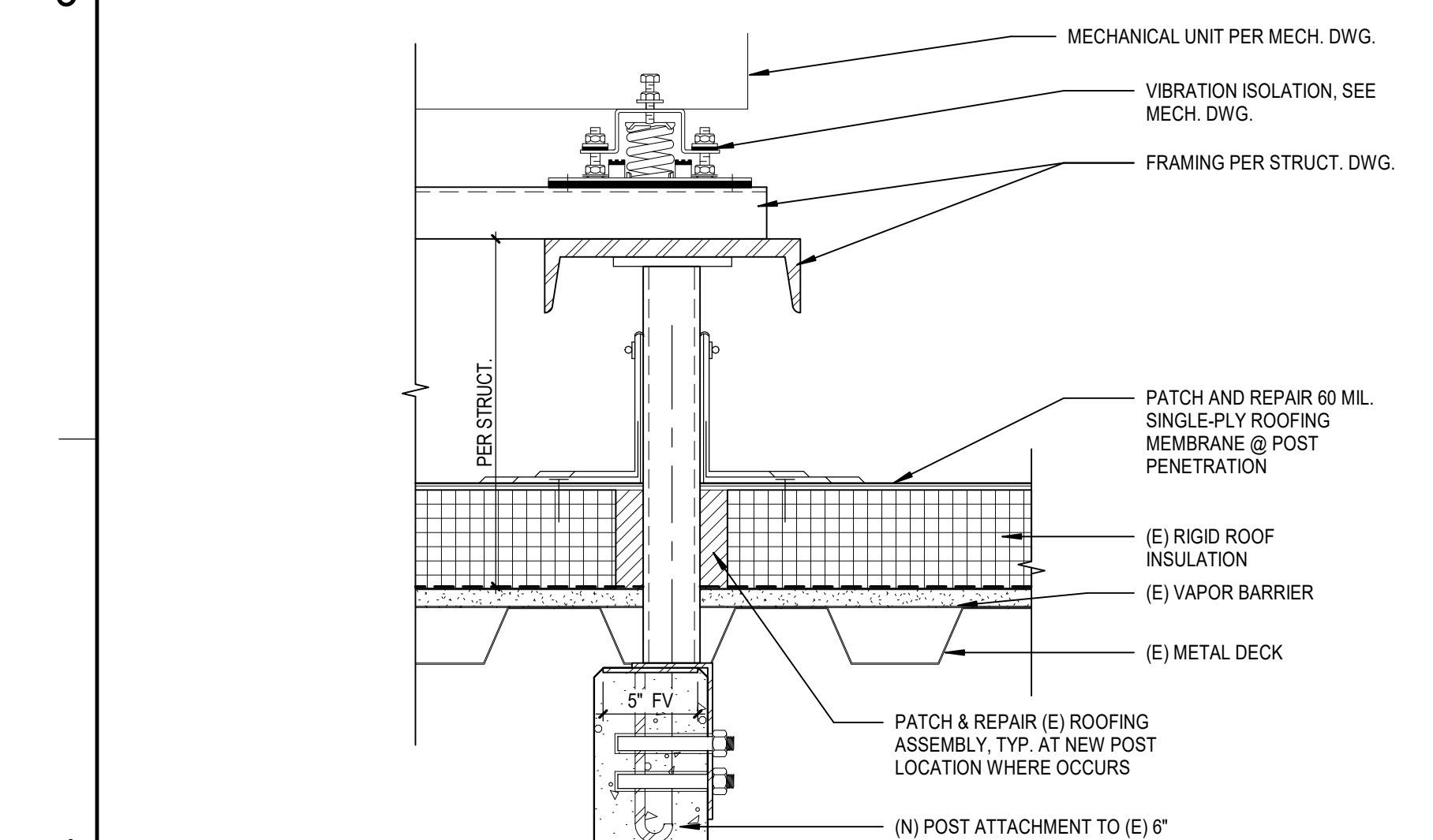
ADMIN BUILDING A & B FLOOR PLAN
 SCALE: 1/8" = 1'-0"



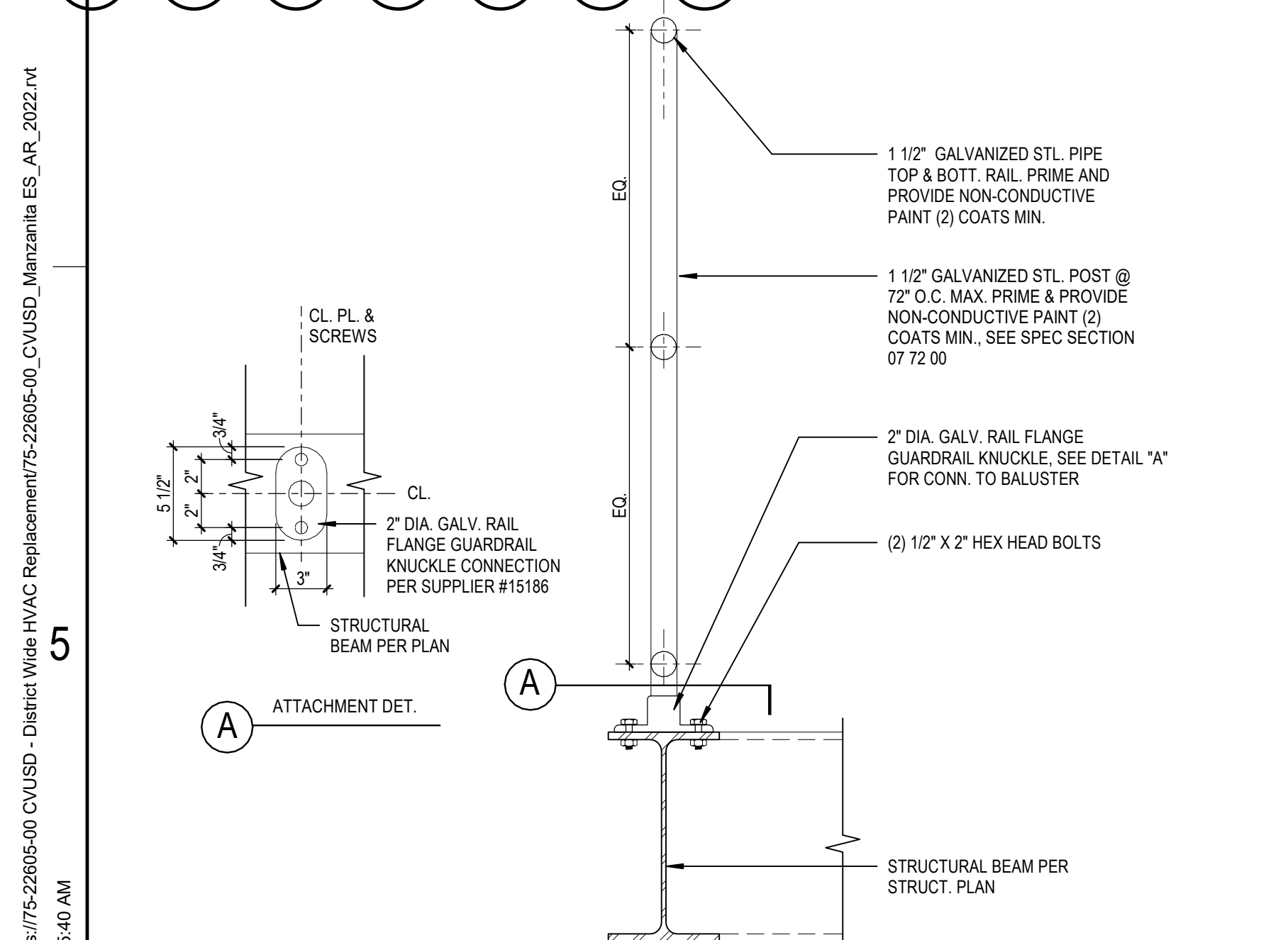
4 TYPICAL MECH. DUCT PENETRATION FLASHING
A1.3C SCALE: 3" = 1'-0"



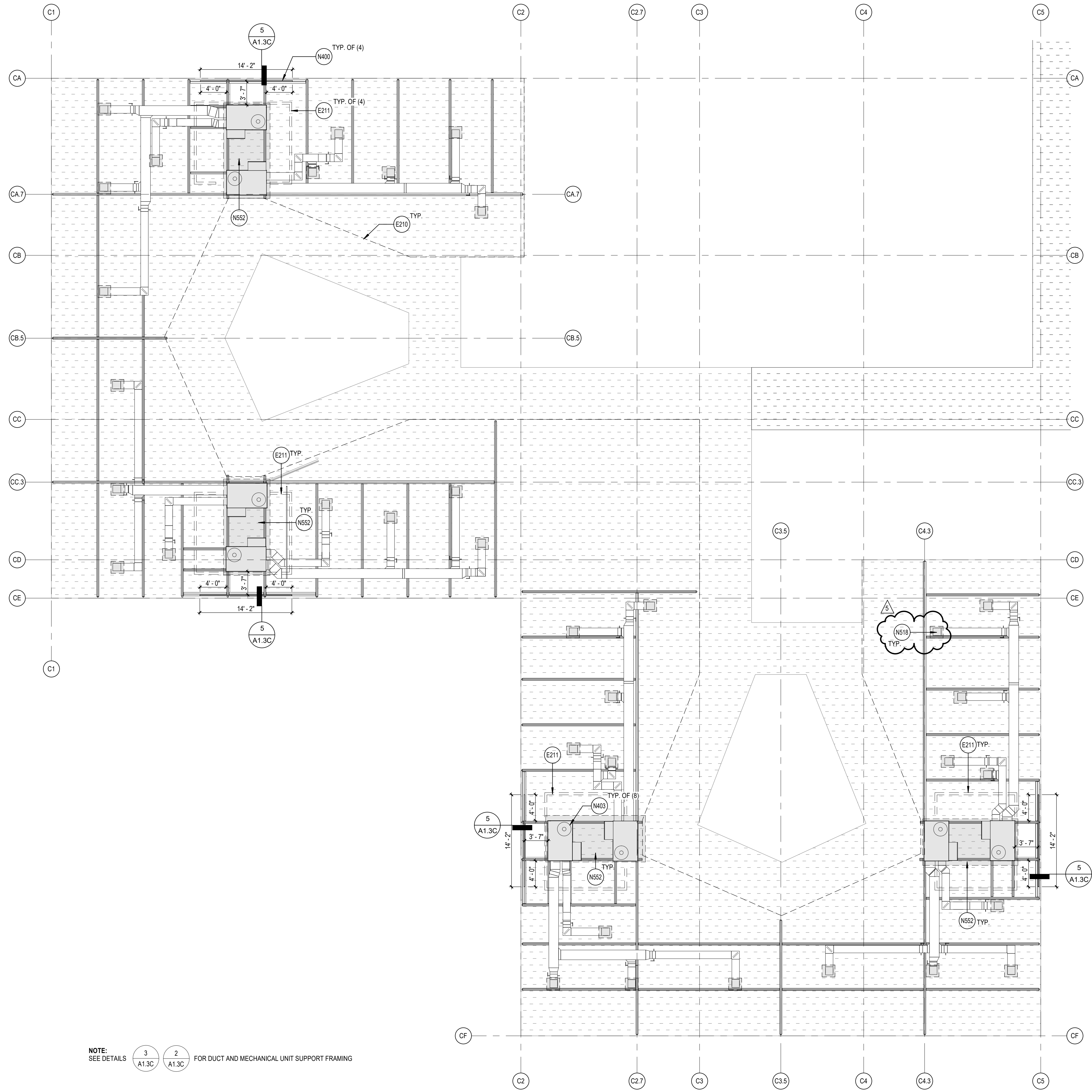
2 FIELD FABRICATED PIPE FLASHING
A1.3C SCALE: 12" = 1'-0"



3 MECH UNIT/DUCT SUPPORT @ WALL
A1.3C SCALE: 12" = 1'-0"



5 HVAC ROOF GUARDRAIL - STL FRAMING
A1.3C SCALE: 1 1/2" = 1'-0"



BUILDING C ROOF PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

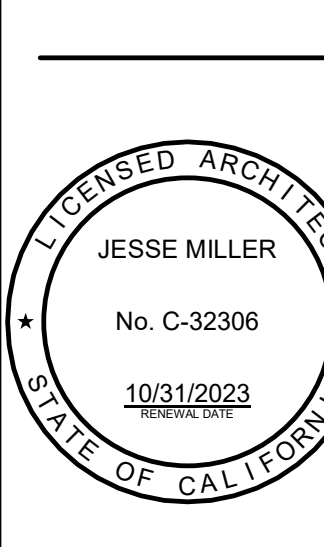
- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
- E211 DEMO (E) MECHANICAL SCREEN AND CAP ANY EXPOSED PIPES AND ACCESSORY ITEMS. PATCH AND REPAIR EXISTING ROOFING SYSTEM AS REQUIRED AFTER DEMOLITION.
- (N) NEW FREESTANDING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00.
- (N) ROOF PATCHING IN AREA OF WORK REMOVE (E) CONDENSING UNITS, PLATFORMS AND ASSOCIATED ITEMS. PATCH AND REPAIR ROOFING AS REQUIRED. IN-FILLING DECK AS NECESSARY TO PROVIDE WATER TIGHT ROOF SYSTEM.

ROOF PLAN GENERAL NOTES

- A. ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLAN SHEETS.
- B. NOT USED.
- C. NOT USED.
- D. NOT USED.
- E. ALL ROOF CURBS TO BE A MINIMUM OF 8 INCHES ABOVE ROOFING LEVELS.
- F. SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
- G. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- H. FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON DRAWINGS.
- I. NO ROOF PENETRATIONS ALLOWED WITHIN 4'-0" EACH SIDE OF FIREWALL.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED.
 - Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



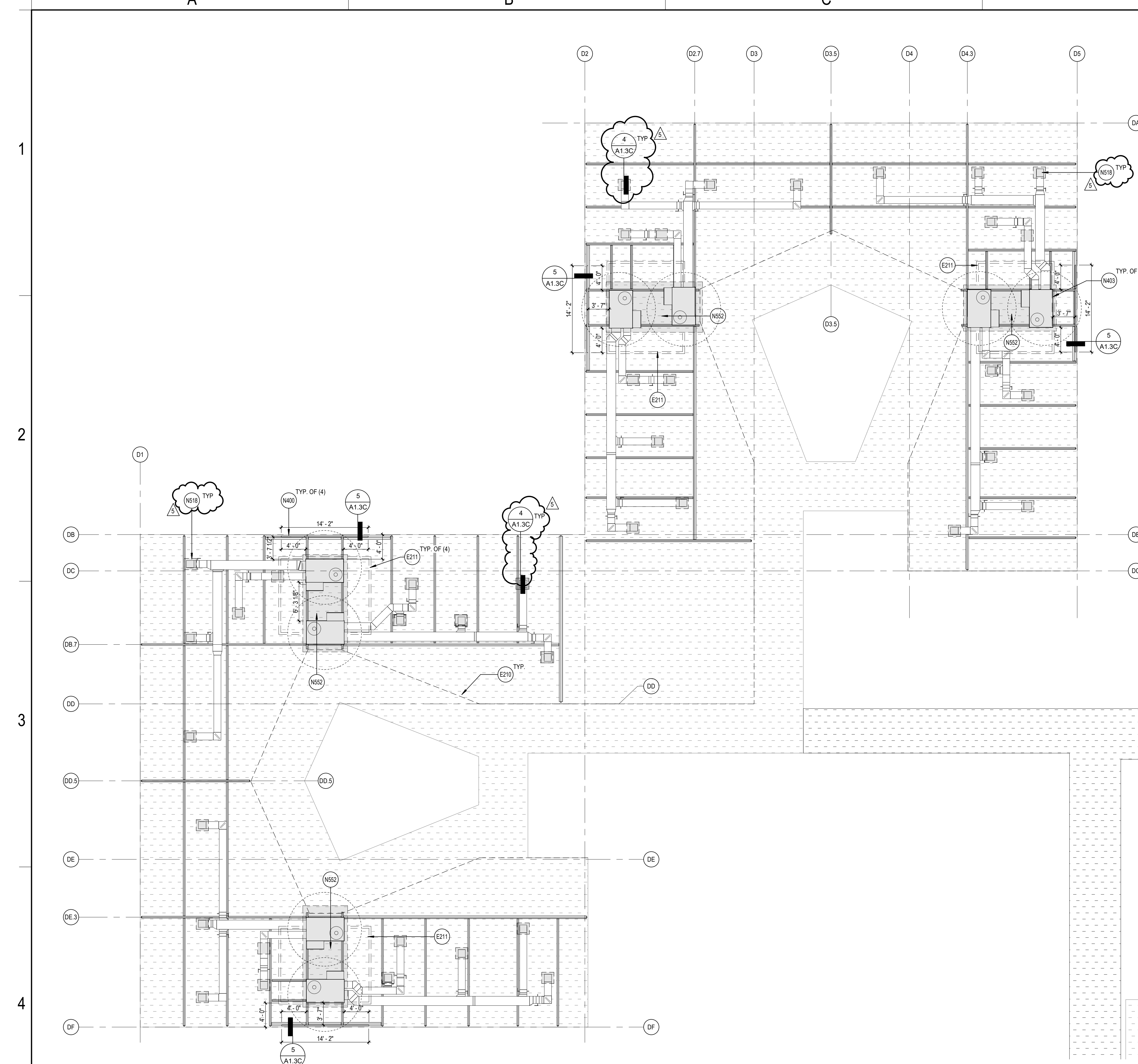
MANZANITA ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
4131 N. NORRA AVE. COVINA, CA 91722

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5 1/13/2023

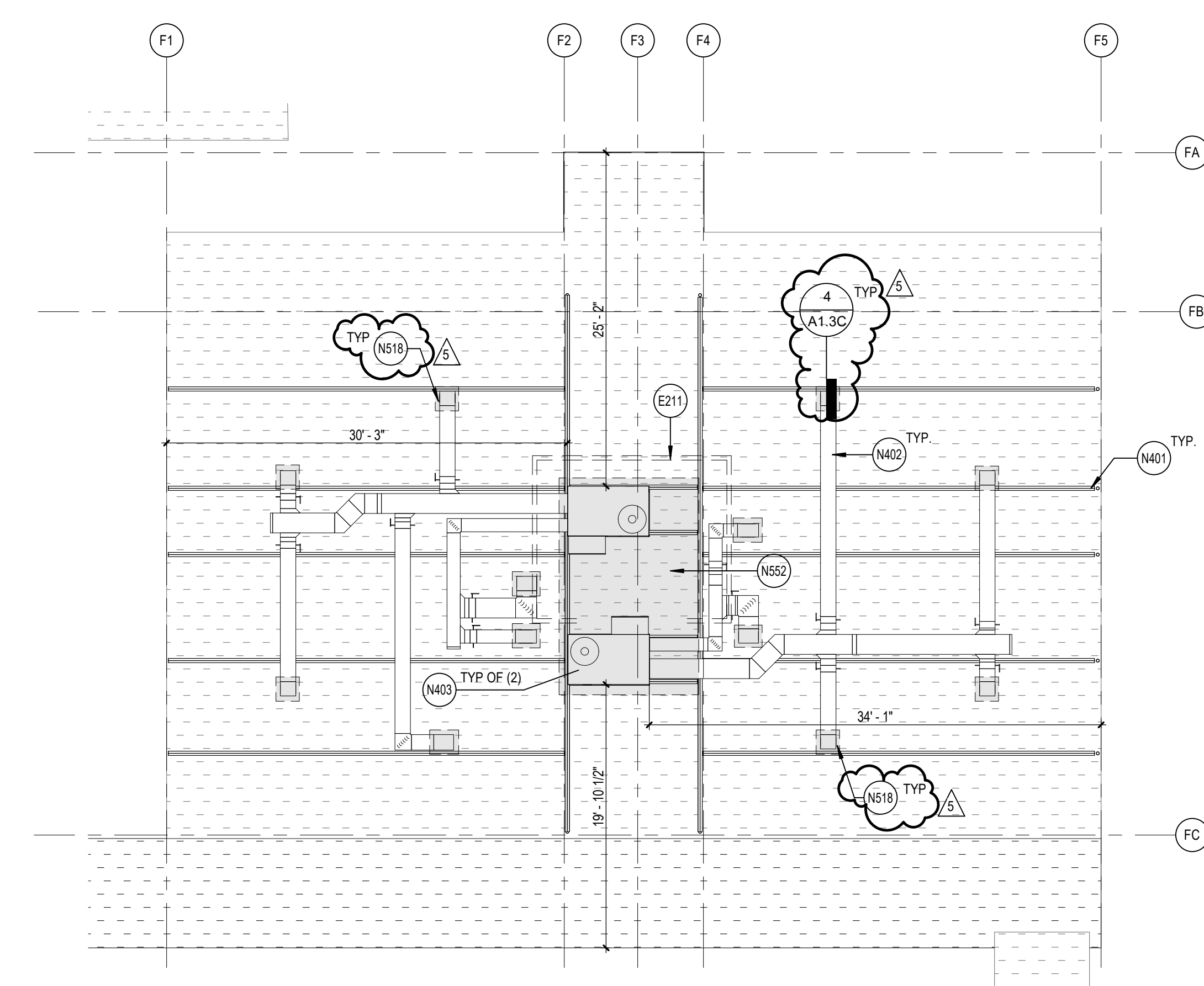
75-22605-00
DSA A#03-122231
DSA File #: 19-25
BUILDING C ROOF PLAN

A1.3C

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BUILDING E ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING F ROOF PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

E210	LINE OF (E) BLDG BELOW SHOWN DASHED
E211	DEMCO (E) MECHANICAL SCREEN AND CAP ANY EXPOSED PIPES AND ACCESSORY ITEMS. PATCH AND REPAIR EXISTING ROOFING SYSTEM AS REQUIRED AFTER DEMOLITION.
N400	NEW FREESTANDING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION DS 52.00.
N401	NEW STRUCTURAL POST AND BEAM SUPPORT FRAMING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
N402	NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
N403	(N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURBS. SEE MECHANICAL DRAWINGS SHEETS M7.3, M7.4 AND M7.5.
N518	(N) ROOF PATCHING IN AREA OF WORK REMOVE (E) CONDENSING UNITS, PLATFORMS AND ASSOCIATED ITEMS. PATCH AND REPAIR ROOFING AS REQUIRED. IN-FILLING DECK AS NECESSARY TO PROVIDE WATER TIGHT ROOF SYSTEM.
N522	

- ROOF PLAN GENERAL NOTES**
- ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLAN SHEETS.
 - NOT USED.
 - NOT USED.
 - ALL ROOF CURBS TO BE A MINIMUM OF 8 INCHES ABOVE ROOFING LEVELS.
 - SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
 - COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
 - FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON DRAWINGS.
 - NO ROOF PENETRATIONS ALLOWED WITHIN 4'-0" EACH SIDE OF FIREWALL.

- DEMOLITION GENERAL NOTES**
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERS/BARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED.
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



MANZANITA ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
4131 N. NORRA AVE. COVINA, CA 91722

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5 1/13/2023

75-22605-00
DSA A#03-122231
DSA File #: 19-25
BUILDING E & F ROOF PLAN

A1.3E

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A

B

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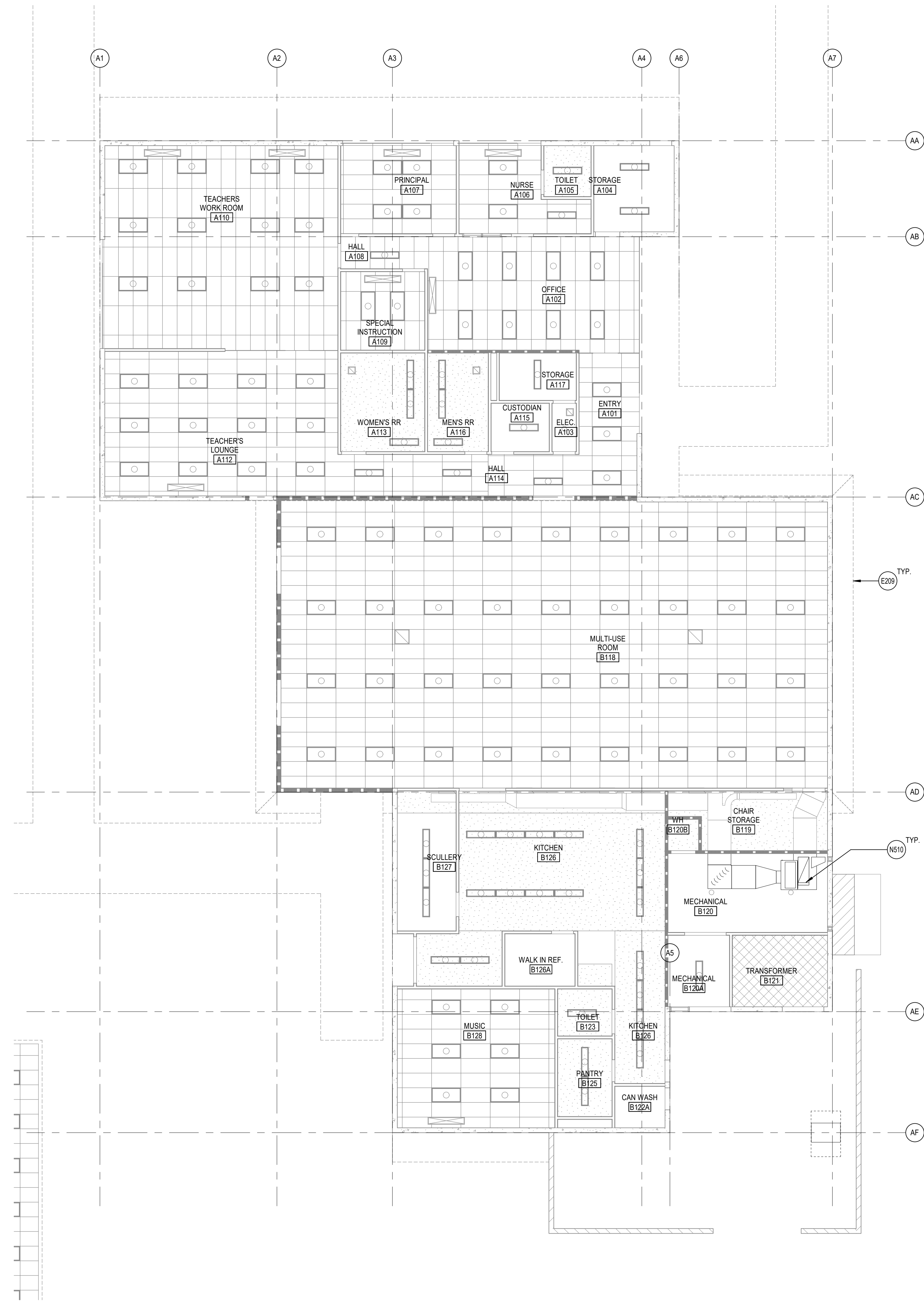
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REFERENCE KEYNOTES

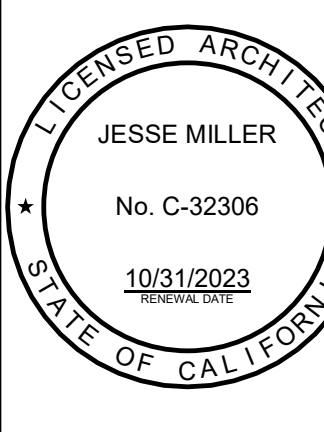
E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
 N510 NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRID/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE.
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

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 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
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 - P. NOT USED.
 - Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



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75-22605-00
 DSA A#03-122231
 DSA File #: 19-25
 ADMIN BUILDINGS REFLECTED CEILING PLAN

A3.1A

ADMIN BUILDING A & B REFLECTED CEILING PLAN

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

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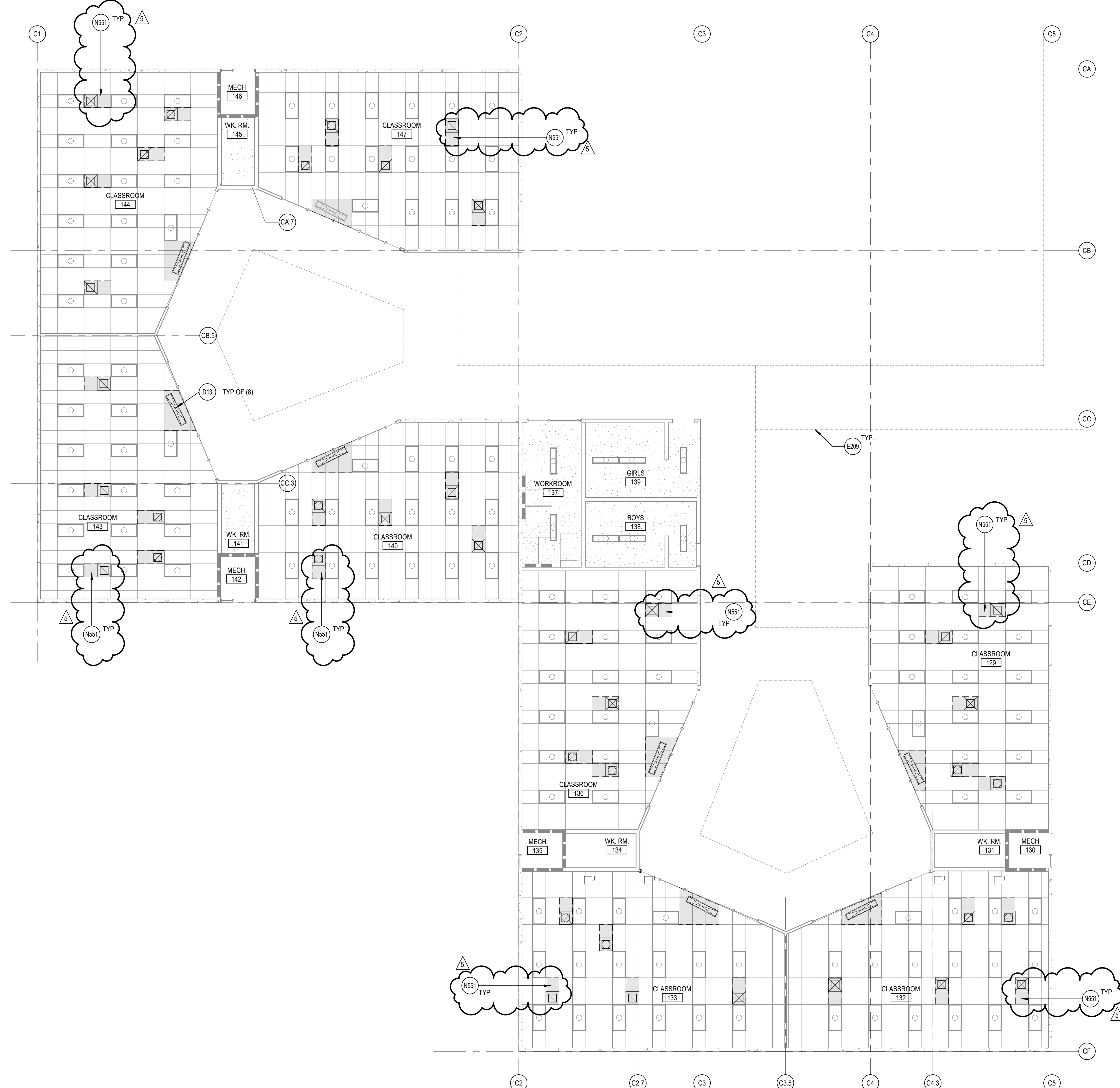
- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
- E208 LINE OF (E) ROOF ABOVE SHOWN DASHED REMOVE AND REPLACE EXISTING 2X4 ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.

REFLECTED CEILING PLAN GENERAL NOTES

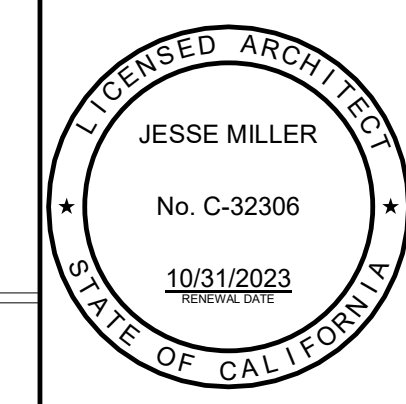
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- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF THE ROOM
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
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BUILDING C REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

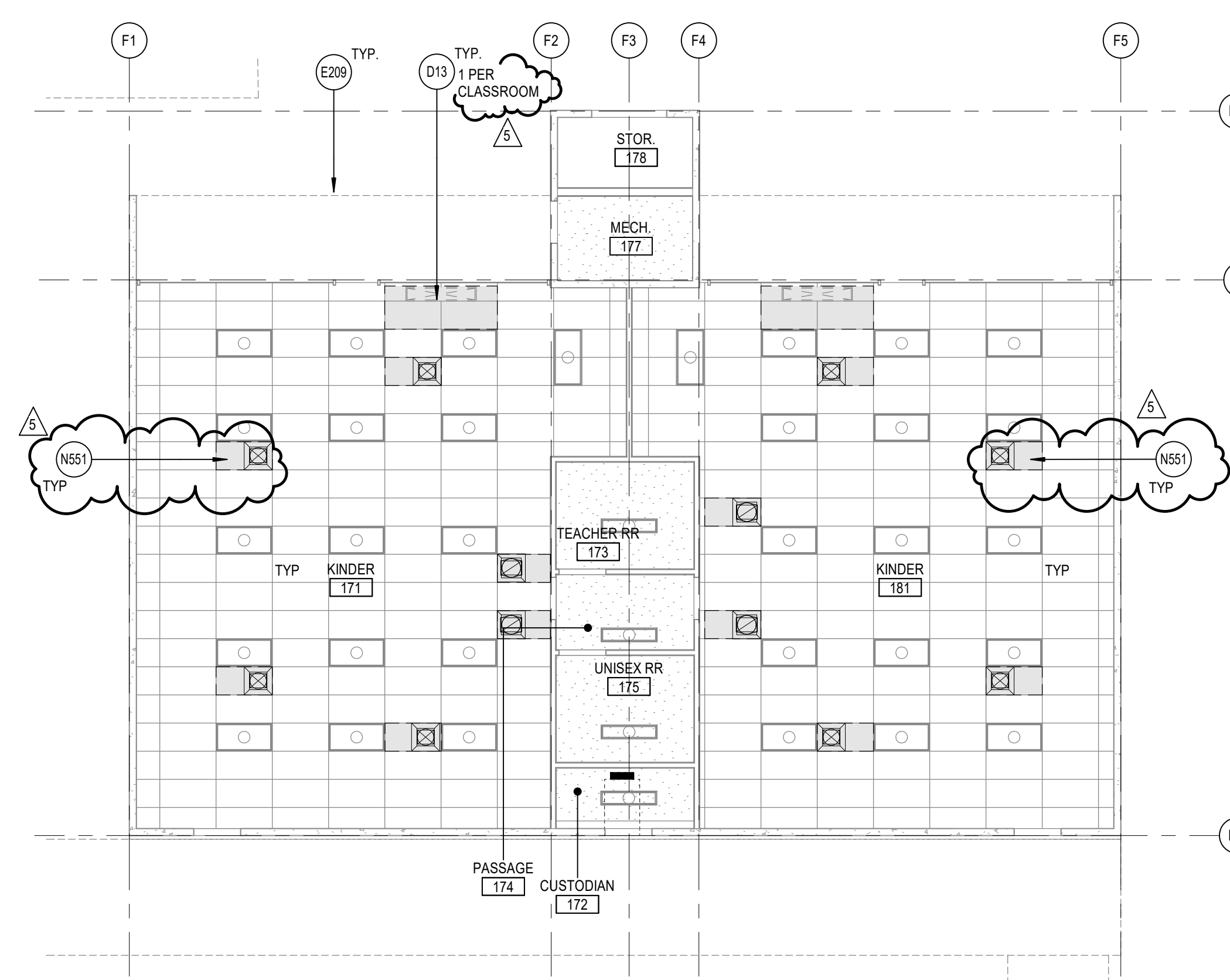
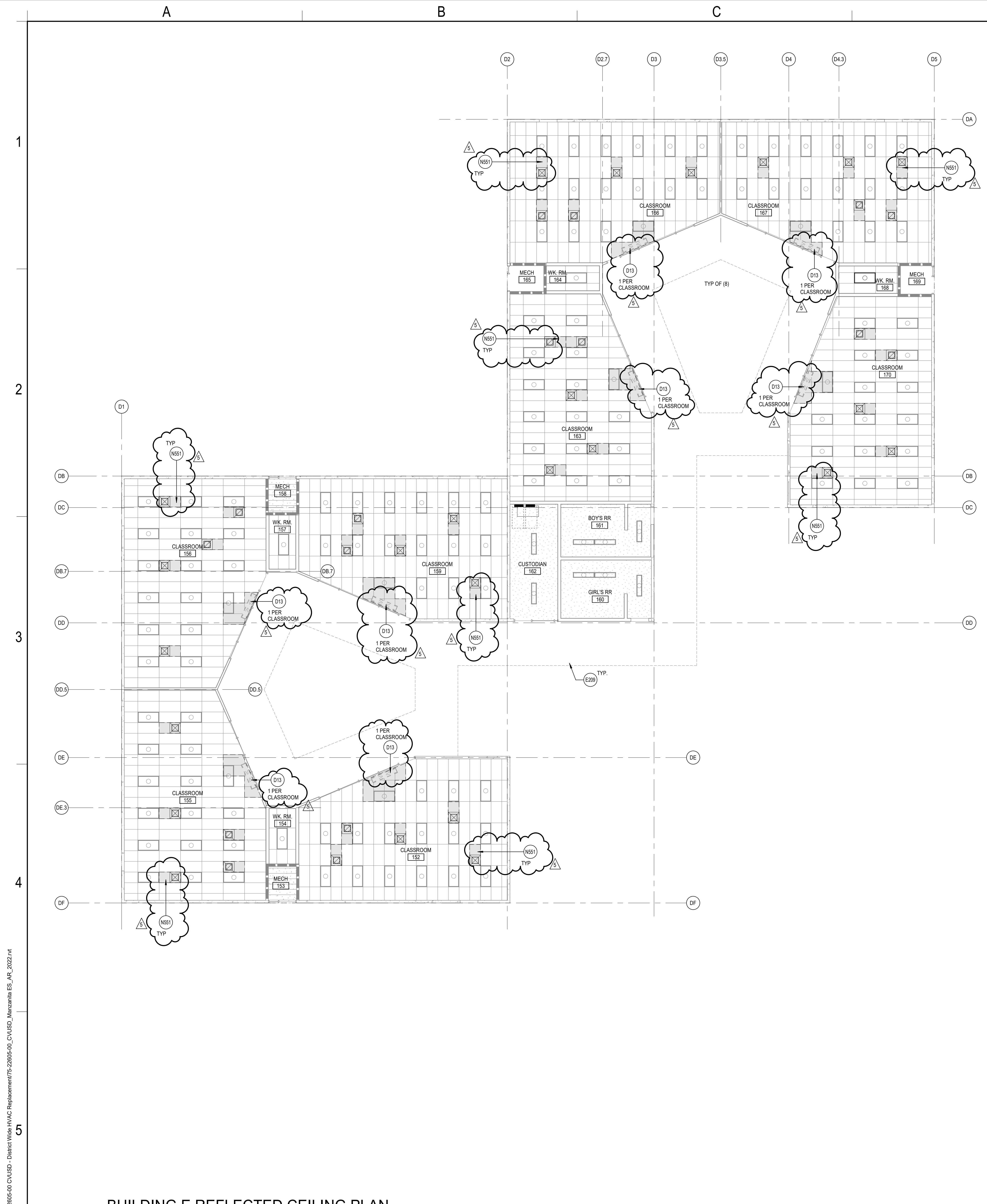


MANZANITA ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
4131 N. NORRA AVE. COVINA, CA 91722

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REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-12231
DSA File #: 19-25
BUILDING C REFLECTED CEILING PLAN

A3.1C



- REFERENCE KEYNOTES**
- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
 - NS51 LINE OF (E) ROOF ABOVE SHOWN DASHED REMOVE AND REPLACE EXISTING 2X4 ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.

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- D. IN ACoustICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACoustICAL PANEL CEILINGS, COORDINATE LOCATION WITH THE ARCHITECT.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
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DLR Group
ARCHITECT

JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA



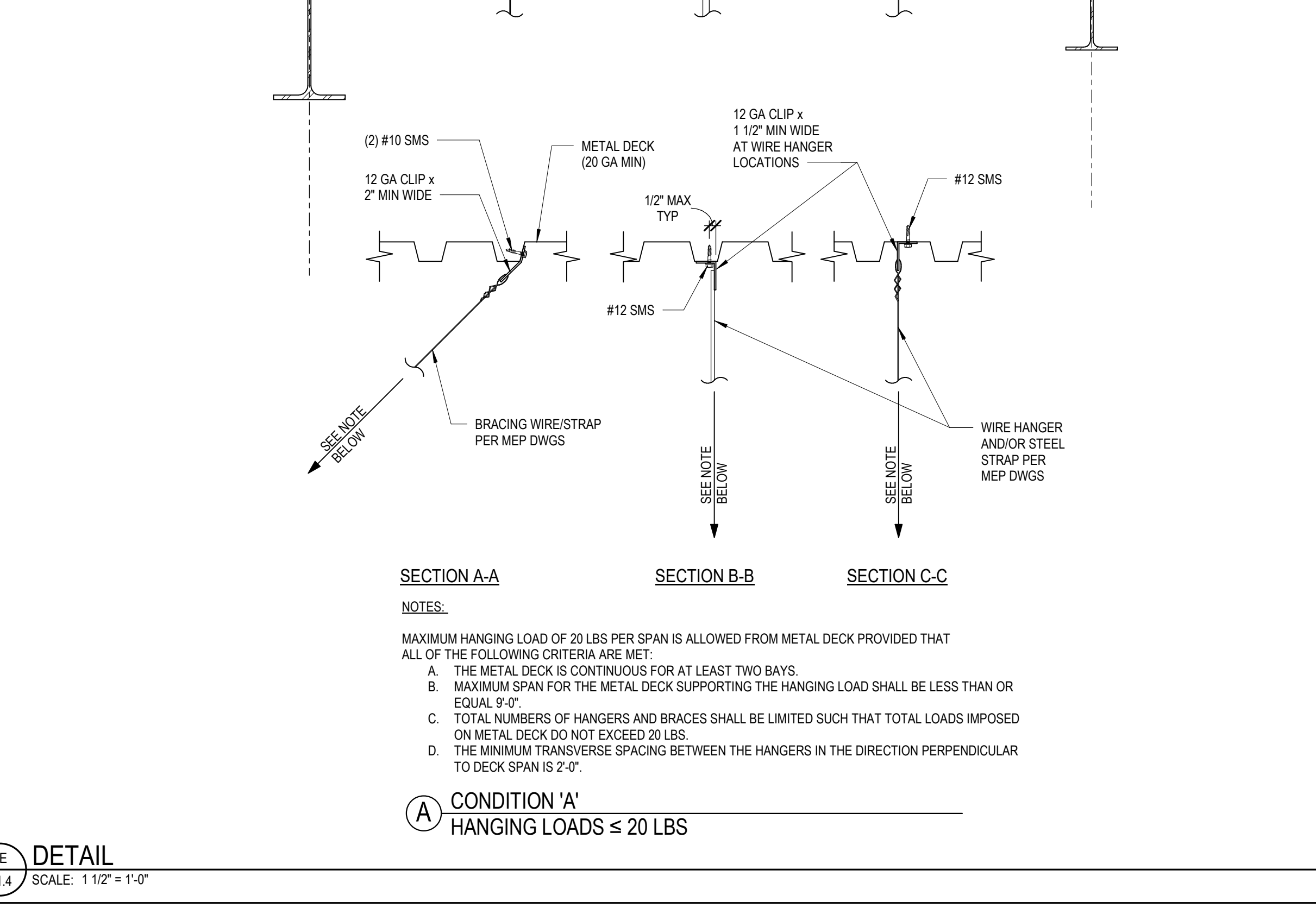
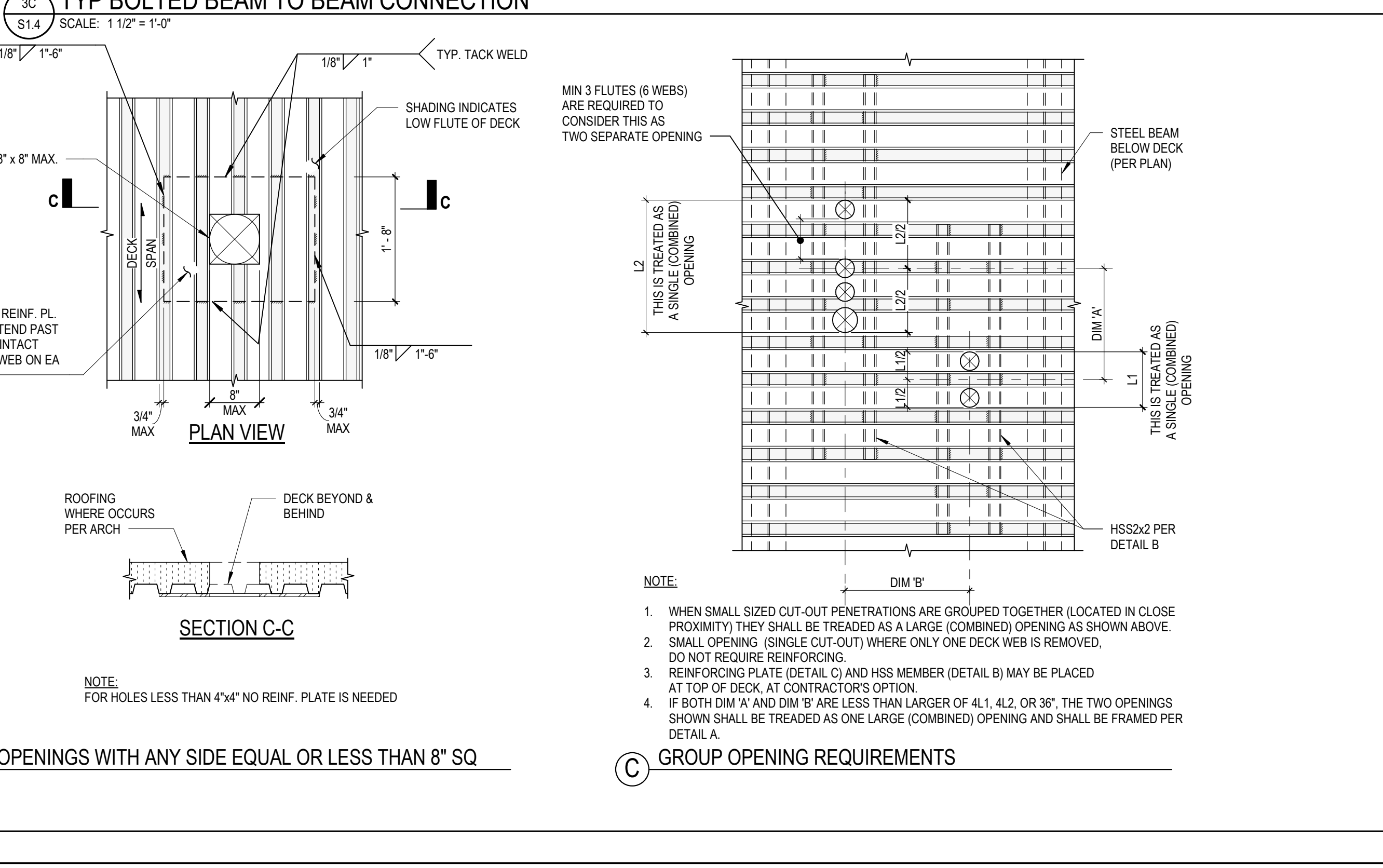
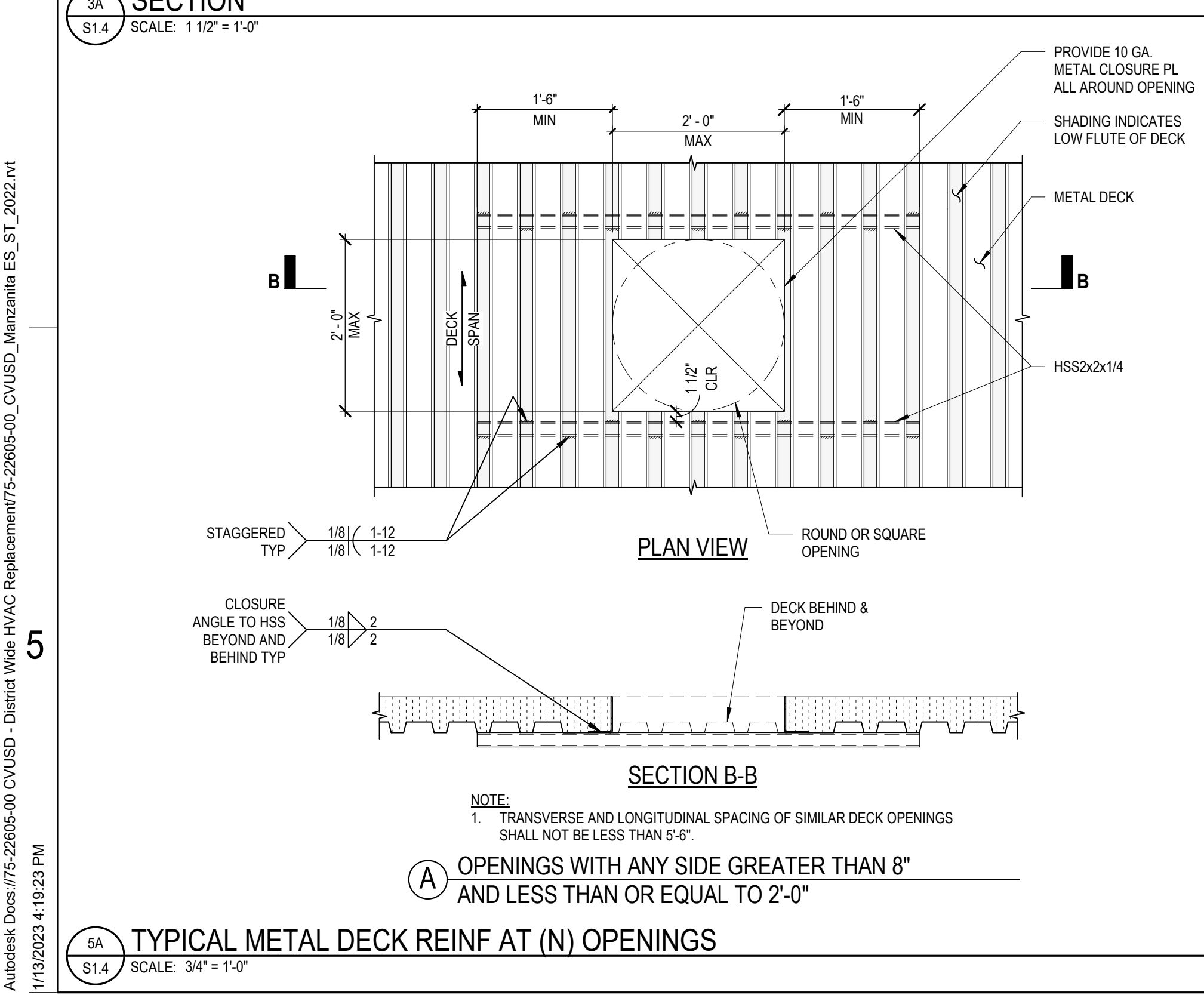
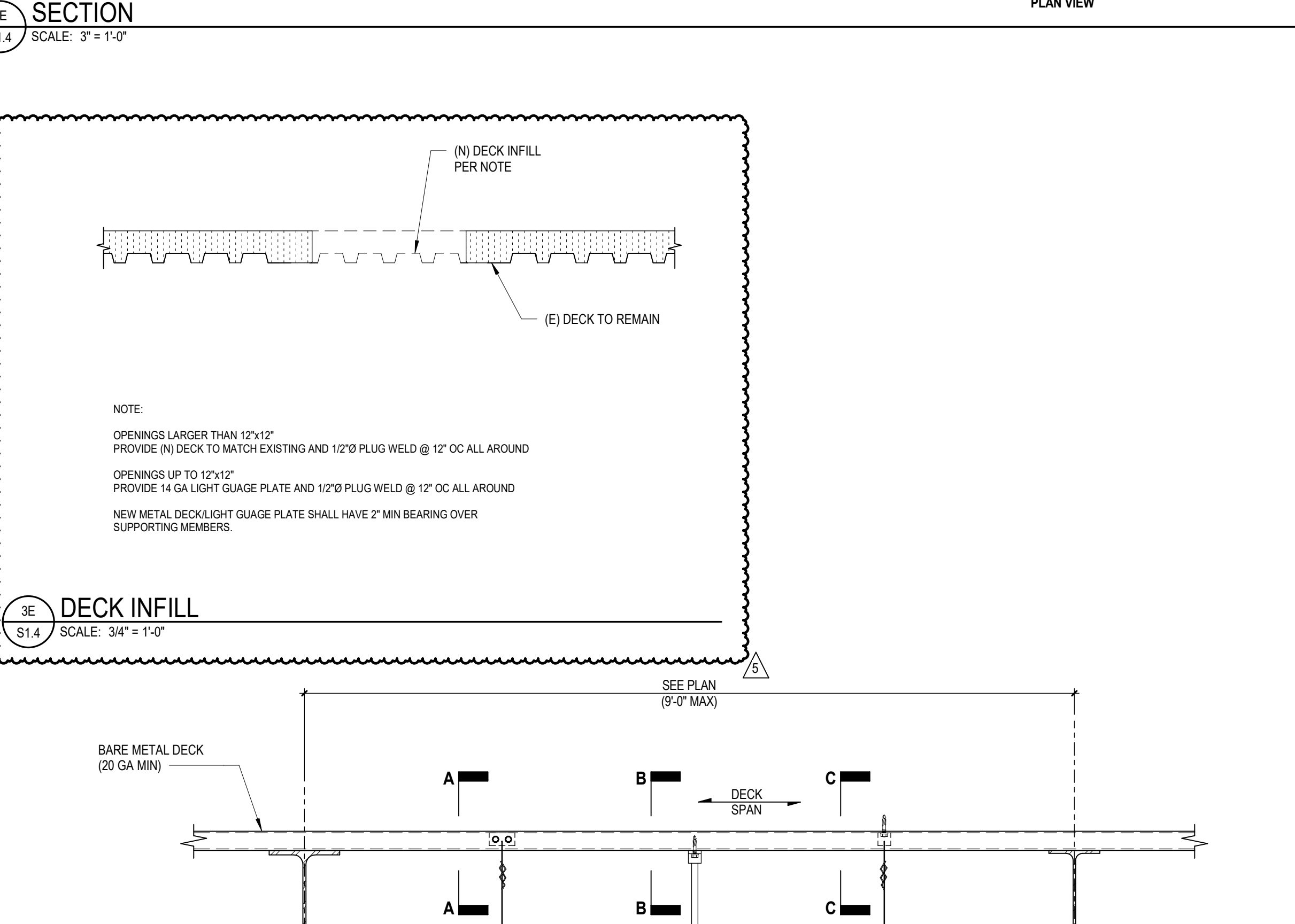
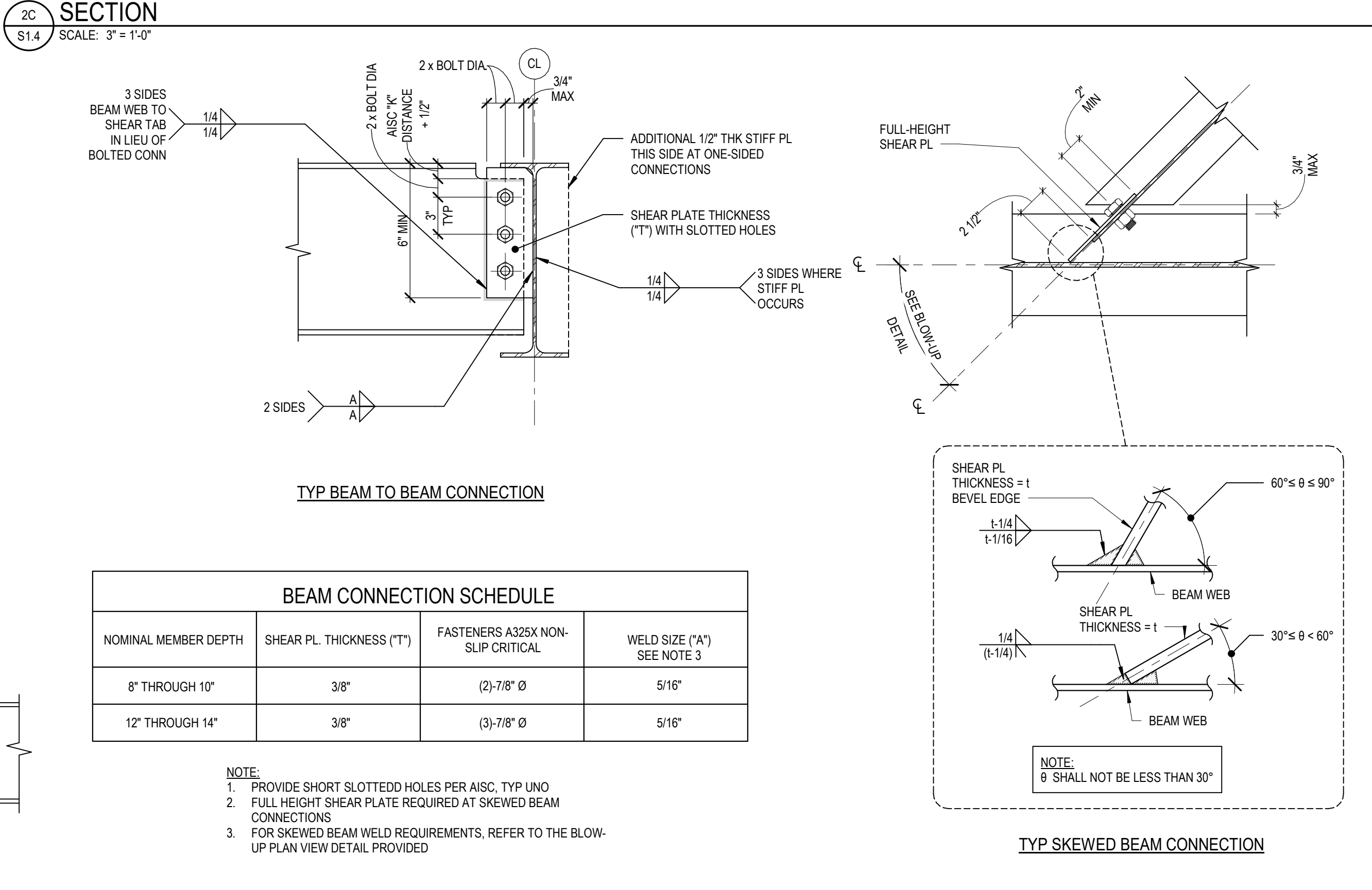
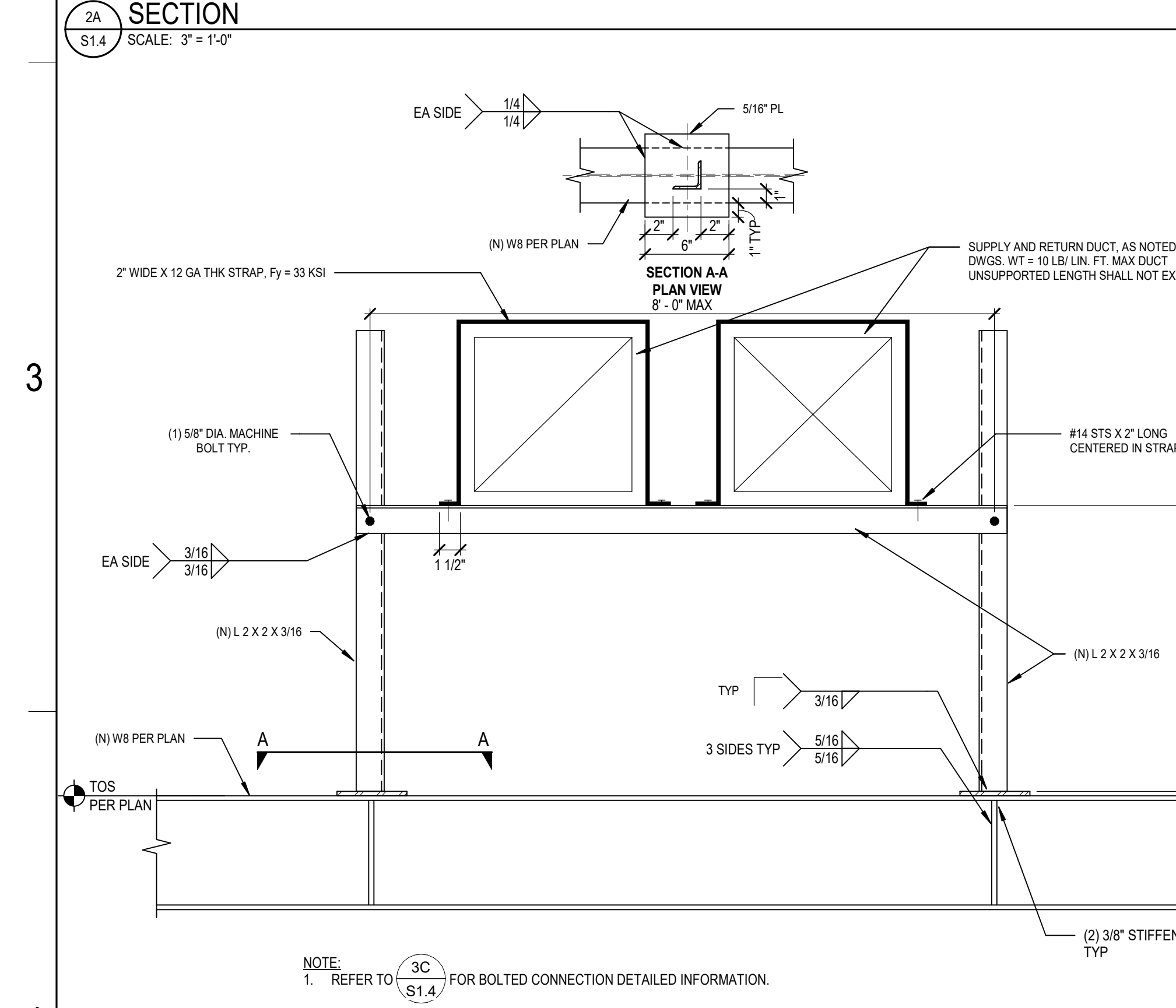
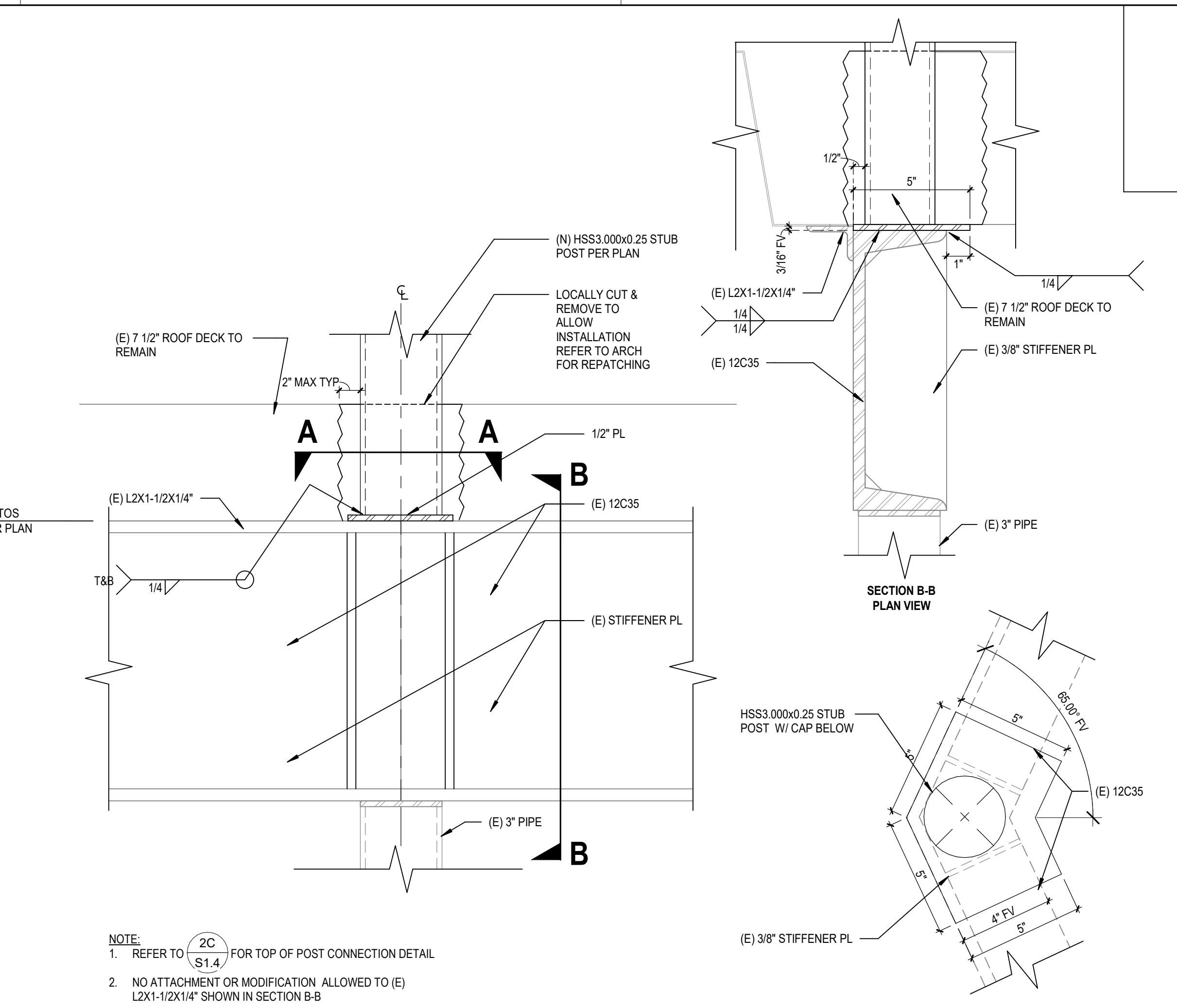
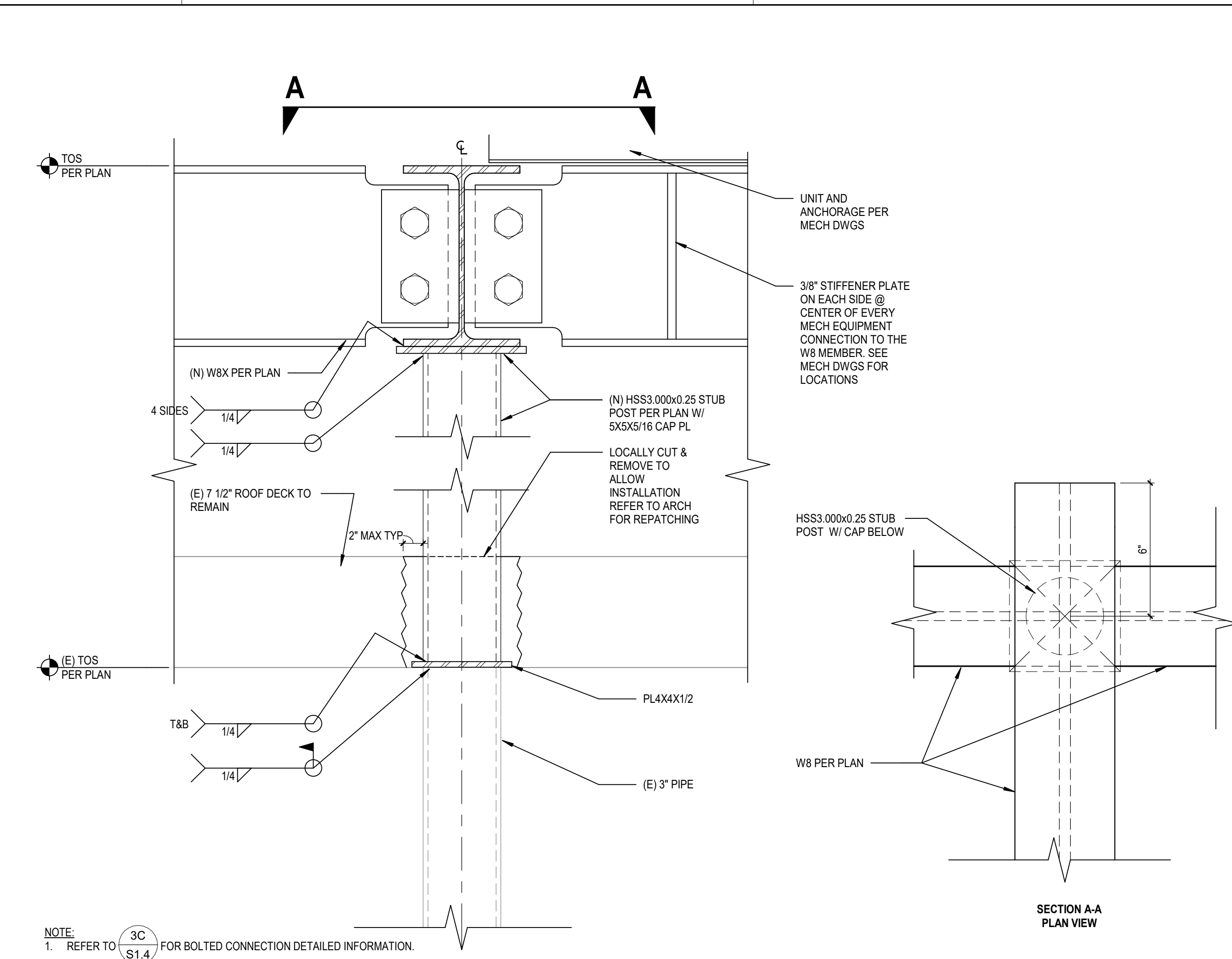
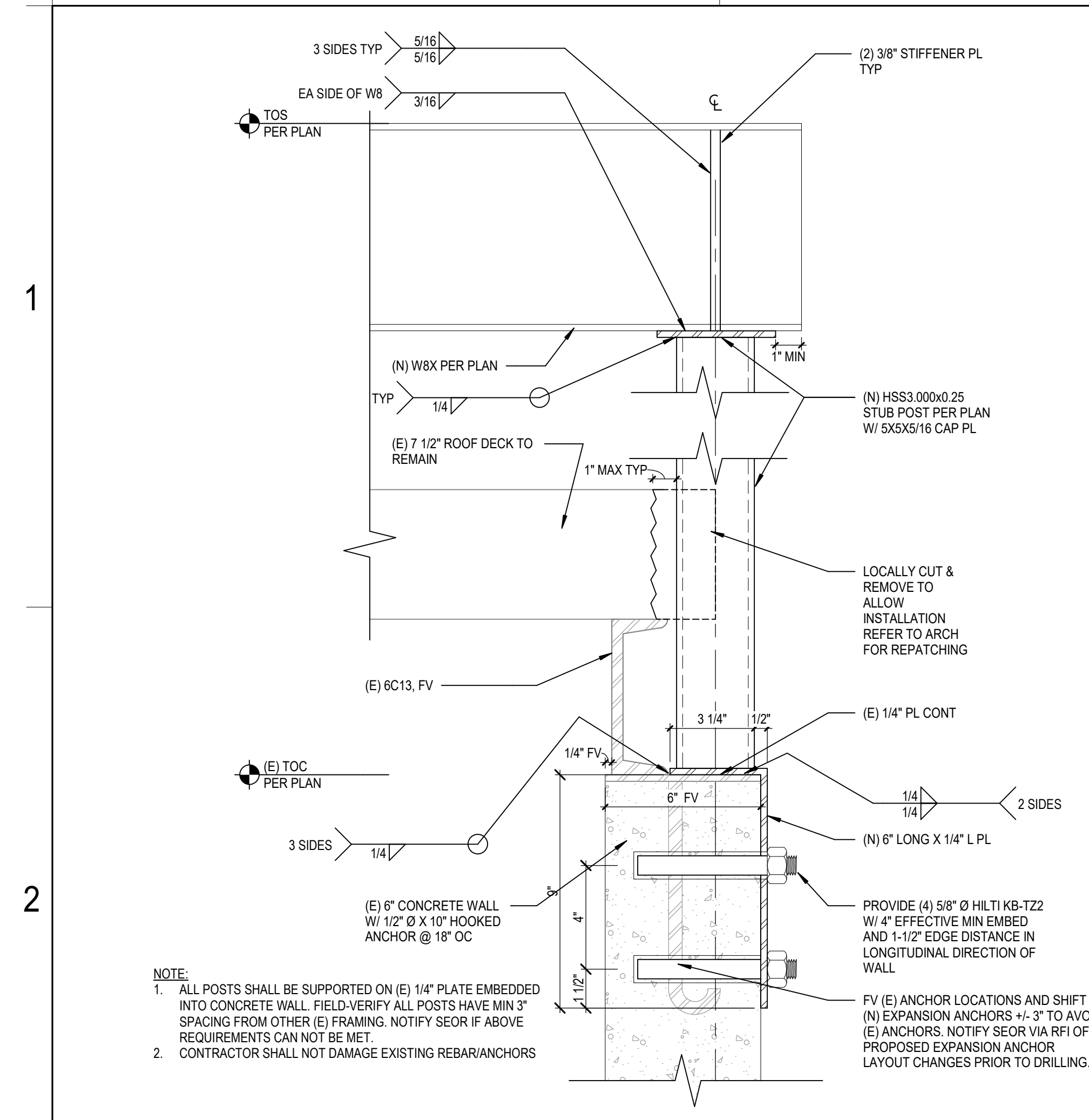
MANZANITA ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY DISTRICT HVAC REPLACEMENT
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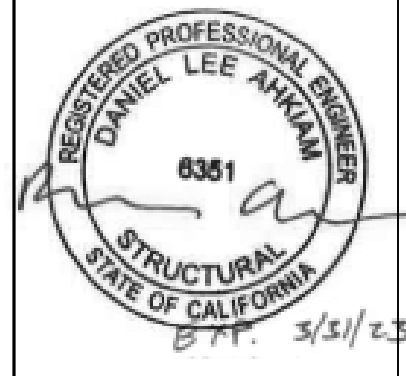
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BEAM CONNECTION SCHEDULE			
NOMINAL MEMBER DEPTH	SHEAR PL. THICKNESS (\"T\")	FASTENERS A325X NON-SLIP CRITICAL	WELD SIZE (\"A\") SEE NOTE 3
8\" THROUGH 10\"	3/8\"	(2)-7/8\" Ø	5/16\"
12\" THROUGH 14\"	3/8\"	(3)-7/8\" Ø	5/16\"

- NOTE:
1. PROVIDE SHORT SLOTTED HOLES PER AISC, TYP UNO
 2. FULL HEIGHT SHEAR PLATE REQUIRED AT SKEWED BEAM CONNECTIONS
 3. FOR SKEWED BEAM WELD REQUIREMENTS, REFER TO THE BELOW PLAN VIEW DETAIL PROVIDED



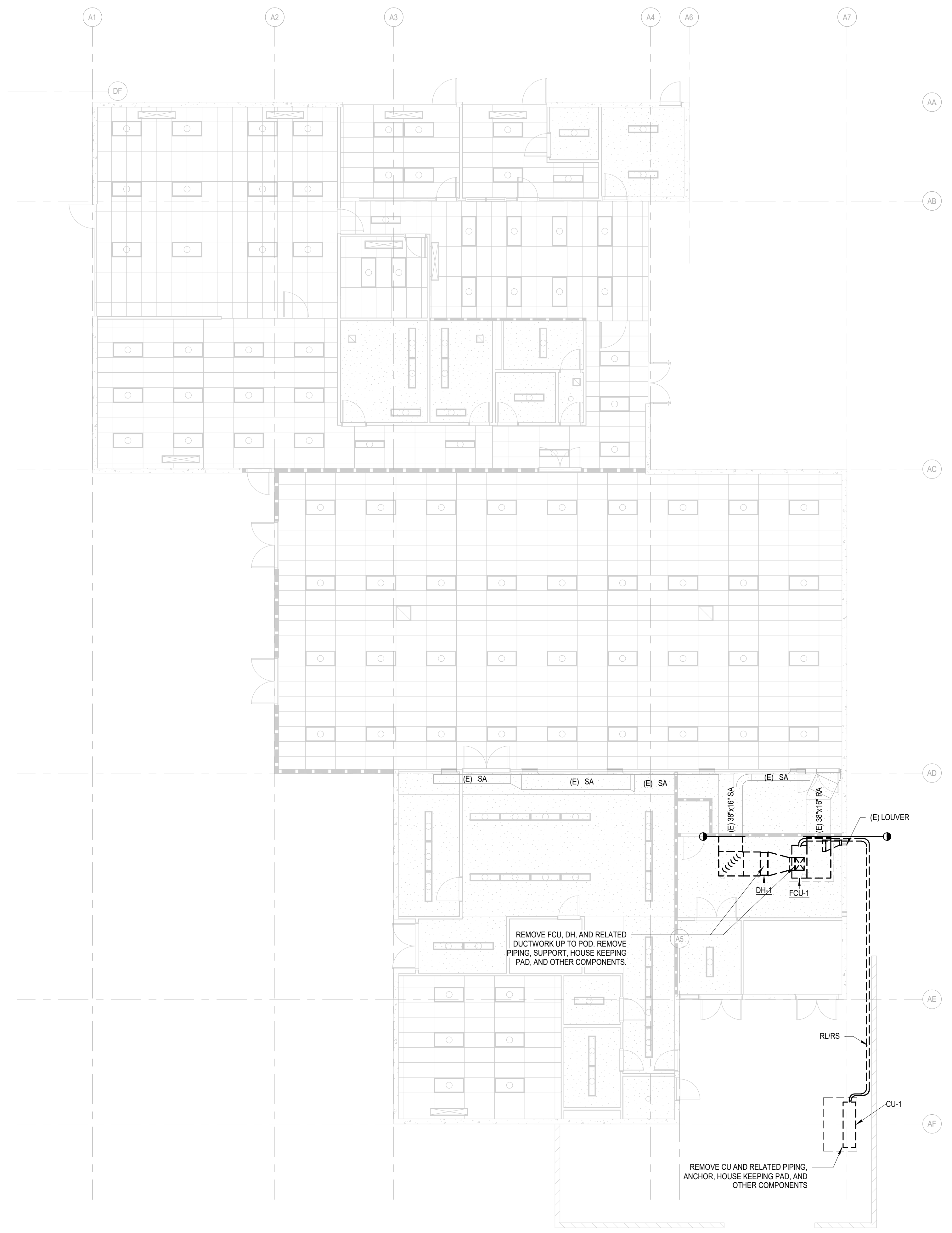
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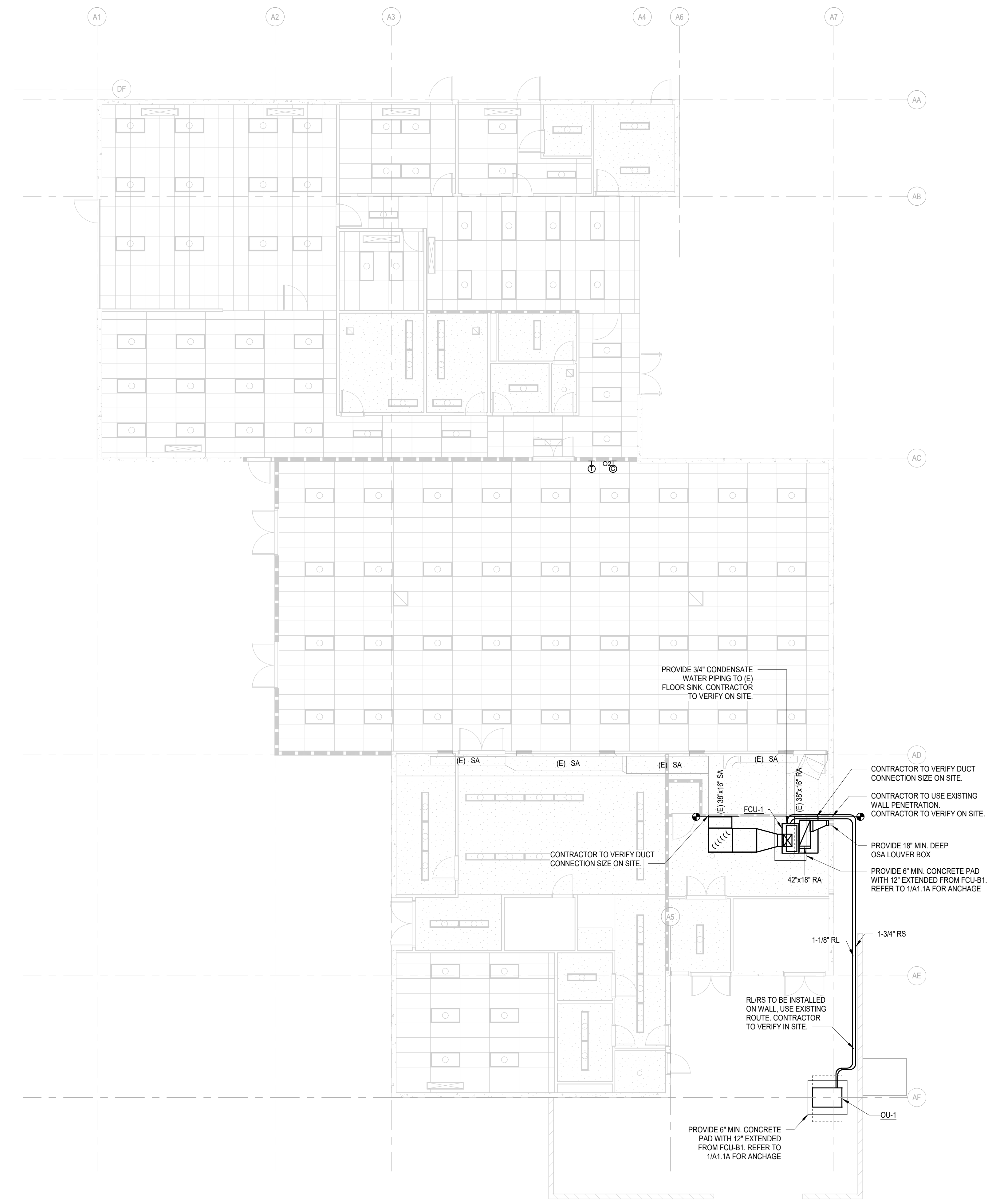
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S1.4

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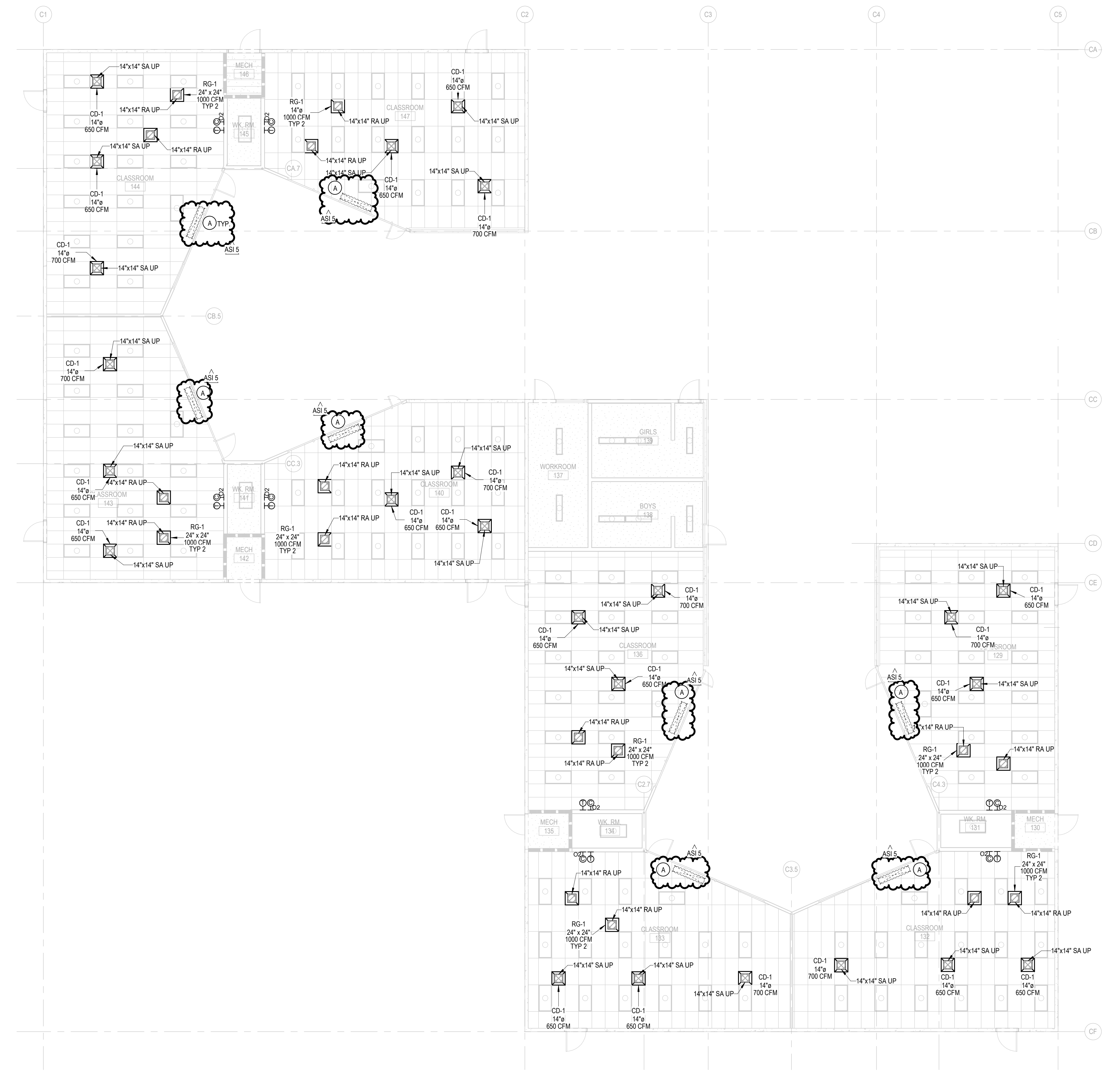
 **ADMIN BUILDING MECHANICAL DEMOLITION FLOOR PLAN - MPR ROOM**
SCALE: 1/8" = 1'-0"



 **ADMIN BUILDING MECHANICAL FLOOR PLAN - MPR ROOM**
SCALE: 1/8" = 1'-0"

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BUILDING C MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES

A DEMOLISH EXISTING OUTDOOR CONDENSING UNIT ON ROOF AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. CONTRACTOR TO VERIFY LOCATIONS ON SITE. TYP.

GENERAL NOTES

A SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
B DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



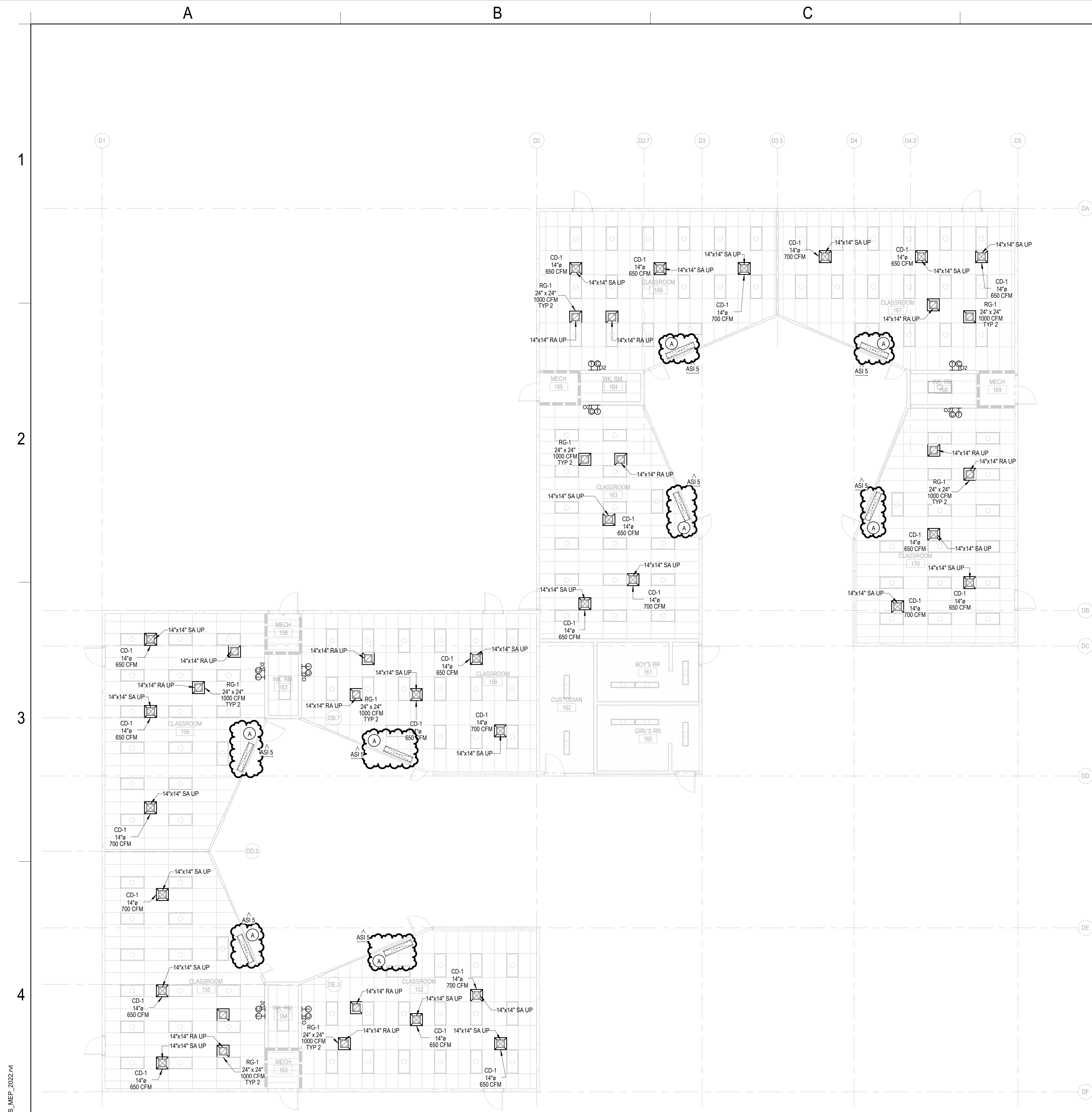
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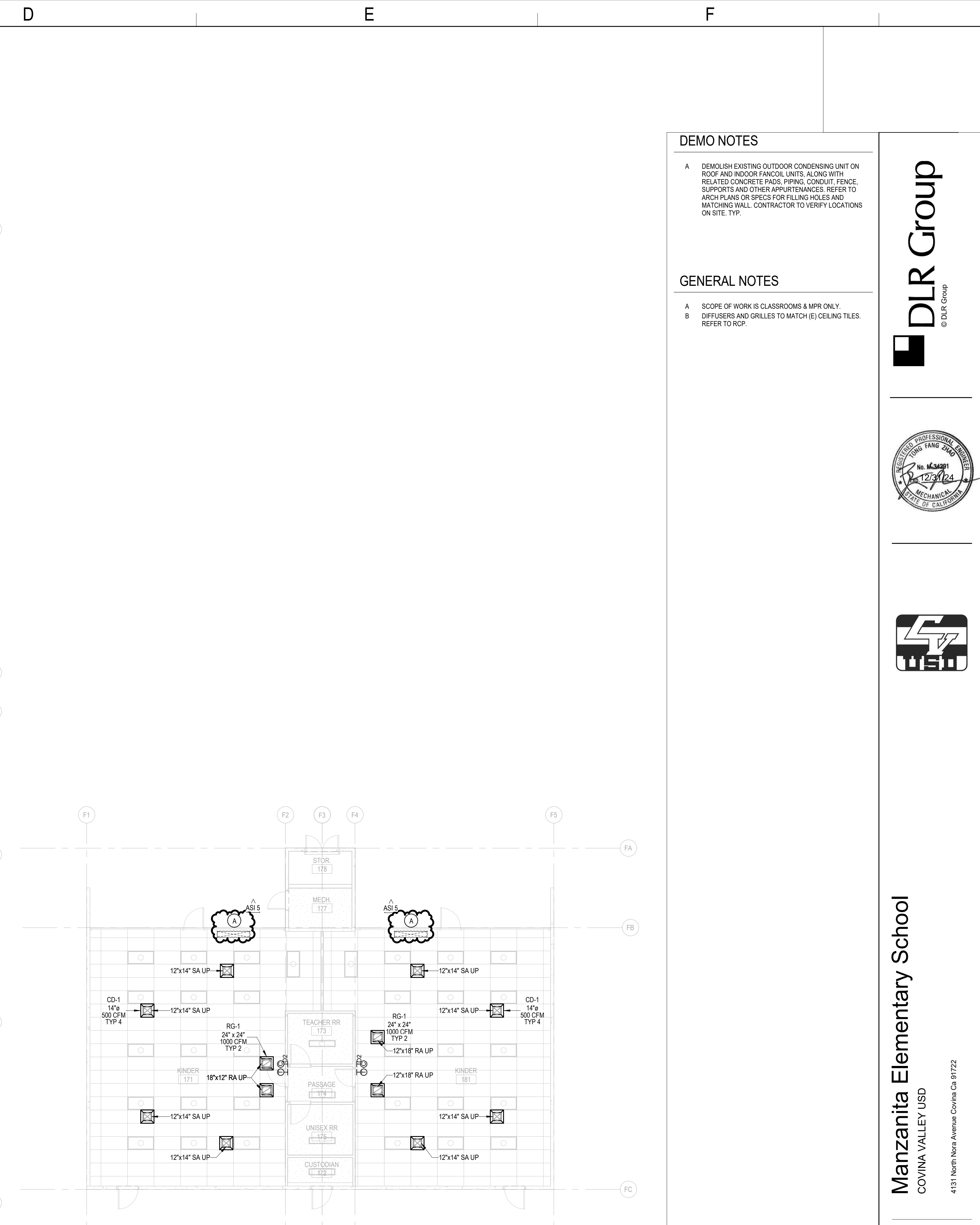
75-22605-00
**BUILDING C
MECHANICAL
FLOOR PLAN**

M1.1C

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BUILDING E MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



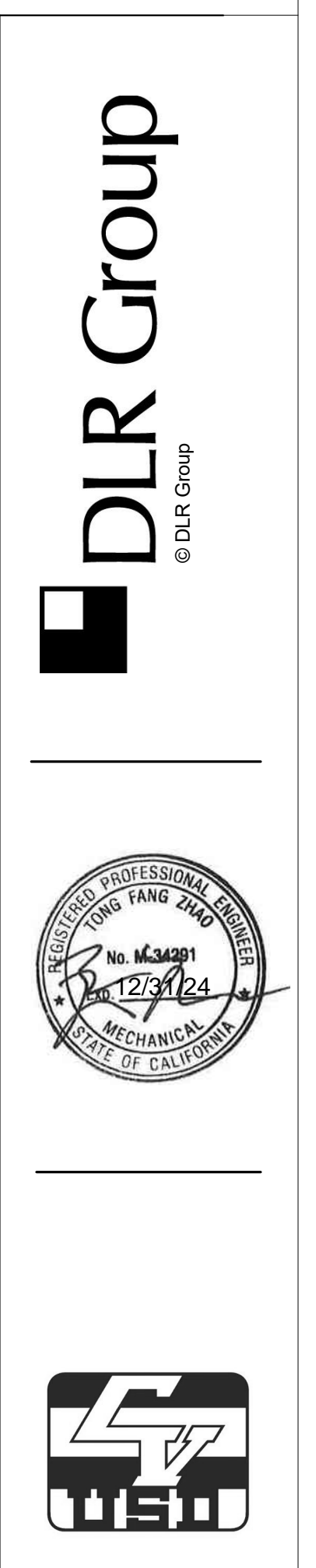
BUILDING F MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES

A DEMOLISH EXISTING OUTDOOR CONDENSING UNIT ON ROOF AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. CONTRACTOR TO VERIFY LOCATIONS ON SITE. TYP.

GENERAL NOTES

A SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
B DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



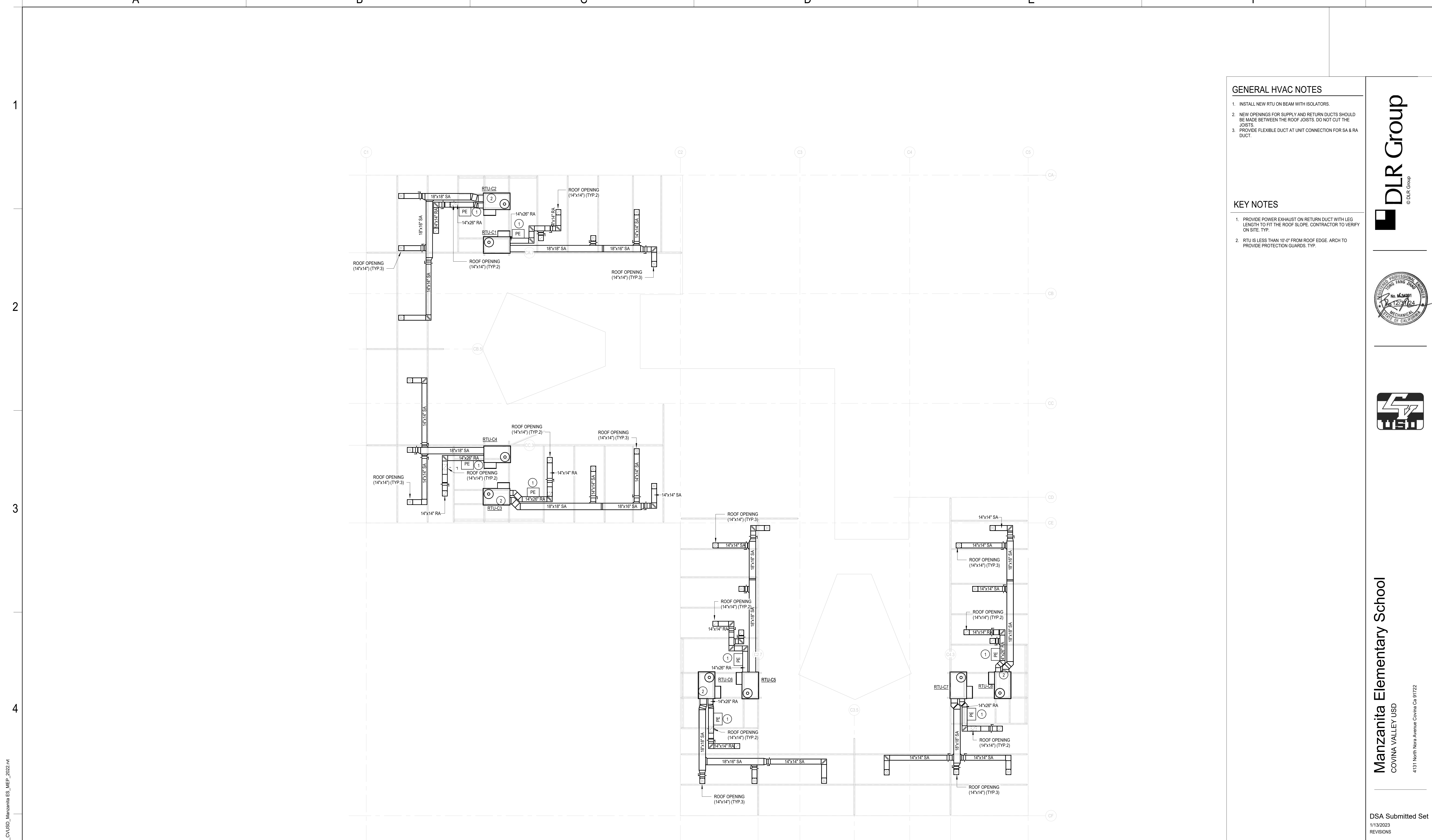
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ASI 5 01/13/2023

75-22605-00
BUILDING E & F
MECHANICAL
FLOOR PLAN

M1.1E

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BUILDING C MECHANICAL ROOF PLAN
 SCALE: 1/8" = 1'-0"

GENERAL HVAC NOTES

1. INSTALL NEW RTU ON BEAM WITH ISOLATORS.
2. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
3. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
2. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



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BUILDING C
 MECHANICAL
 ROOF PLAN

M1.3C

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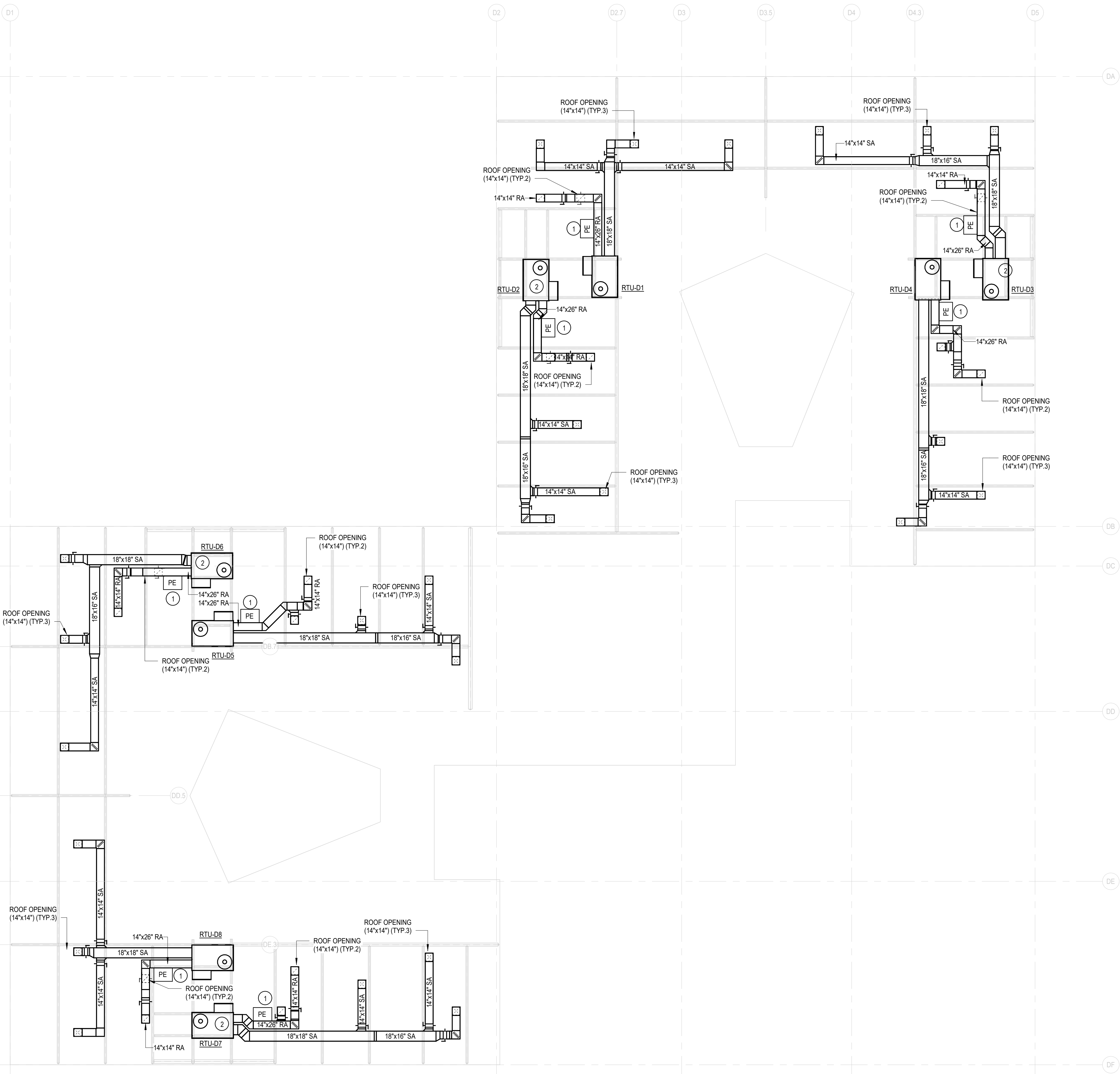
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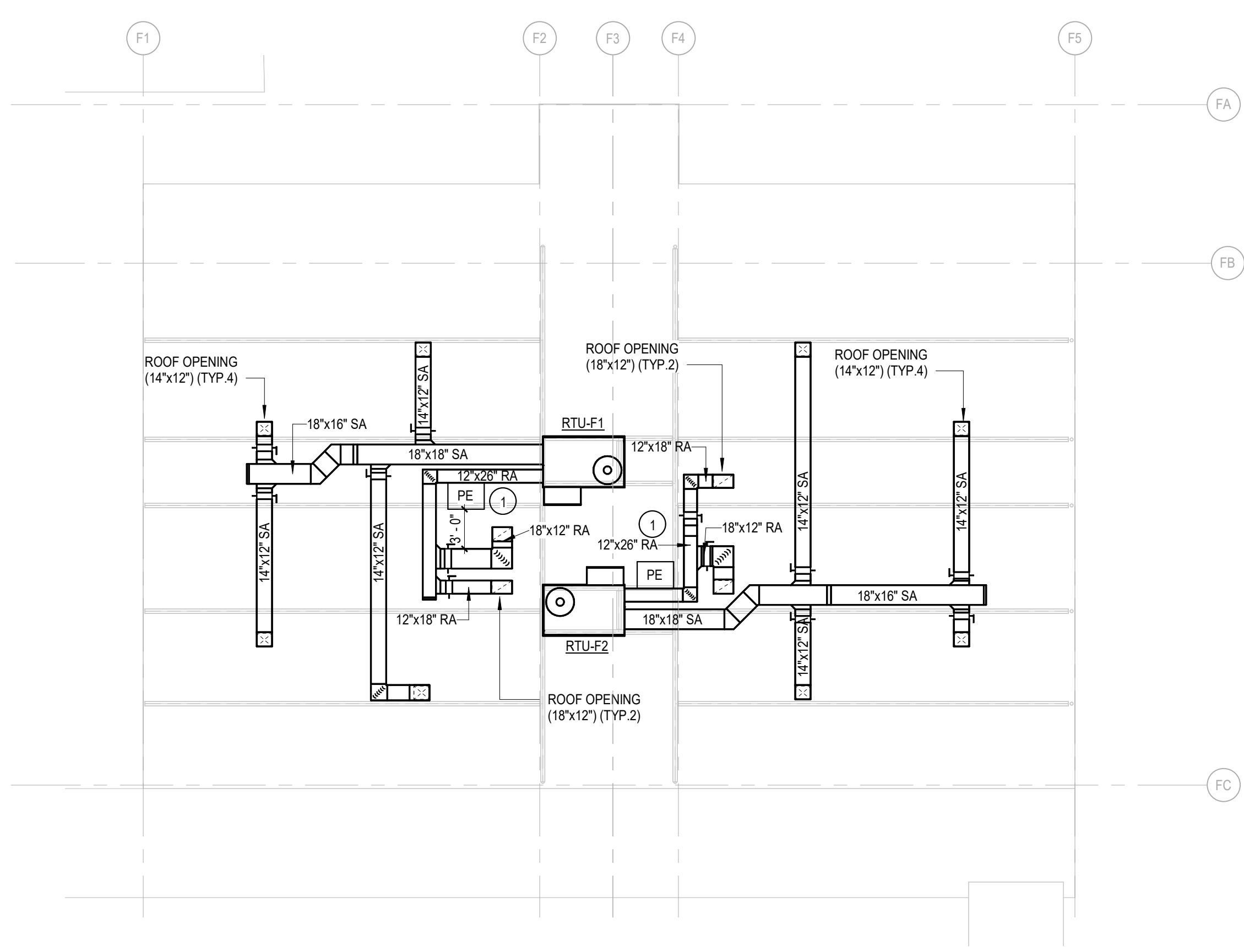
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BUILDING E MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING F MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

- GENERAL HVAC NOTES**
1. INSTALL NEW RTU ON BEAM WITH ISOLATORS.
 2. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
 3. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.
- KEY NOTES**
1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
 2. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.

DLR Group
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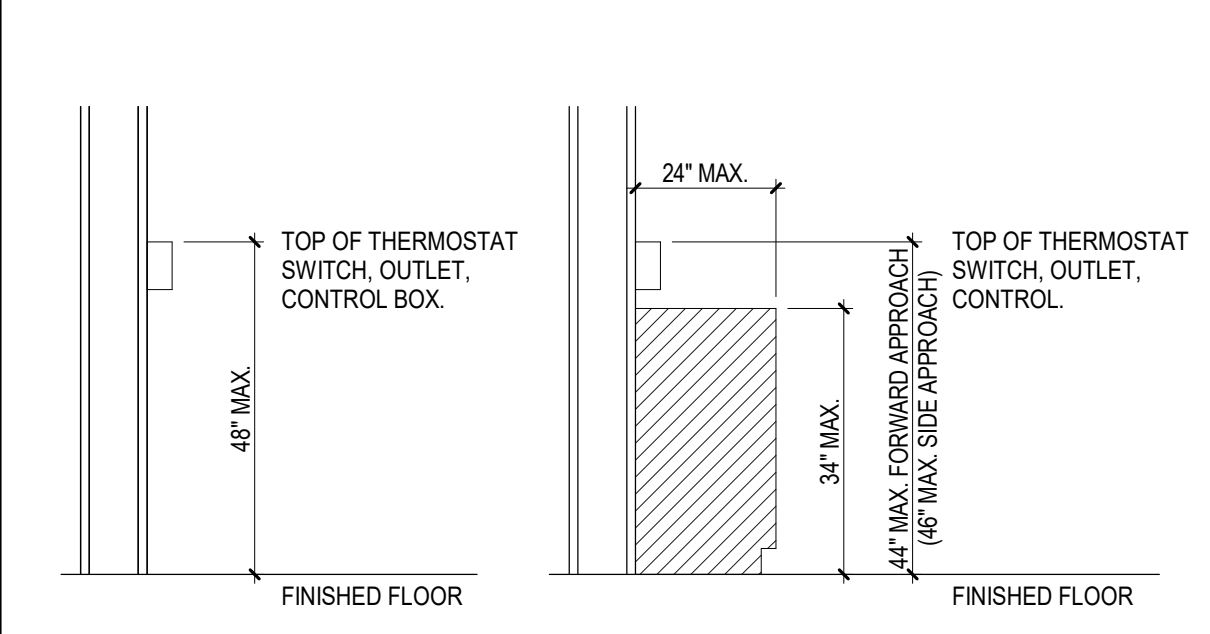
DSA Submitted Set
1/13/2023
REVISIONS

75-22605-00
BUILDING E & F
MECHANICAL
ROOF PLAN

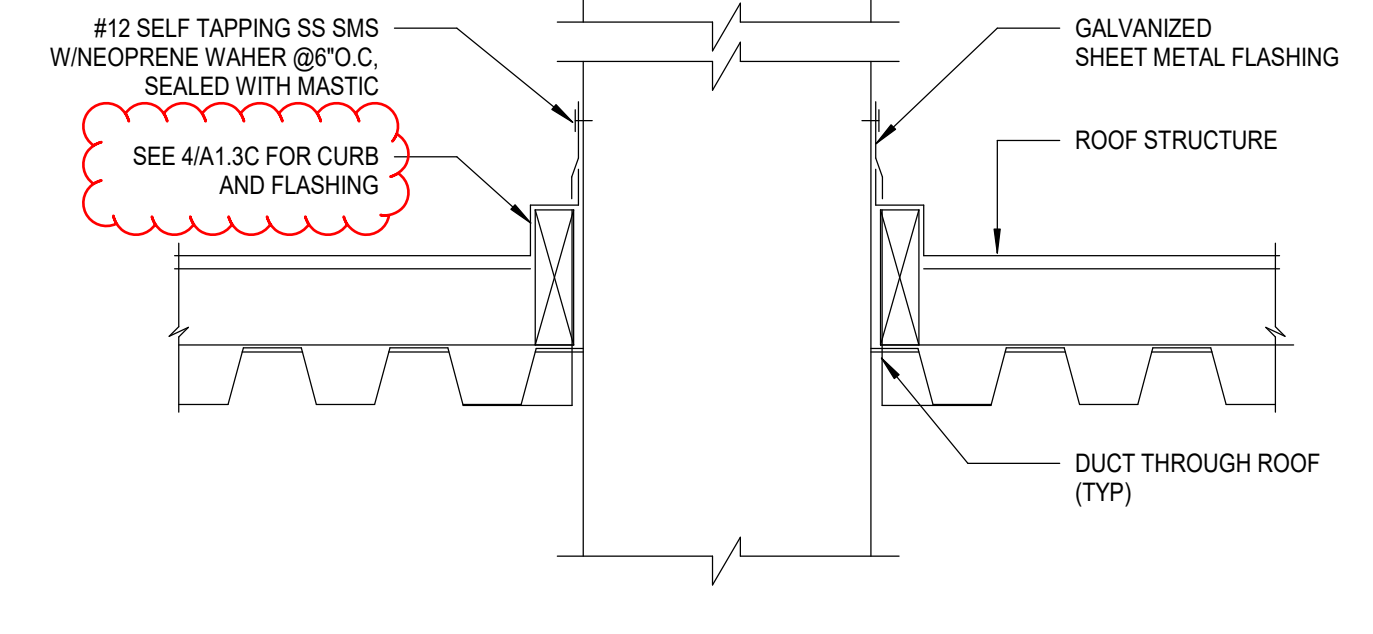
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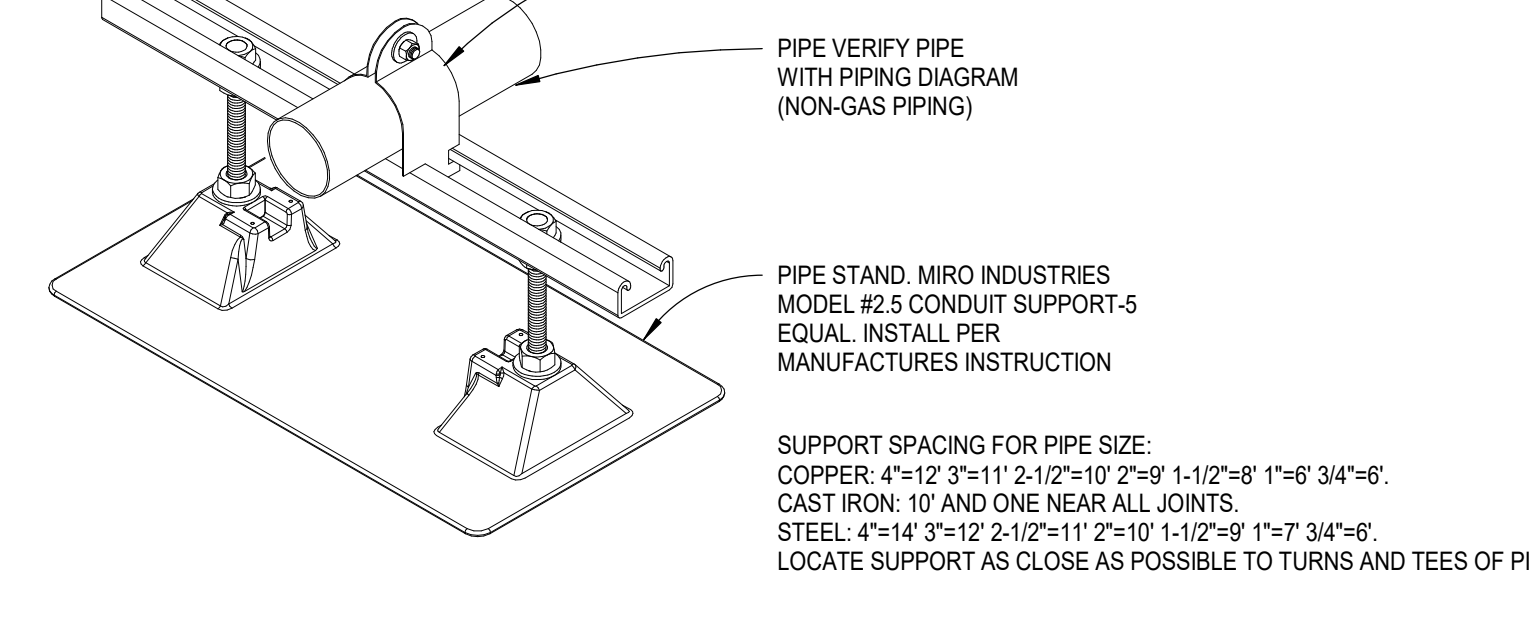
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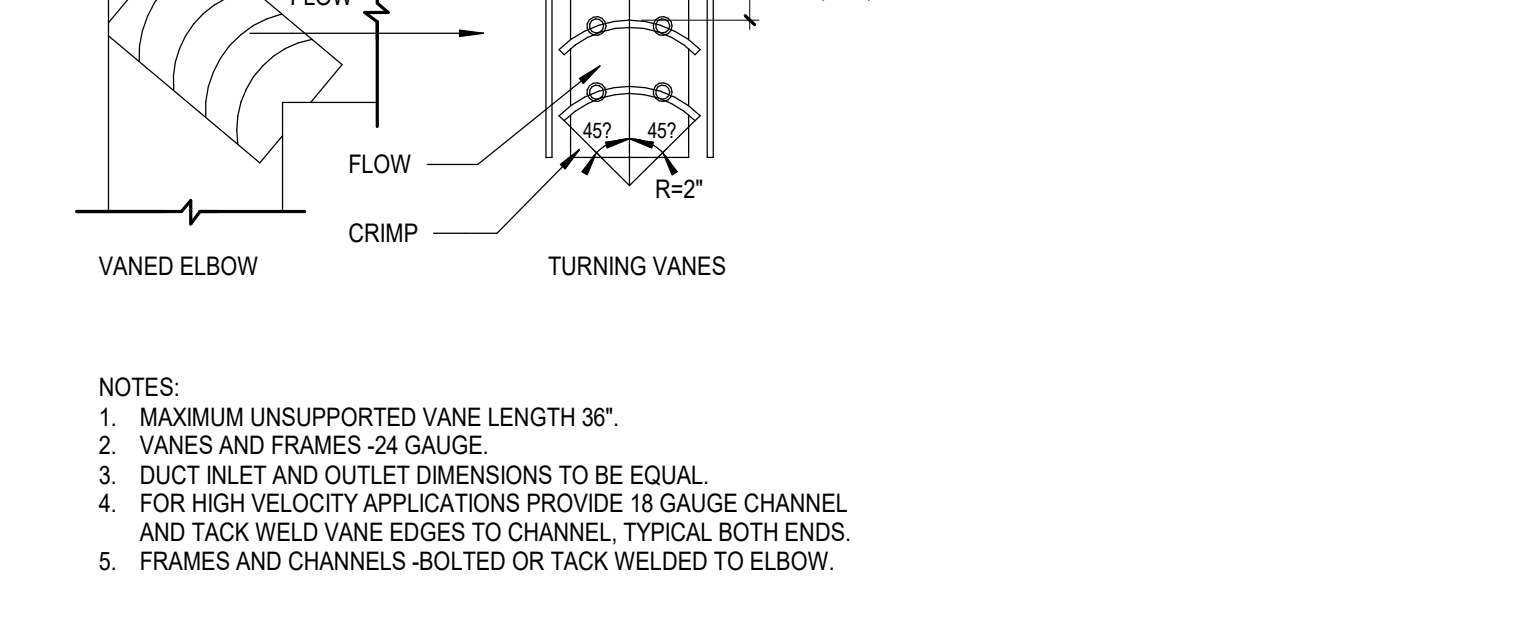
1 THERMOSTAT MOUNTING
M7.1 NO SCALE



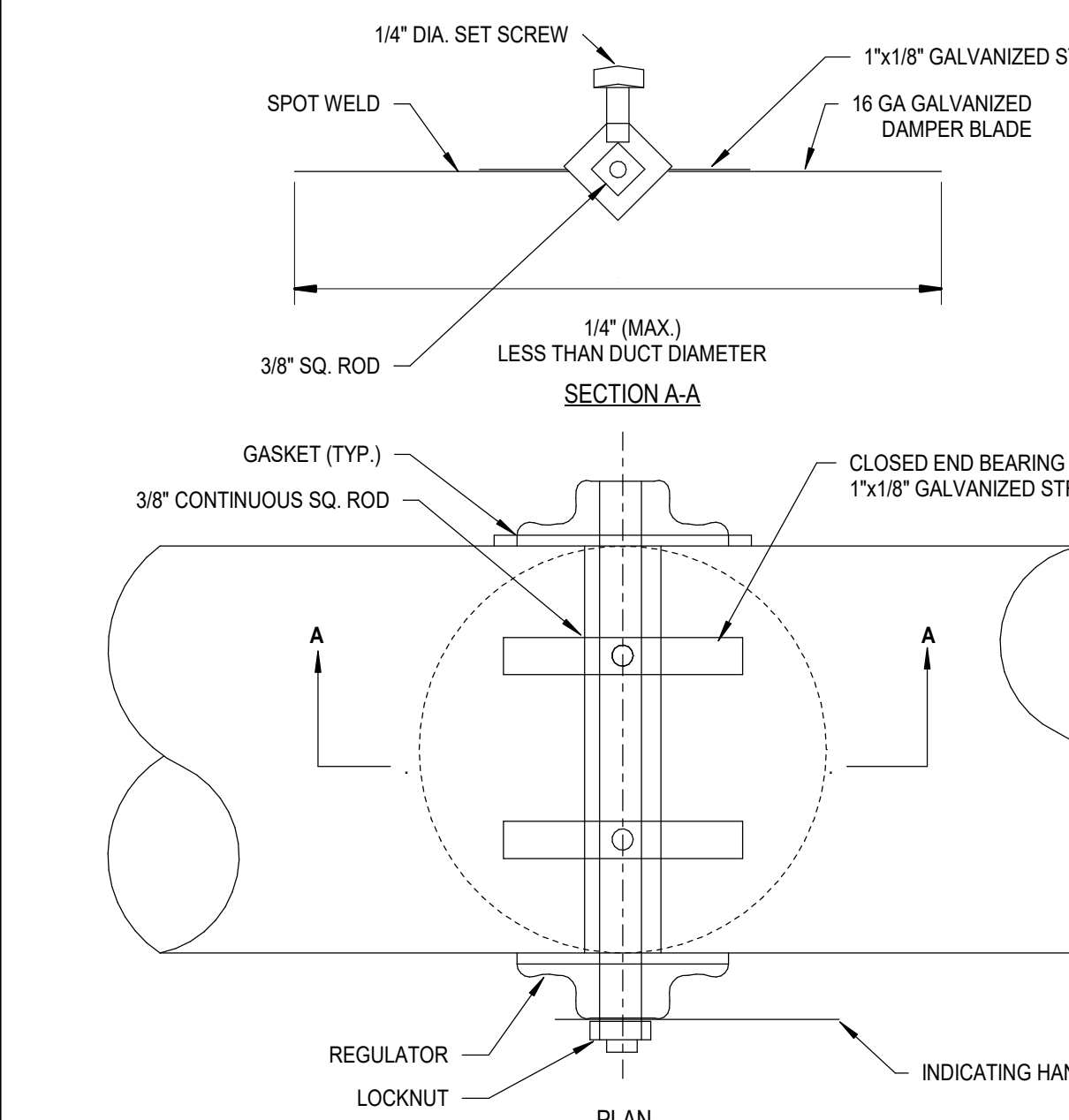
2 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE



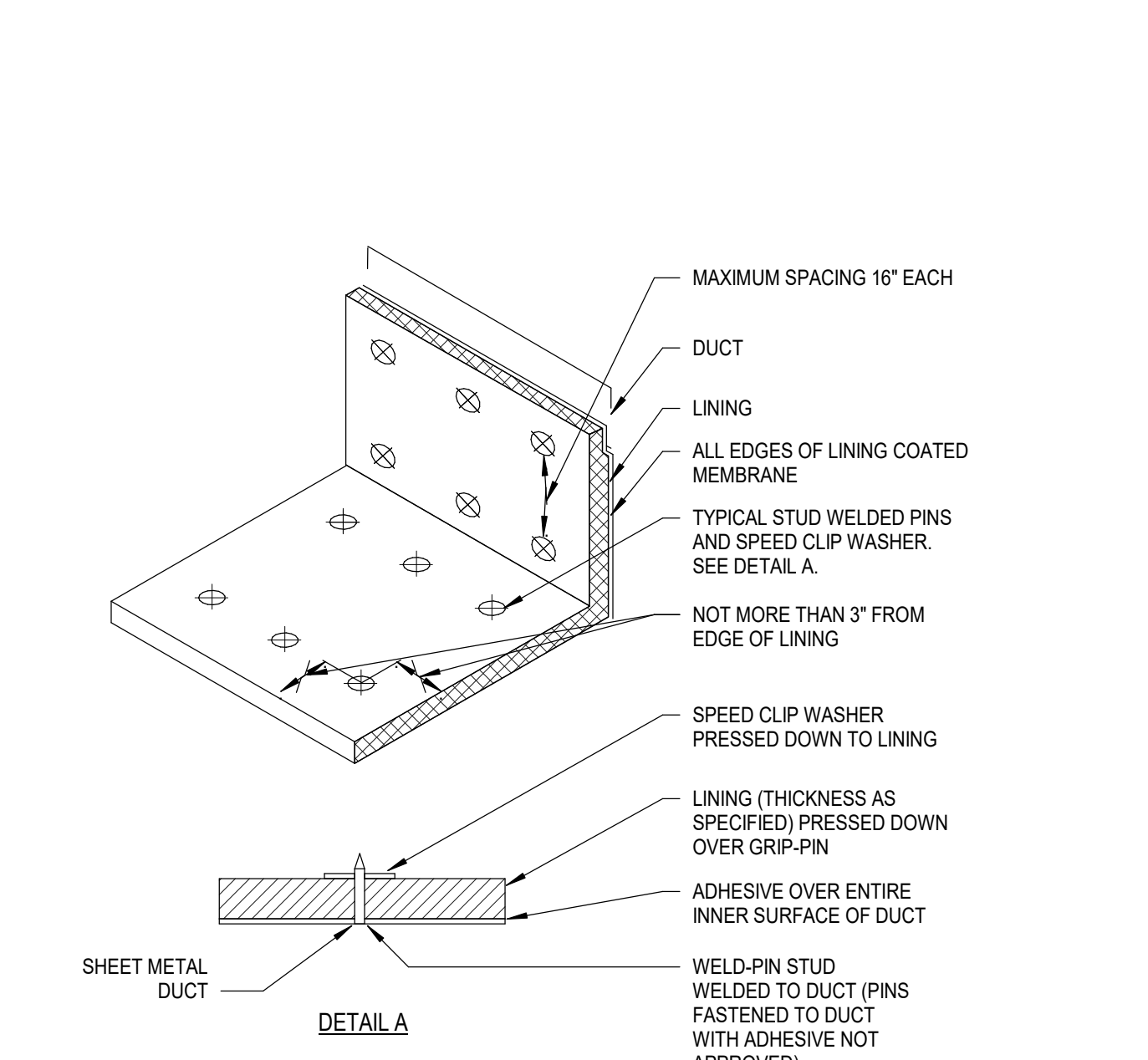
3 PIPE SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



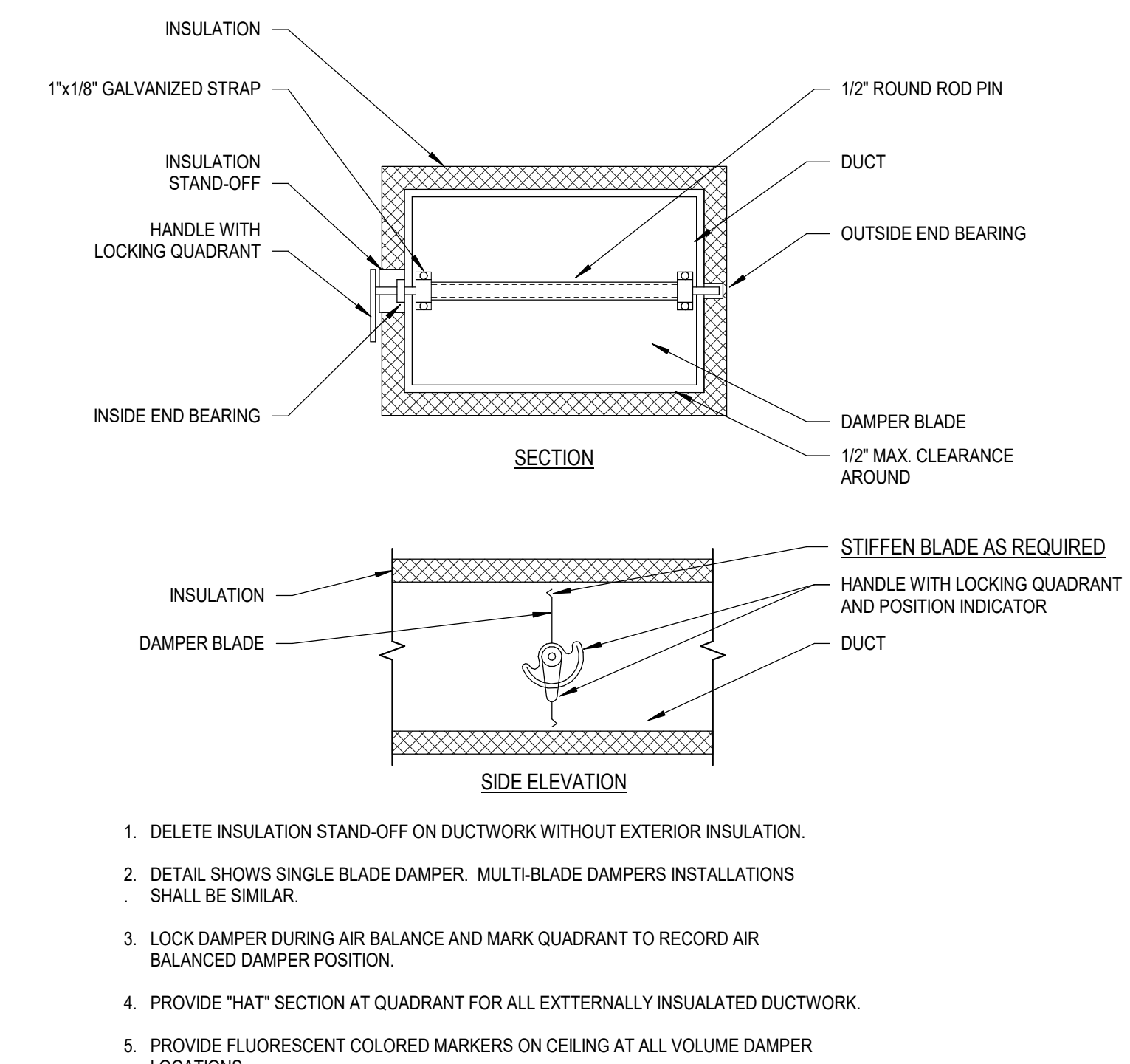
4 RECTANGULAR ELBOW W/ TURNING VANES DETAIL
M7.1 NO SCALE



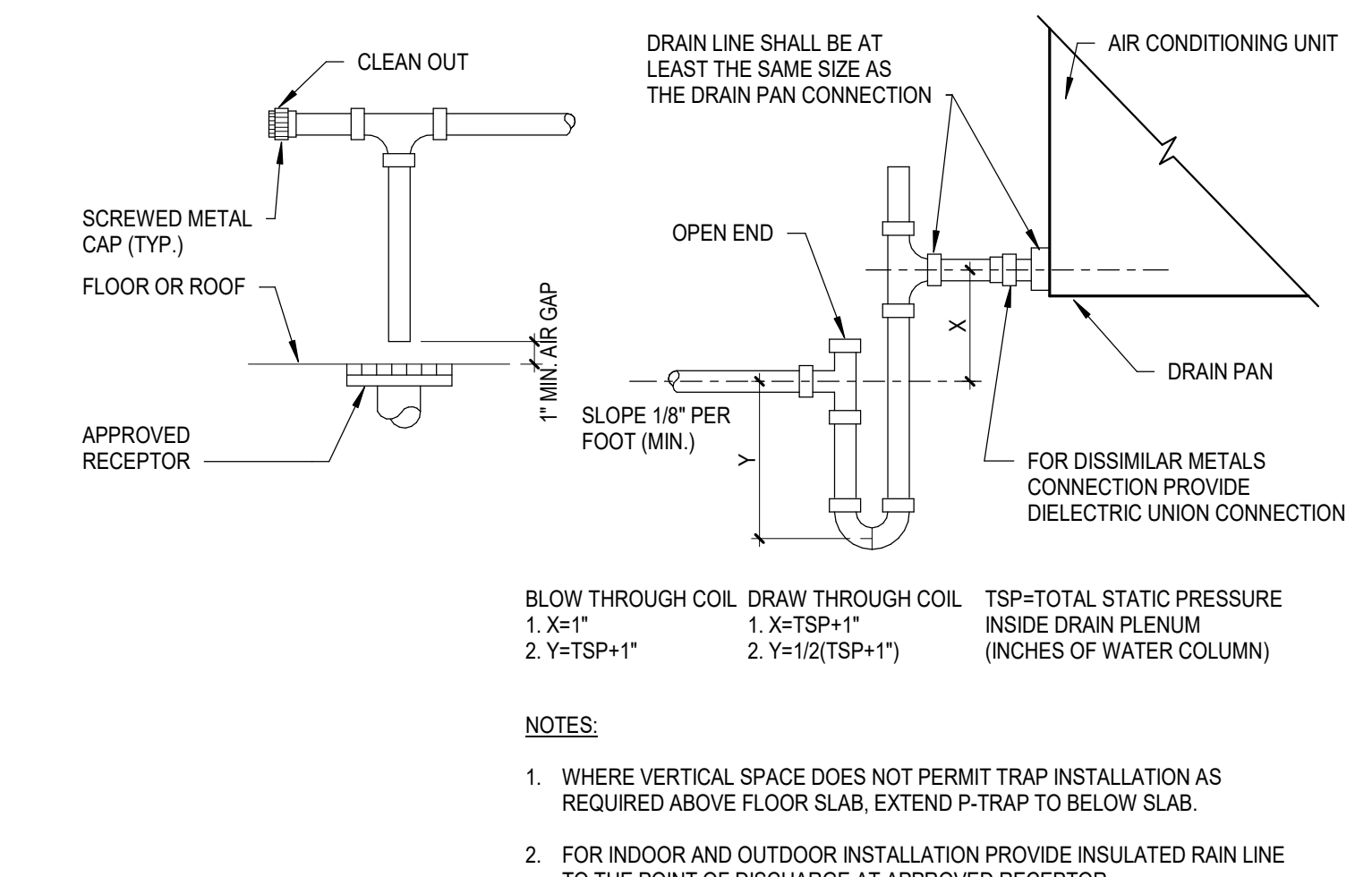
5 ROUND VOLUME DAMPER (UP TO 14")
M7.1 NO SCALE



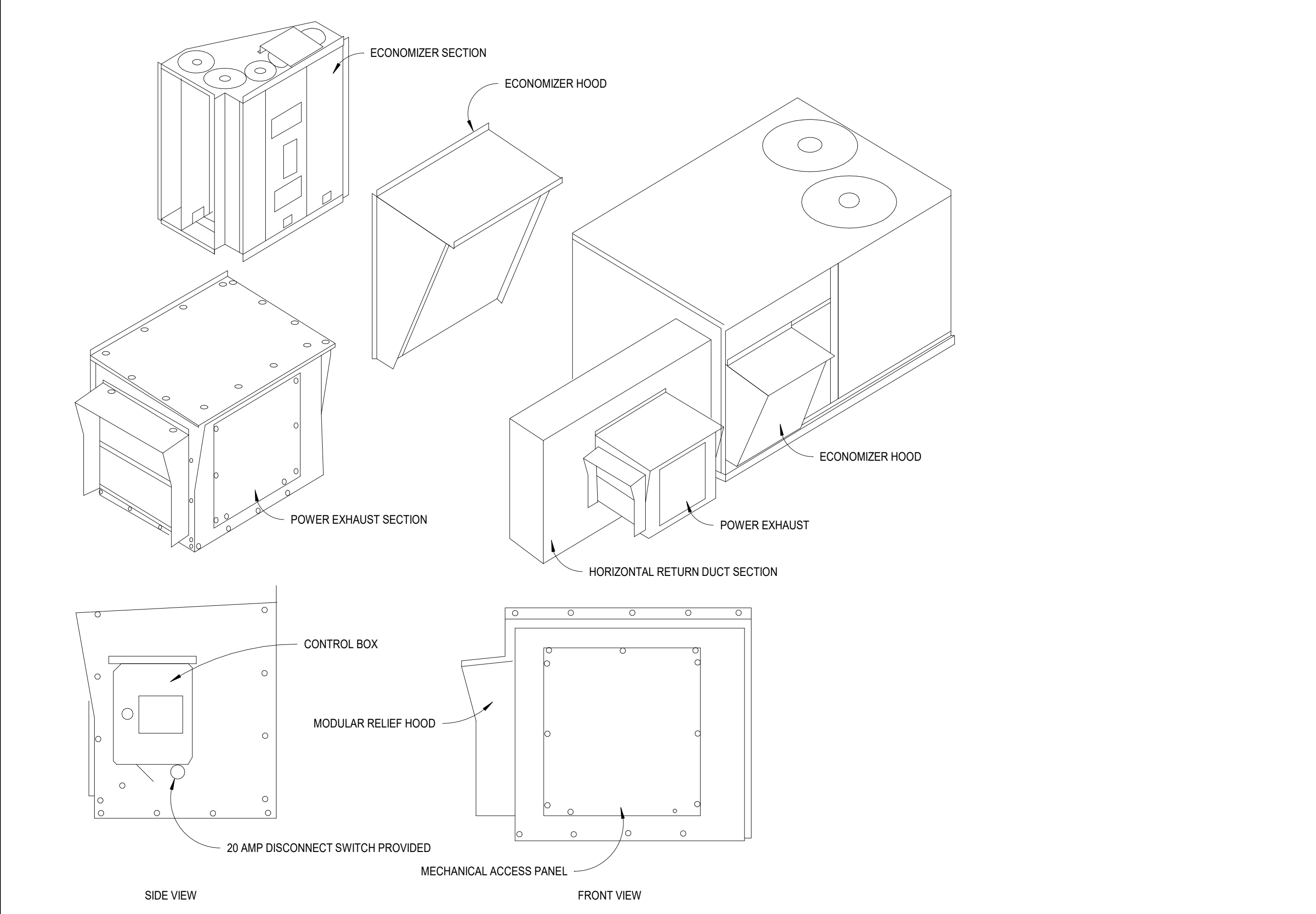
6 ACOUSTICAL DUCT LINING INSTALLATION DETAIL
M7.1 NO SCALE



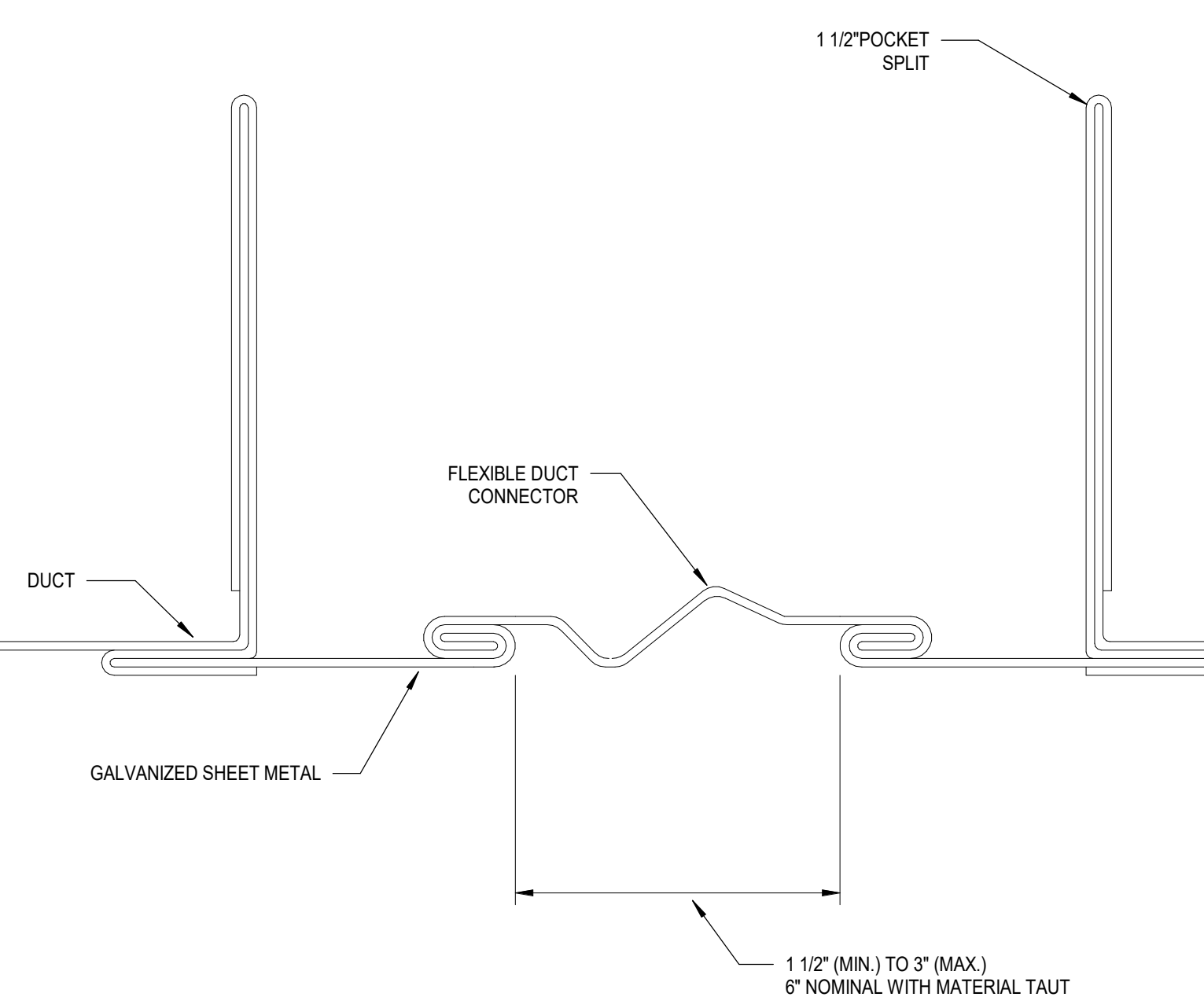
7 RECTANGULAR VOLUME DAMPER DETAIL
M7.1 NO SCALE



8 CONDENSATE DRAIN CONNECTION DETAIL
M7.1 NO SCALE



9 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE



10 FLEXIBLE DUCT CONNECTOR DETAIL
M7.1 NO SCALE

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MARK CU-B1	MAKE TOSHIBA	MODEL MMY-MAP1206	STEEL FRAME ASTM A36, L 3 X 2 X 1/4	DETAIL-1	DETAIL-3	MTG 1-4	SPRING OD 2.0"	DEFL. 1"
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NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 100 LBS.
- FOR ISOLATORS, SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE
9/16" DIA. HOLE (2) PLACES
USE 1/2" DIA. HILTI KB TZ2 ANCHORS IN 3000 PSI HR CONCRETE, MIN
3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE.
INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.
RMU-EQ-SH-1

DETAIL-2

VIEW A-A
VIEW B-B

DETAIL-3

VIEW A-A
VIEW B-B

M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - MANZANITA ES CUST.: CUST. P.O.: MECH. ENGR.: DLR MARK: CU-B1	REVISIONS: A: CALL OUT ALL ATTACHMENTS (9-12-22) B: SPECS ANGLE (9-20-22) C: D:	DRN: TDT DATE: 08-11-22 DRAWING NO.: -1B
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1 CU-B1
M7.3 NO SCALE

MARK FCU-B1	MAKE CARRIER	MODEL 40RUAQ-12	STEEL FRAME ASTM A36, L 3 X 3 X 1/4				
----------------	-----------------	--------------------	--	--	--	--	--

DETAIL-1

DETAIL-2

DETAIL-3

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE
9/16" DIA. HOLE (2) PLACES
USE 1/2" DIA. HILTI KB TZZ ANCHORS IN 3000 PSI HR CONCRETE, MIN 3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE. INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.
RMU-RQ-SH-1

ATTACHMENT OF UNIT TO STEEL BASE

NOTES:
 1. APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 100 LBS.
 2. --- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
 3. ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - MANZANITA ES CUST.: CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: CALL OUT ALL ATTACHMENTS (9-12-22) B: SPECS ANGLE (9-20-22) C: D:	DRN: TDT DATE: 8-11-22 DRAWING NO.: <div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">-2B</div>
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1 FCU-B1
NO SCALE

MARK	MAKE	TYPE	STEEL SIZE
RTU C1 to C8	CARRIER	50FCQA06	
RTU D1 to D8	CARRIER	50FCQA06	ASTM A36, L 3 X 2 X 1/4
RTU F1,F2	CARRIER	50FCQA06	

DETAIL-1

DETAIL-2

DETAIL-3

MTS	SPRING O.D.	DEFL
1-6	2"	1"

ATTACHMENT OF SPRING ISOLATORS TO ROOF STRUCTURE

CONNECTION DETAIL

ATTACHMENT OF UNIT TO STEEL BASE

TIE DOWN STRAP DETAIL

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.

RMU-BQ-SH-1

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 200 LBS.
- ISOLATORS, SEE DETAIL 3.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

<p>M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673</p> <p>Vibrex RMUAB</p>	<p>JOB NAME: COVINA USD – MANZANITA ES</p> <p>CUST.:</p> <p>CUST. P.O.:</p> <p>MECH. ENGR.: DLR</p> <p>MARK: RTU-C1-C8,D1-D8,F1,F2 (RTU 5 TON)</p>	<p>REVISIONS:</p> <p>A: ROOF CURB TO RMUAB (8-17-22)</p> <p>B: CALL OUT ALL ATTACHMENTS (9-2-22)</p> <p>C: SPECS ANGLE (9-20-22)</p> <p>D:</p>	<p>DRN: TDT</p> <p>DATE: 08-17-22</p> <p>DRAWING NO.:</p> <p style="text-align: center;">-3C</p>
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1 RTU CURB
M7.5 NO SCALE

MANZANITA E.S. AC UNIT REPLACEMENT

MANZANITA E.S. EXISTING UNIT												NEW UNIT																												
TAGS	MAKE	SPLIT SYSTEM MODEL	CAPACITY (TONS)	ELECTRICAL (SINGLE CIRCUIT)				WEIGHT (LBS)	POWER EXHAUST		OPERATING WEIGHT (LBS)	DIRECT REPLACEMENT? Y/N	CARRIER MODEL #	NET COOLING CAPACITY			AIRFLOW (CFM)		ESP (IN WG)	SEER	EER	HEATING CAPACITY (MBH)	NEW MERV RATING	FILTER QUANTITY & SIZE (W" X H" X D")	ELECTRICAL			WEIGHT (LBS)	OUTSIDE AIR HOOD WEIGHT (LBS)	ECONOMIZER			POWER EXHAUST			ROOF CURB WEIGHT (LBS)	TOTAL WEIGHT (LBS)	UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE	
				VIPH	MCA	FLA	MCCP		NOMINAL TON	TOTAL (BTUH)				SENSIBLE (BTUH)	SUPPLY	MIN OSA	VIPH	MCA							MCCP	REQUIRED?	WEIGHT			REQUIRED?	MODEL #	MCA	MCCP	WEIGHT						
RTU-C1 THRU RTU-C8 (BLDG. C)	CARRIER	38QRC060 40QAE060	5.0	208/1	42	33.2		272	NO	-	272	N	50FCQA06A2A3	5	58890	45950	2000	600	1	14.3	10.96	56.6	13	4 (16X16X2)	208/1	41	60	566	NA	YES	REFER TO PE WEIGHT	YES	PECD-SRT12CB	7.1	12.8	191	NA	777	75 X 47 X 42	1/M7.5
RTU-D1 THRU RTU-D8 (BLDG. D)	CARRIER	38QRC060 40QAE060	5.0	208/1	42	33.2		272	NO	-	272	N	50FCQA06A2A3	5	58890	45950	2000	600	1	14.3	10.96	56.6	13	4 (16X16X2)	208/1	41	60	566	NA	YES	REFER TO PE WEIGHT	YES	PECD-SRT12CB	7.1	12.8	191	NA	777	75 X 47 X 42	1/M7.5
RTU-F1 & RTU-F2 (BLDG. F)	CARRIER	38QRC060 40QAE060	5.0	208/1	42	33.2		272	NO	-	272	N	50FCQA06A2A3	5	58890	45950	2000	600	1	14.3	10.96	56.6	13	4 (16X16X2)	208/1	41	60	566	NA	YES	REFER TO PE WEIGHT	YES	PECD-SRT12CB	7.1	12.8	191	NA	777	75 X 47 X 42	1/M7.5
CU-B1 (BLDG. B)	CARRIER	38AKS014	10.0	208/3	69.6		100	800	NO	-	800	Y	MMY-MAP1206H19P-JL	10															NO	NA	NO	NA	NA	NA	NA	NA	684	48 X 31 X 73	1/M7.3	
FCU-B1 (BLDG. B)	CARRIER	40RM-012	10.0	208/3	12.8	10.2		650	NO	-	650	N	40RUQA12T3A5-0A0A0		120900	86,400	3960	1188	1.4			120.9	13						NO	NA	NO	NA	NA	NA	NA	NA	427	49 X 28 X 56	1/M7.4	

- NOTES:**
- PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.
 - ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
 - ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION. UNO. FIELD VERIFY PRIOR TO ORDERING.
 - PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
 - FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT AND ECONOMIZER SECTION, AS APPLICABLE.
 - SCOR RATING OF RTUs AND FCU-B1 SHALL BE MINIMUM OF 10KA AND CU-B1 SHALL BE 65KA.

DIFFUSER AND GRILLE SCHEDULE

MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES
CD-1	TITUS PAS	CEILING SUPPLY	24"x24"	6"Ø	0 - 110	25	0.1	1.2,3
				8"Ø	111 - 190	25	0.1	
				10"Ø	191 - 280	25	0.1	
				12"Ø	281 - 350	25	0.1	
				14"Ø	351 - 450	25	0.1	
				16"Ø	451 - 550	25	0.1	
RC-1	TITUS PAR	CEILING RETURN	24"x24"	6"Ø	0 - 100	20	0.1	1.2,3
				8"Ø	101 - 175	20	0.1	
				10"Ø	176 - 275	20	0.1	
				12"Ø	276 - 380	20	0.1	
				14"Ø	381 - 500	20	0.1	
				16"Ø	501 - 570	20	0.1	

- NOTES:**
- OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.
 - MATCH THE BORDER TYPE TO THE CEILING.

DUCT SIZING SCHEDULE * FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST**

CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	26" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

REMARKS:
 DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.
 VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

LOCATION	AIR VELOCITY GUIDELINES (FPM)					
	NOISE CRITERIA (NC)					
	40	35	30	25	20	15
MAIN SUPPLY DUCT	1700	1500	1000	800	700	600
MAIN RETURN DUCT	1200	1000	750	600	500	400
DUCT TO GRILLE SUPPLY	600	500	400	300	250	200
DUCT TO GRILLE RETURN	600	500	400	300	250	200

DUCT SIZING * MEDIUM PRESSURE DUCTWORK**

CFM	ROUND DUCT (IN)	RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)				
		WX4	WX6	WX8	WX10	WX12
UP TO 150	6	8	6	X	X	X
151-280	8	10	10	8	X	X
281-500	10	X	16	12	10	X
501-800	12	X	X	16	12	X
801-1200	14	X	X	22	16	14

REMARKS:
 DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.
 VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.



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 COVINA VALLEY USD
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MECHANICAL SCHEDULES

M8.1

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C

D

E

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SAN BERNADINO ROAD

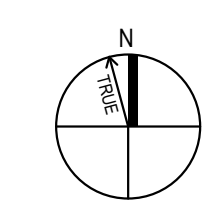
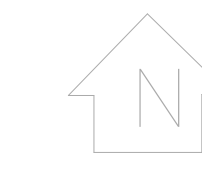
ORANGE AVENUE

LANG AVENUE

FRIJO AVENUE

CONLON AVENUE



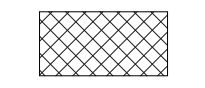
NORE AVENUE



MECHANICAL PLUMBING SITE PLAN

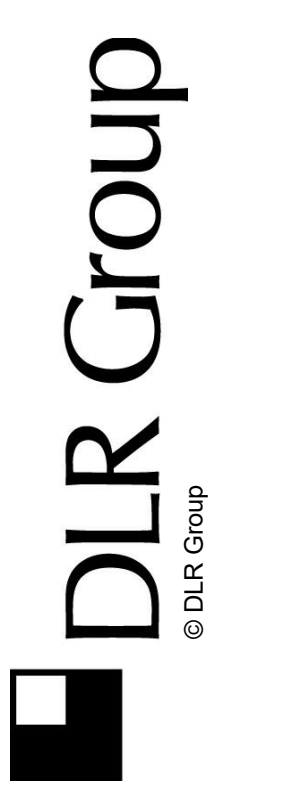
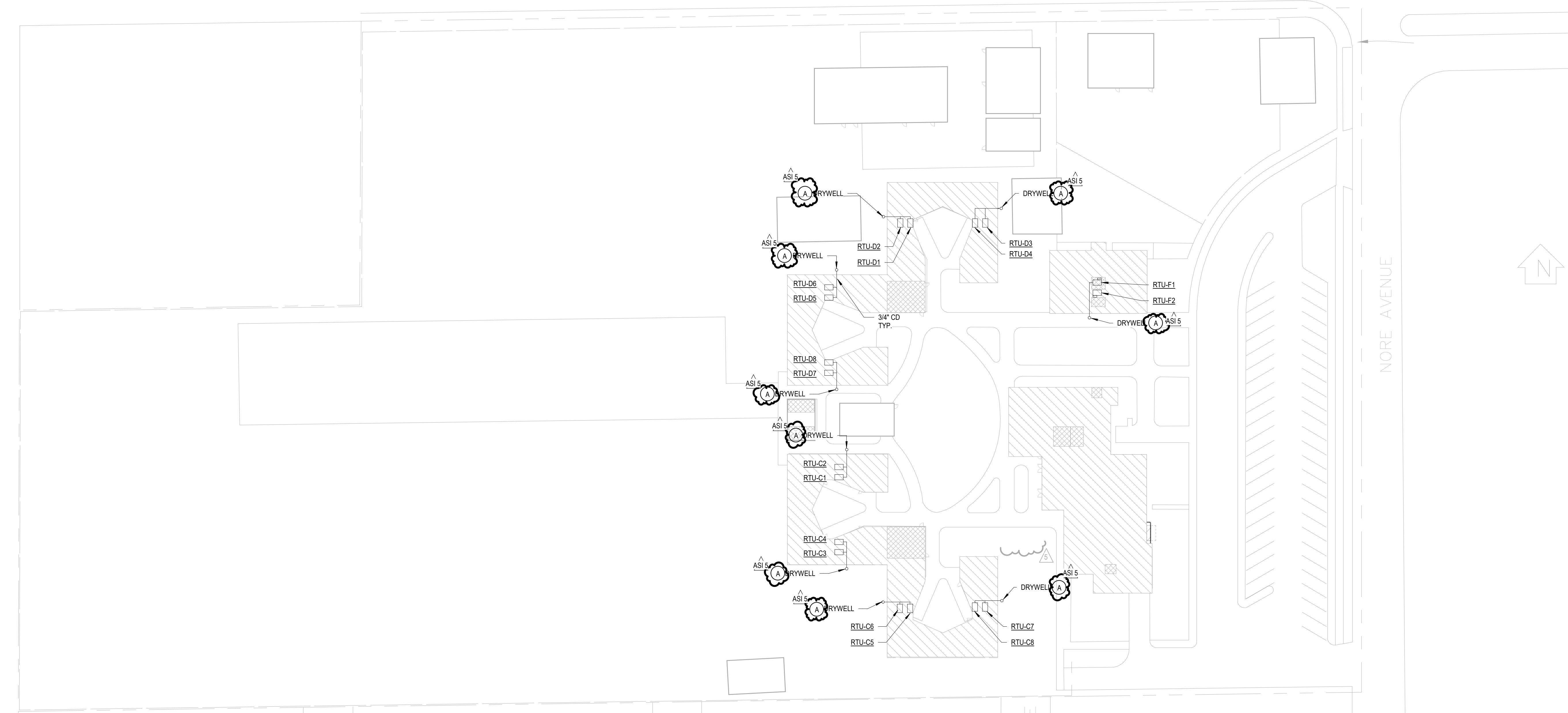
SCALE: 1" = 40'-0"

SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE

KEY NOTES

- AS1.5
- A. DRY WELL TYP. SEE 71M7.2



Manzanita Elementary School
 COVINA VALLEY USD
 4131 North Nora Avenue Covina, CA 91722

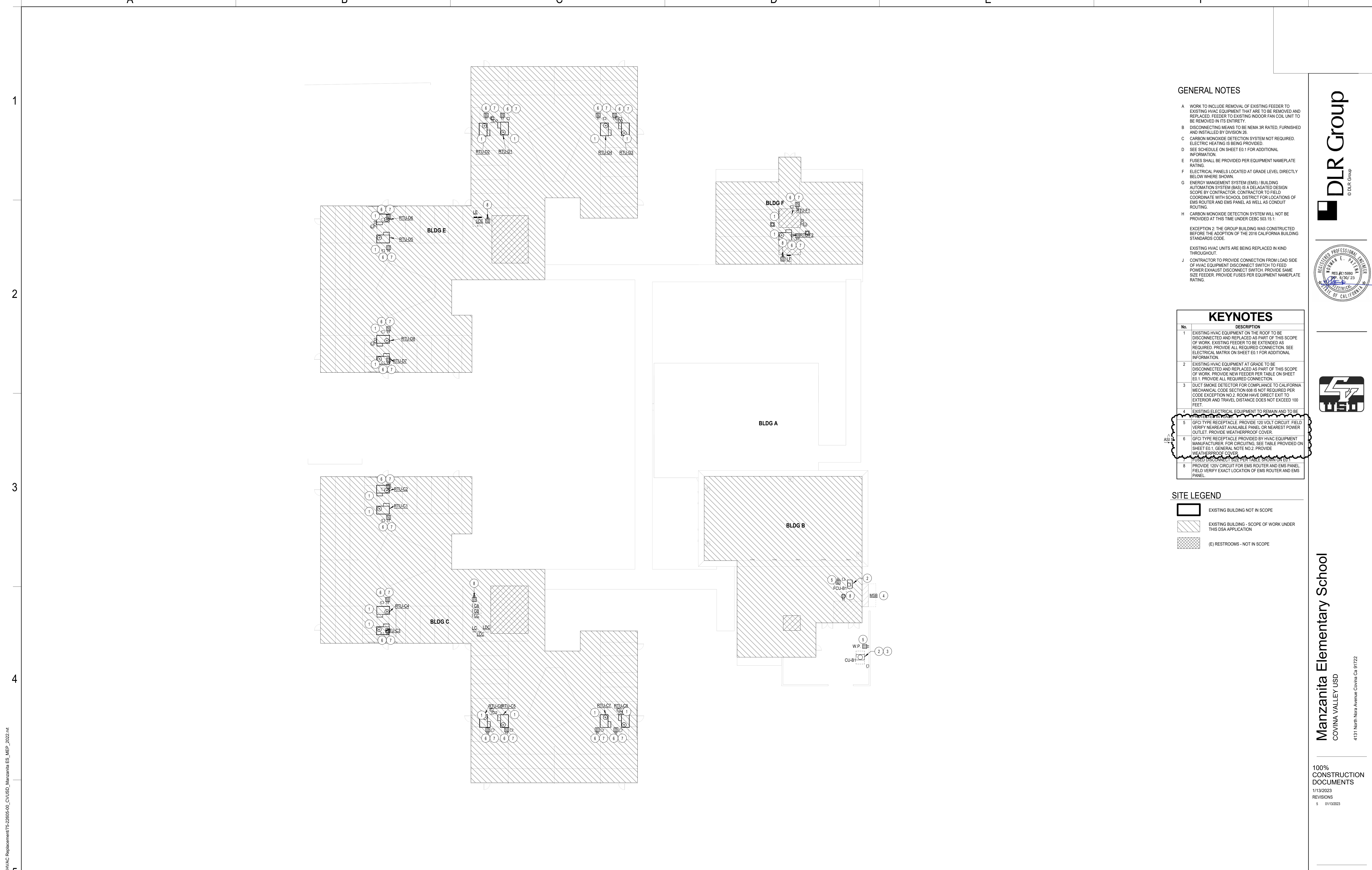
DSA Submitted Set
 1/13/2023
 REVISIONS
 AS1.5 01/13/2023

75-22605-00

MECHANICAL
 PLUMBING SITE
 PLAN

MP1.1

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Manzanita ES MEP_2023.rvt
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GENERAL NOTES

- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 28.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET E0.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELAGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CEBC 503.15.1:
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT ON THE ROOF TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. EXISTING FEEDER TO BE EXTENDED AS REQUIRED. PROVIDE ALL REQUIRED CONNECTION. SEE ELECTRICAL MATRIX ON SHEET ED.1 FOR ADDITIONAL INFORMATION.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ED.1. PROVIDE ALL REQUIRED CONNECTION.
3	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 909 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
4	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROVIDED BY OTHER TRADES.
5	GFCI TYPE RECEPTACLE PROVIDE 120 VOLT CIRCUIT. FIELD VERIFY NEAREST AVAILABLE PANEL OR NEAREST POWER OUTLET. PROVIDE WEATHERPROOF COVER.
6	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ED.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
8	PROVIDE 120V CIRCUIT FOR EMS ROUTER AND EMS PANEL. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND EMS PANEL.

SITE LEGEND

- EXISTING BUILDING NOT IN SCOPE
- EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
- (E) RESTROOMS - NOT IN SCOPE

OVERALL ELECTRICAL POWER PLAN
SCALE: 1/16" = 1'-0"



Manzanita Elementary School
COVINA VALLEY USD
4131 North Nera Avenue Covina CA 91722

100%
CONSTRUCTION
DOCUMENTS
1/13/2023
REVISIONS
5 01/13/2023

75-22605-00
**ROOF
ELECTRICAL
PLAN**

E2.1

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Manzanita ES_MEP_2023.rvt
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MERWIN ELEMENTARY SCHOOL

16125 CYPRESS STREET. COVINA, CA 91722

COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION #

A# 03-122235

SHEET INDEX

GENERAL		ELECTRICAL	
G0.1	COVER SHEET	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
G1.1	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	EZ.1	BUILDING ELECTRICAL ROOF PLAN
ARCHITECTURAL		TOTAL: 38 SHEETS	
A1.1	ARCHITECTURAL SITE PLAN		
A1.2B	BUILDING B ROOF PLAN		
A1.2C	BUILDING C ROOF PLAN		
A1.2E	BUILDING E ROOF PLAN		
A3.1C	BUILDING C REFLECTED CEILING PLAN		
A3.1E	BUILDING E REFLECTED CEILING PLAN		
STRUCTURAL			
S0.1	GENERAL STRUCTURAL NOTES		
S0.2	GENERAL STRUCTURAL NOTES & SPECIAL INSPECTIONS		
S1.0	ISOMETRIC VIEW		
S1.1	ROOF FRAMING PLAN - UNIT A&B		
S1.2	ROOF FRAMING PLAN - UNIT C		
S1.3	ROOF FRAMING PLAN - UNIT D&E		
S1.4	ROOF FRAMING DETAILS		
S1.5	ROOF FRAMING DETAILS		
MECHANICAL			
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES		
M0.2	TITLE 24 COMPLIANCE		
M0.3	TITLE 24 COMPLIANCE		
M0.4	TITLE 24 COMPLIANCE		
M0.5	TITLE 24 COMPLIANCE		
M0.6	TITLE 24 COMPLIANCE		
M1.1	OVERALL MECHANICAL SITE PLAN		
M1.1C	BUILDING C - MECHANICAL FLOOR PLAN		
M1.1E	BUILDING E - MECHANICAL FLOOR PLAN		
M2.1B	BUILDING B - MECHANICAL ROOF PLAN		
M2.1C	BUILDING C - MECHANICAL ROOF PLAN		
M2.1E	BUILDING E - MECHANICAL ROOF PLAN		
M5.1	CONTROLS DIAGRAMS		
M5.2	CONTROLS DIAGRAMS		
M7.1	MECHANICAL DETAILS		
M7.2	MECHANICAL DETAILS		
M7.3	MECHANICAL DETAILS		
M7.4	MECHANICAL DETAILS		
M8.1	MECHANICAL SCHEDULES		
MP1.1	MECHANICAL PLUMBING SITE PLAN		

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122235 File No. 19-25)
HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(d))

I FIND THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES) THIS DRAWING OR PAGE

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
 HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE	DATE	SIGNATURE	DATE
JESSE MILLER	05/05/2022		
PRINT NAME		PRINT NAME	
C-32306	10/31/2023		
LICENSE NUMBER	EXPIRATION DATE	LICENSE NUMBER	EXPIRATION DATE

DESIGN ANALYSIS DATA

- WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS
 - RISK CATEGORY: II
 - WIND DESIGN SPEED: V=115 MPH
 - WIND EXPOSURE CATEGORY: C (PER ASCE 7-16)
- EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5)
 - SEISMIC DESIGN CATEGORY: D
 - SITE CLASS: D
 - S_s = 1.653
 - S₁ = 0.909
 - S_{m1} = 1.984
 - S_{m2} = 1.039
 - S_{m3} = 1.322
 - S_{m4} = 0.990
 - I_p (IMPORTANCE FACTOR) = 1.25
 - F_p (CONTROLLING HOR. SEISMIC FORCE) = 1.130db
 - F_v (CONTROLLING HOR. SEISMIC FORCE) = 420db
- DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6)
 - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF
 - ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF MIN.

SCOPE OF WORK

SCOPE OF WORK SHALL BE AS FOLLOWS:

REMOVAL OF EXISTING SPLIT SYSTEM UNITS INCLUDING GROUND MOUNTED CONDENSING UNITS AND ALL ASSOCIATED CONDUITS, PIPING, SUPPORTS, ETC. REPLACEMENT WITH NEW ROOF MOUNTED HVAC UNITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED.

IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MFR UNIT WITH NEW HVAC SYSTEM.
REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- 2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
- 2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
- 2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2018 ASME A17.1 USA 844-3 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)
- NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADDITION
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

- NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 14 - STANDARD FOR INSTALLATION OF SAND PIPE AND ROSE SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2016 ADDITION
- NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 ADDITION
- NFPA 20 - STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2017 ADDITION
- NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 ADDITION
- NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 ADDITION
- NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ADDITION
- NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE 2016 ADDITION
- NFPA 2001 - STANDARDS FOR FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2002 (R2010)
- UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
- UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 ADDITION
- UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 ADDITION
- UL 1571 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010)
- ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 ADDITION

DSA GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338(d), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), NOT WITHSTANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS. COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL ENGINEER, AND FIRE/IFE/SAFETY) SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND SECTION 4-338(f), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK.
- THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, STRUCTURAL ENGINEER OF RECORD, AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER.
- ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- A DSA-ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK, (SECTION 4-317(c), PART 1, TITLE 24, CCR).
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AND BEFORE PROJECT COMPLETION AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNERS AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE-TEST](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-testing-technician-certification-provider-program/acceptance-test)
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

VICINITY MAP



PROJECT DIRECTORY

OWNER
COVINA VALLEY UNIFIED SCHOOL DISTRICT
519 E. BACILLO ST.
COVINA, CA 91723
CONTACT: BRIAN JOHNSON
PH: 626.974.7000
BJOHNSON@C-VUSD.ORG

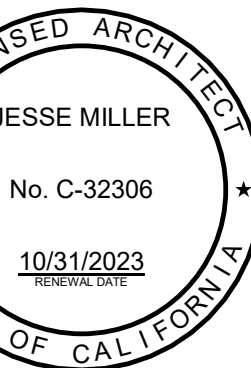
STRUCTURAL ENGINEER
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700 FLOWER ST 22ND FLOOR
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CONTACT: DANNY AHKIAM
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DAHKIAM@DLRGROUP.COM

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ARCHITECT
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JMILLER@DLRGROUP.COM

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MERWIN ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
16125 CYPRESS STREET, COVINA, CA 91722

100%
CONSTRUCTION
DOCUMENTS

05/05/2022
REVISIONS
5 1/15/2023

75-22605-00
DSA A#03-122235
DSA File #: 19-25
COVER SHEET

G0.1

A

B

C

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E

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REFERENCE KEYNOTES

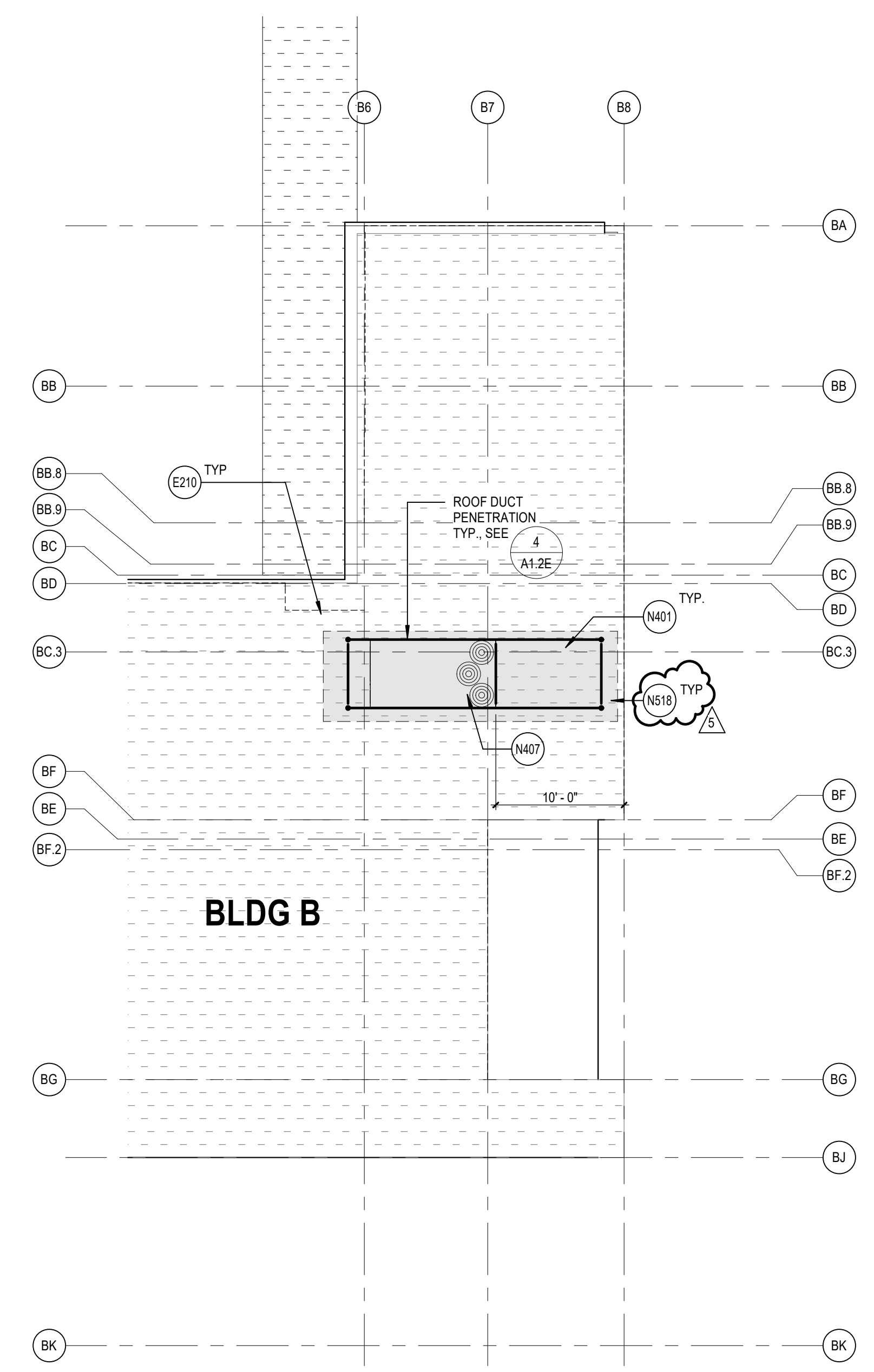
- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
- N401 NEW STRUCTURAL POST AND BEAM SUPPORT FRAMING, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
- N407 (N) MECHANICAL UNITS ATTACHED TO STRUCTURAL SUPPORTS, SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR (N) ROOF DUCT PENETRATION LOCATION
- N518 (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

- (N) ROOF CURBS U.O. SEE MECHANICAL DRAWINGS SHEET M7.3, M7.4 AND M7.5 FOR ADDITIONAL INFORMATION
- COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERMITTED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWN CUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



BUILDING B ROOF PLAN

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



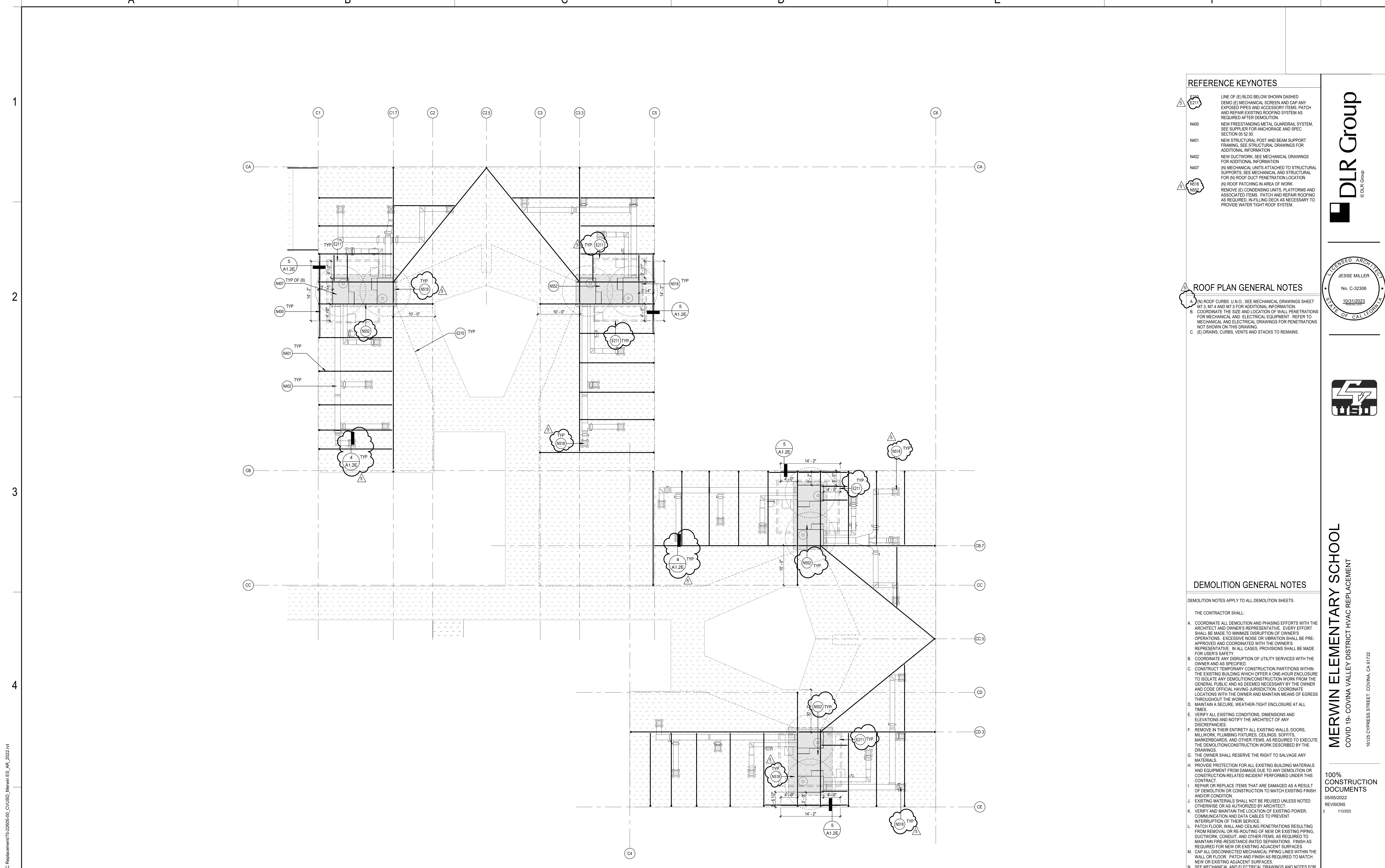
MERWIN ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
18125 CYPRESS STREET, COVINA, CA 91722

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CONSTRUCTION
DOCUMENTS
05/05/2022
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DSA A#03-122235
DSA File #: 19-25
BUILDING B ROOF
PLAN

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BUILDING C ROOF PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

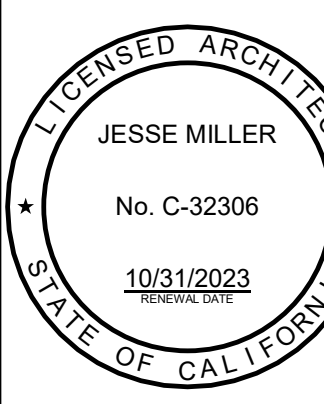
- E211 LINE OF (E) BLDG BELOW SHOWN DASHED DEMO (E) MECHANICAL SCREEN AND CAP ANY EXPOSED PIPES AND ACCESSORY ITEMS. PATCH AND REPAIR EXISTING ROOFING SYSTEM AS REQUIRED AFTER DEMOLITION.
- N400 NEW FREESTANDING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00.
- N401 NEW STRUCTURAL POST AND BEAM SUPPORT FRAMING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- N402 NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- N407 (N) MECHANICAL UNITS ATTACHED TO STRUCTURAL SUPPORTS. SEE MECHANICAL AND STRUCTURAL FOR (N) ROOF DUCT PENETRATION LOCATION.
- N518 (N) ROOF PATCHING IN AREA OF WORK REMOVE (E) CONDENSING UNITS, PLATFORMS AND ASSOCIATED ITEMS. PATCH AND REPAIR ROOFING AS REQUIRED. IN-FILLING DECK AS NECESSARY TO PROVIDE WATER TIGHT ROOF SYSTEM.

ROOF PLAN GENERAL NOTES

- A. (N) ROOF CURBS U.O. SEE MECHANICAL DRAWINGS SHEET M7.3, M7.4 AND M7.5 FOR ADDITIONAL INFORMATION.
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SMOOTHING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



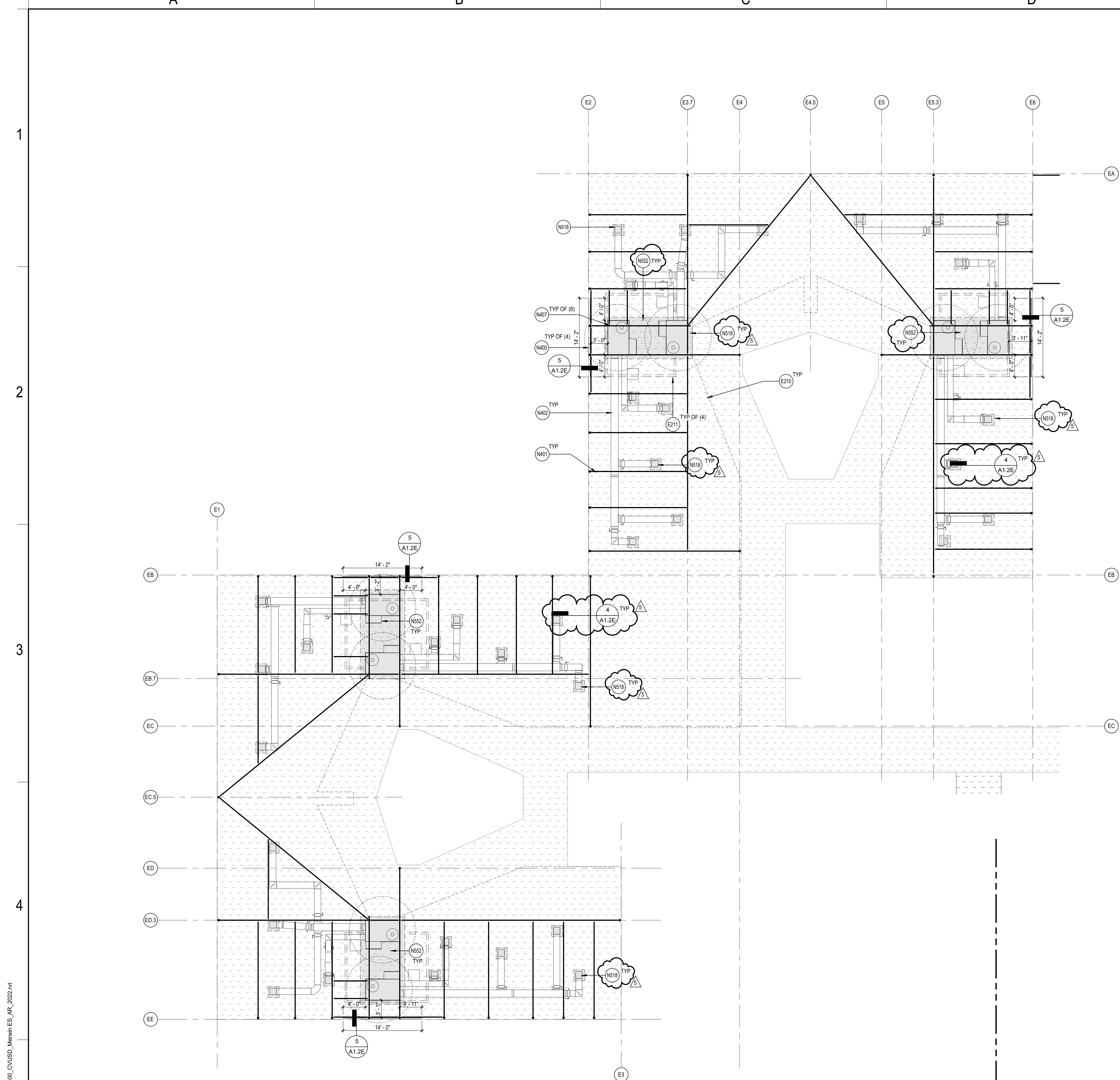
MERWIN ELEMENTARY SCHOOL
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BUILDING C ROOF PLAN

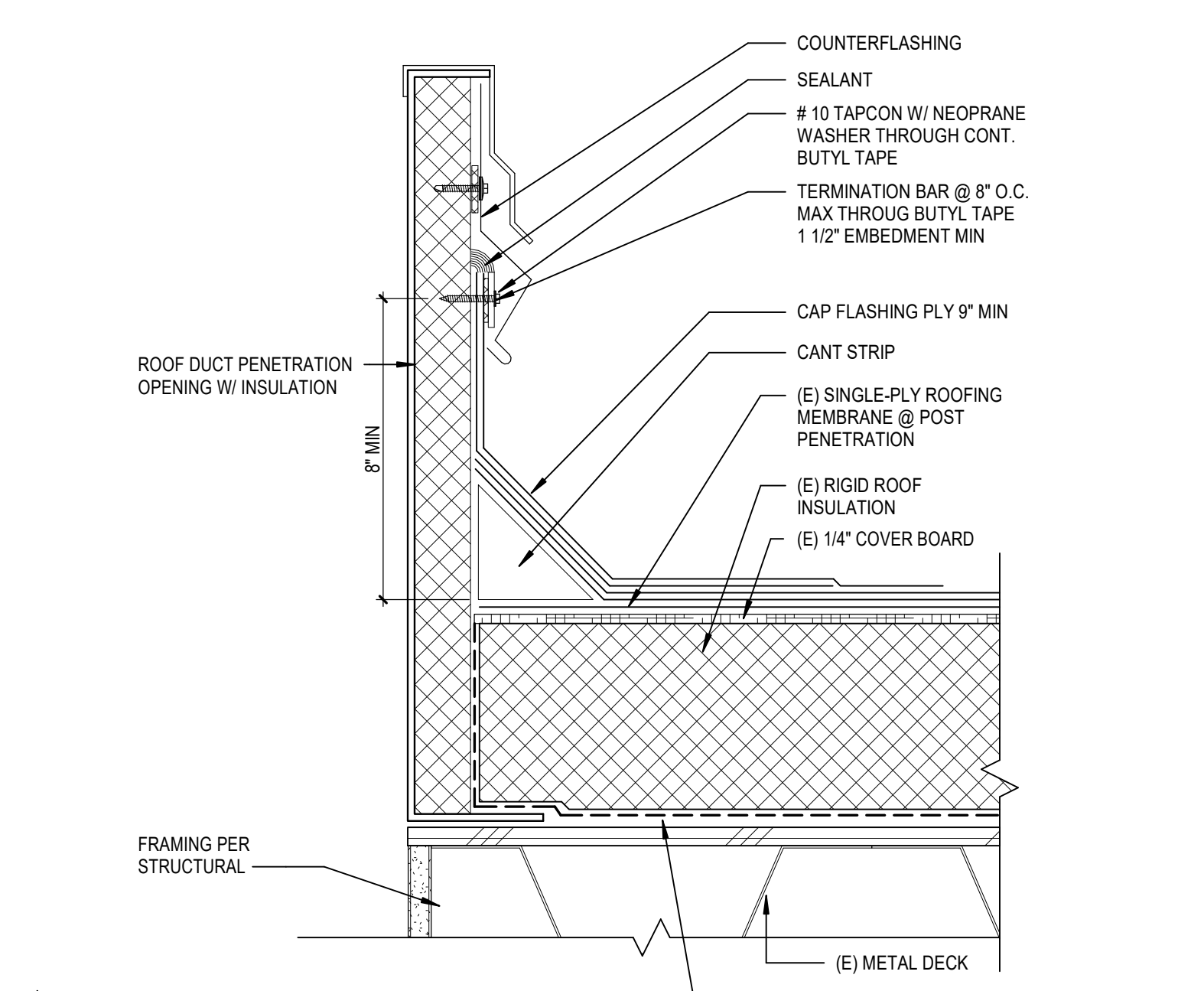
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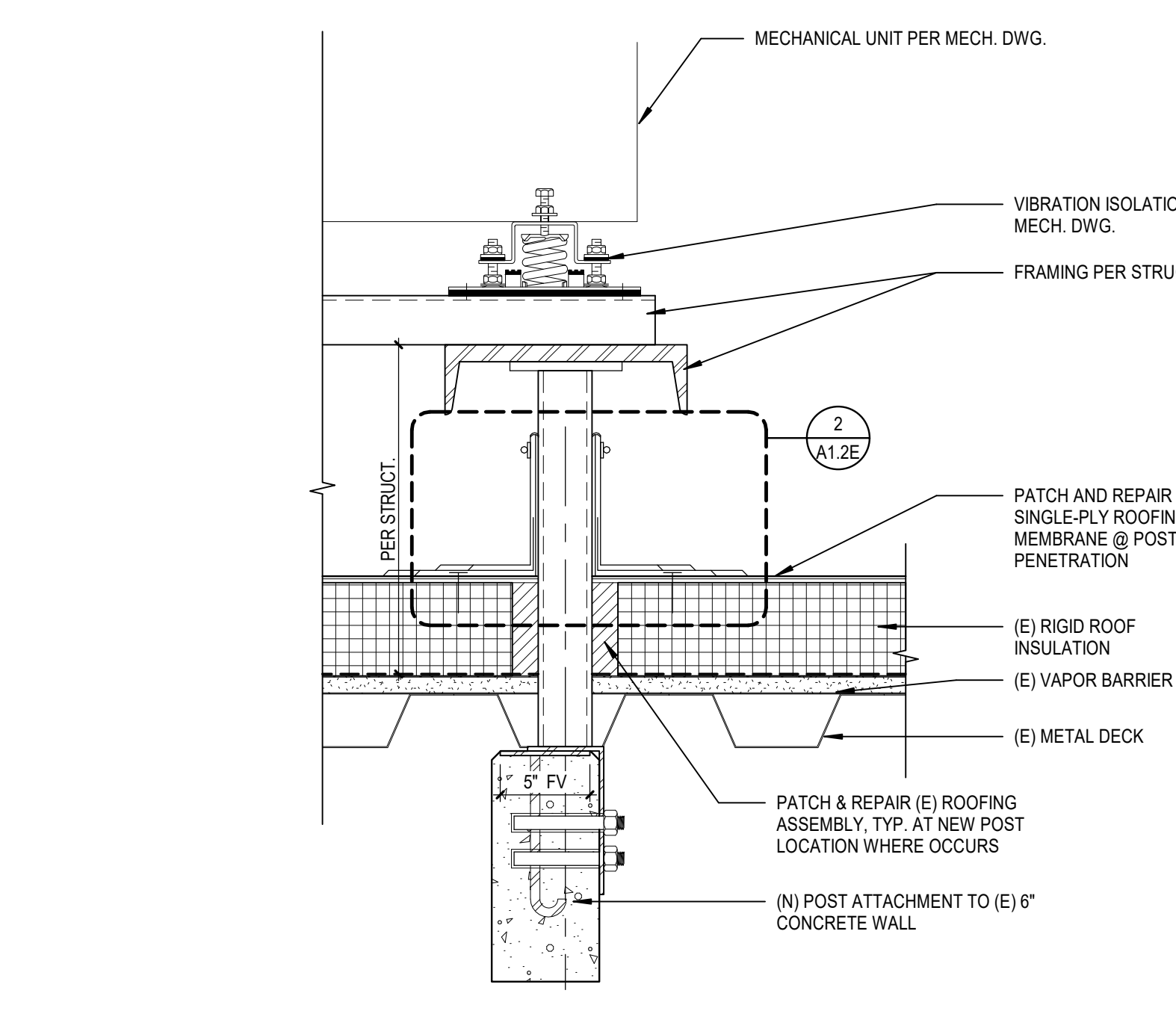


BUILDING E ROOF PLAN
SCALE: 1/8" = 1'-0"

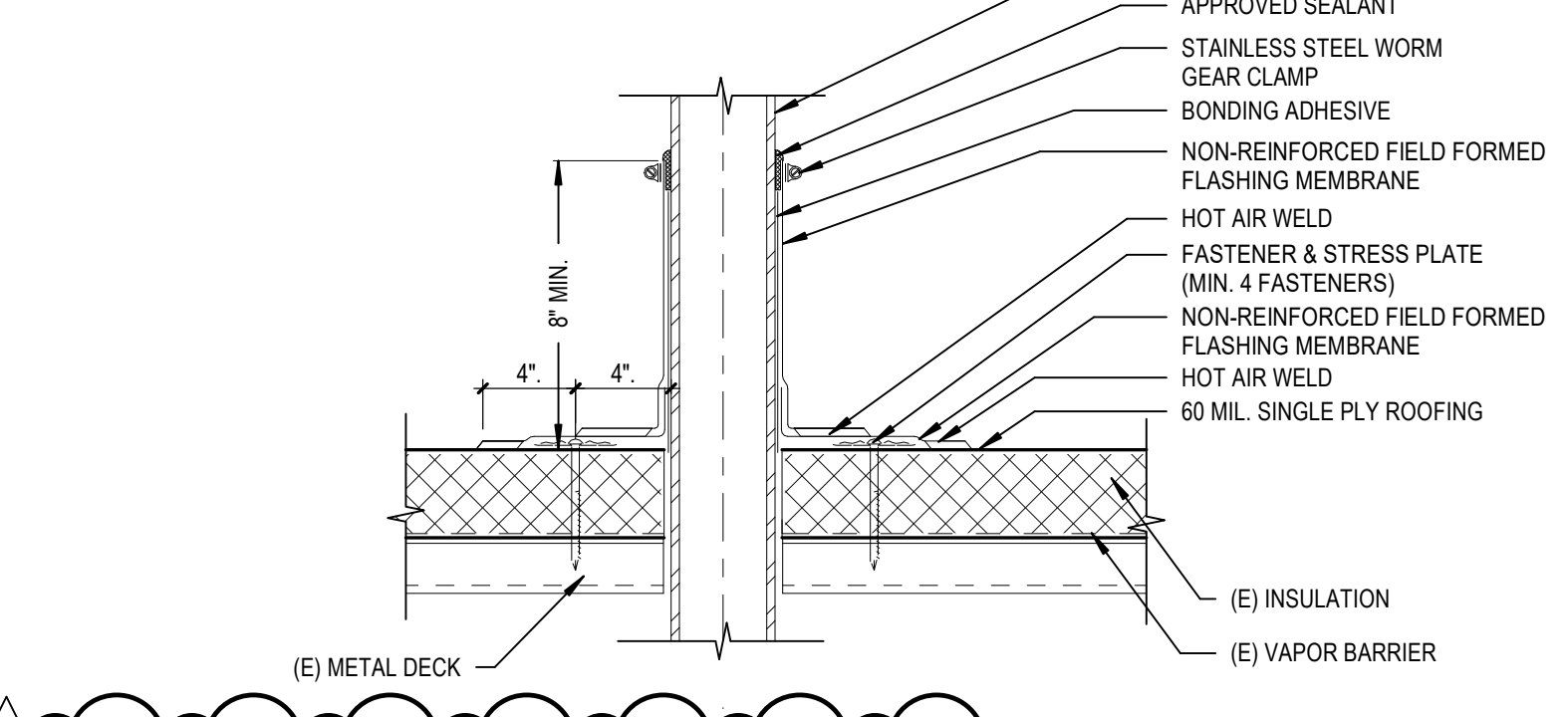
5 HVAC ROOF GUARDRAIL - STL. FRAMING
A1.2E SCALE: 1/2" = 1'-0"



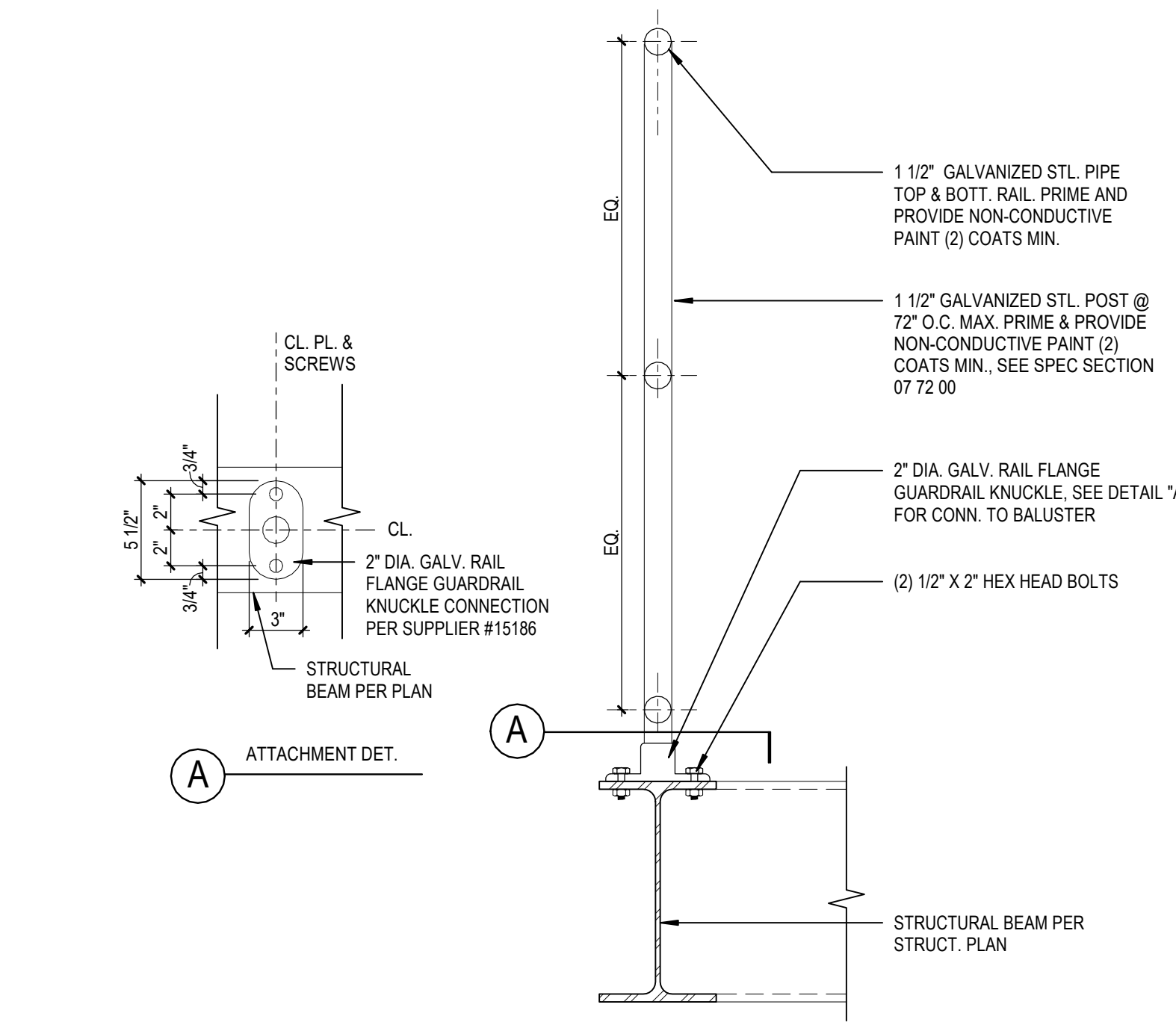
4 TYPICAL MECH. DUCT PENETRATION DETAIL
A1.2E SCALE: 1/2" = 1'-0"



3 MECH UNIT/DUCT ATTACHMENT TO (E) STRUCTURE
A1.2E SCALE: 1/2" = 1'-0"



2 FIELD FABRICATED PIPE FLASHING
A1.2E SCALE: 6" = 1'-0"



REFERENCE KEYNOTES

- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
- E211 DEMO (E) MECHANICAL SCREEN AND CAP ANY EXPOSED PIPES AND ACCESSORY ITEMS. PATCH AND REPAIR EXISTING ROOFING SYSTEM AS REQUIRED AFTER DEMOLITION.
- N400 NEW PRECASTING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00
- N401 NEW STRUCTURAL POST AND BEAM SUPPORT FRAMING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
- N402 NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- N407 (N) MECHANICAL UNITS ATTACHED TO STRUCTURAL SUPPORTS. SEE MECHANICAL AND STRUCTURAL FOR (N) ROOF DUCT PENETRATION LOCATION
- N518 (N) ROOF PATCHING IN AREA OF WORK REMOVE (E) CONDENSING UNITS, PLATFORMS AND ASSOCIATED ITEMS. PATCH AND REPAIR ROOFING AS REQUIRED. IN-FILLING DECK AS NECESSARY TO PROVIDE WATER TIGHT ROOF SYSTEM.

ROOF PLAN GENERAL NOTES

- A. IN ROOF CURBS U.O. SEE MECHANICAL DRAWINGS SHEET MT 3, MT 4 AND MT 5 FOR ADDITIONAL INFORMATION
- B. COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAIN.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWN CUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
ARCHITECTS
JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA



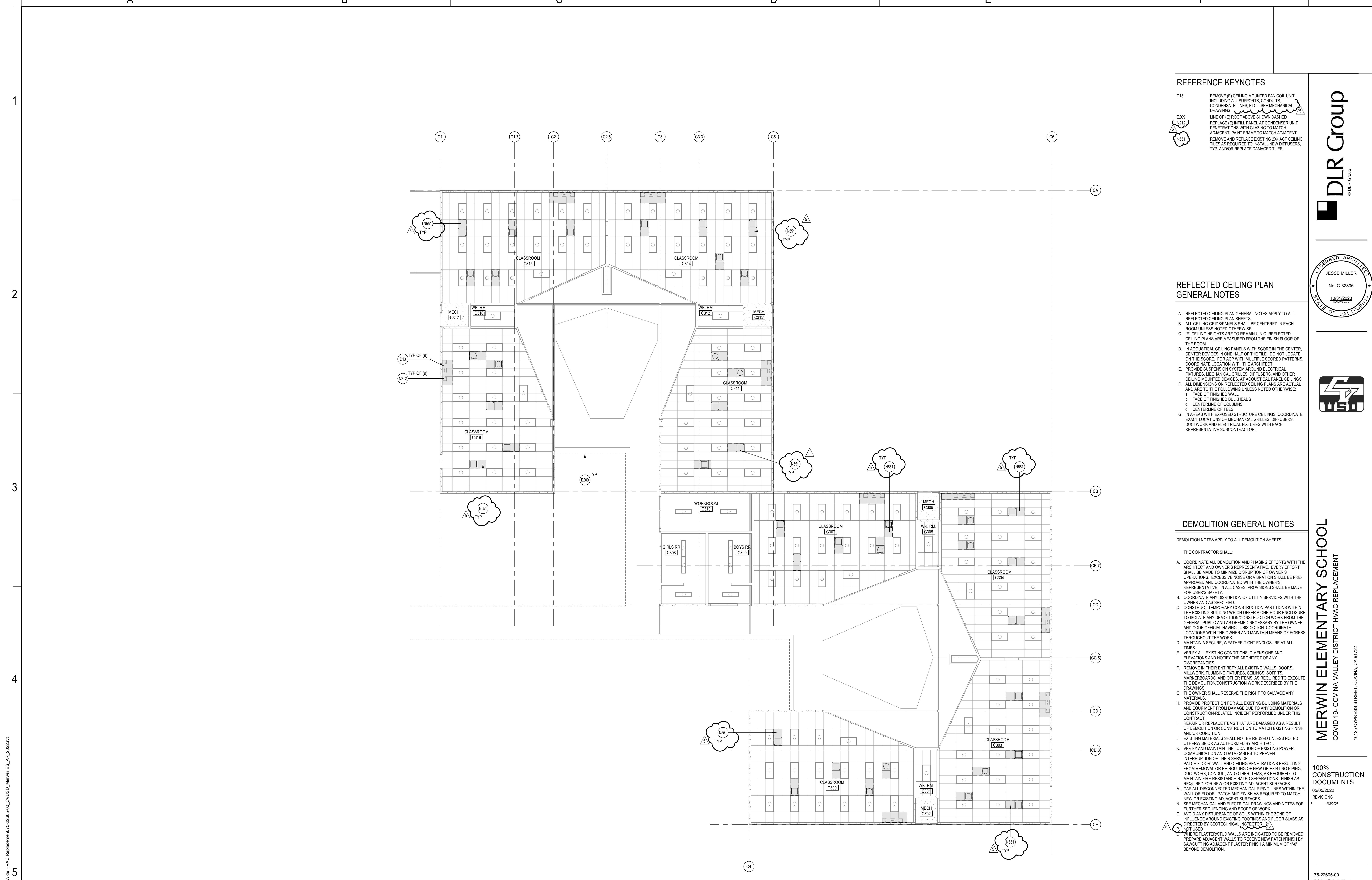
MERWIN ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
16125 CYPRESS STREET, COVINA, CA 91722

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DSA A#03-122235
DSA File #: 19-25
BUILDING E ROOF PLAN

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BUILDING C REFLECTED CEILING PLAN

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

REFERENCE KEYNOTES

- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS.
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED.
- N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT REMOVE AND REPLACE EXISTING ZXA ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.
- N551

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILING.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE.
 - a. FACE OF FINISHED BULKHEADS
 - b. FACE OF FINISHED WALL
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/ARCS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTORS.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



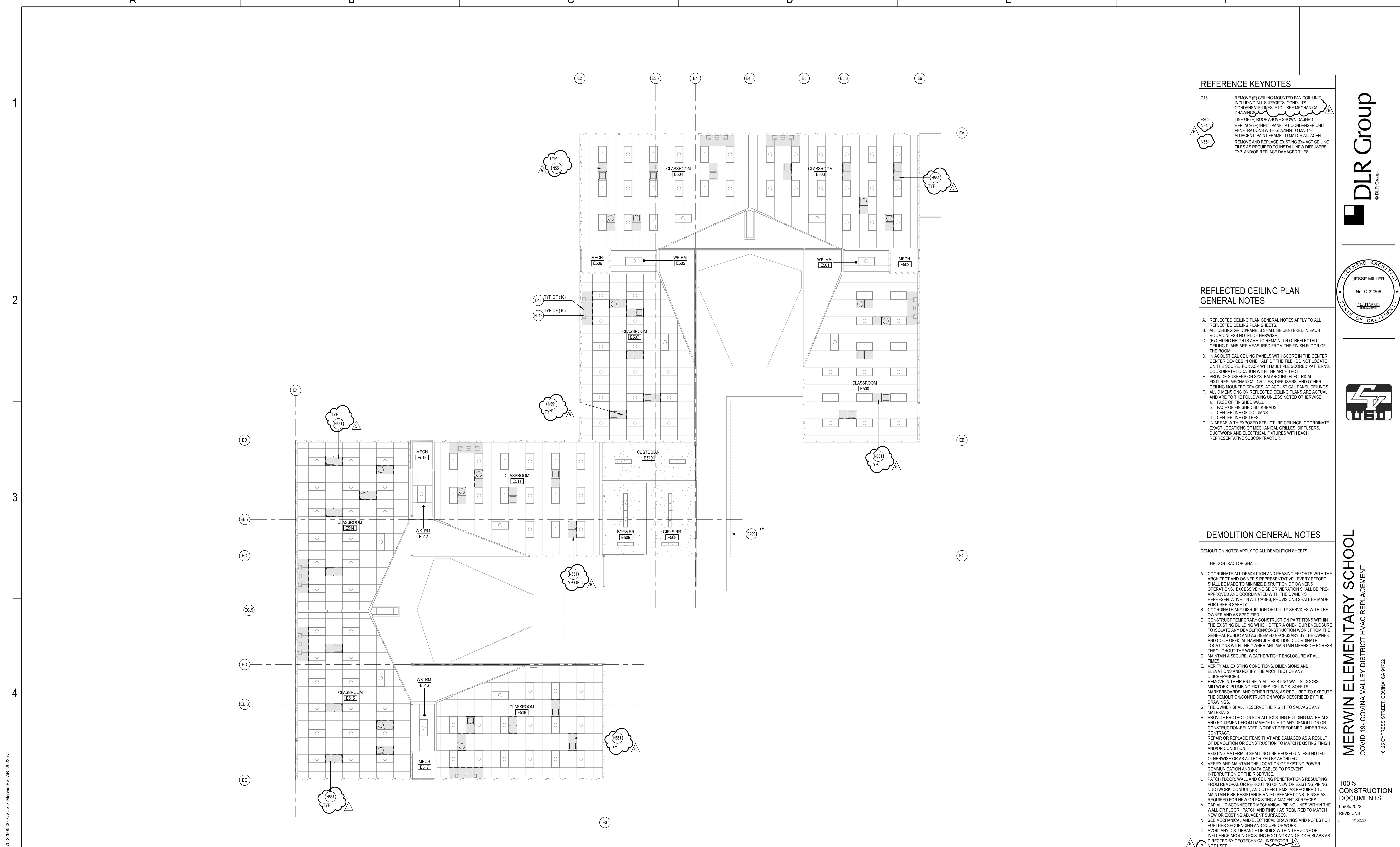
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BUILDING C REFLECTED CEILING PLAN

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BUILDING E REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT, INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS.
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED.
- N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT REMOVE AND REPLACE EXISTING 2'x4' ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.
- NS51 TYP

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILING.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERS/BARBS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTORS.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



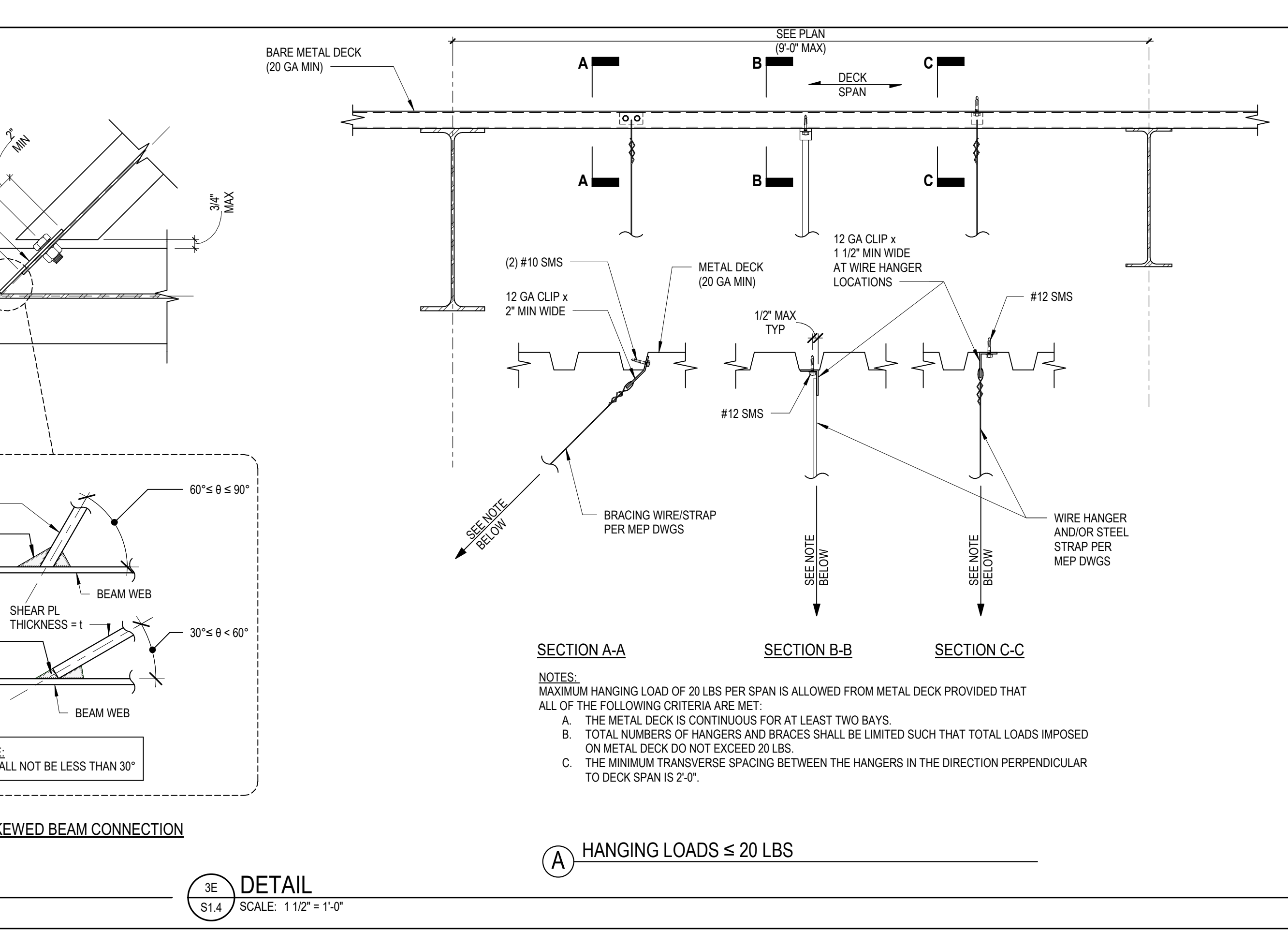
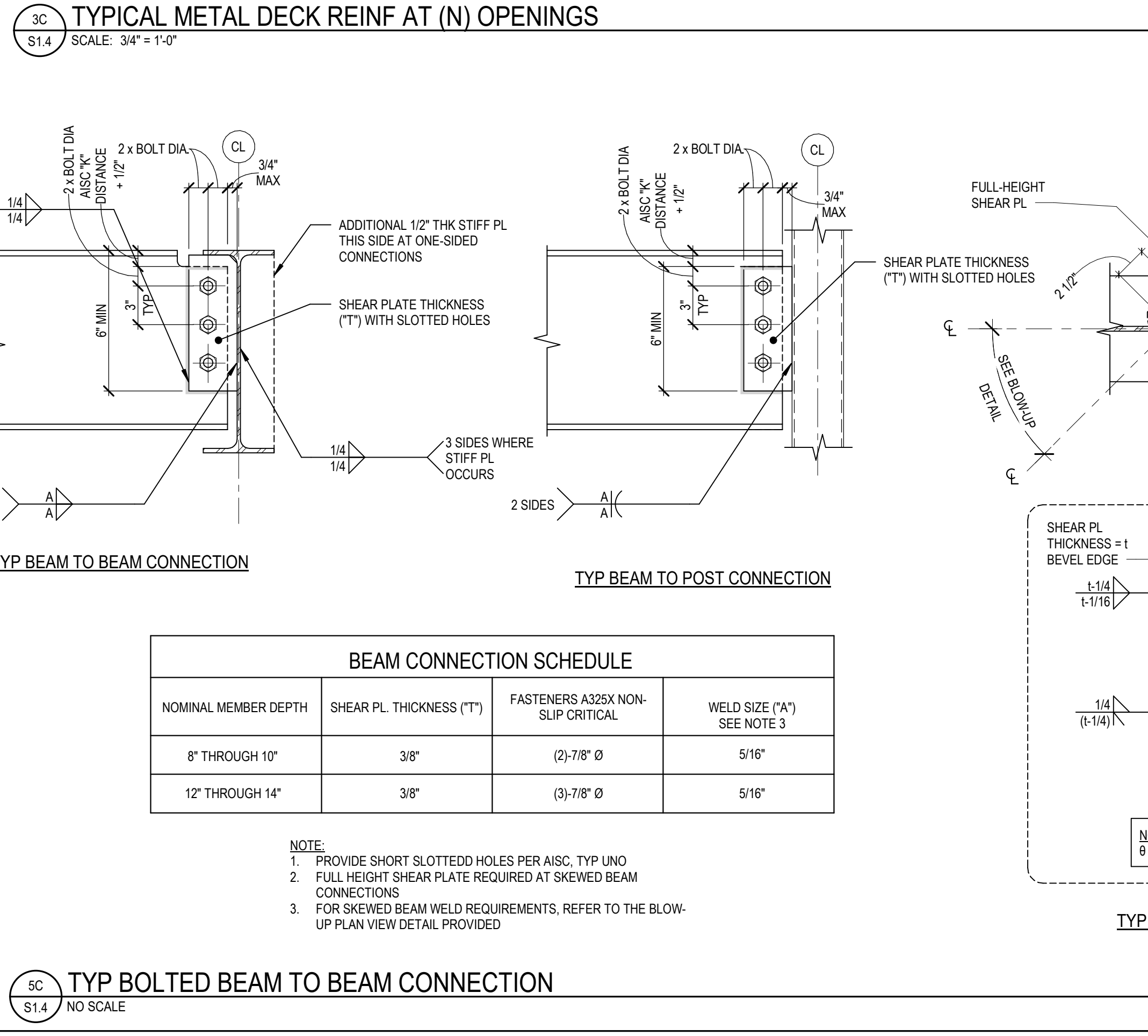
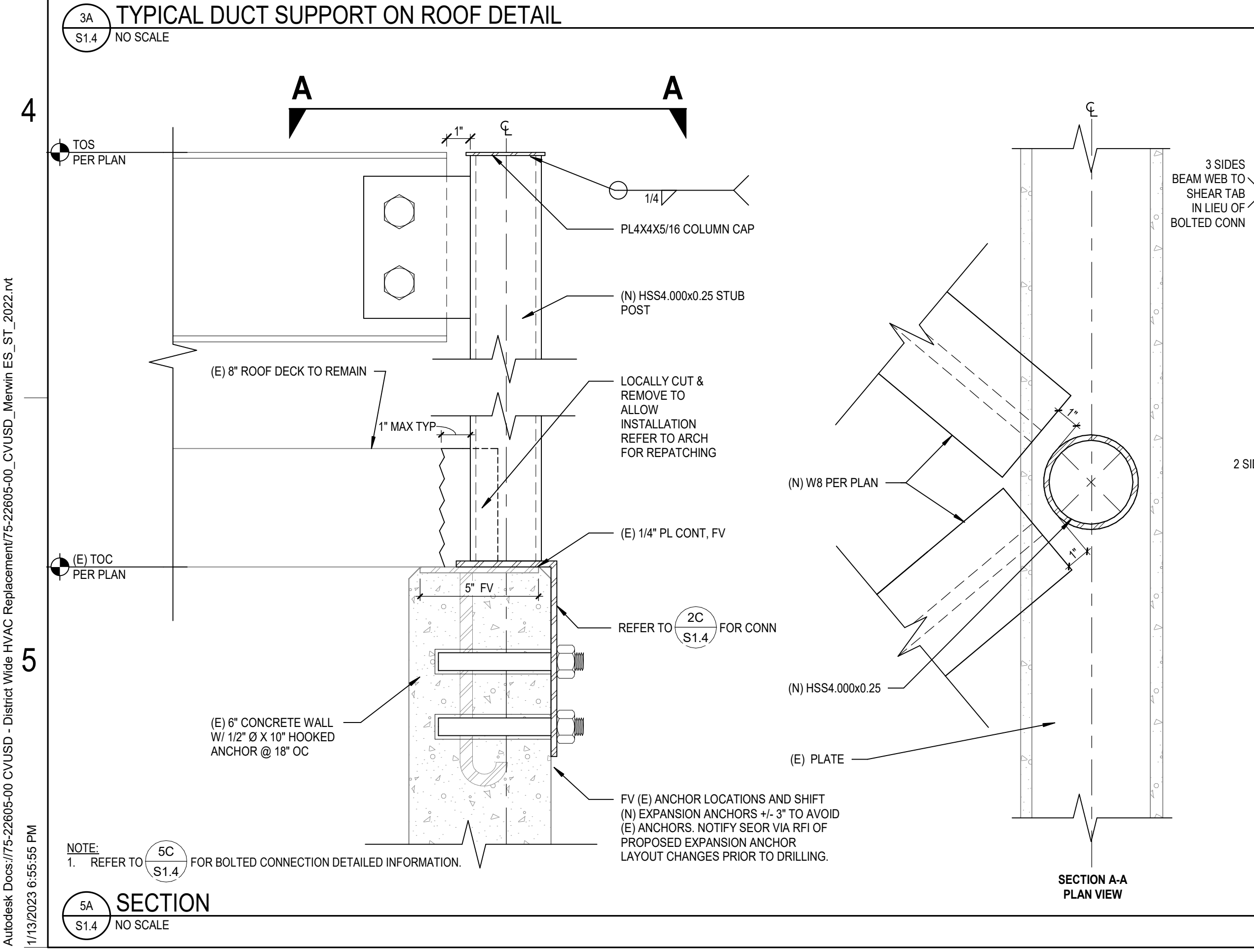
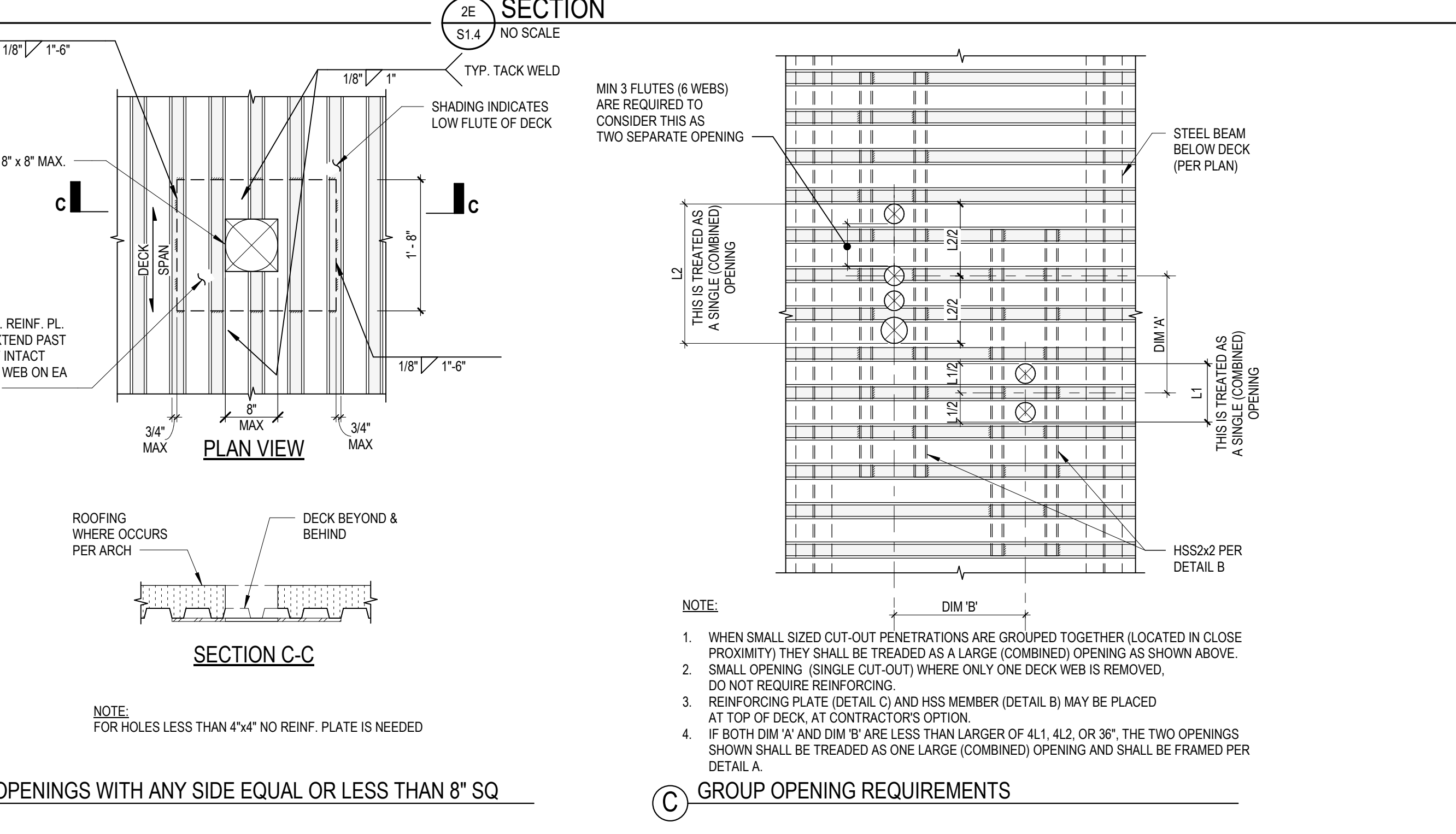
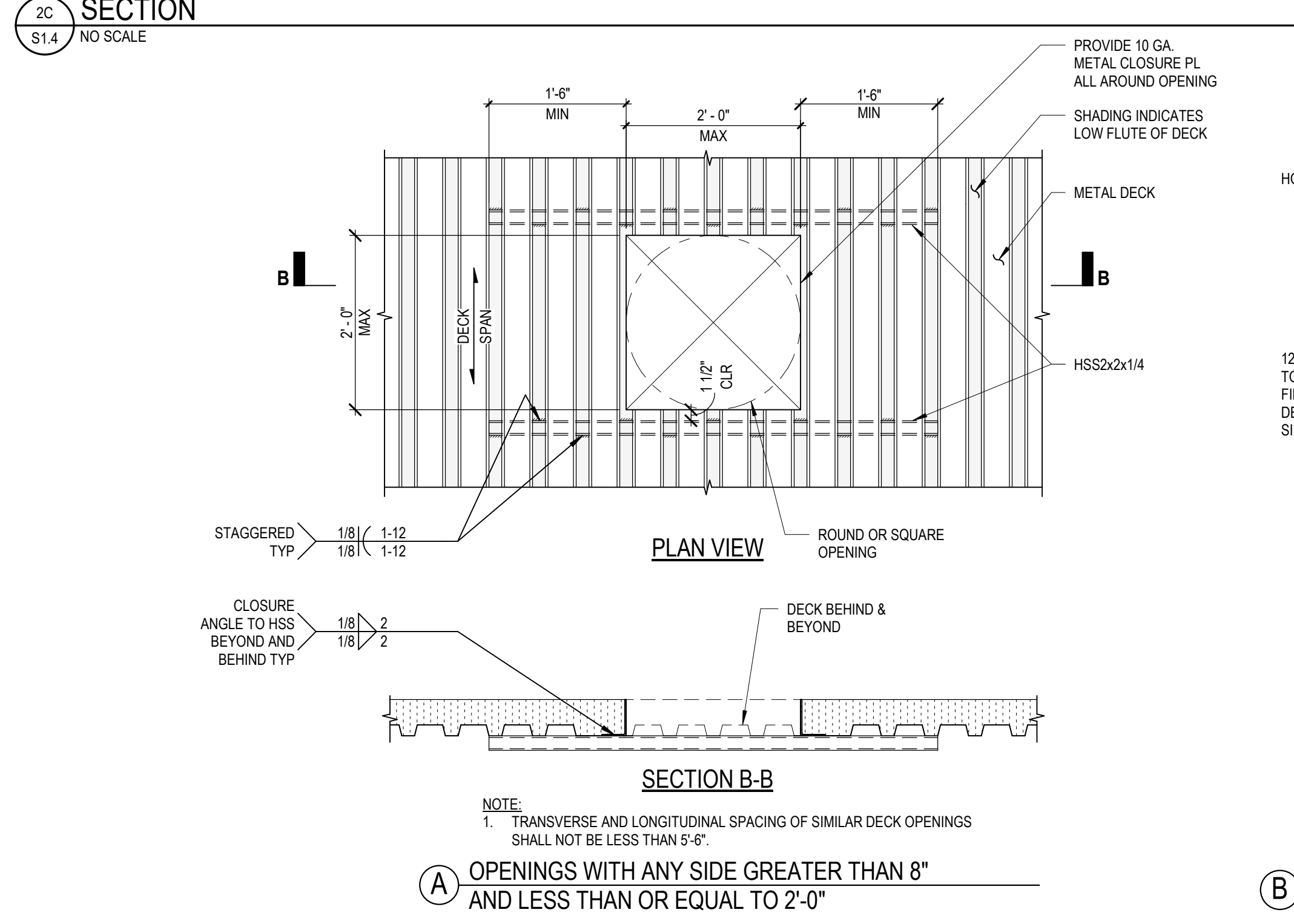
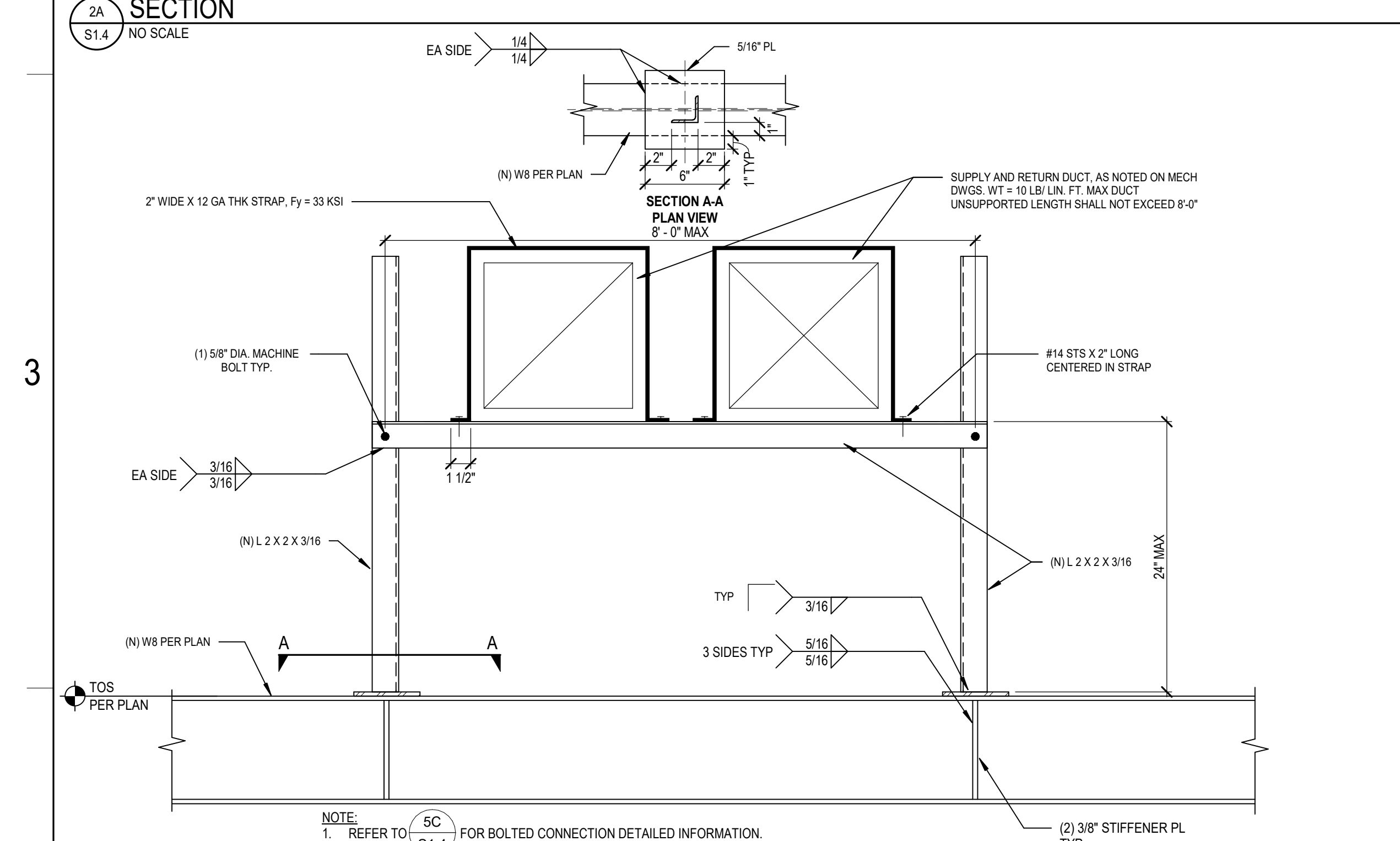
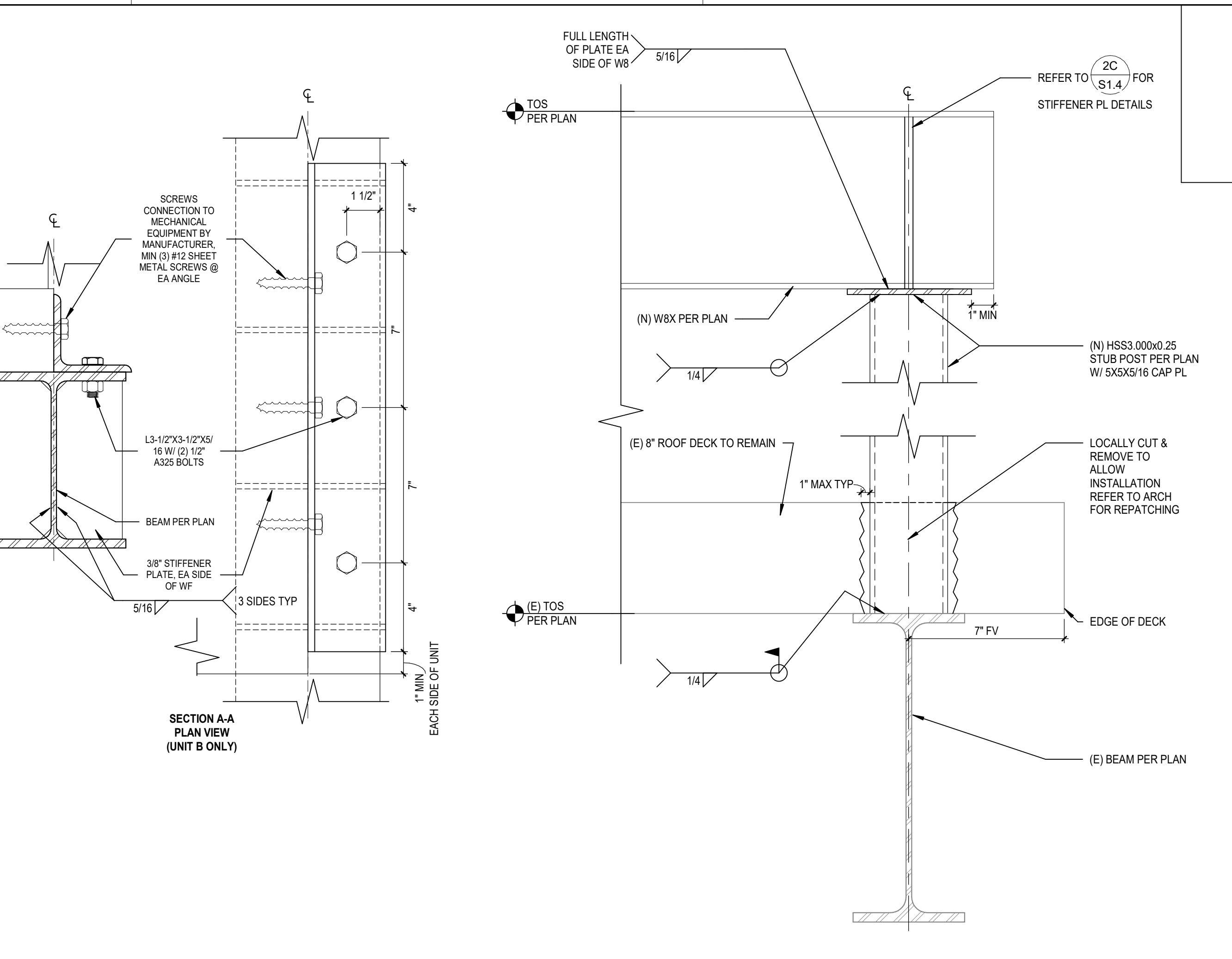
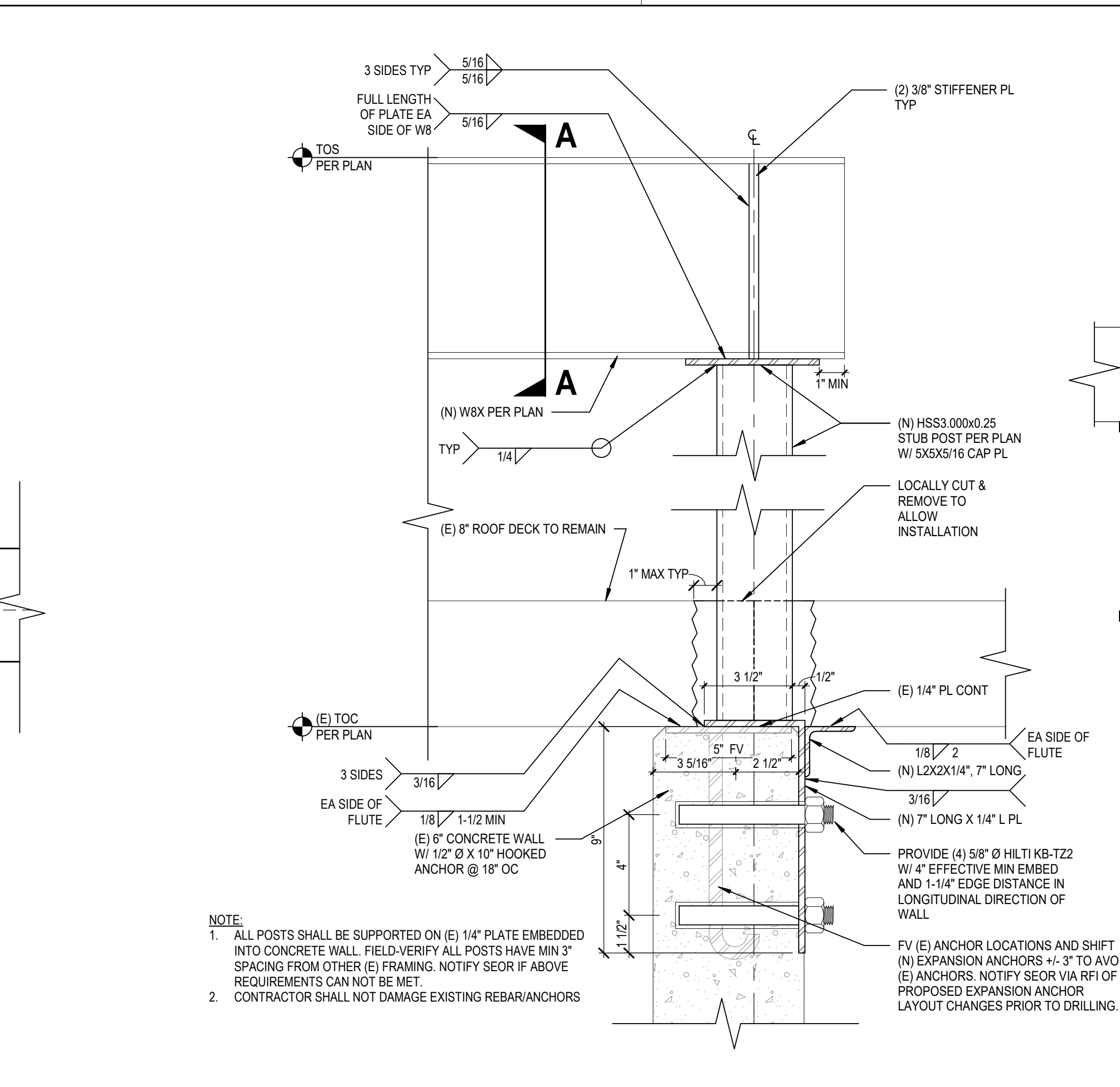
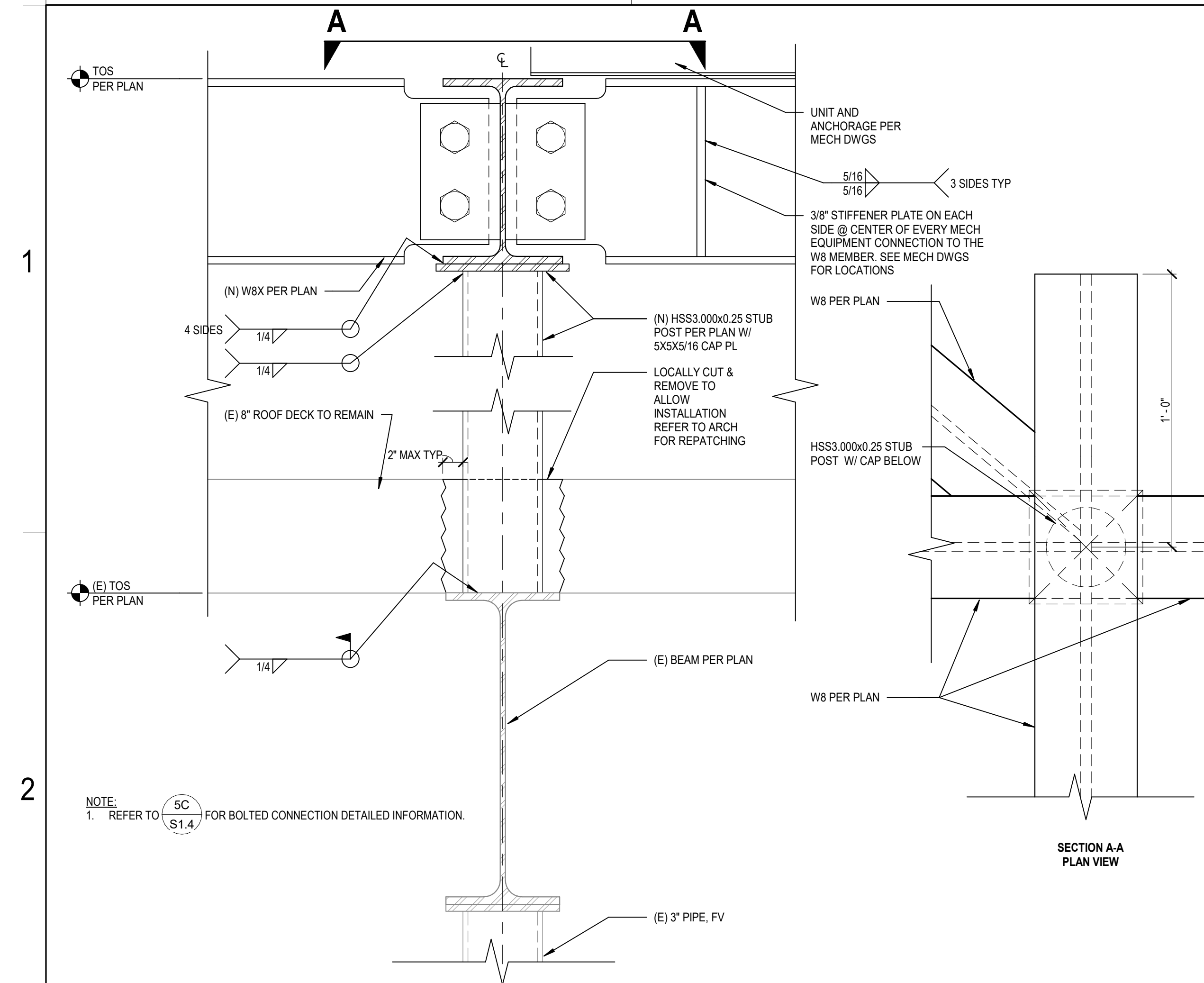
MERWIN ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
16125 CYPRESS STREET, COVINA, CA 91722

100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISONS
5 1/13/2023

75-22605-00
DSA A#03-122235
DSA File #: 19-25
BUILDING E REFLECTED CEILING PLAN

A3.1E

Autodesk Docs // 75-22605-00 CVUSD - District Wide HVAC Replacement // 75-22605-00 CVUSD_Merwin ES_AR_2022.rvt
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NOMINAL MEMBER DEPTH	SHEAR PL. THICKNESS ("T")	FASTENERS AS2X6 NON-SLIP CRITICAL	WELD SIZE ("A") SEE NOTE 3
8" THROUGH 10"	3/8"	(2)-7/8" Ø	5/16"
12" THROUGH 14"	3/8"	(3)-7/8" Ø	5/16"

Autodesk Docs: 75-22605-00_CVUSD - District Web: HVAC Replacement: 75-22605-00_CVUSD_Merwin ES_ST_2022.rvt
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A

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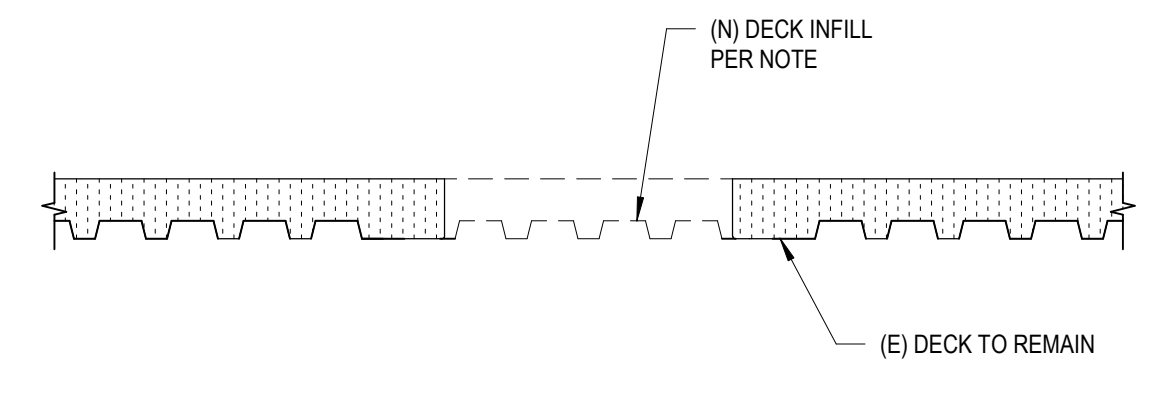
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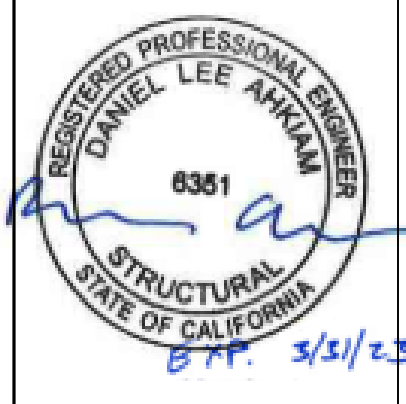
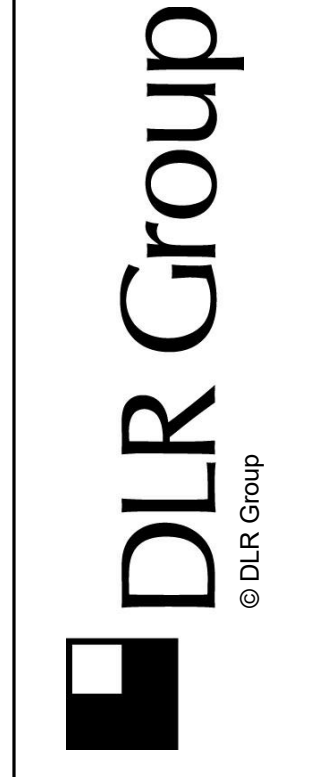
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NOTE:
 OPENINGS LARGER THAN 12"x12"
 PROVIDE (N) DECK TO MATCH EXISTING AND 1/2"Ø PLUG WELD @ 12" OC ALL AROUND
 OPENINGS UP TO 12"x12"
 PROVIDE 14 GA LIGHT GAUGE PLATE AND 1/2"Ø PLUG WELD @ 12" OC ALL AROUND
 NEW METAL DECK/LIGHT GAUGE PLATE SHALL HAVE 2" MIN BEARING OVER SUPPORTING MEMBERS.

1A DECK INFILL
 SCALE: 3/4" = 1'-0"

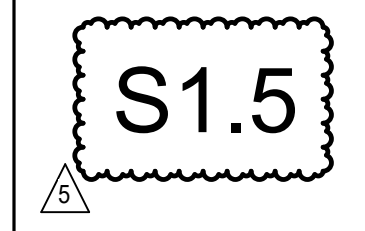
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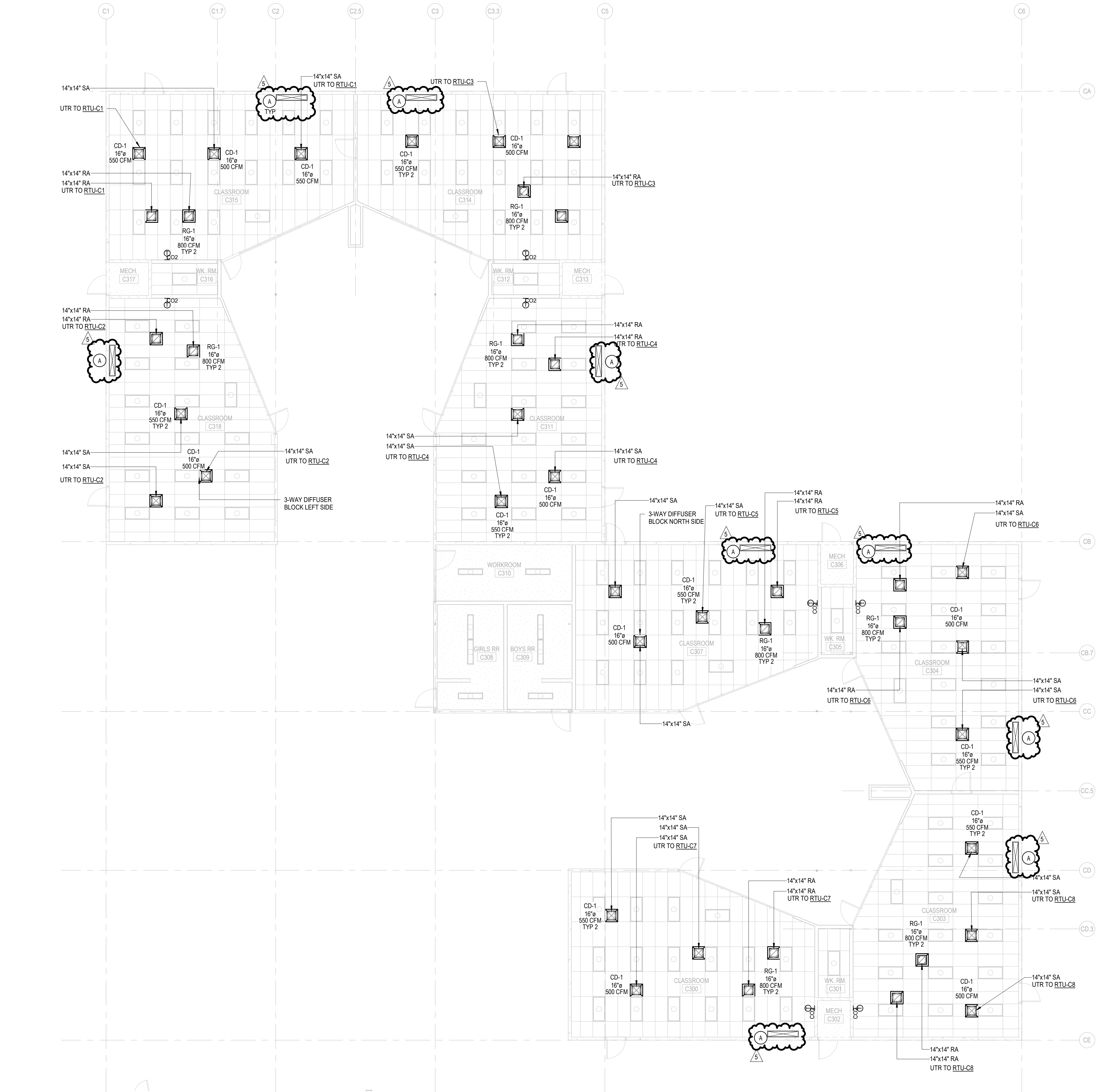
MERWIN ELEMENTARY SCHOOL
 COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
 16125 CYPRESS AVE. COVINA, CA 91722

100%
 CONSTRUCTION
 DOCUMENTS
 11/04/2022
 REVISIONS
 5 011323

75-22605-00
 DSA A#03-122235
 DSA File#: 19-25
**ROOF FRAMING
 DETAILS**



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BUILDING C - MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES

- A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT ON ROOF AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. CONTRACTOR TO VERIFY LOCATIONS ON SITE.

GENERAL NOTES

- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



Merwin Elementary School
COVINA VALLEY USD
1825 CYPRESS ST. COVINA, CA 91722

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75-22605-00

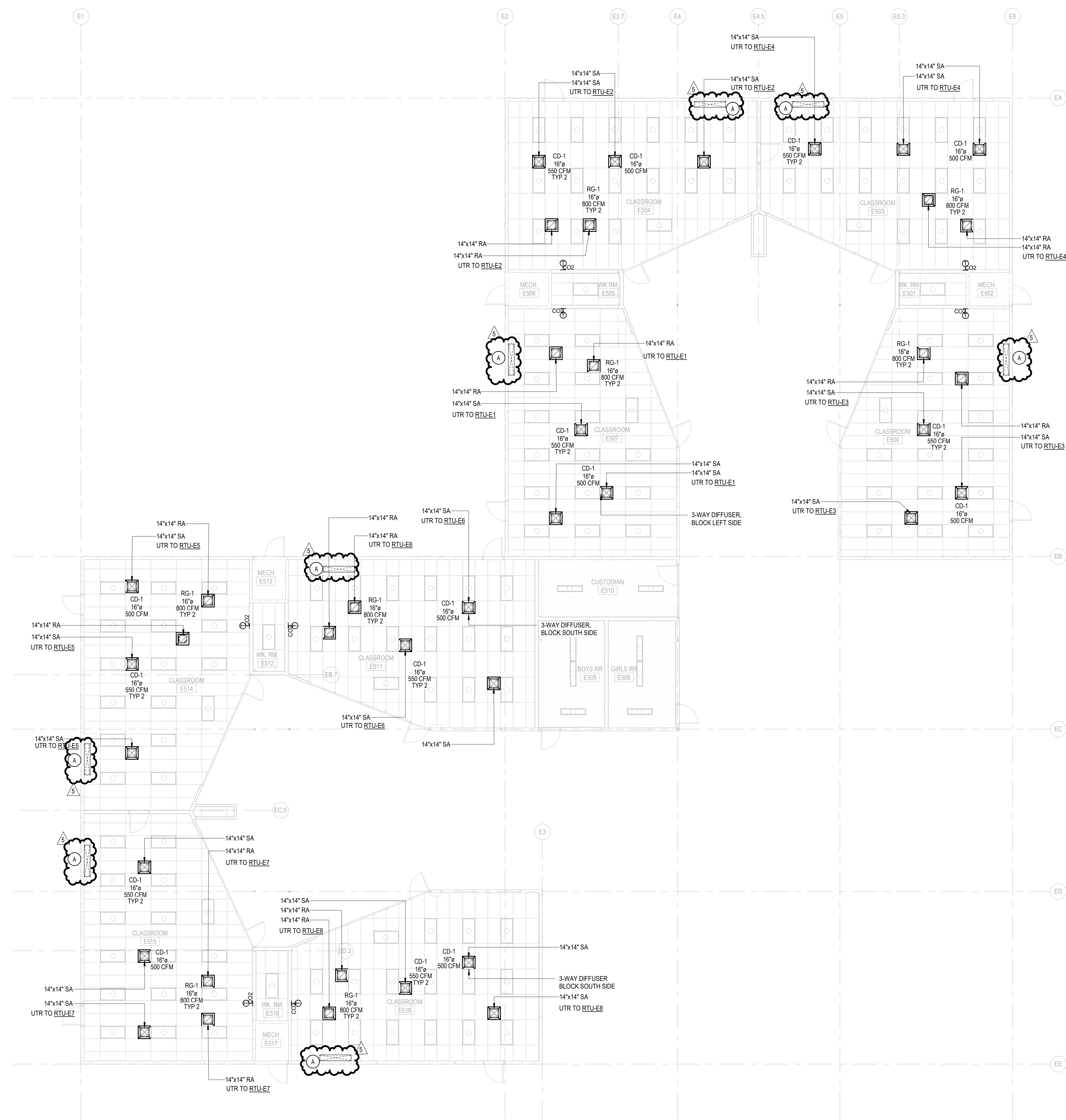
BUILDING C - MECHANICAL FLOOR PLAN

M1.1C

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Merwin ES MEP_2022.rvt
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A B C D E F



BUILDING E MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT ON ROOF AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. CONTRACTOR TO VERIFY LOCATIONS ON SITE.

GENERAL NOTES

- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



Merwin Elementary School
COVINA VALLEY USD
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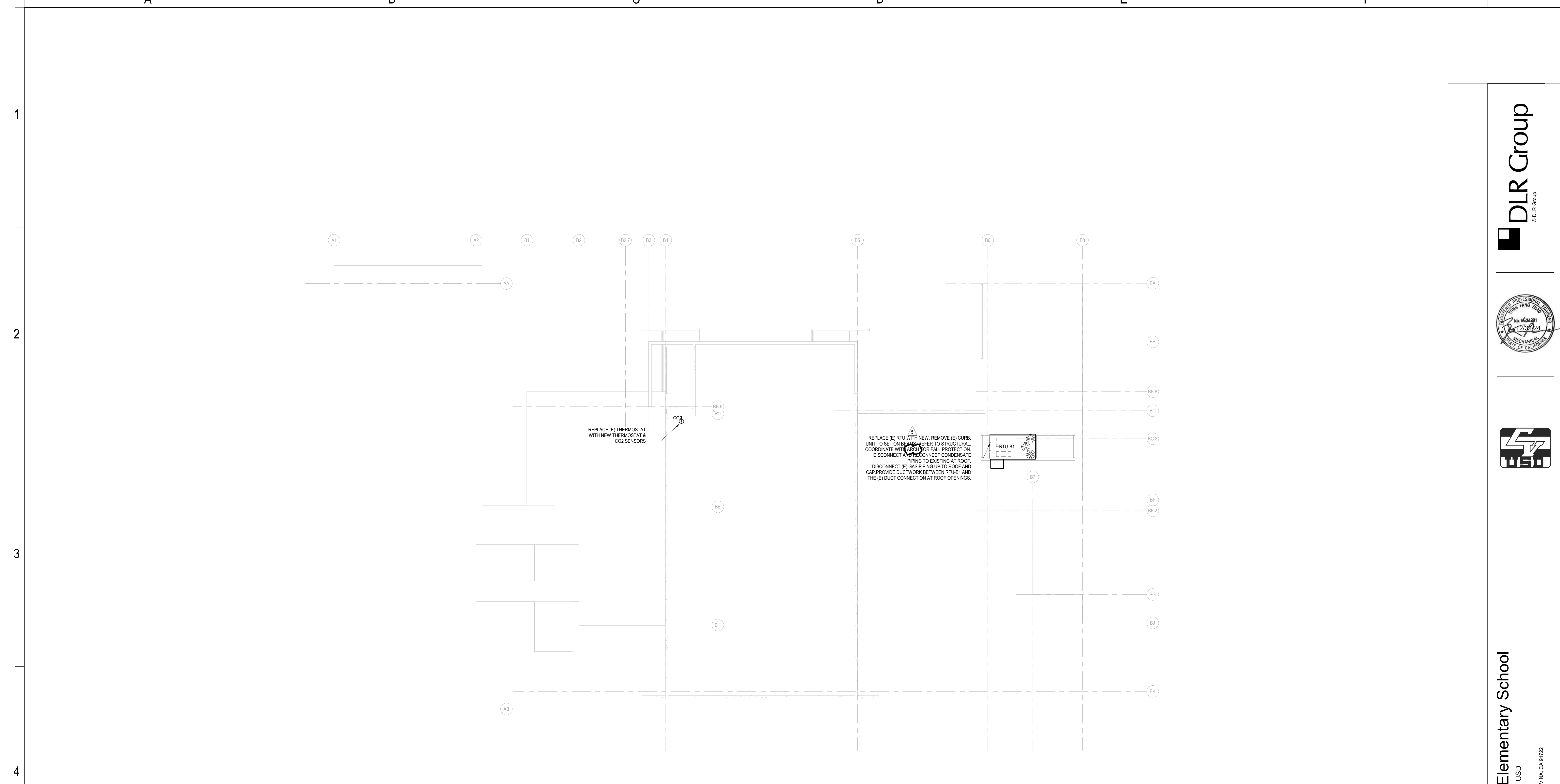
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1/13/2023
REVISIONS
5 01/13/2023

75-22605-00

BUILDING E - MECHANICAL FLOOR PLAN

M1.1E

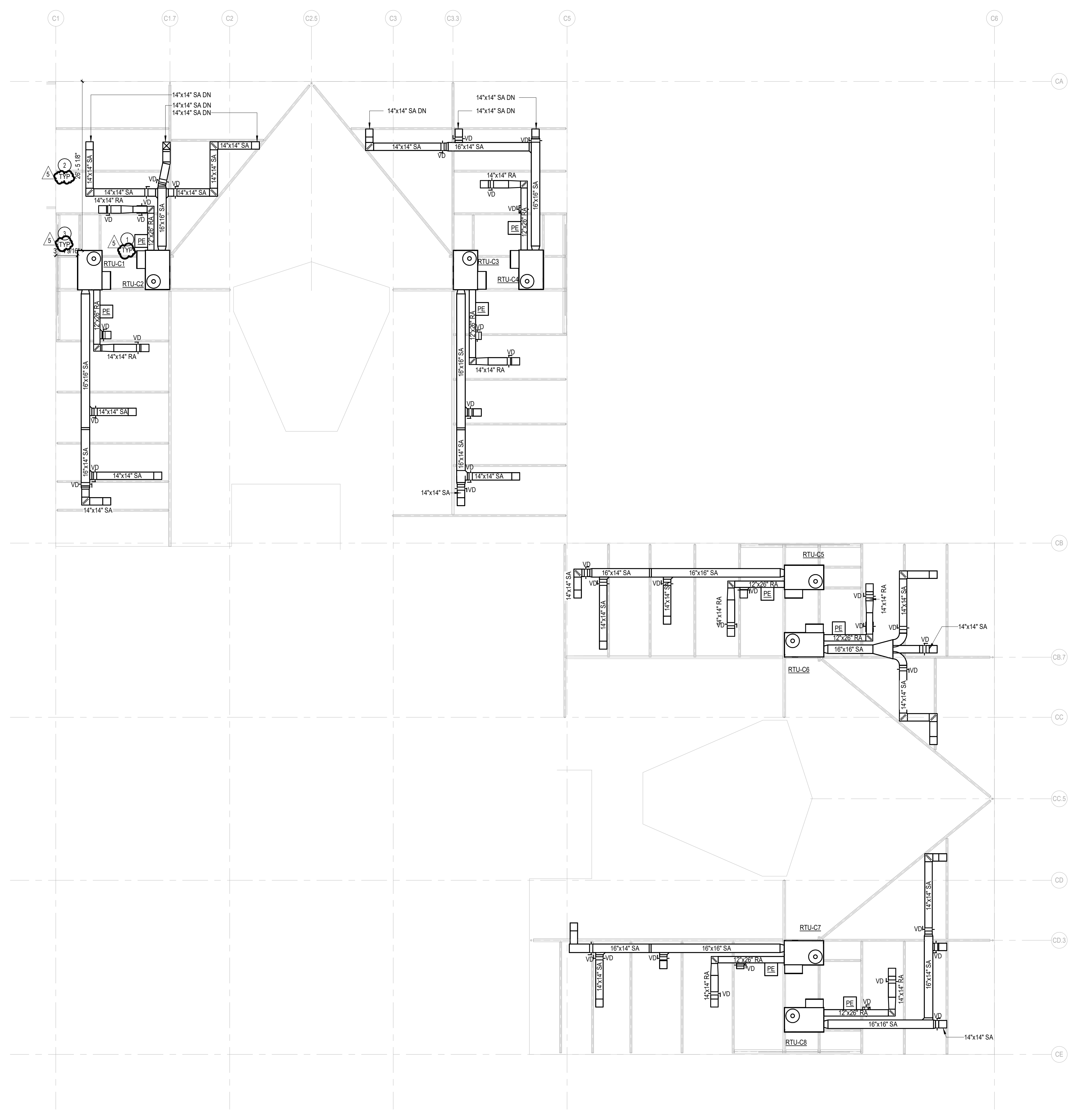
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 **BUILDING B MECHANICAL ROOF PLAN**
SCALE: 1/8" = 1'-0"

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BUILDING C - MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL HVAC NOTES

1. INSTALL NEW RTU ON BEAM WITH ISOLATORS.
2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
3. DISCONNECTING MEANS TO BE NEMA 3R RATED. FURNISHED BY HVAC EQUIPMENT MANUFACTURER AND INSTALLED UNDER DIVISION 26.
4. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
5. DUCT SUPPORT ON ROOF TO REFER TO 3AS1.4.
6. PROVIDE FLEXIBLE CONNECTION AT UNIT FOR SA & RA DUCT.

KEY NOTES

1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
2. RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



Merwin Elementary School
COVINA VALLEY USD
18125 CYPRESS ST. COVINA, CA 91722

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75-22605-00

BUILDING C -
MECHANICAL
ROOF PLAN

M2.1C

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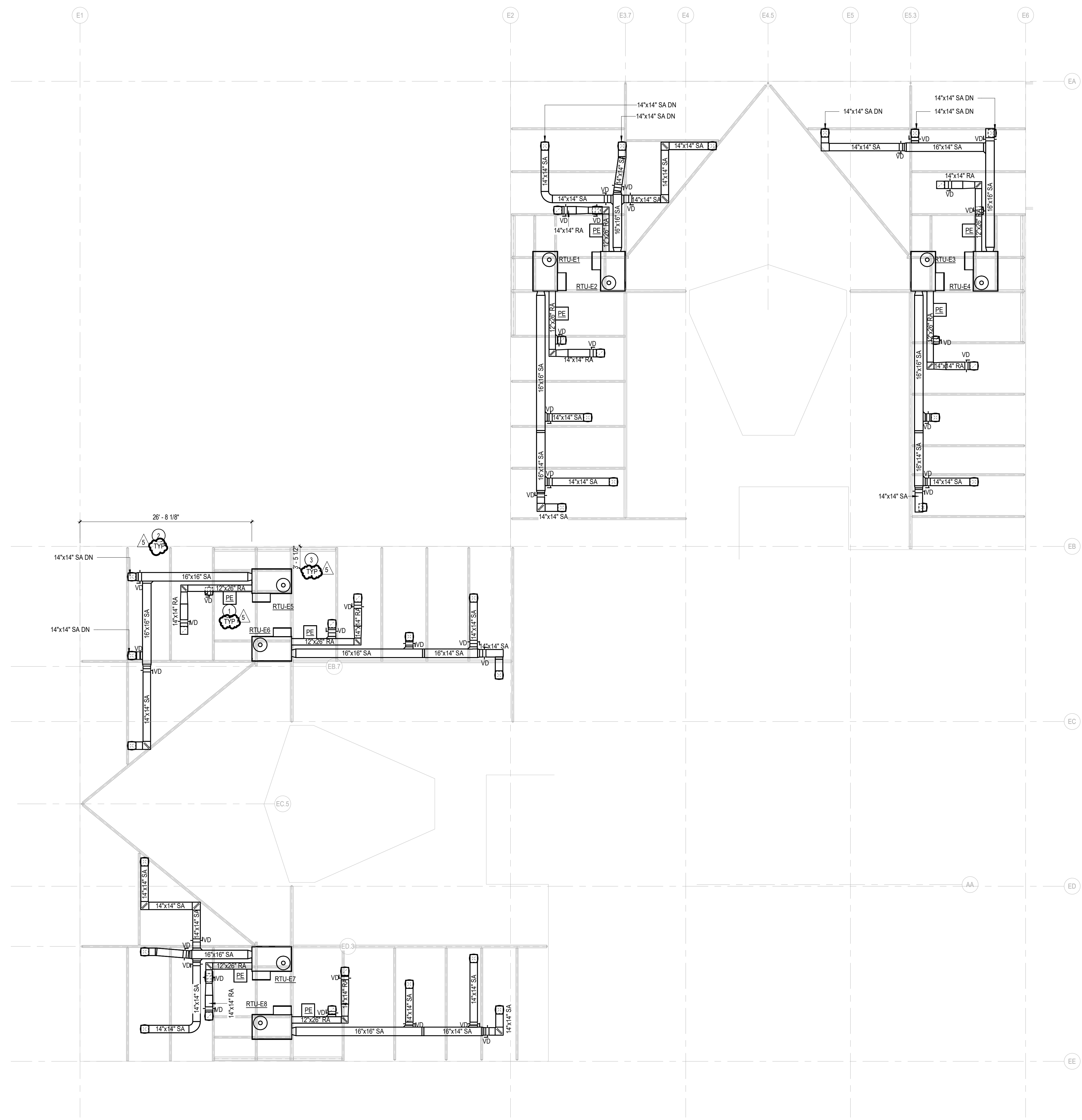
B

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E

F



BUILDING E MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL HVAC NOTES

1. INSTALL NEW RTU ON BEAM WITH ISOLATORS.
2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
3. DISCONNECTING MEANS TO BE NEMA 3R RATED. FURNISHED BY HVAC EQUIPMENT MANUFACTURER AND INSTALLED UNDER DIVISION 26.
4. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
5. DUCT SUPPORT ON ROOF TO REFER TO 3A(S) 4.
6. PROVIDE FLEXIBLE CONNECTION AT UNIT FOR SA & RA DUCT.

KEY NOTES

1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
2. RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



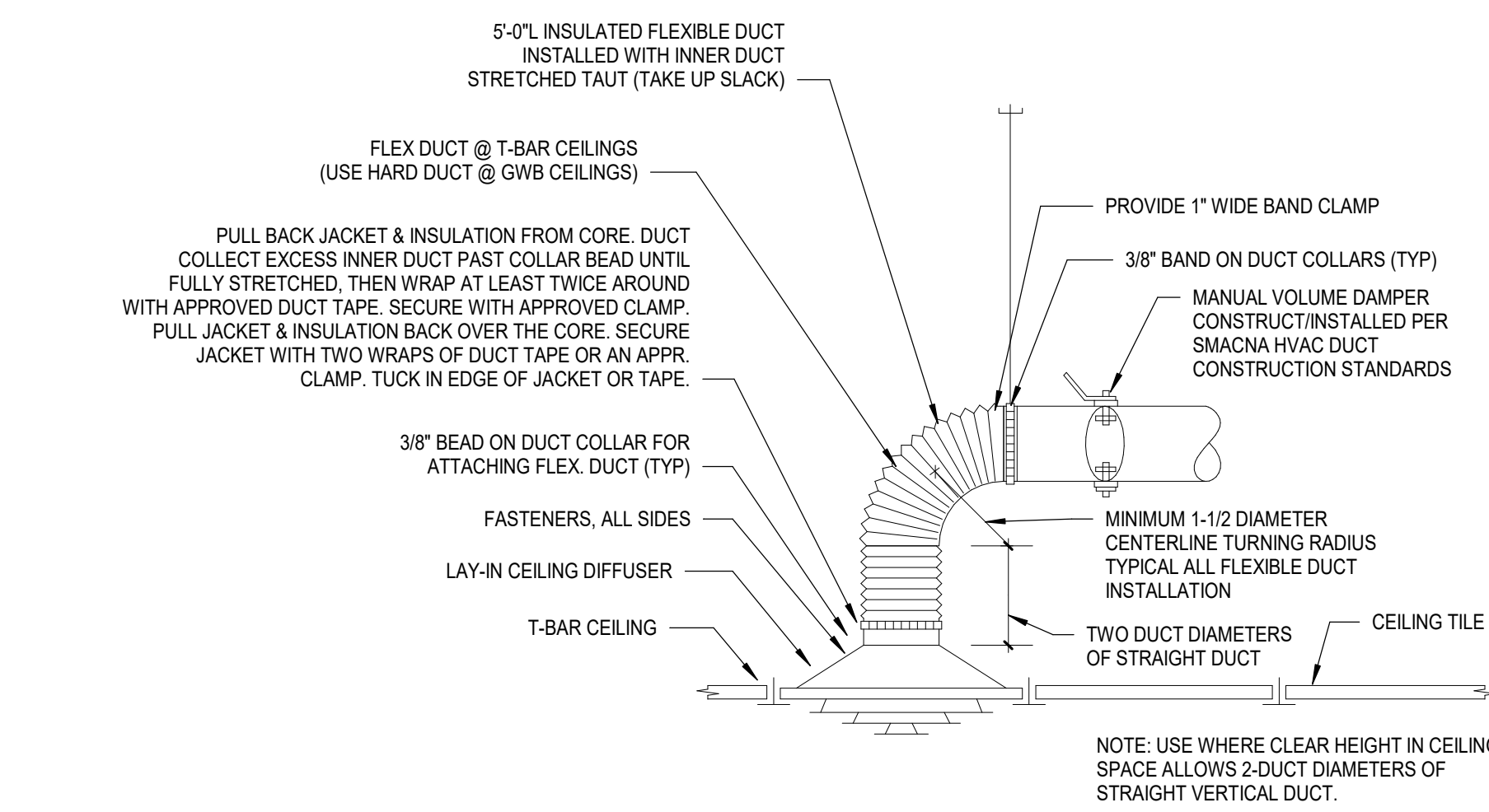
Merwin Elementary School
COVINA VALLEY USD
1825 CYPRESS ST. COVINA, CA 91722

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REVISIONS
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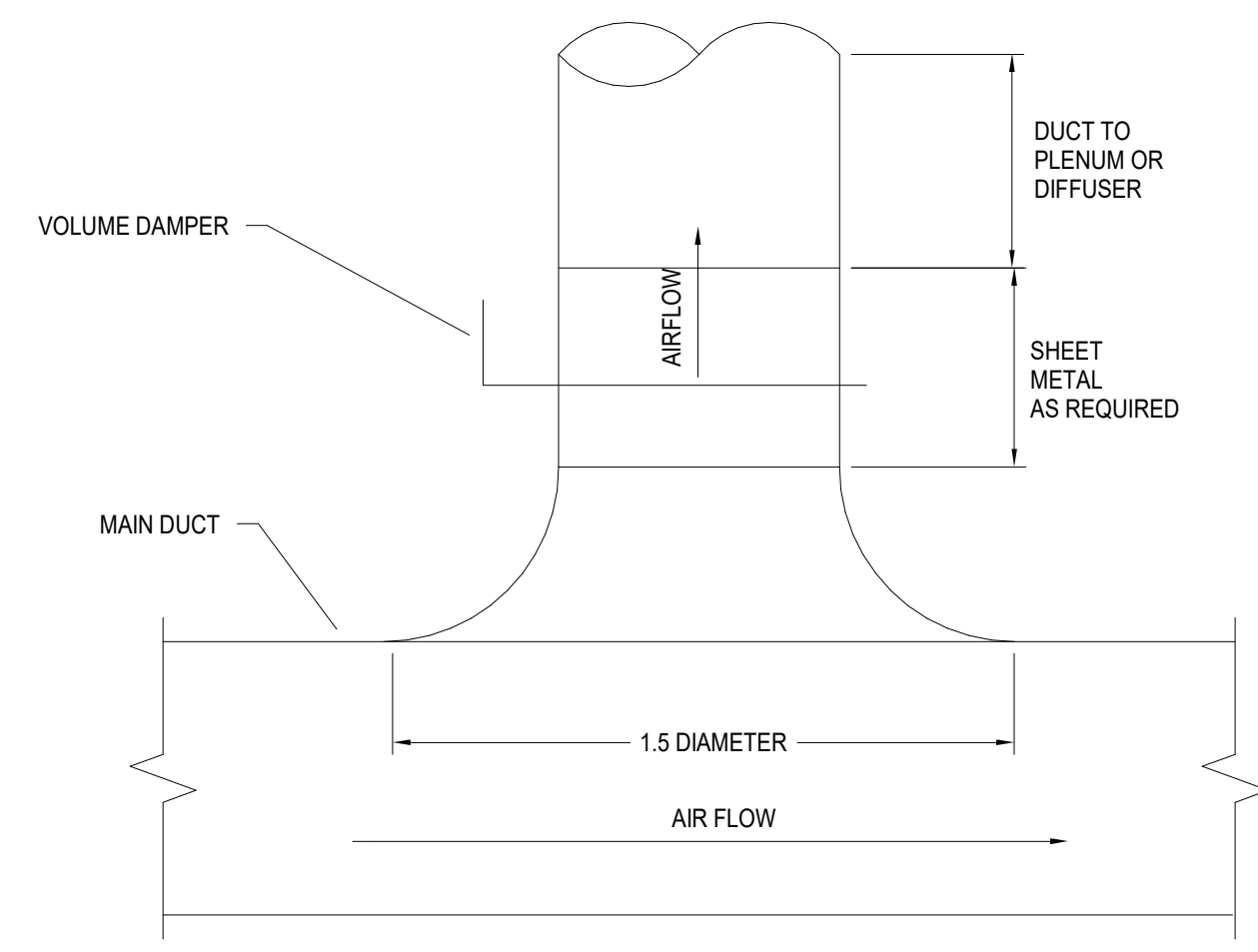
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BUILDING E -
MECHANICAL
ROOF PLAN

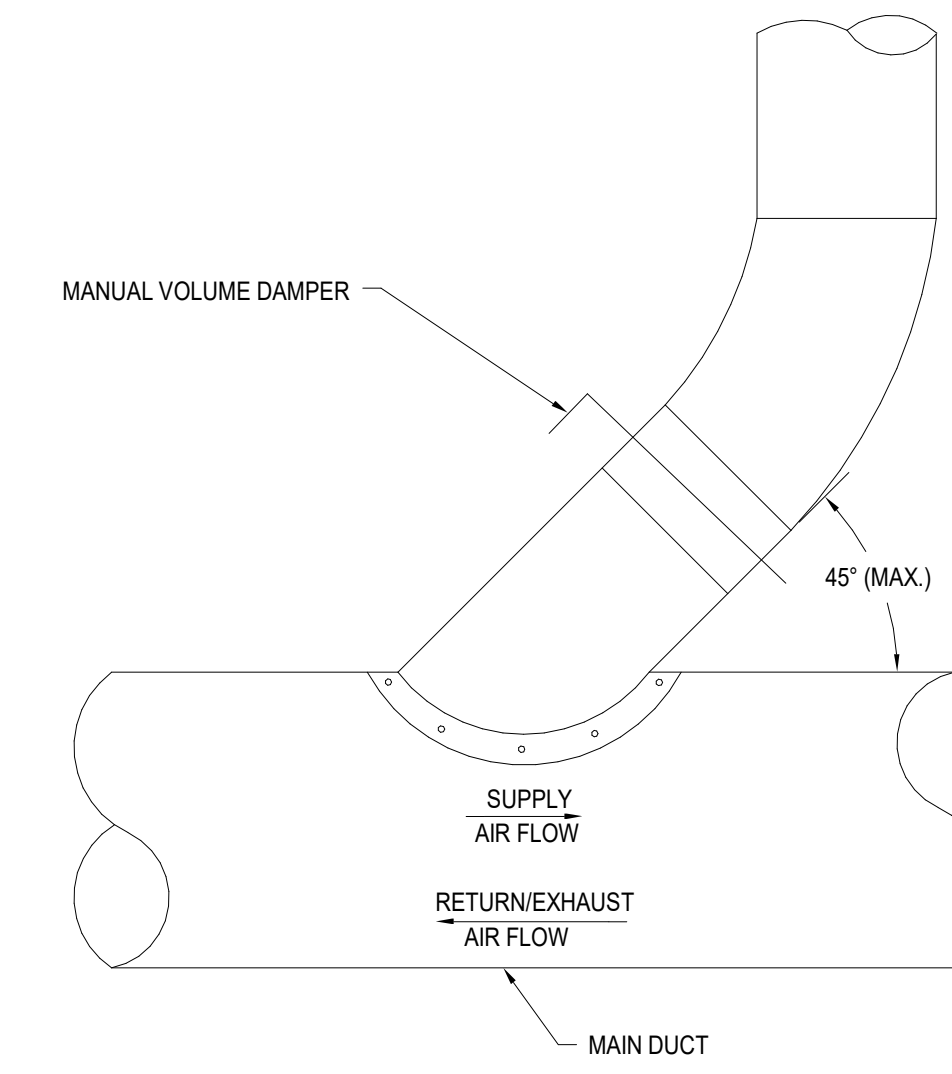
M2.1E



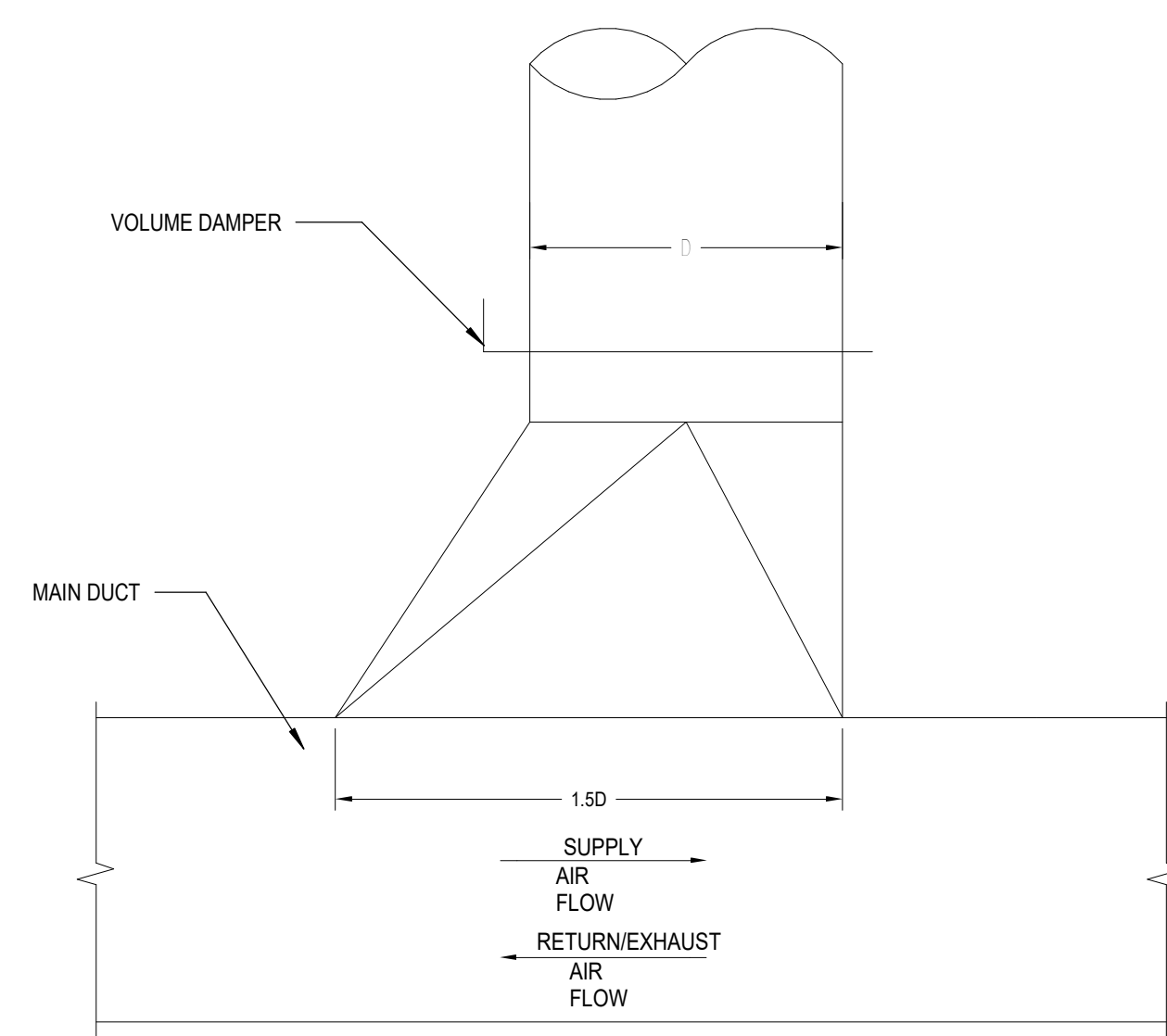
1 CEILING SUPPLY DIFFUSER CONNECTION DETAIL
M7.2 NO SCALE



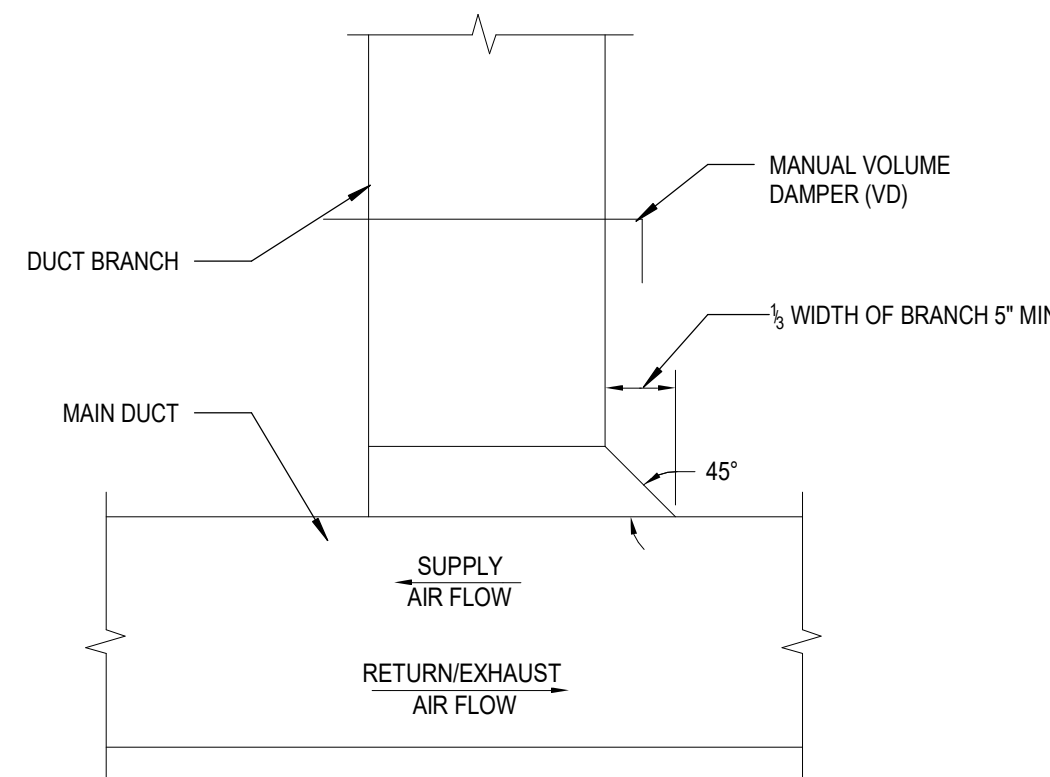
3 ROUND SUPPLY DUCT BRANCH TO RECTANGULAR DUCT
M7.2 NO SCALE



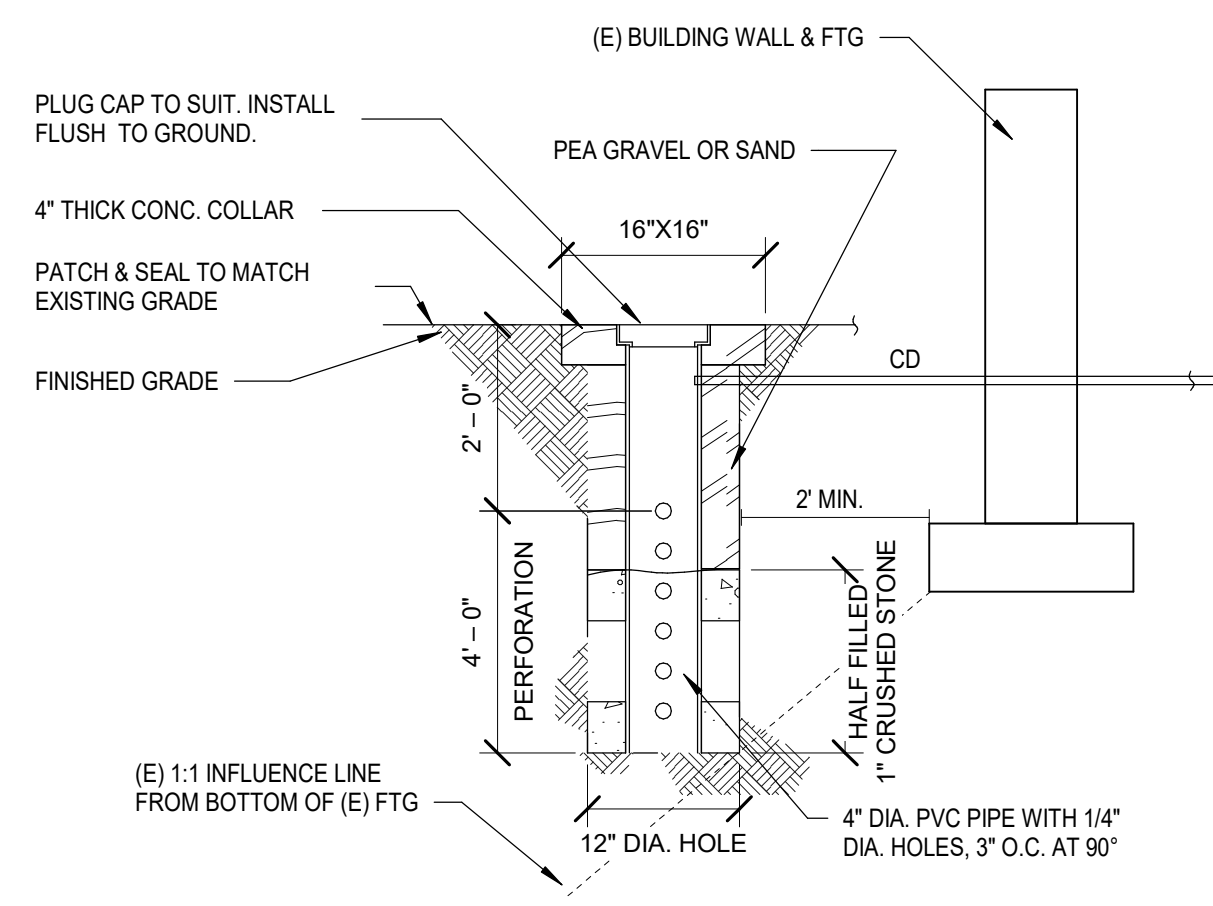
5 ROUND DUCT BRANCH TO ROUND MAIN CONNECTION
M7.2 NO SCALE



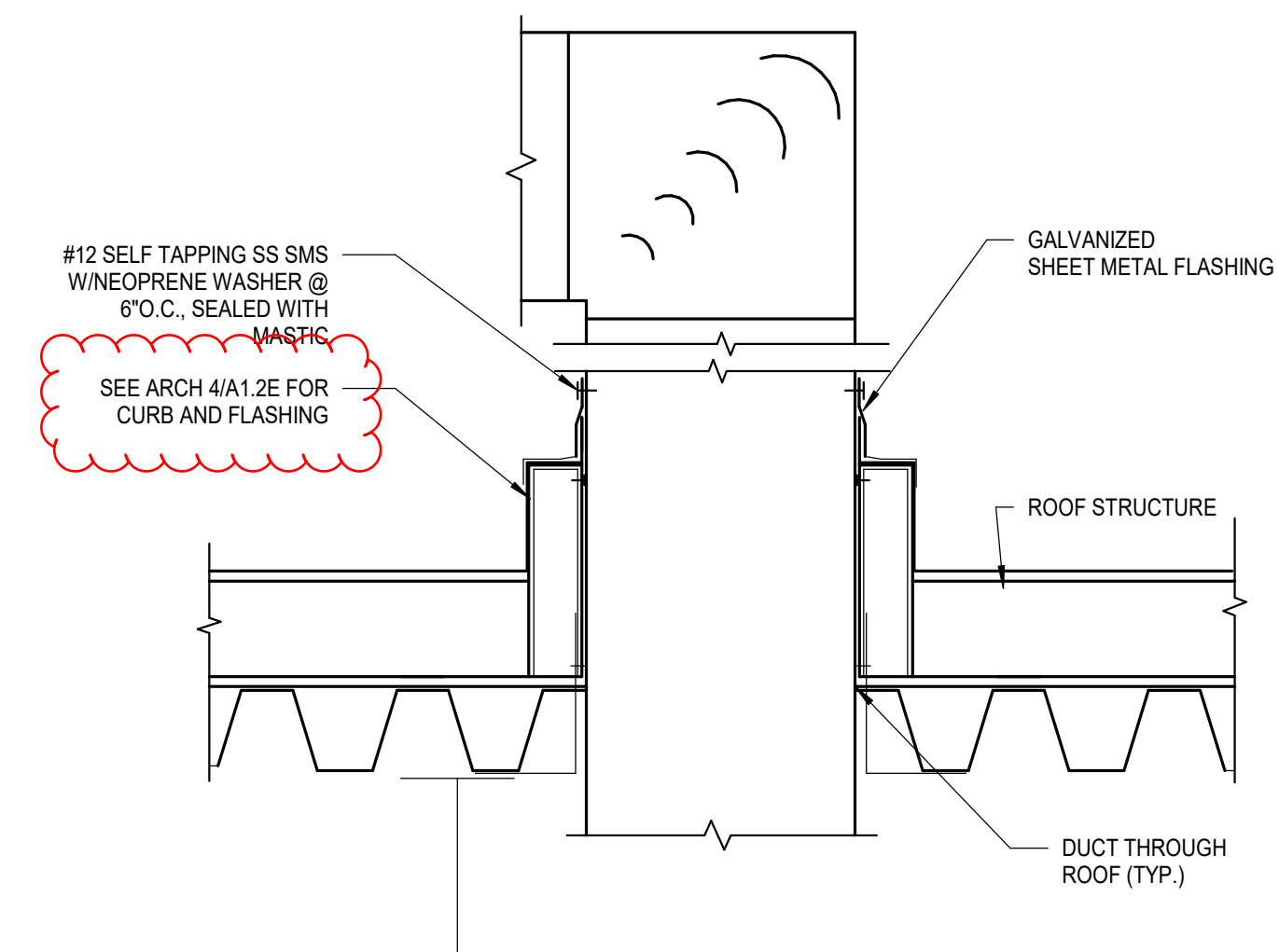
2 ROUND DUCT BRANCH TO MAIN RECT. CONNECTION
M7.2 NO SCALE



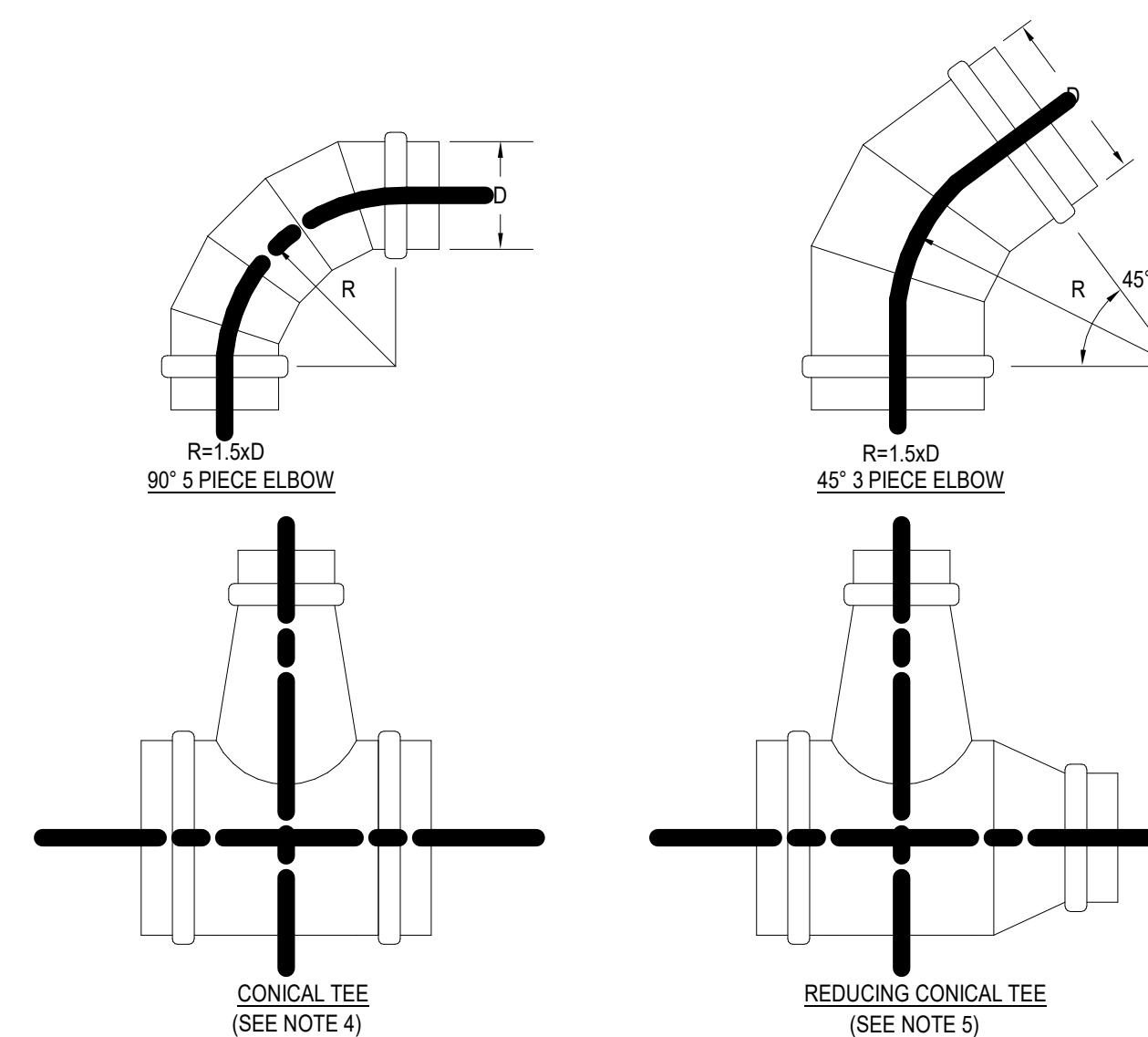
4 RECTANGULAR DUCT BRANCH TO RECTANGULAR DUCT
M7.2 NO SCALE



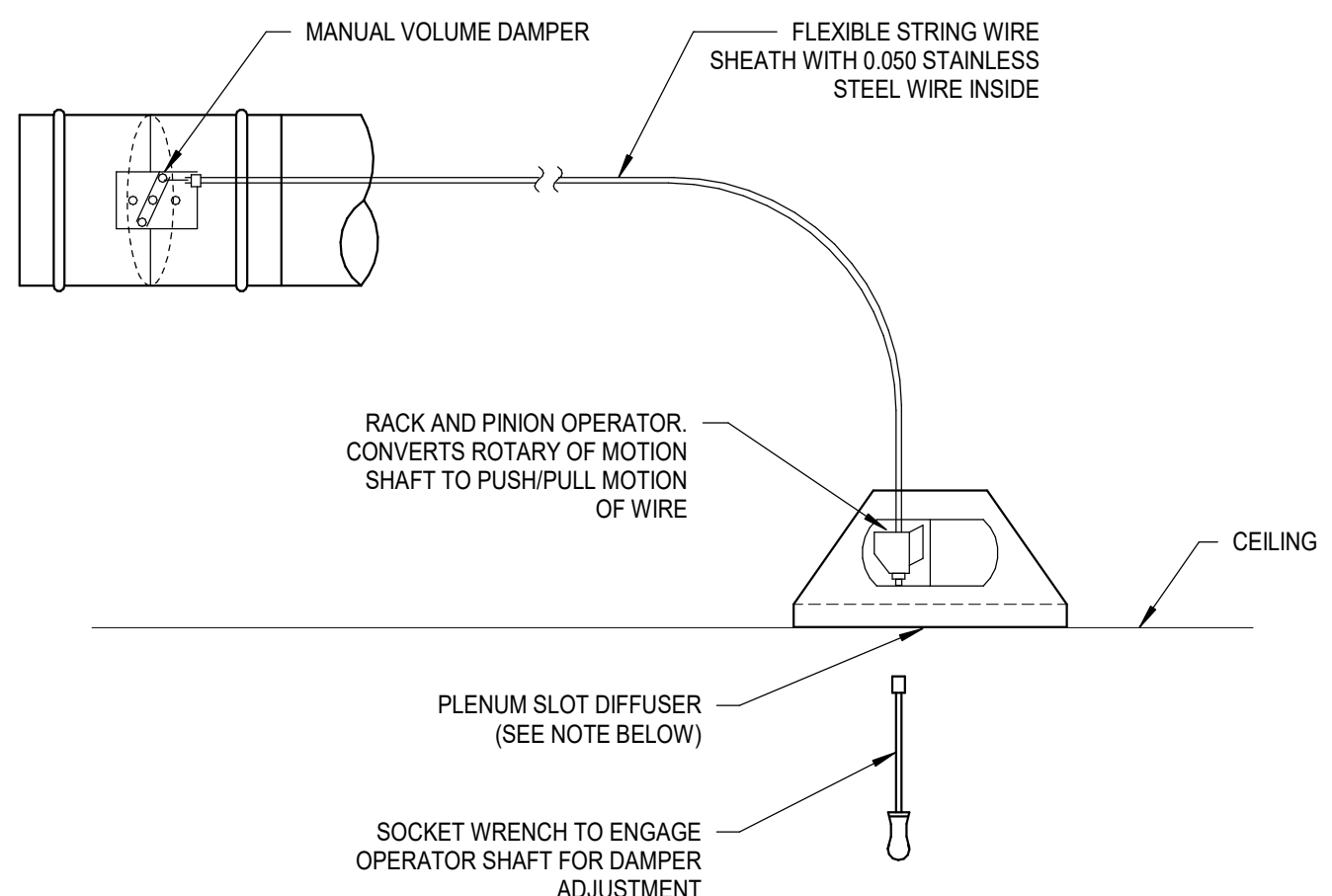
6 DRY WELL DETAIL
M7.2 NO SCALE



9 DUCT THRU ROOF PENETRATION
M7.2 NO SCALE



8 ROUND DUCT FITTINGS
M7.2 NO SCALE



7 BOWDEN TYPE CABLE CONTROL (YOUNG'S REGULATOR)
M7.2 NO SCALE

MARK	MAKE	TYPE	STEEL SIZE
RTU-B1	CARRIER	50TQD14	ASTM A36, L 4 X 3 X 1/4

DETAIL-1

DETAIL-3

DETAIL-2

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 500 LBS.
- ISOLATORS, SEE DETAIL 3.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

MTS	SPRING O.D.	DEFL.
1-6	2"	1"

M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673 	JOB NAME: COVINA USD - MECH. ELEC. B1 CUST.: Covina USD CUST. P.O.: 1825 CYPRESS ST. COVINA, CA 91722 MECH. ENGR.: DLR MARK: RTU-B1 (12.5 TON)	REVISIONS: A: ROOF CURB TO RMUAB (8-17-22) B: call out all attachments (9-9-22) C: CURB TO BASE (10-10-22) D:	DRN: TDT DATE: 08-17-22 DRAWING NO.: -1C
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1 BLDG B AC1
M7.3 12" = 1'-0"

Autodesk Docs/75-22605-00 COVUSD - District Wide HVAC Replacement/75-22605-00 COVUSD_Merwin ES MEP_2022.rvt 1/13/2023 1:02:49 PM

MARK	MAKE	TYPE	STEEL SIZE
RTU C1 to C8	CARRIER	50FCQA05	
RTU D1 to D8	CARRIER	50FCQA05	ASTM A36, L 3 X 2 X 1/4

DETAIL-1

DETAIL-2

DETAIL-3

MTS	SPRING O.D.	DEFL
1-6	2"	1"

ATTACHMENT OF UNIT TO STEEL BASE

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 200 LBS.
- ISOLATORS, SEE DETAIL 3.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD - MERWIN ES CUST.: CUST. P.O.: MECH. ENGR.: DLR MARK: RTU-C1-C8, D1-D8 (RTU 4 TON)	REVISIONS: A: ROOF CURB TO RMUAB (8-17-22) B: call out all attachments (9-9-22) C: SPECS ANGLE (9-20-22) D:	DRN: IDT DATE: 08-17-22 DRAWING NO.: -2C
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1 RTU-C1 TO C8, RTU-E1 TO E8
M7.4 / NO SCALE

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MERWIN E.S. AC UNIT REPLACEMENT

MERWIN E.S. EXISTING UNIT												NEW UNIT																													
TAGS	MAKE	MODEL	CAPACITY (TONS)	GAS INPUT/OUTPUT (BTU/HR)	ELECTRICAL (SINGLE CIRCUIT)			WEIGHT (LBS)	POWER EXHAUST		OPERATING WEIGHT (LBS)	DIRECT REPLACEMENT? Y/N	CARRIER MODEL #	NET COOLING CAPACITY			AIRFLOW (CFM)		ESP (IN WG)	SEER	EER	HEATING CAPACITY (MBH)	NEW MERV RATING	FILTER QUANTITY & SIZE (W" X H" X D")	ELECTRICAL			WEIGHT (LBS)	OUTSIDE AIR HOOD WEIGHT (LBS)	ECONOMIZER			POWER EXHAUST			ROOF CURB WEIGHT (LBS)	TOTAL WEIGHT (LBS)	UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE		
					V/PH	MCA	FLA		EXISTING	WEIGHT				NOMINAL TON	TOTAL (BTUH)	SENSIBLE (BTUH)	SUPPLY	MIN OSA							V/PH	MCA	MOCP			REQUIRED ?	WEIGHT	REQUIRED ?	MODEL #	MCA	MOCP					WEIGHT	
RTU-B1 (BLDG. B)	CARRIER	48HJD014--661--	12.5	224,000/183,680	208/3	60.6/60.6	64/64	1050	NO	0	1050	Y	50TCQD14A2A5-2A0G0	14	140810	104790	4800	1000	0.8	12 (IEER)	10.6	142.28	13	6 (18X24X2)	208/3	64	80	1370	N/A	NO	YES	SEE POWER EXHAUST	YES	PCD-SRT05CB-D00B-2L3-4	17	30.6	332	211	1913	116 X 64 X 58	1/M7.5
RTU-C1 THRU RTU-C8 (BLDG. C)	CARRIER	38RC048 (63QAE048)	4.0	45500	208/1	30.5	24.7	255	NO	0	255	N	50FCQA05A2A3	4	47170	35070	1600	300	1	14.3	10.44	46.1	13	2 (16X25X2)	208/1	34	50	475	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	NA	639	75 X 47 X 34	1/M7.4	
RTU-E1 THRU RTU-E8 (BLDG. E)	CARRIER	38RC048 (63QAE048)	4.0	45500	208/1	30.5	24.7	255	NO	0	255	N	50FCQA05A2A3	4	47170	35070	1600	300	1	14.3	10.44	46.1	13	2 (16X25X2)	208/1	34	50	475	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	NA	639	75 X 47 X 34	1/M7.4	

- NOTES:
1. PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.
 2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
 3. ALL CLASSROOM ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION. UNO. FIELD VERIFY PRIOR TO ORDERING.
 4. PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
 5. FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT, AND OUTSIDE AIR HOOD FOR CLASSROOMS AND ECONOMIZER WITH POWER EXHAUST FOR MPR.
 6. SCOR RATING OF RTUs SHALL BE MINIMUM OF 22KA FOR CLASSROOMS AND 66KA FOR RTU-B1.

DIFFUSER AND GRILLE SCHEDULE

MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES
CD-1	TITUS PAS	CEILING SUPPLY	24"x24"	6"Ø	0 - 110	25	0.1	1,2,3
				8"Ø	111 - 190	25	0.1	
				10"Ø	191 - 280	25	0.1	
				12"Ø	281 - 350	25	0.1	
				14"Ø	351 - 450	25	0.1	
				16"Ø	451 - 550	25	0.1	
RG-1	TITUS PAR	CEILING RETURN	24"x24"	6"Ø	0 - 100	20	0.1	1,2,3
				8"Ø	101 - 175	20	0.1	
				10"Ø	176 - 275	20	0.1	
				12"Ø	276 - 380	20	0.1	
				14"Ø	381 - 500	20	0.1	
				16"Ø	501 - 570	20	0.1	

- NOTES:
1. OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.
 2. MATCH THE BORDER TYPE TO THE CEILING.

DUCT SIZING SCHEDULE *** FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST

CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	28" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

LOCATION	AIR VELOCITY GUIDELINES (FPM)				
	NOISE CRITERIA (NC)				
	40	35	30	25	20
MAIN SUPPLY DUCT	1700	1500	1000	800	700
MAIN RETURN DUCT	1200	1000	750	600	500
DUCT TO GRILLE SUPPLY	600	500	400	300	250
DUCT TO GRILLE RETURN	600	500	400	300	250

DUCT SIZING SCHEDULE *** MEDIUM PRESSURE DUCTWORK

CFM	ROUND DUCT (IN)	RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)				
		WX4	WX6	WX8	WX10	WX12
UP TO 150	6	8	6	X	X	X
151-280	8	10	10	8	X	X
281-500	10	X	16	12	10	X
501-800	12	X	X	16	12	X
801-1200	14	X	X	22	16	14

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.



Merwin Elementary School
COVINA VALLEY USD
16125 CYPRESS ST. COVINA, CA 91722

DSA Submitted Set
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75-22605-00

MECHANICAL SCHEDULES

M8.1

A

B

C

D

E

F

1




2

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4

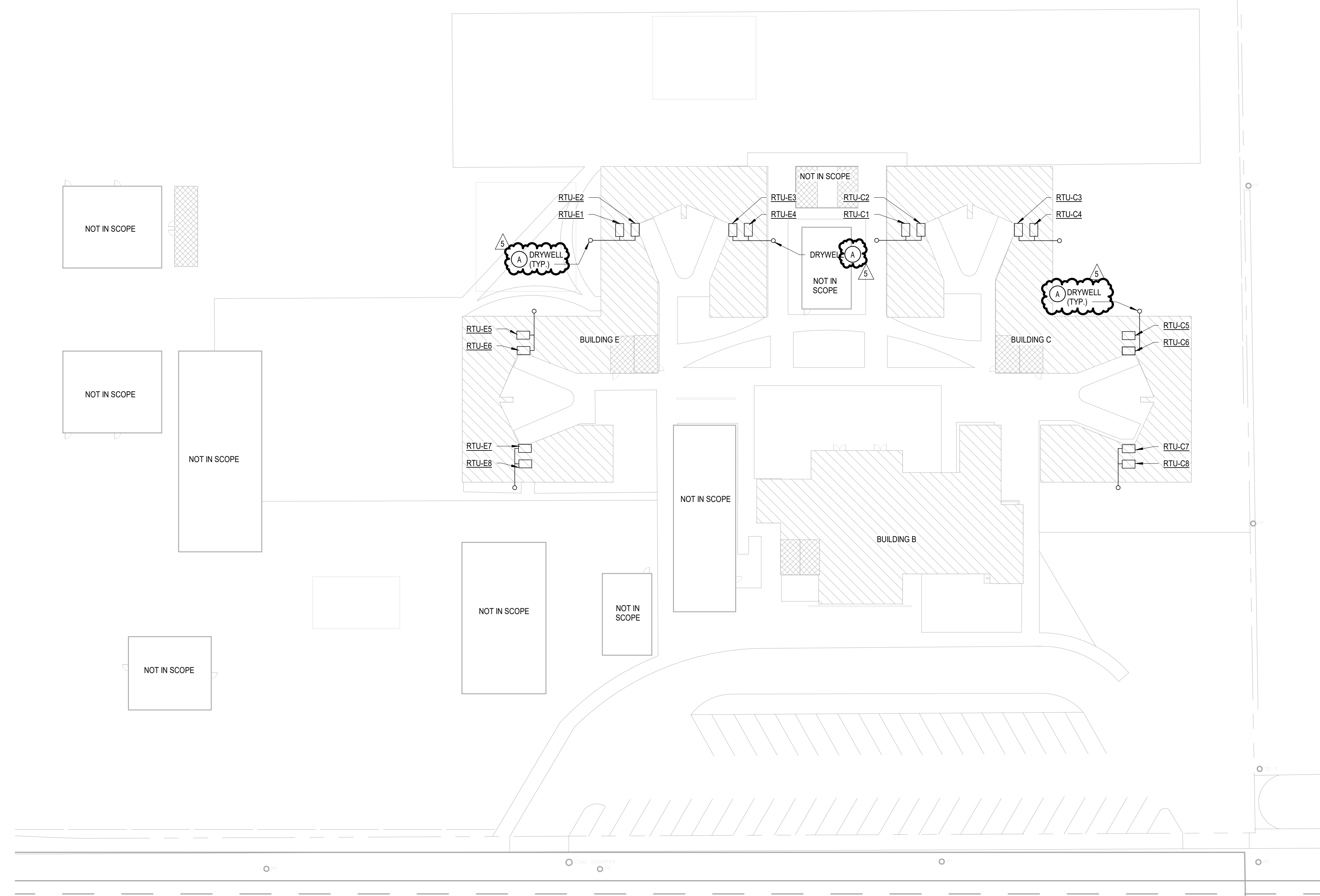
5

SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE

KEY NOTES

-  DRYWELL TYP. REFER TO DETAIL DW/21/TYP.



 **MECHANICAL PLUMBING SITE PLAN**
SCALE: 1" = 30'-0"

CYPRESS AVENUE



Merwin Elementary School
COVINA VALLEY USD
1825 CYPRESS ST. COVINA, CA 91722

DSA Submitted Set
1/13/2023
REVISIONS
5 01/13/2023

75-22605-00
MECHANICAL PLUMBING SITE PLAN

MP1.1

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A

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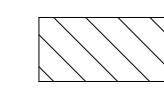
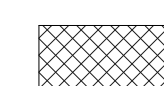
GENERAL NOTES

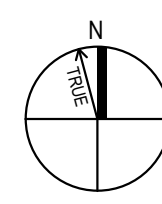
- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET ED.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CEBC 903.15.1.
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT ON THE ROOF TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. EXISTING FEEDER TO BE EXTENDED AS REQUIRED. PROVIDE ALL REQUIRED CONNECTION. FUSED DISCONNECT FOR POWER EXHAUST FAN SHALL BE PROVIDED #8 CONDUCTOR AND #10 GND CONDUCTOR TO LOAD SIDE OF MAIN DISCONNECT FOR RTU.
2	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 608 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
5	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER FOR CIRCUITING. SEE TABLE PROVIDED ON SHEET ED.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND EMS PANEL.

SITE LEGEND

-  EXISTING BUILDING - NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS USA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



OVERALL ELECTRICAL POWER PLAN

SCALE: 1/16" = 1'-0"



Merwin Elementary School
 COVINA VALLEY USD
 16125 CYPRESS ST., COVINA, CA 91722

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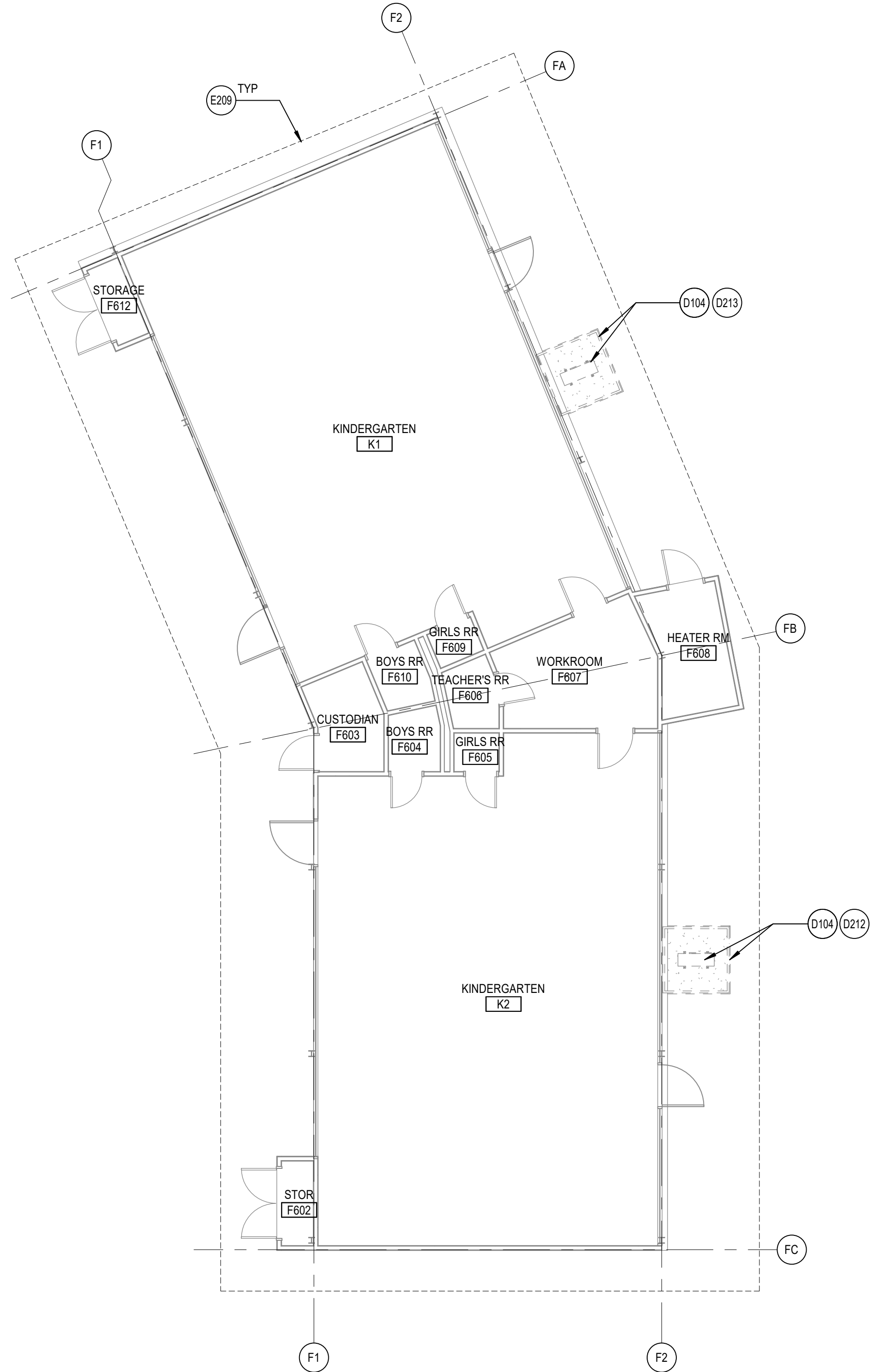
BUILDING
 ELECTRICAL
 ROOF PLAN

E2.1

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BUILDING B FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING F FLOOR PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

D104	REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF REMOVAL WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
D212	REMOVE (E) ROOF DRAINS, TYP. THROUGHOUT
D213	REMOVE (E) CHAIN LINK GUARD
E209	LINE OF (E) ROOF ABOVE SHOWN DASHED
N510	NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.

GENERAL ARCHITECTURAL NOTES

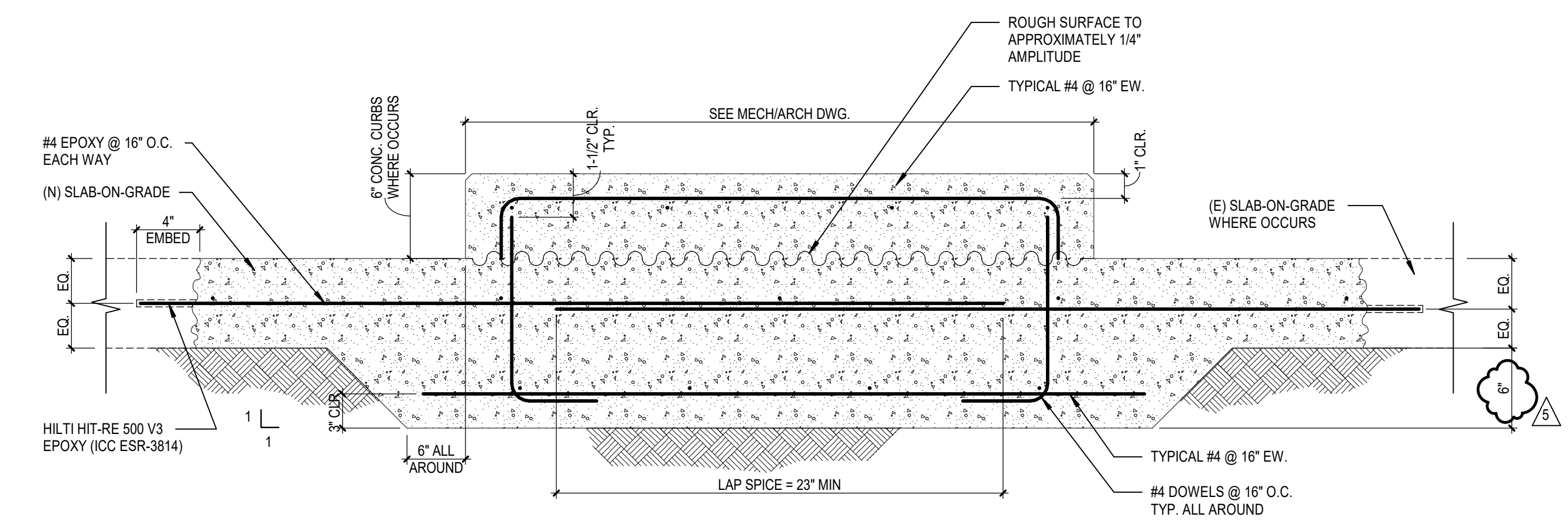
- ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
- SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

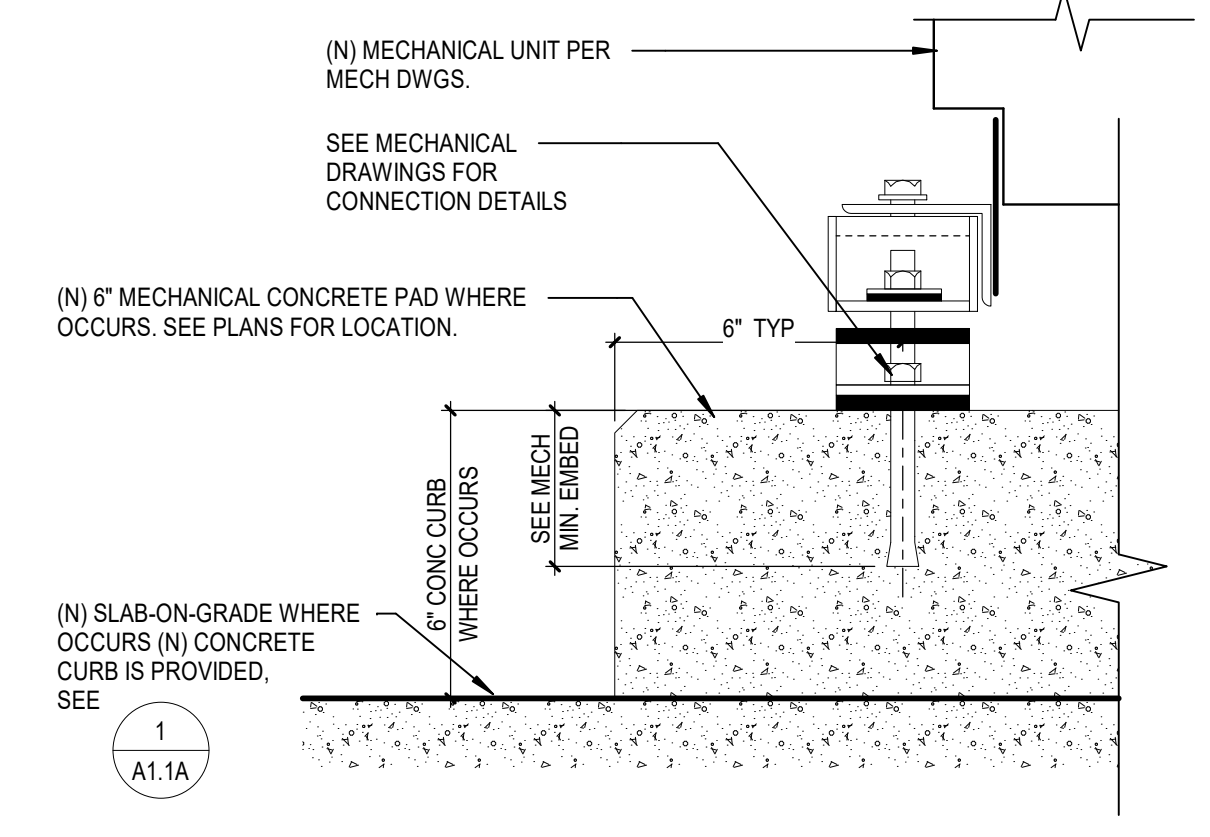
DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
- COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
- VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SCHEDULING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
- WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



1 TYPICAL MECH. EQUIPMENT ON CONCRETE PAD AT (E) SLAB-ON-GRADE
SCALE: 1/2" = 1'-0"



4 MECH. ANCHORAGE AT CONC. CURB
SCALE: 3/4" = 1'-0"



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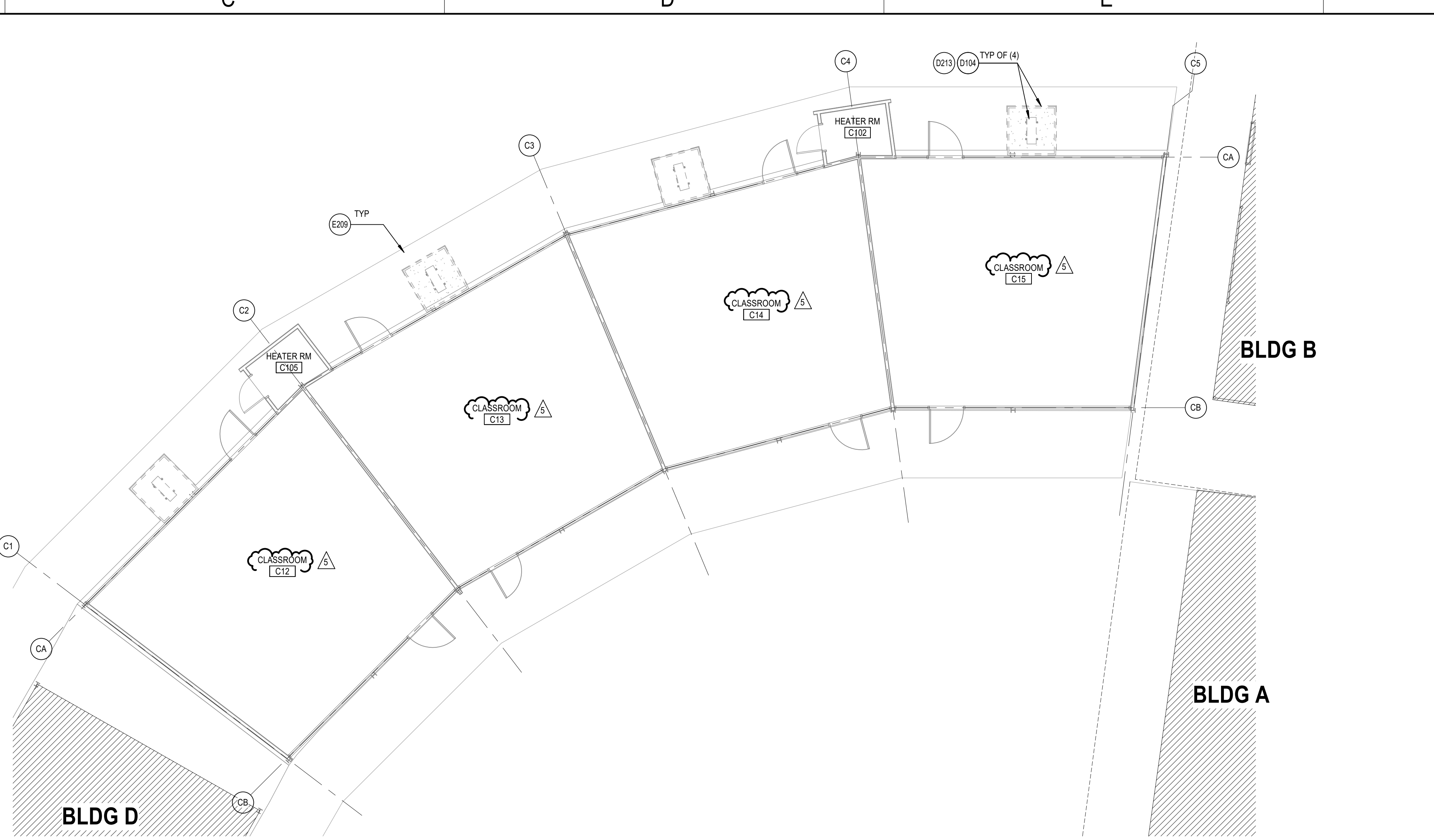
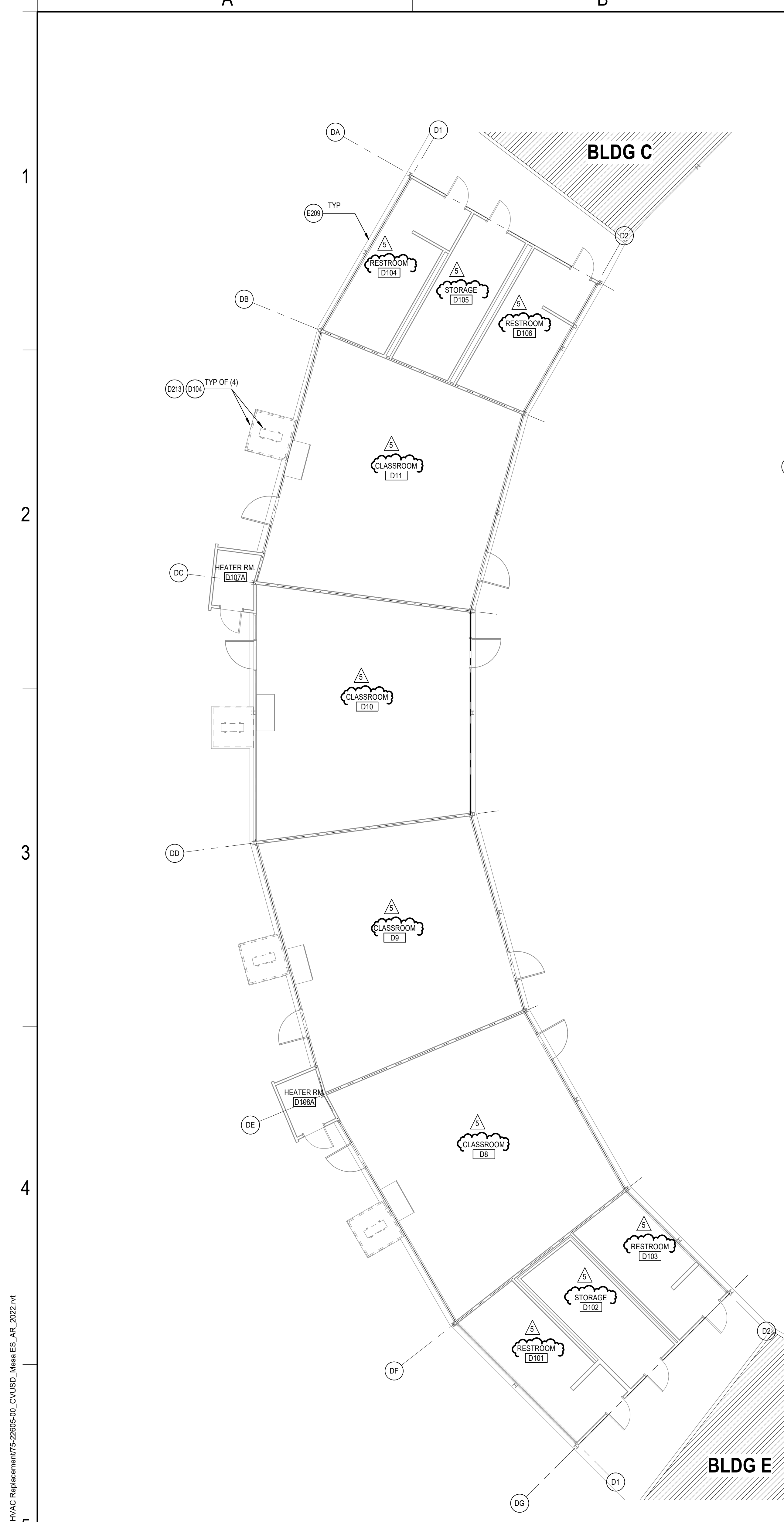
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REVISIONS
5 1/13/2023

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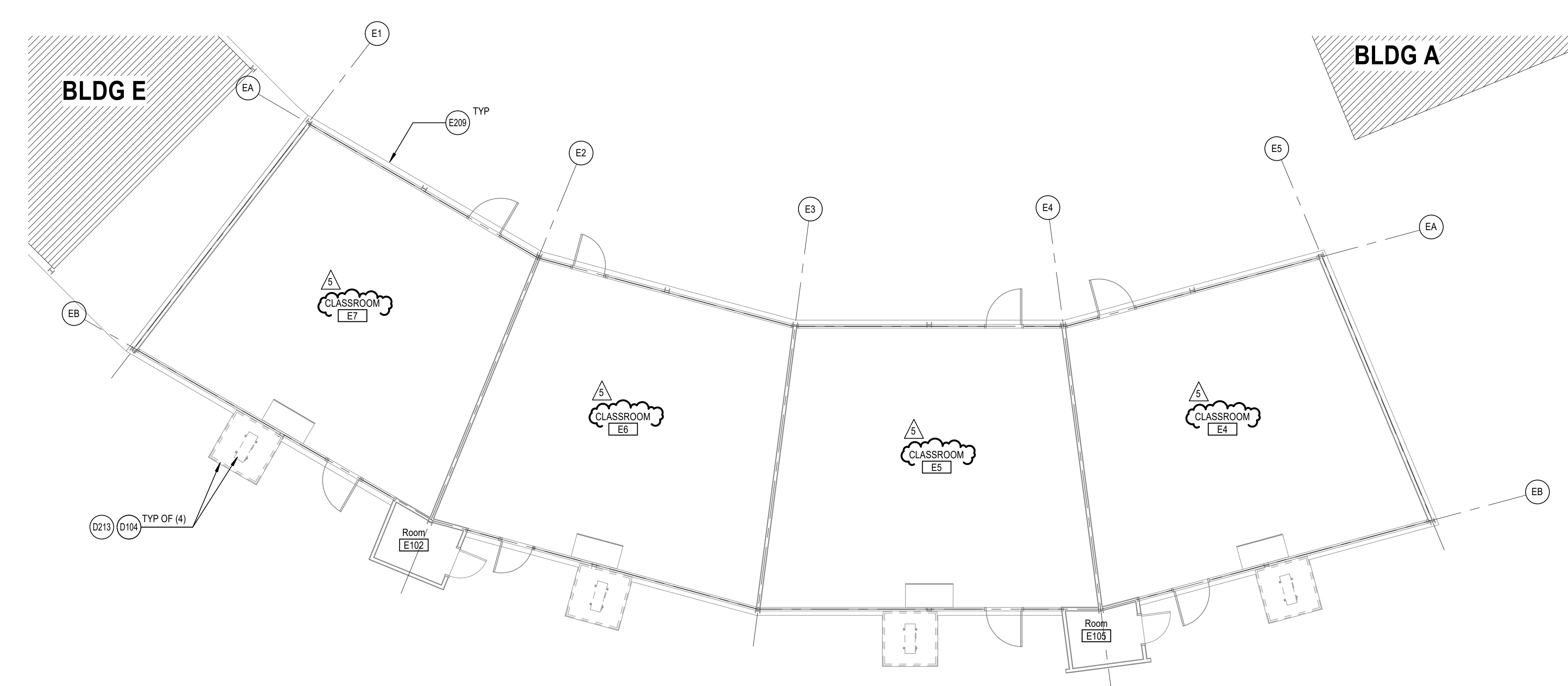
BUILDINGS B & F FLOOR PLAN

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BUILDING C FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING E FLOOR PLAN
SCALE: 1/8" = 1'-0"

BUILDING D FLOOR PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
- D213 REMOVE (E) CHAIN LINK GUARD
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
2. SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SCHEDULING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
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JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

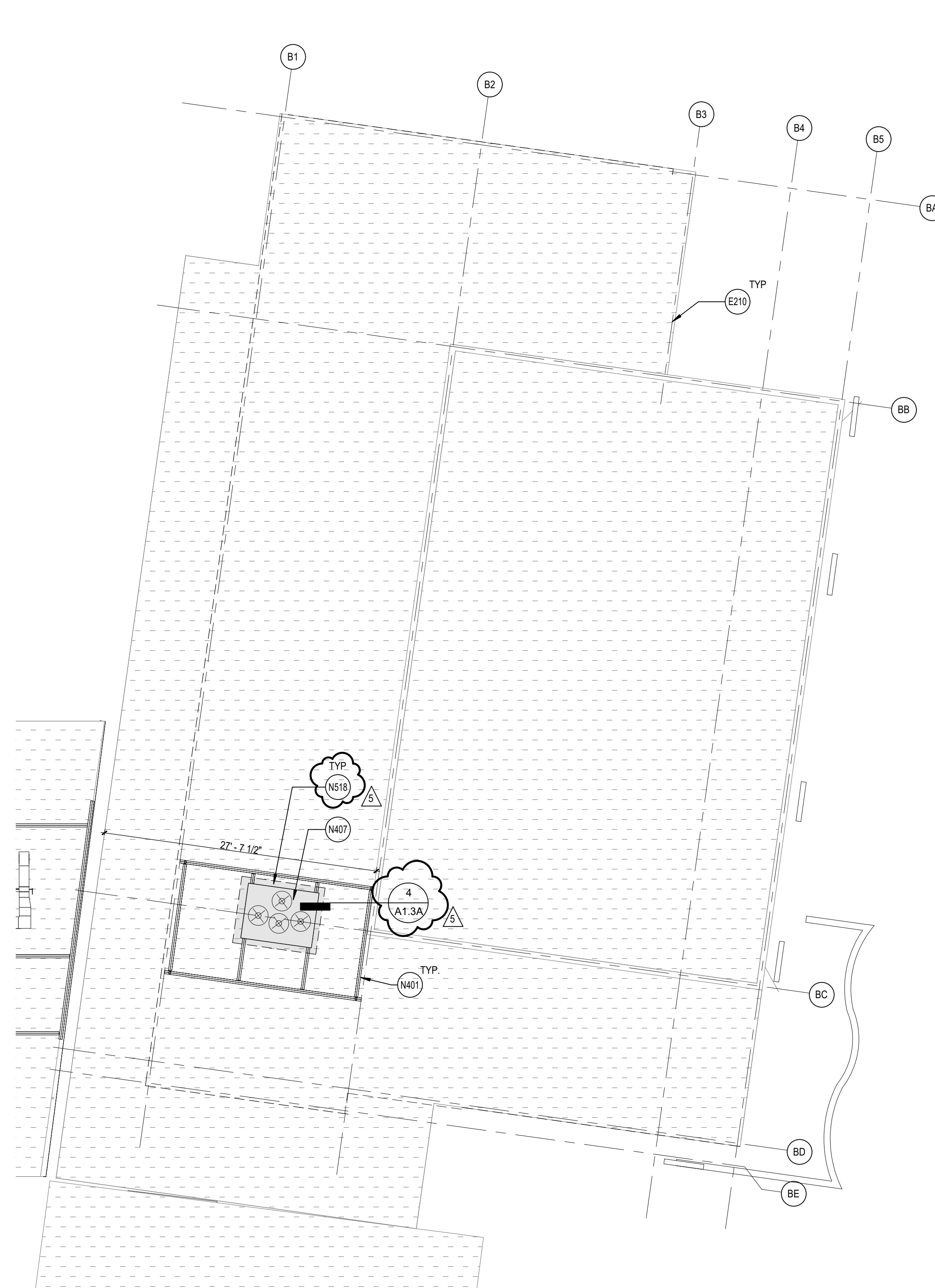
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COVID 19 - COVINA VALLEY DISTRICT HVAC REPLACEMENT
409 S. BARBARANCA ST. WEST COVINA, CA 91791

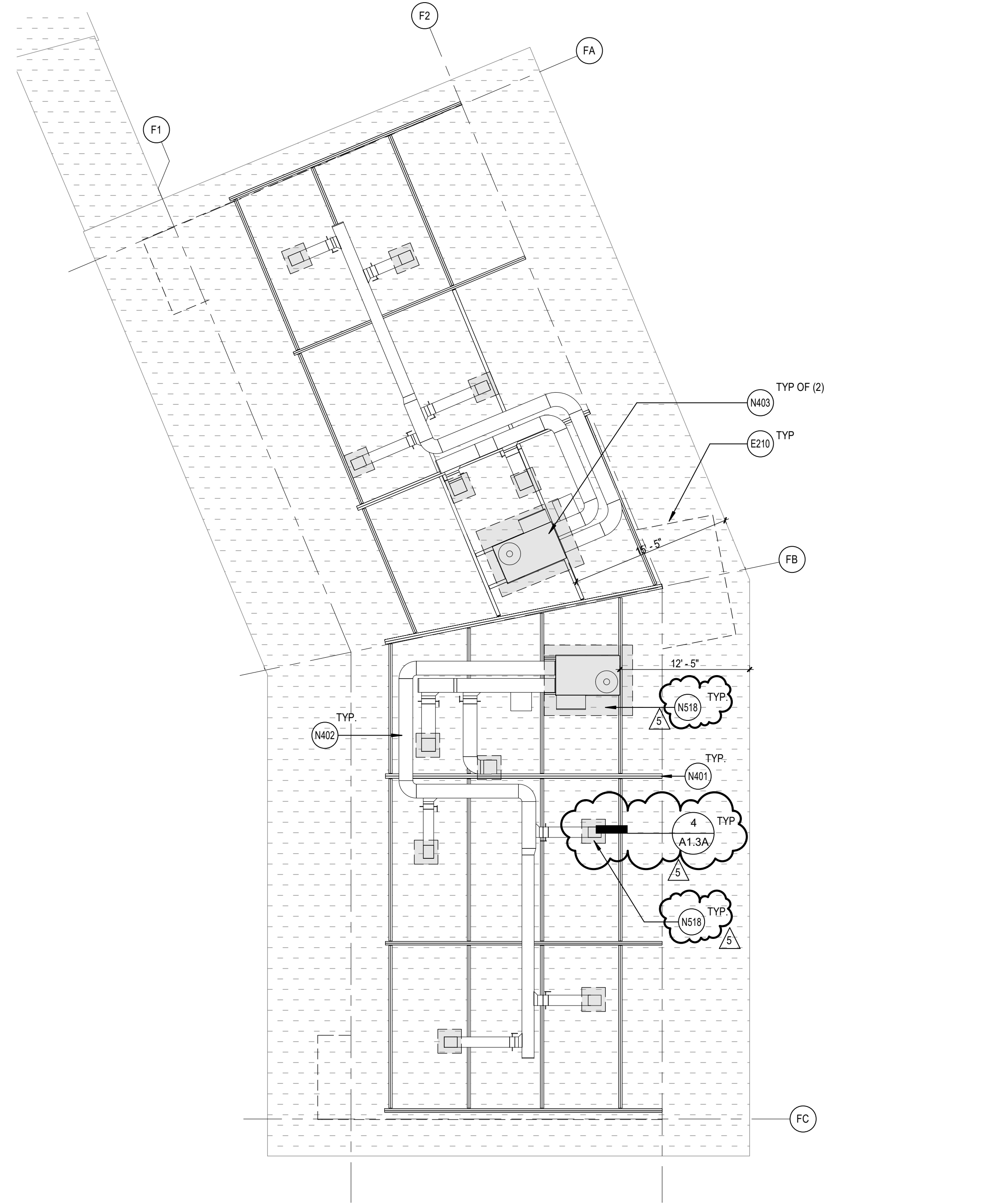
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REVISIONS
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75-22605-00
DSA A#03-122232
DSA File #: 19-25
**BUILDINGS C, D
AND E FLOOR
PLANS**

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BUILDING B ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING F ROOF PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

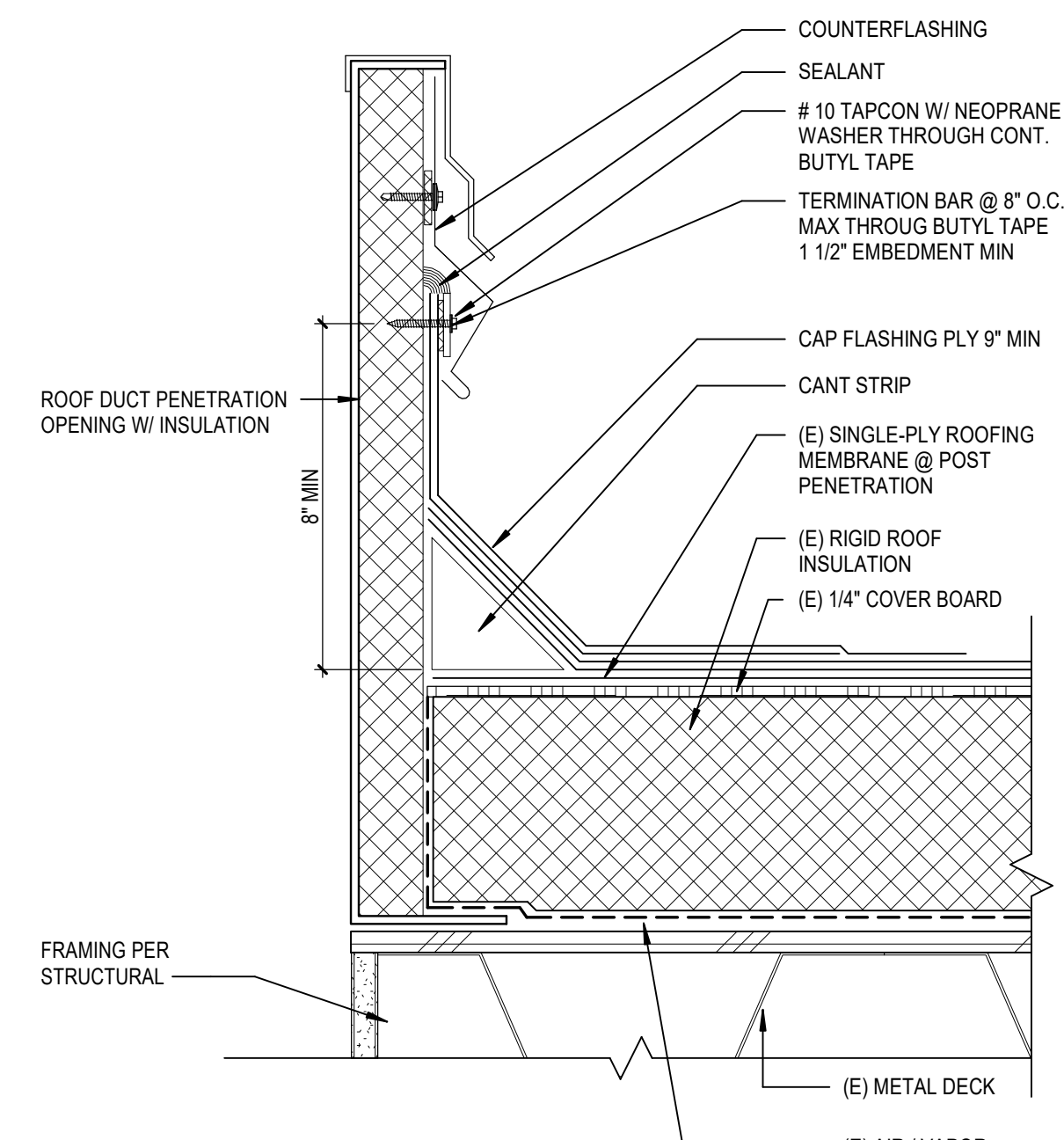
- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
- N401 NEW STRUCTURAL POST AND BEAM SUPPORT FRAMING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
- N402 NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- N403 (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
- N407 (N) MECHANICAL UNITS ATTACHED TO STRUCTURAL SUPPORTS. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR PENETRATION LOCATION
- N518 (N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

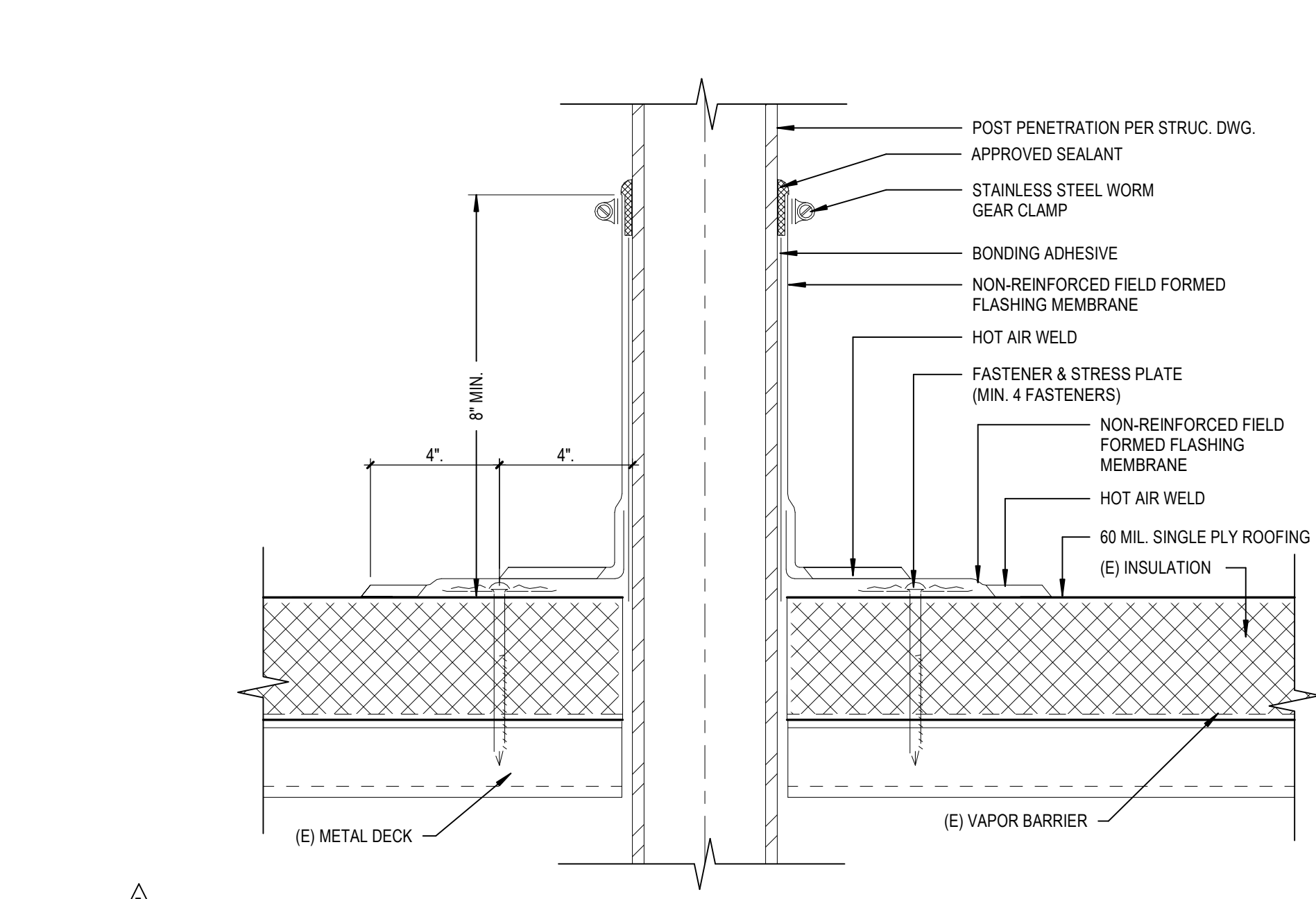
- A. COORDINATE THE SIZE AND LOCATION OF ROOF DUCT PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
- B. COORDINATE (N) DRAINS, CURBS, SUPPORTS FOR MECHANICAL AND STRUCTURAL DRAWINGS.

DEMOLITION GENERAL NOTES

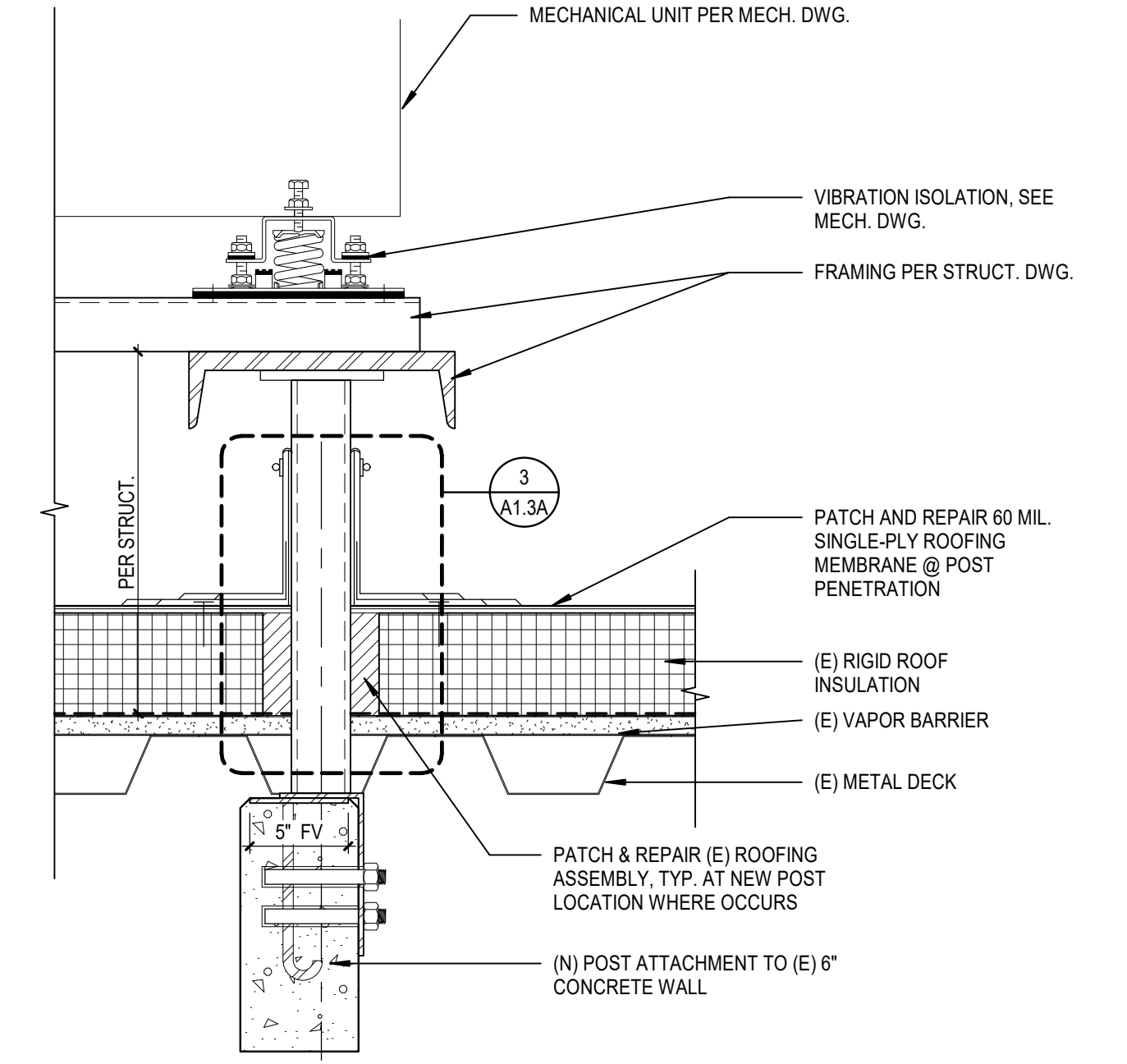
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, FLUING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SCHEDULING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



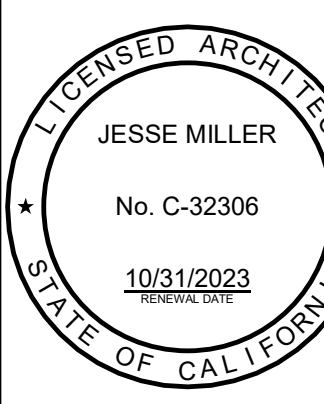
4 TYPICAL MECH. DUCT PENETRATION FLASHING
SCALE: 3" = 1'-0"



3 FIELD FABRICATED PIPE FLASHING
SCALE: 1/2" = 1'-0"



5 MECH UNIT/DUCT SUPPORT @ STEEL BEAM
SCALE: 1 1/2" = 1'-0"



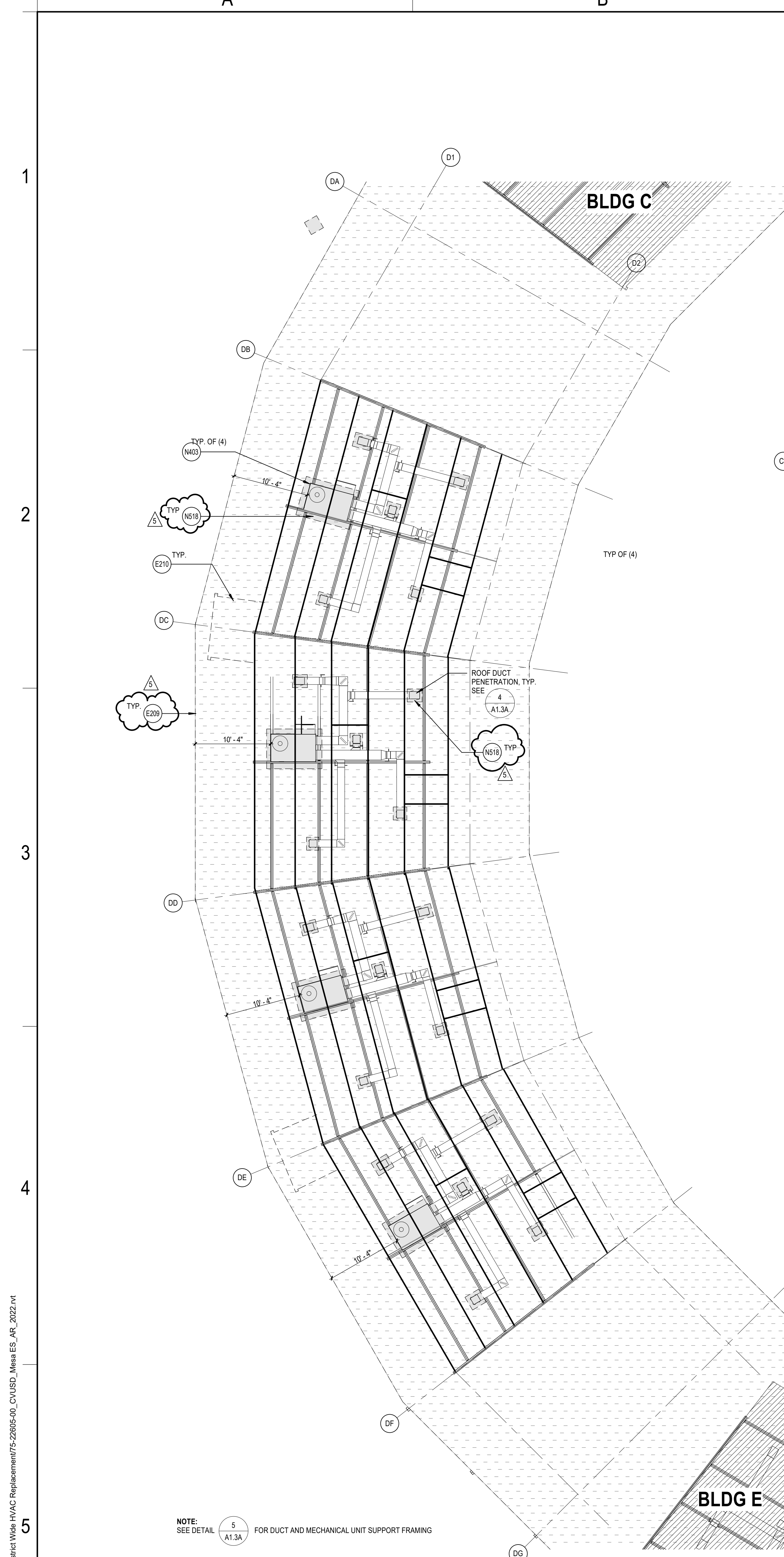
MESA ELEMENTARY SCHOOL
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100% CONSTRUCTION DOCUMENTS
05/05/2022
5 REVISIONS 1/13/2023

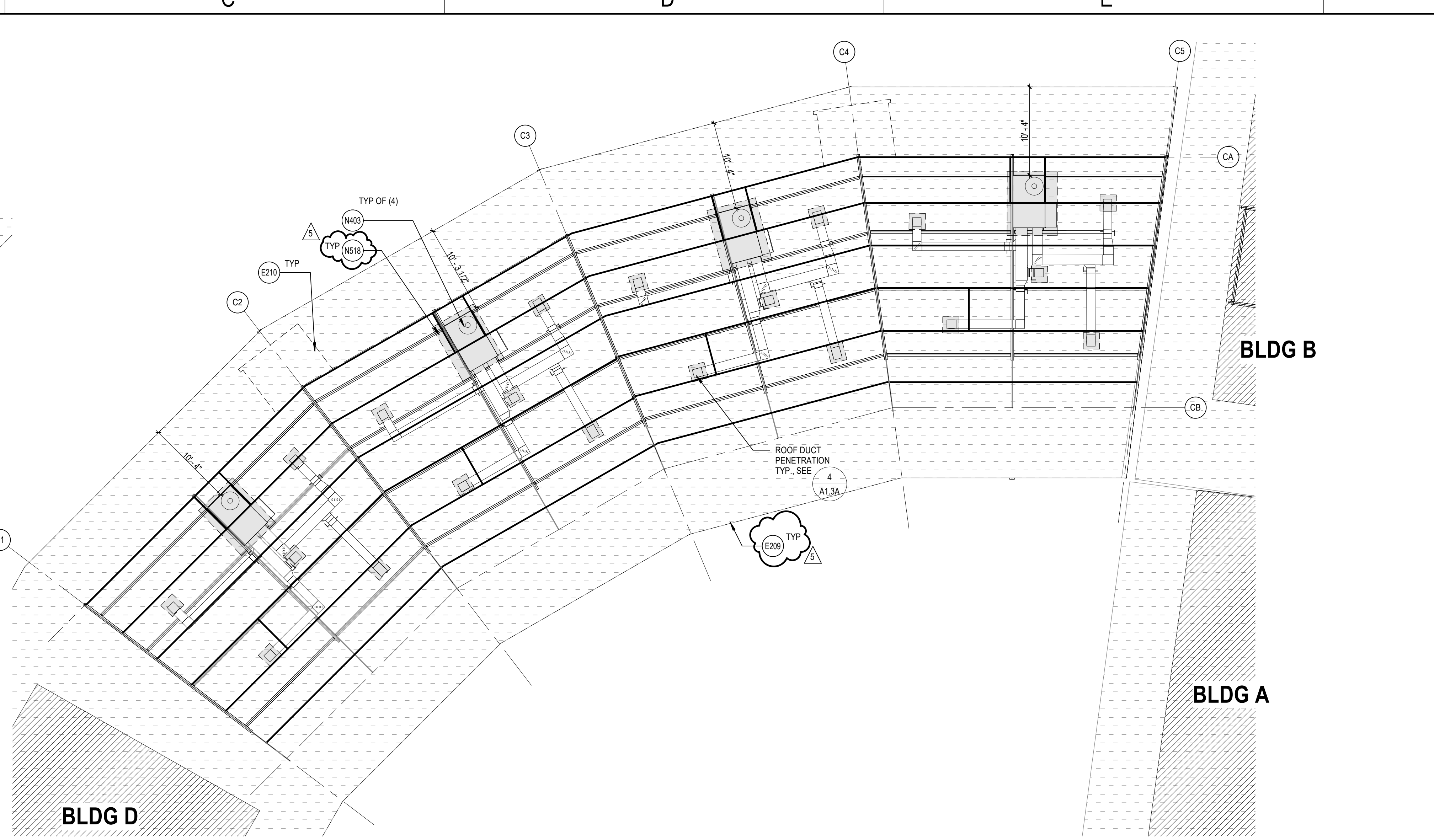
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DSA A#03-122232
DSA File #: 19-25
BUILDINGS B & F ROOF PLANS

A1.3A

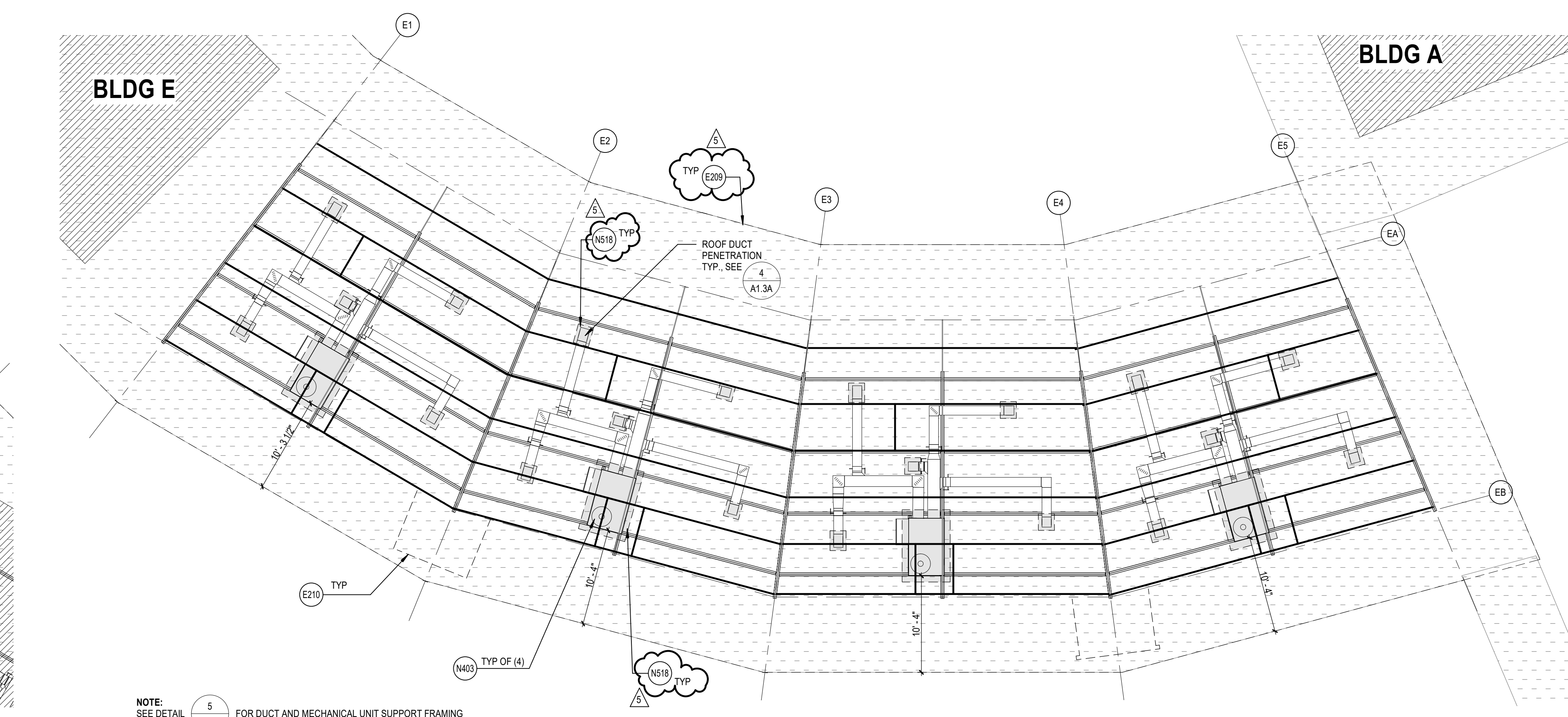
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BUILDING D ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING C ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING E ROOF PLAN
SCALE: 1/8" = 1'-0"

- REFERENCE KEYNOTES**
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
 - N403 LINE OF (E) BLDG BELOW SHOWN DASHED
 - (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
 - (N) ROOF PATCHING IN AREA OF WORK

- ROOF PLAN GENERAL NOTES**
- A. COORDINATE THE SIZE AND LOCATION OF ROOF DUCT PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
 - B. COORDINATE (N) DRAINS, CURBS, SUPPORTS FOR MECHANICAL AND STRUCTURAL DRAWINGS.

- DEMOLITION GENERAL NOTES**
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUCCO WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCHFINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DLR Group
© DLR Group

ARCHITECT
JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

MESA ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
409 S. BARBARCA ST. WEST COVINA, CA 91791

100%
CONSTRUCTION
DOCUMENTS
05/05/2022
REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-122232
DSA File #: 19-25
BUILDINGS C, D
AND E ROOF
PLAN

A1.3B

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REFERENCE KEYNOTES

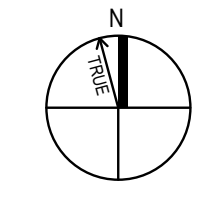
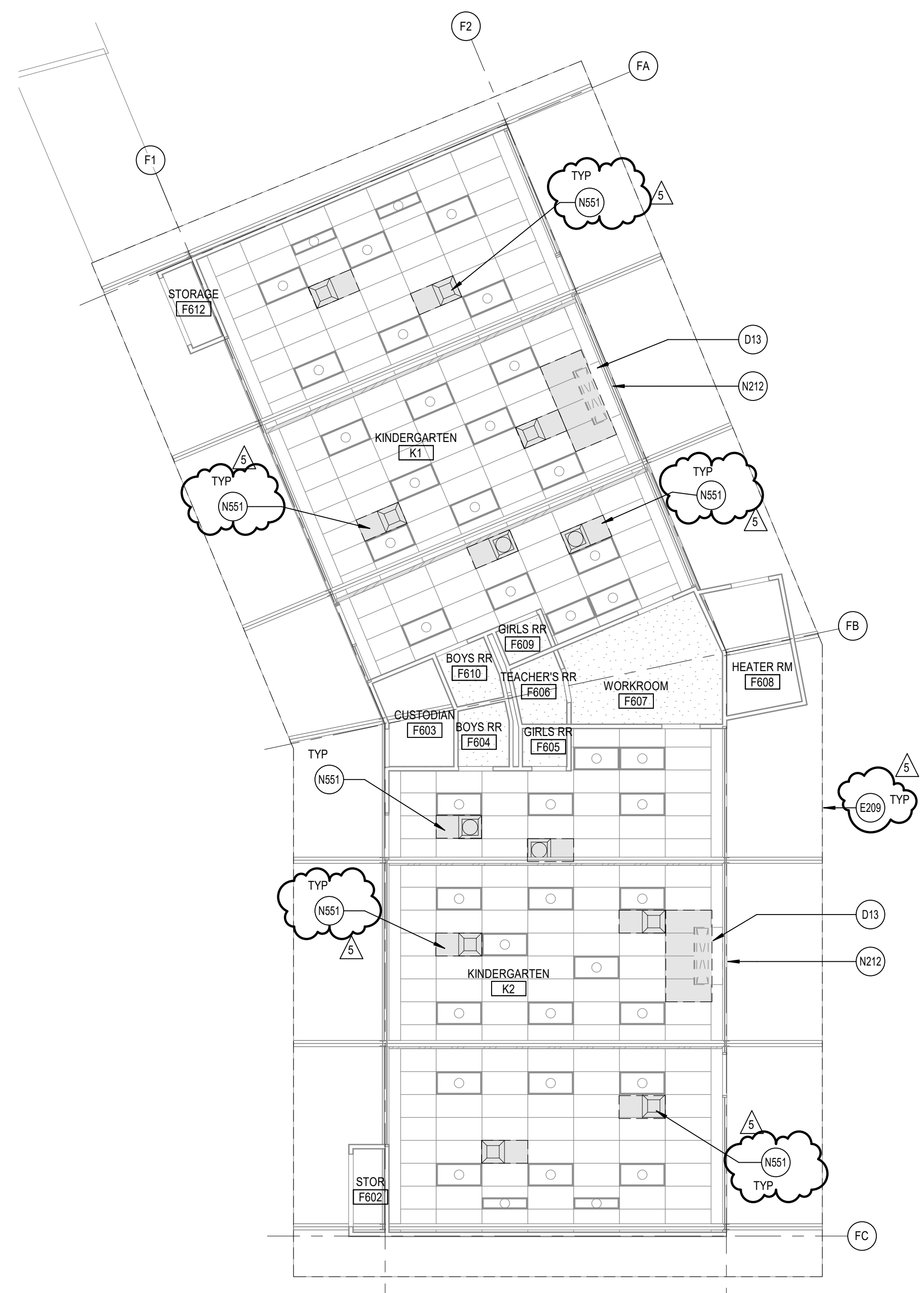
- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
- N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT
- N551 REMOVE AND REPLACE EXISTING 2X4 ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS
- B. ALL CEILING GRID/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TIES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

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BUILDING F REFLECTED CEILING PLAN

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

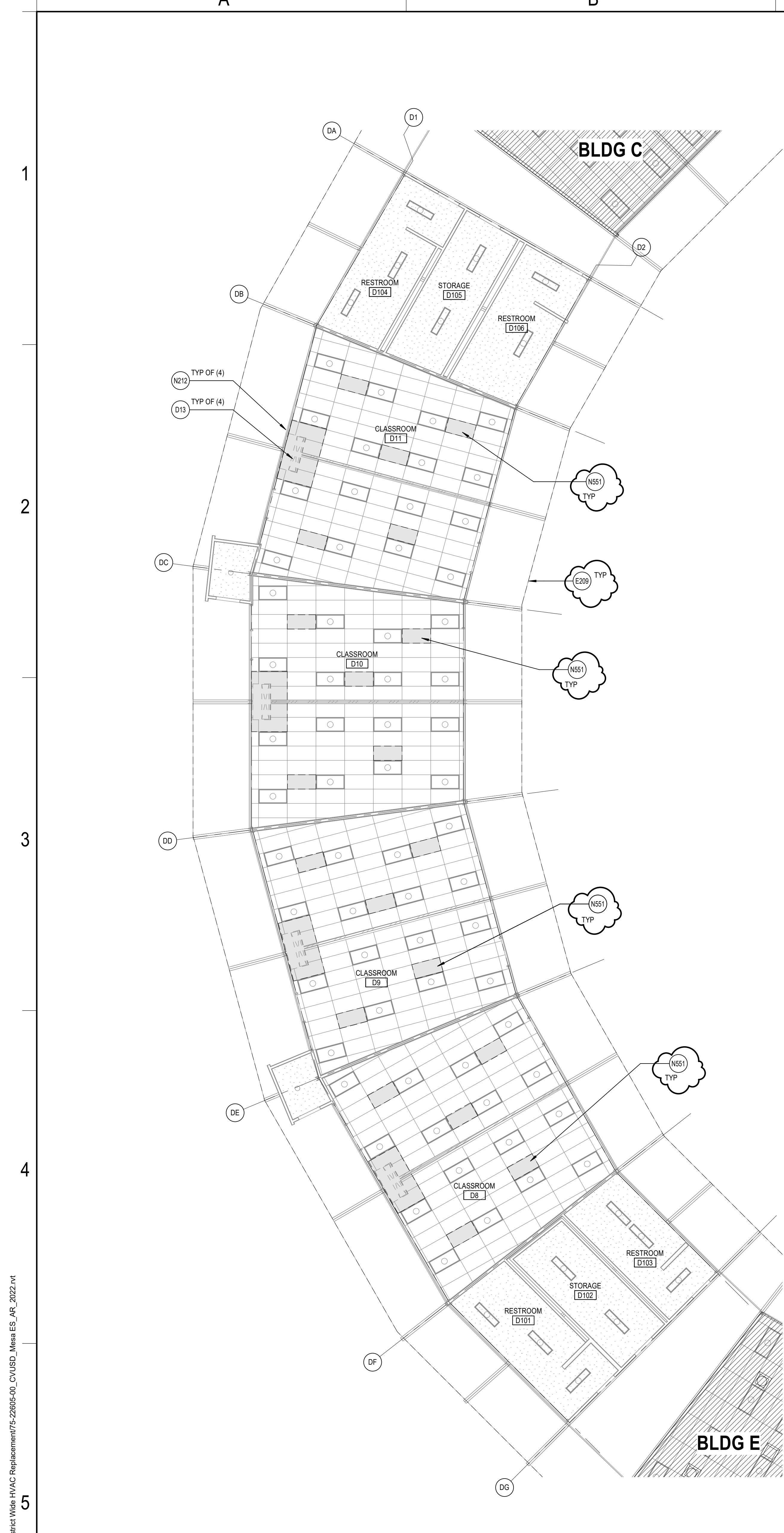


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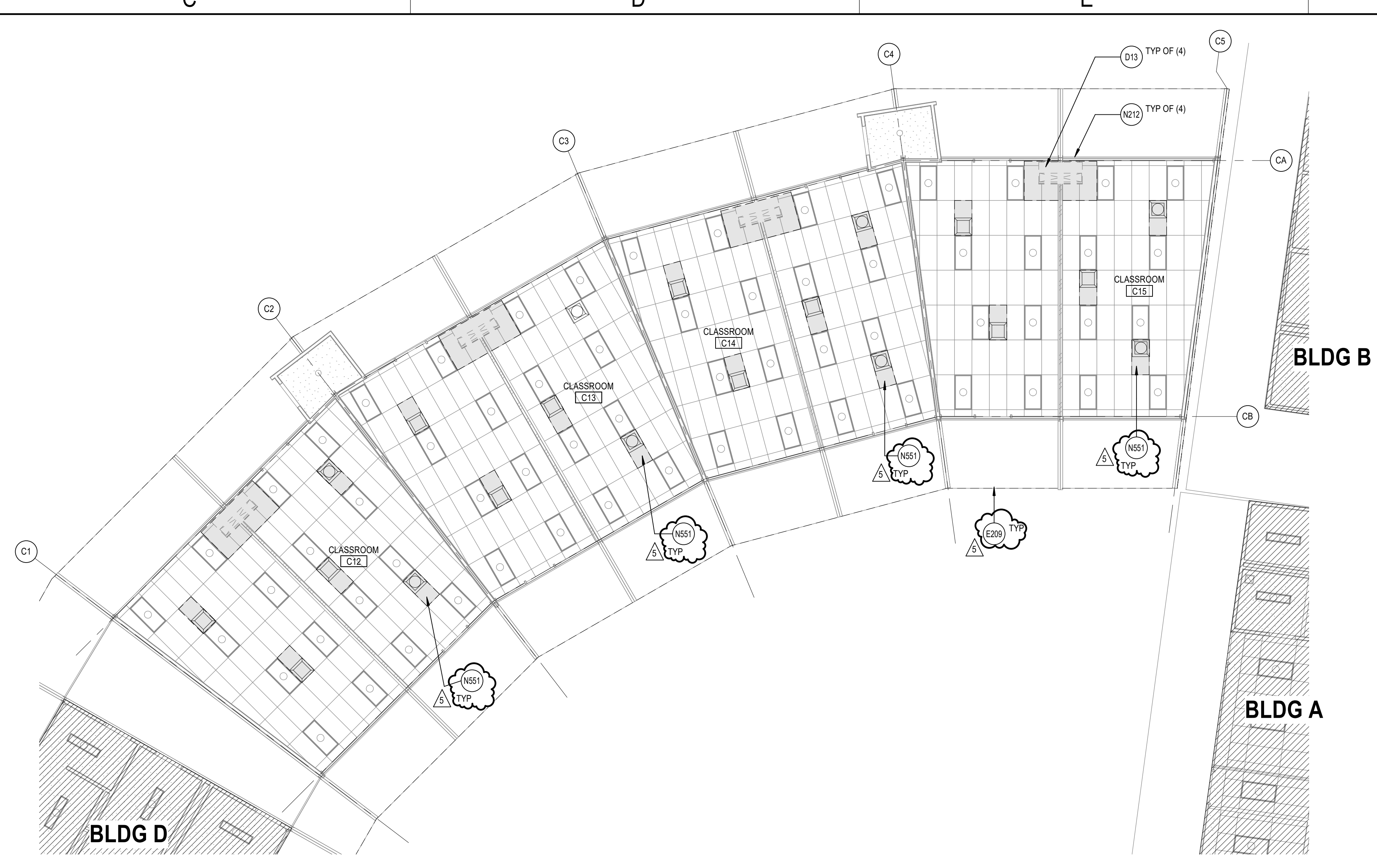
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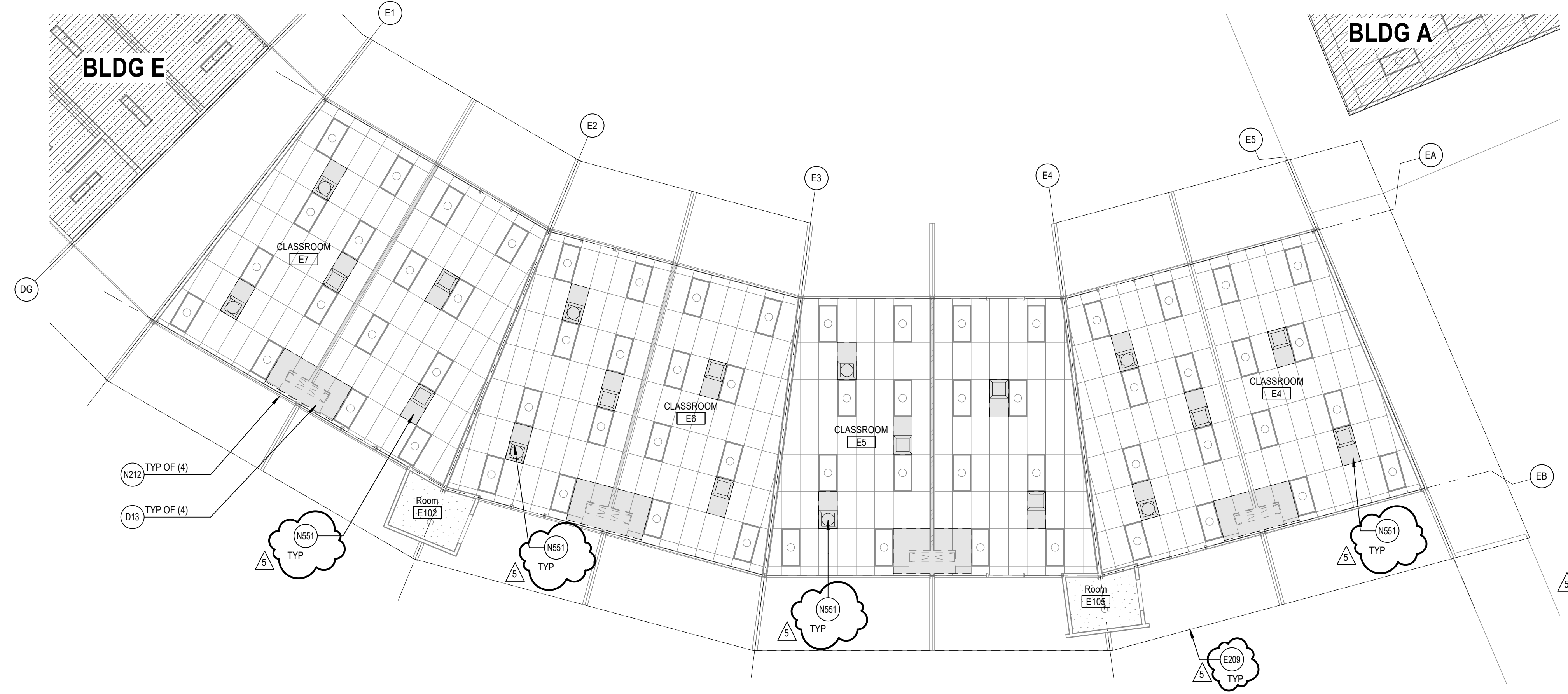
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BUILDING D REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



BUILDING C REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



BUILDING E REFLECTED CEILING PLAN
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REFERENCE KEYNOTES

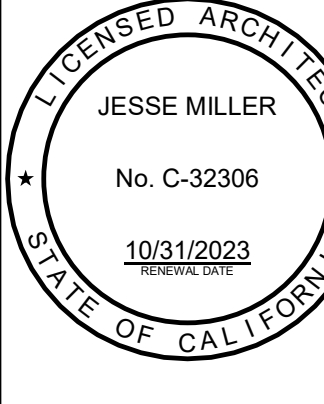
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- E200 LINE OF (E) ROOF ABOVE SHOWN DASHED
- N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT NEW CONDENSING UNIT PER MECHANICAL; REFERENCE M2.02 AND M2.04 AND ARCHITECTURAL DETAILS 15 AND 20A/20B/20C
- N551 REMOVE AND REPLACE EXISTING 2'x4' ACT CEILING TILES AS REQUIRED TO INSTALL NEW DIFFUSERS, TYP. AND/OR REPLACE DAMAGED TILES.

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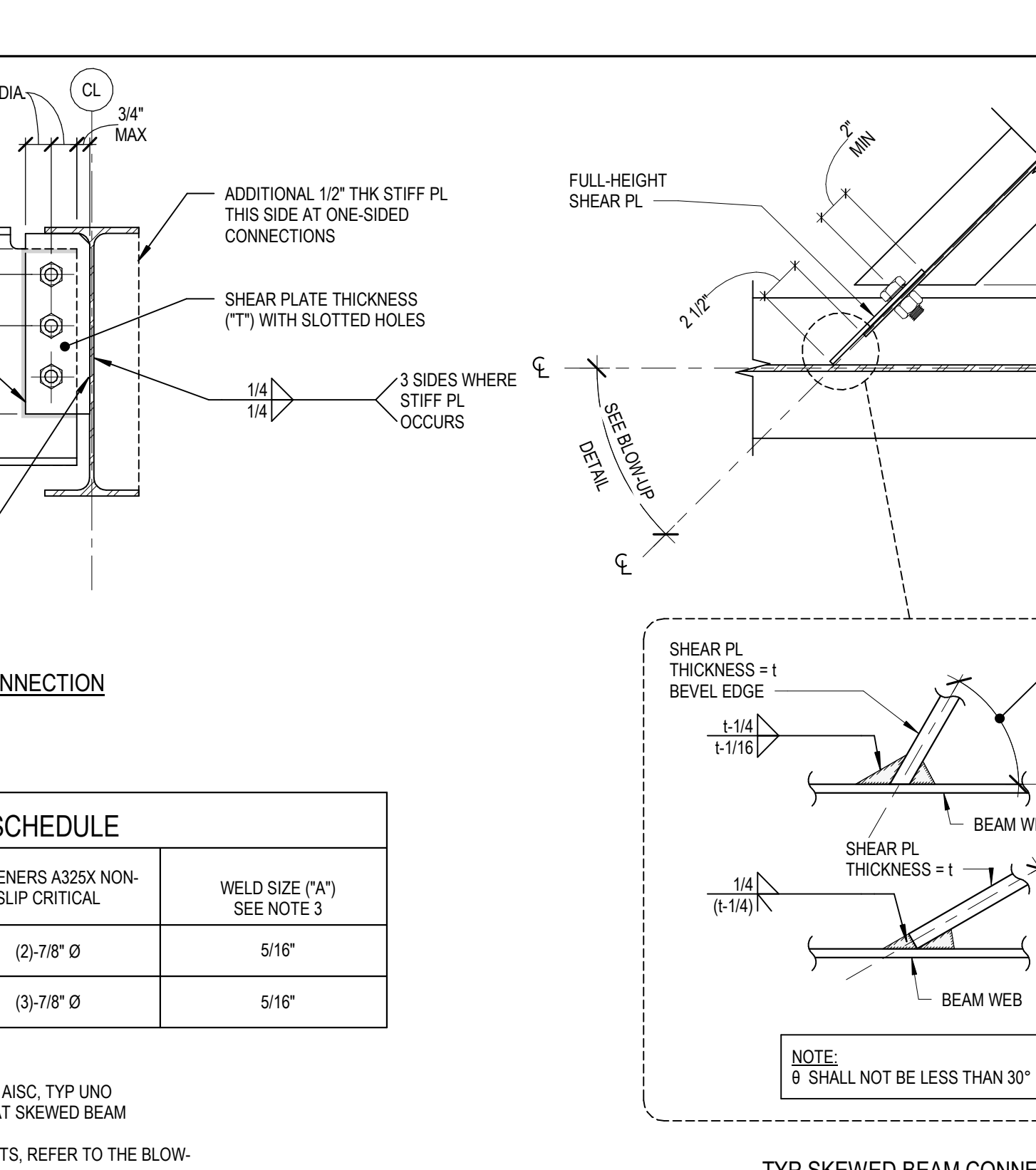
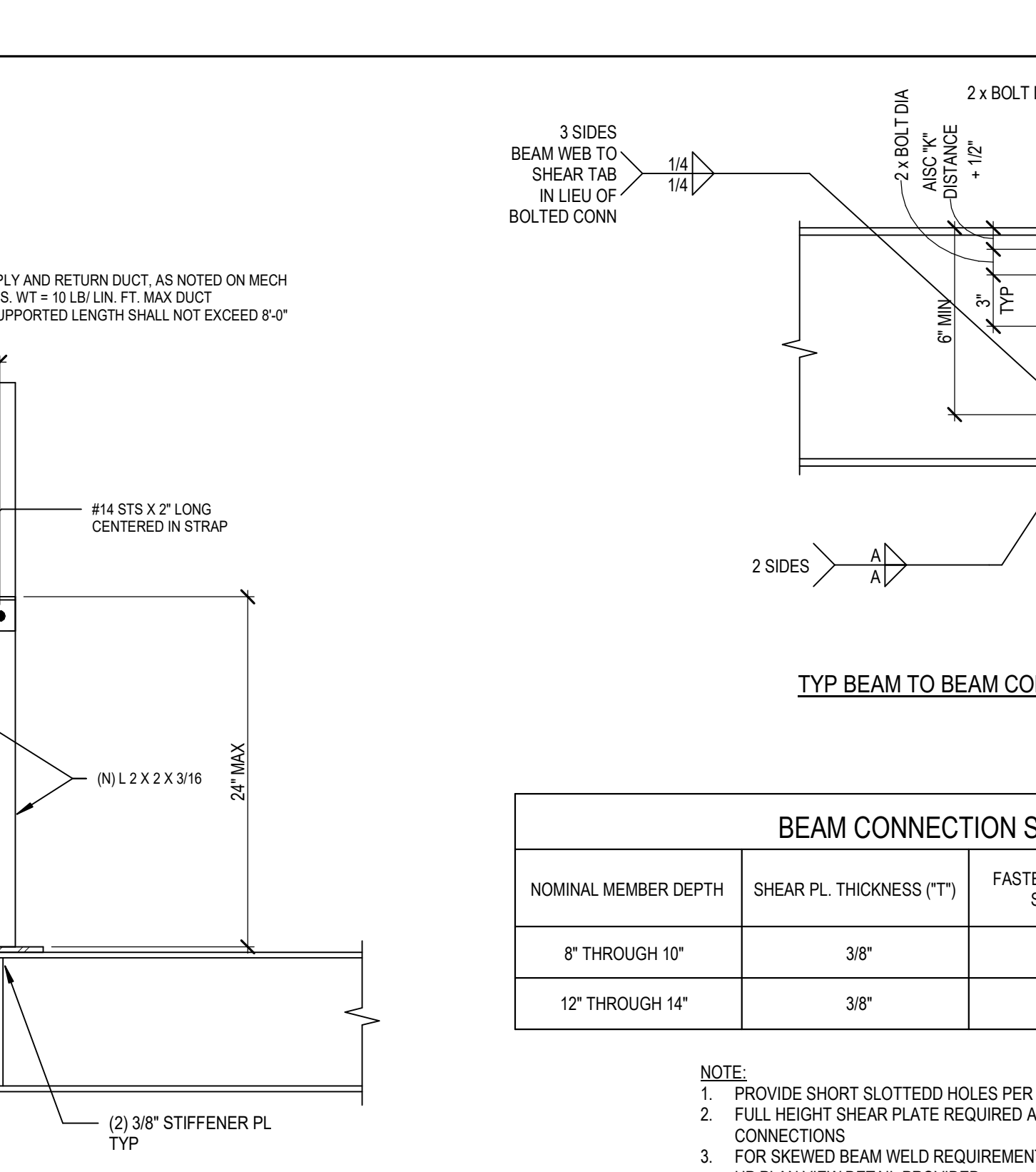
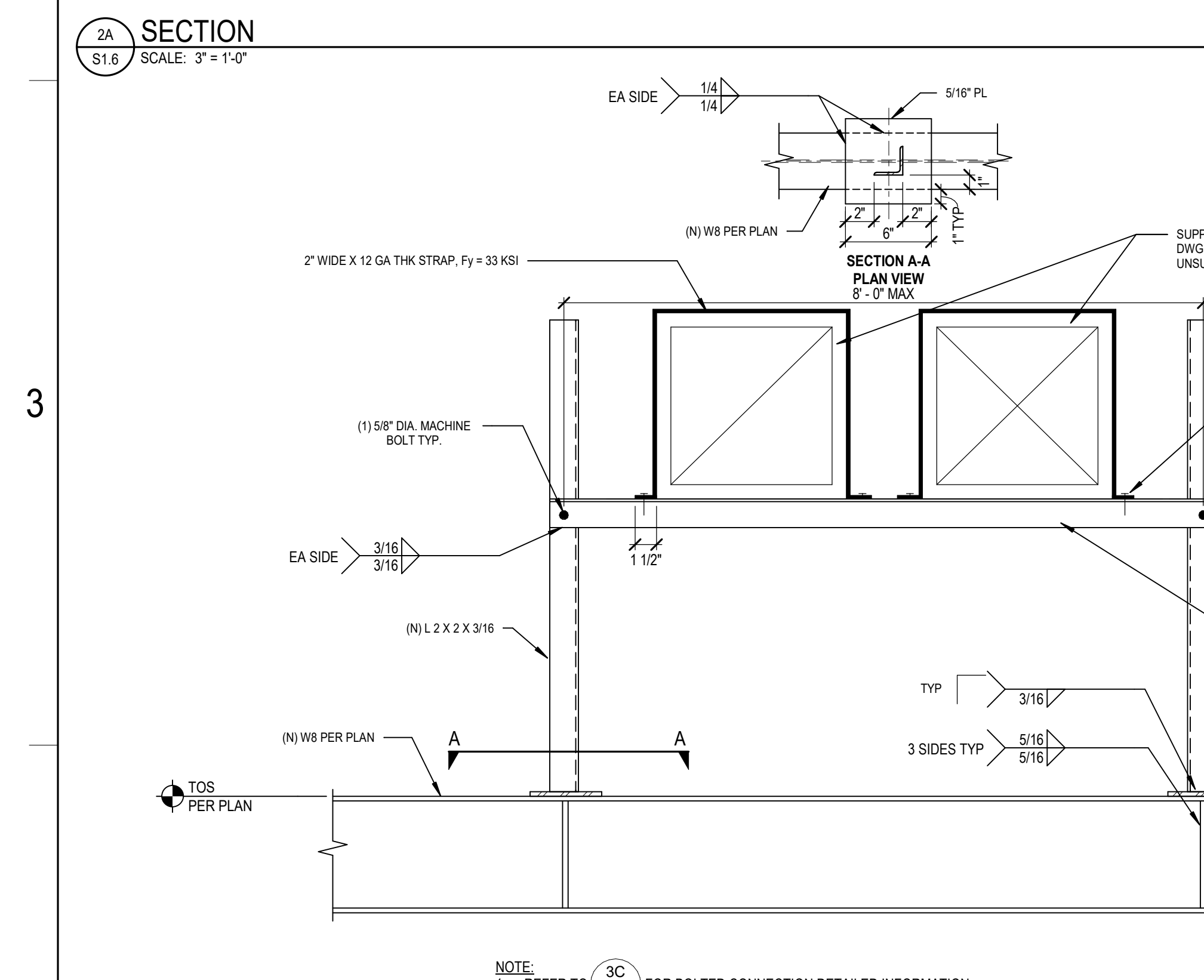
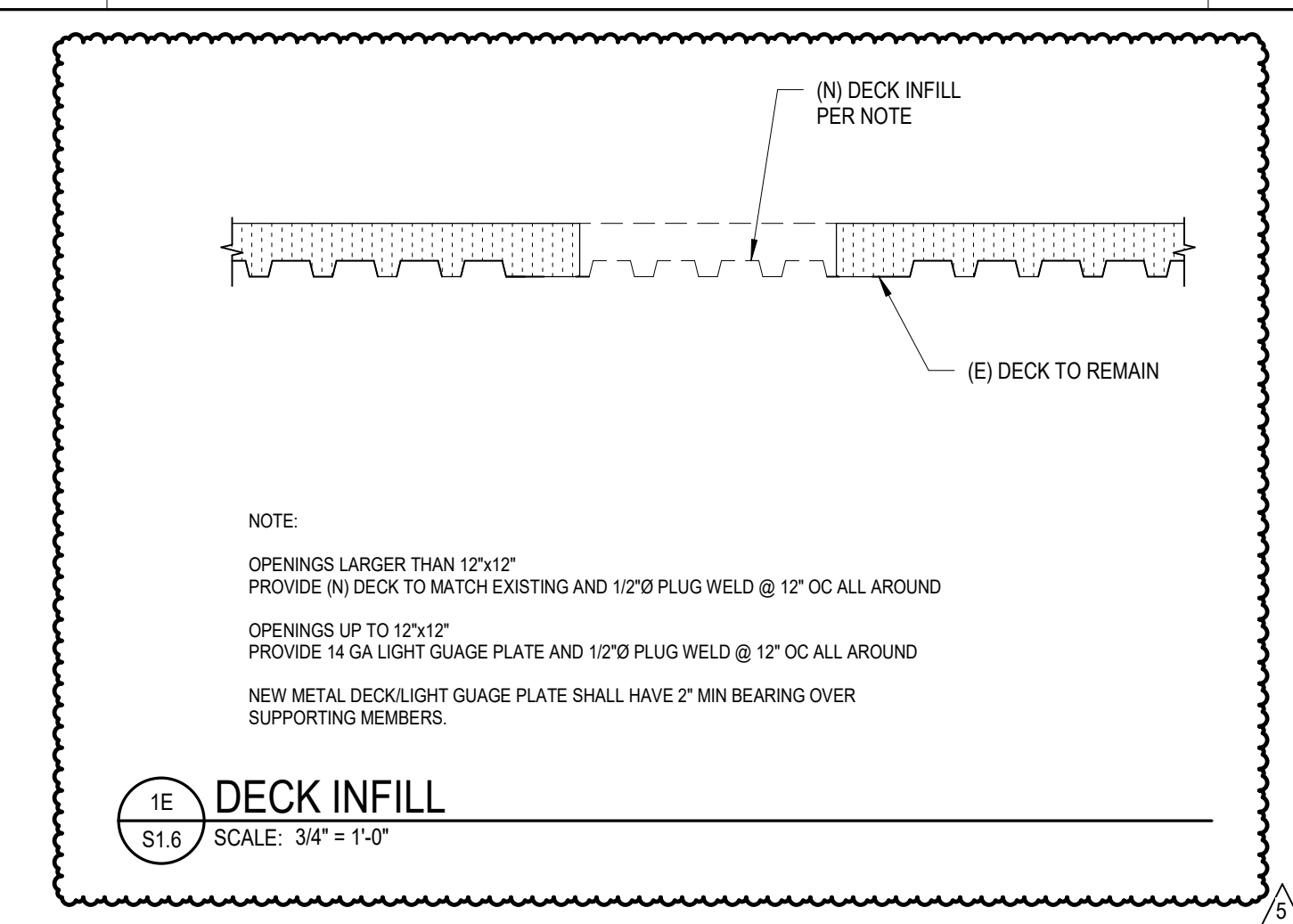
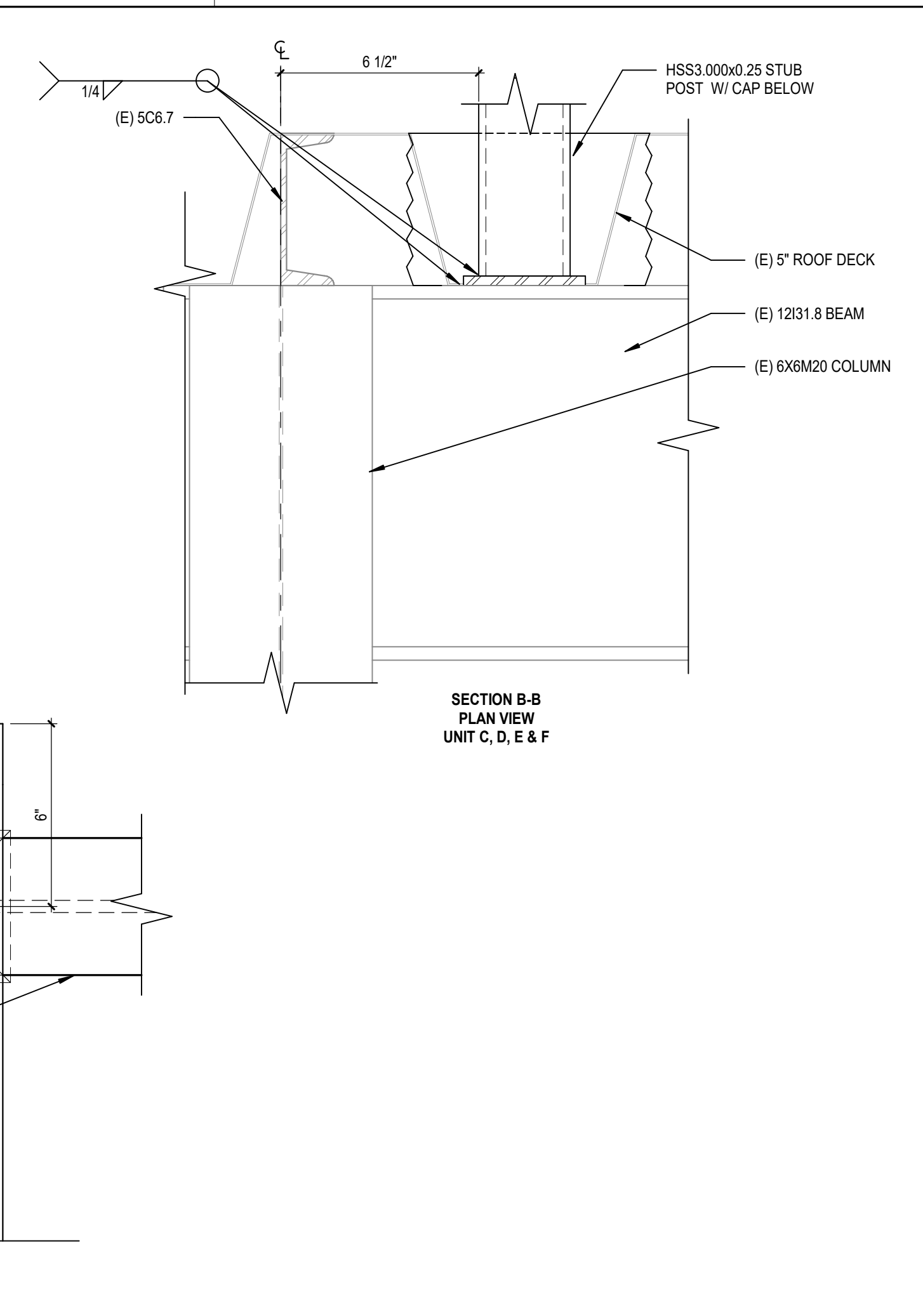
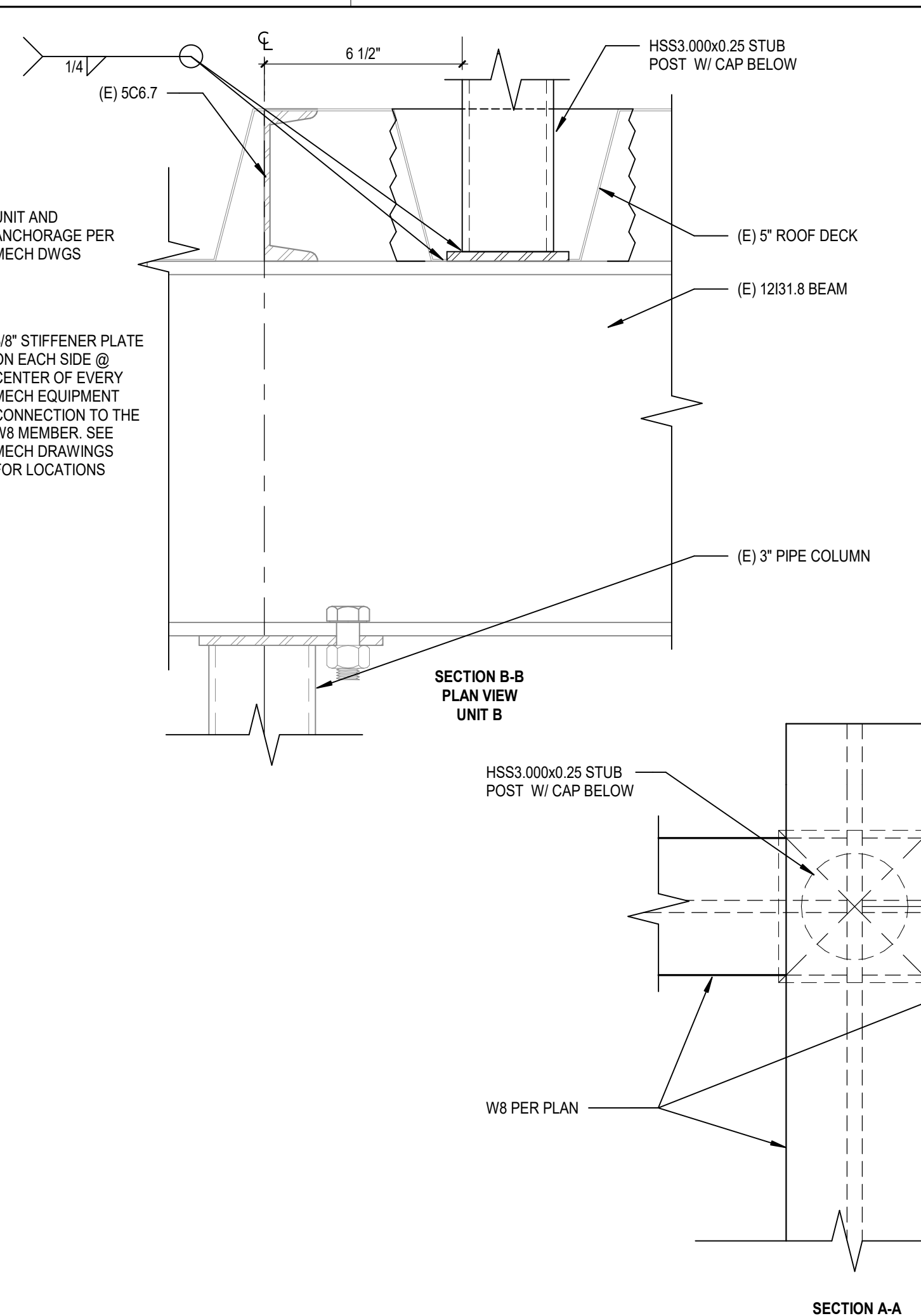
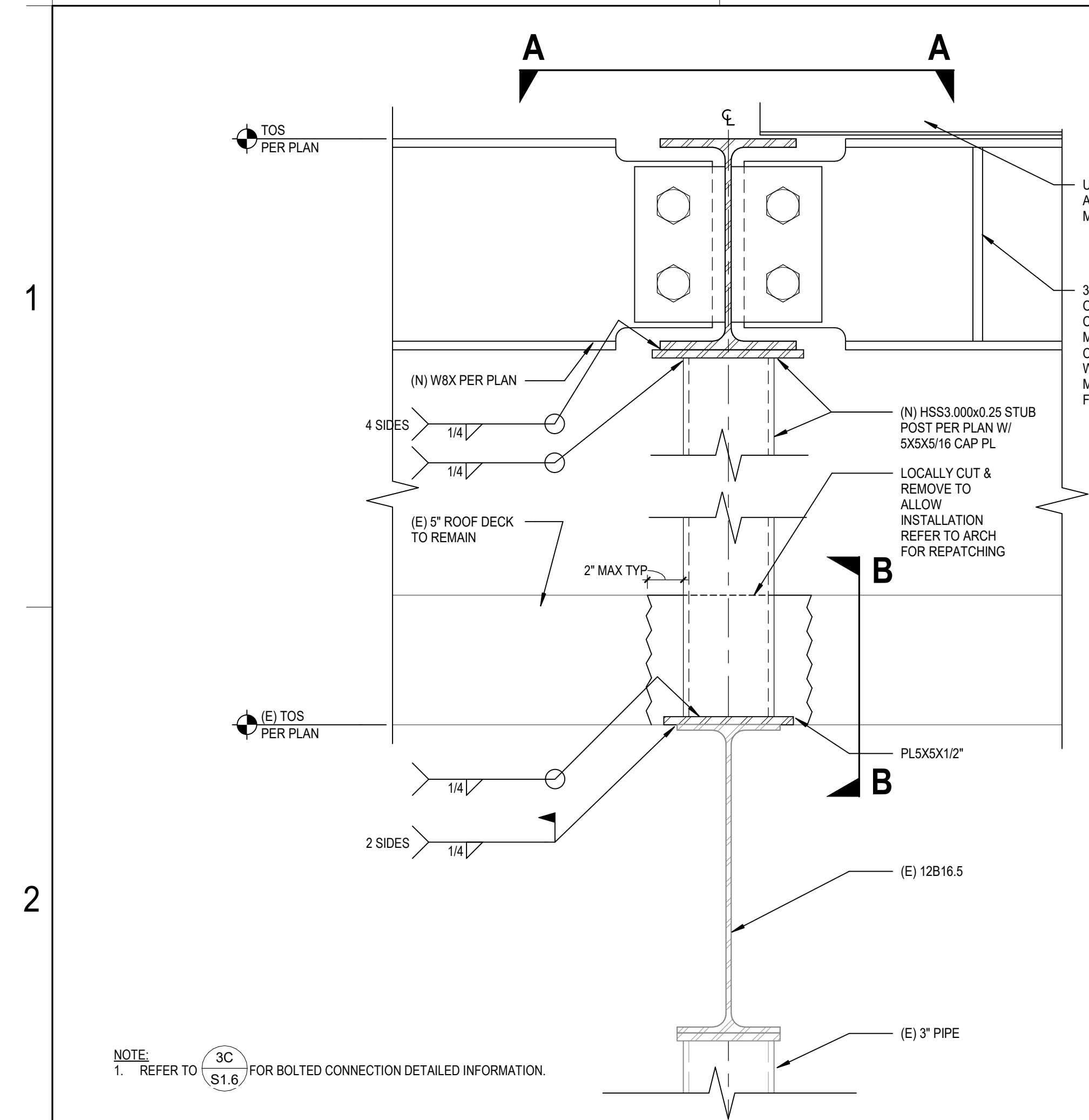
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75-22605-00
DSA A#03-122232
DSA File #: 19-25
BUILDINGS C, D AND E REFLECTED CEILING PLAN

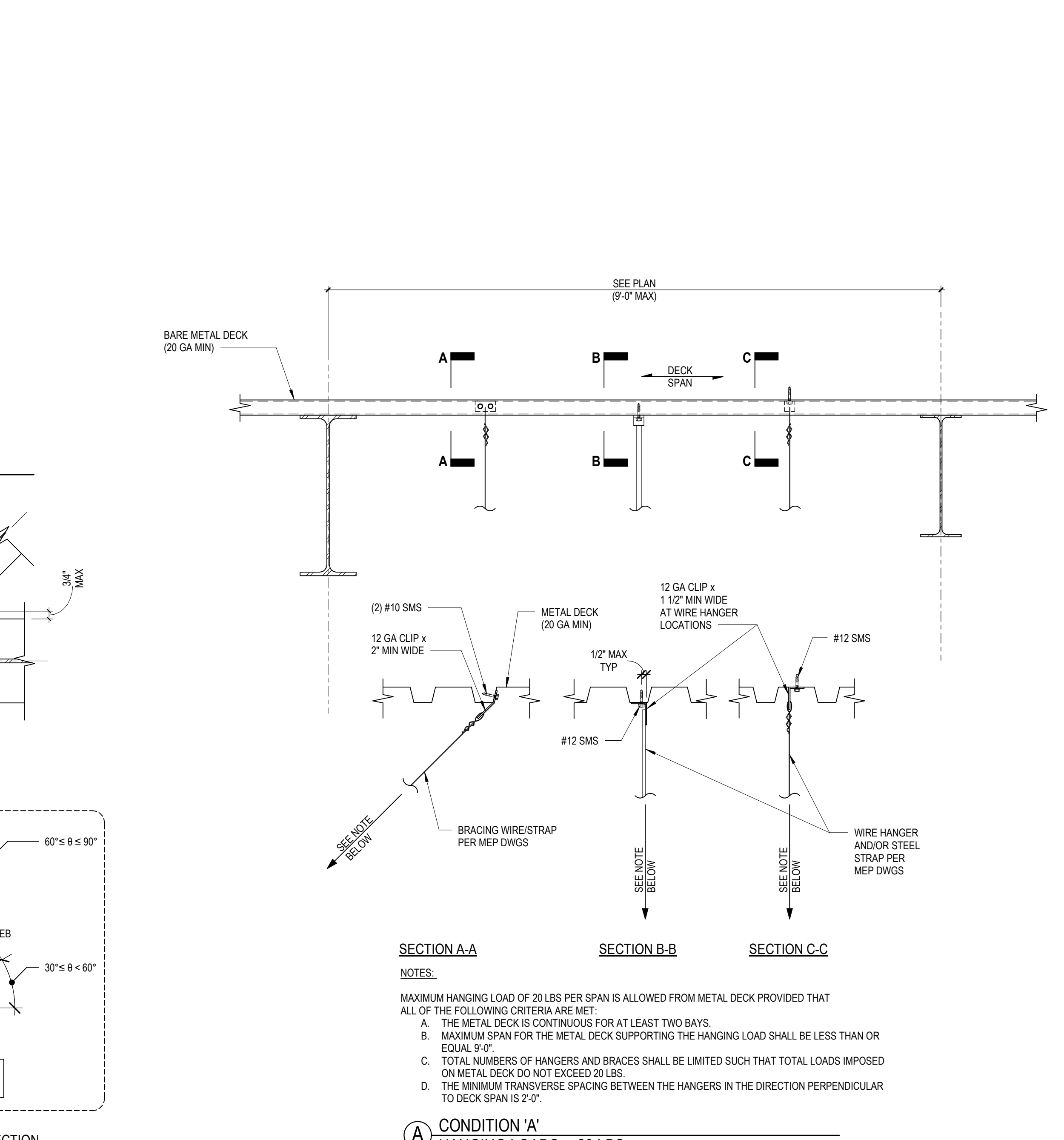
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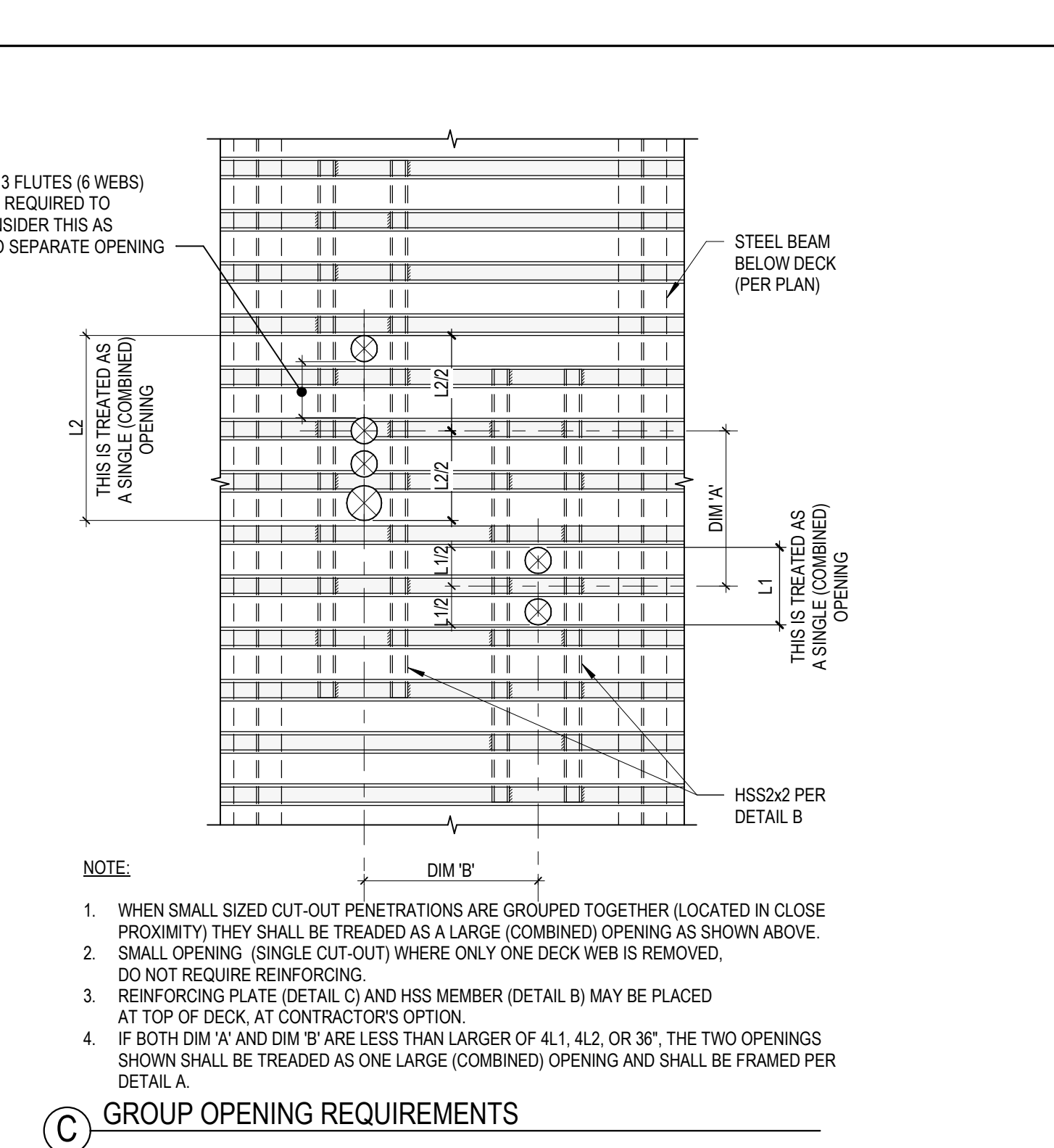
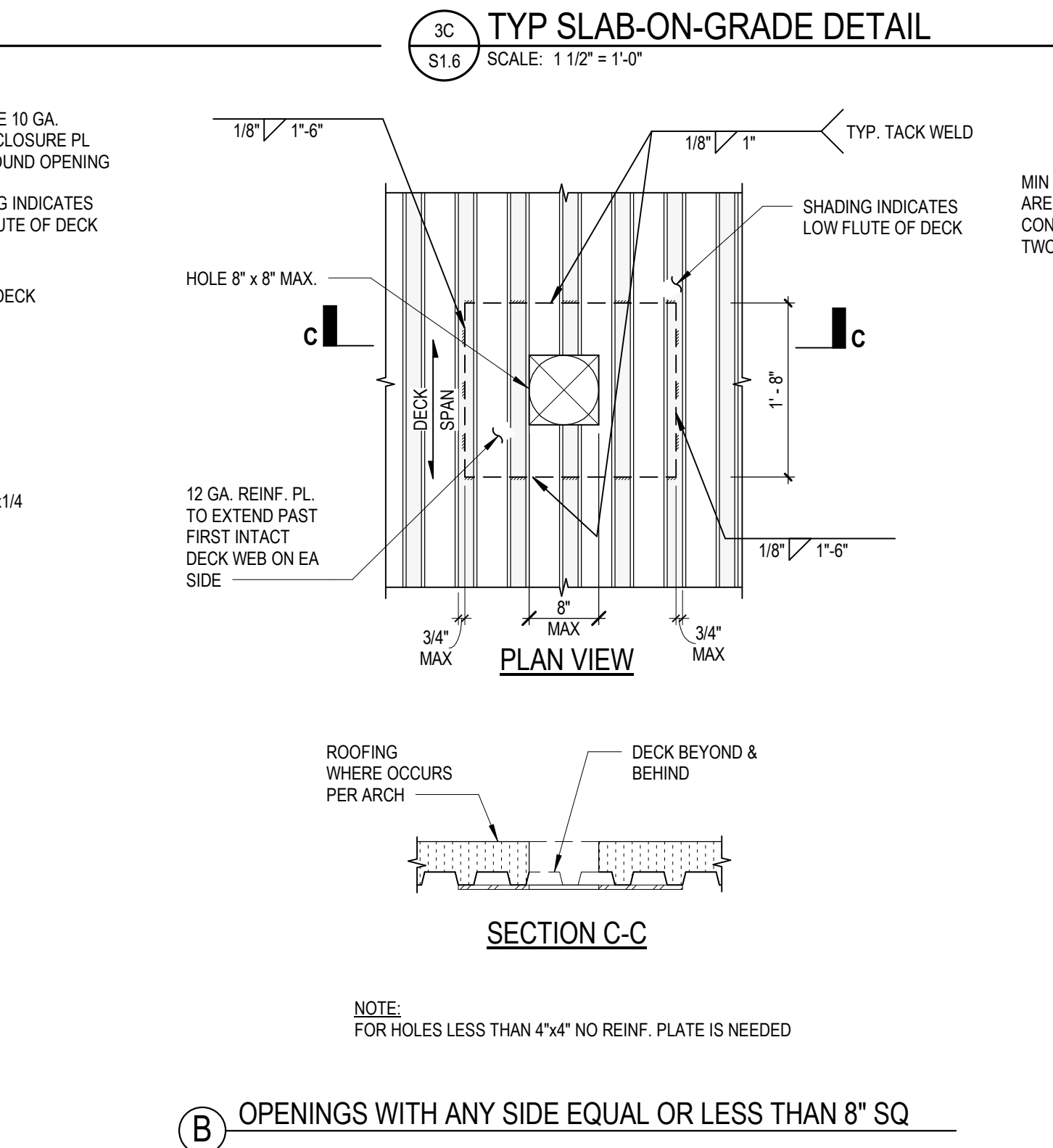
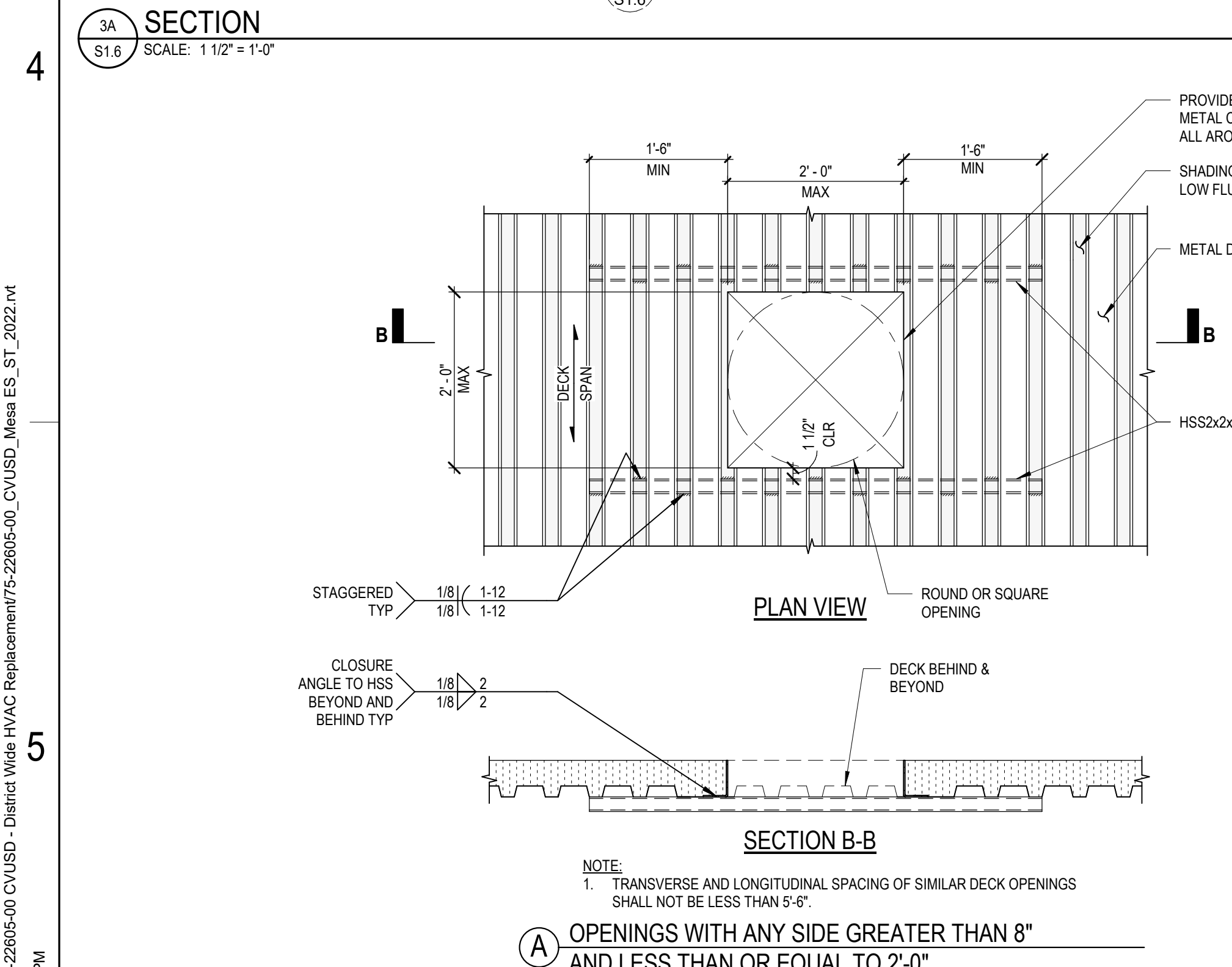
BEAM CONNECTION SCHEDULE			
NOMINAL MEMBER DEPTH	SHEAR PL. THICKNESS (\"T\")	FASTENERS A325X NON-SLIP CRITICAL	WELD SIZE (\"A\") SEE NOTE 3
8\" THROUGH 10\"	3/8\"	(2)-7/8\" Ø	5/16\"
12\" THROUGH 14\"	3/8\"	(3)-7/8\" Ø	5/16\"

NOTE:
 1. PROVIDE SHORT SLOTTED HOLES PER AISC. TYP LIND
 2. FULL HEIGHT SHEAR PLATE REQUIRED AT SKEWED BEAM CONNECTIONS
 3. FOR SKEWED BEAM WELD REQUIREMENTS, REFER TO THE BELOW PLAN VIEW DETAIL PROVIDED



SECTION A-A
 SECTION B-B
 SECTION C-C

NOTE:
 MAXIMUM HANGING LOAD OF 20 LBS PER SPAN IS ALLOWED FROM METAL DECK PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:
 A. THE METAL DECK IS CONTINUOUS FOR AT LEAST TWO BAYS.
 B. MAXIMUM SPAN FOR THE METAL DECK SUPPORTING THE HANGING LOAD SHALL BE LESS THAN OR EQUAL 9'-0\"/>
 D. THE MINIMUM TRANSVERSE SPACING BETWEEN THE HANGERS IN THE DIRECTION PERPENDICULAR TO DECK SPAN IS 2'-0\"/>
 (A) CONDITION 'A' HANGING LOADS ≤ 20 LBS

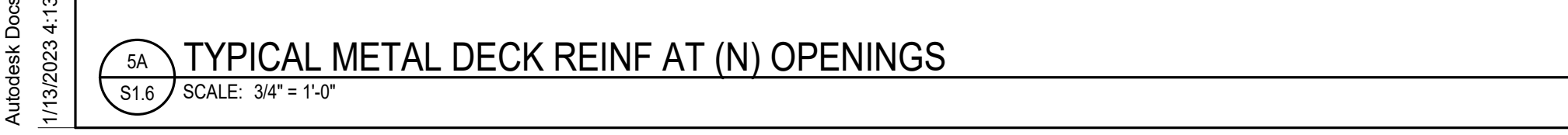


NOTE:
 1. WHEN SMALL SIZED CUT-OUT PENETRATIONS ARE GROUPED TOGETHER (LOCATED IN CLOSE PROXIMITY) THEY SHALL BE TREATED AS A LARGE (COMBINED) OPENING AS SHOWN ABOVE. SMALL OPENING (SINGLE CUT-OUT) WHERE ONLY ONE DECK WEB IS REMOVED, DO NOT REQUIRE REINFORCING.
 2. REINFORCING PLATE (DETAIL C) AND HSS MEMBER (DETAIL B) MAY BE PLACED AT TOP OF DECK, AT CONTRACTOR'S OPTION.
 3. IF BOTH DIM 'A' AND DIM 'B' ARE LESS THAN LARGER OF 4L1, 4L2, OR 3Ø, THE TWO OPENINGS SHOWN SHALL BE TREATED AS ONE LARGE (COMBINED) OPENING AND SHALL BE FRAMED PER DETAIL A.
 4. GROUP OPENING REQUIREMENTS

(A) OPENINGS WITH ANY SIDE GREATER THAN 8\"/>

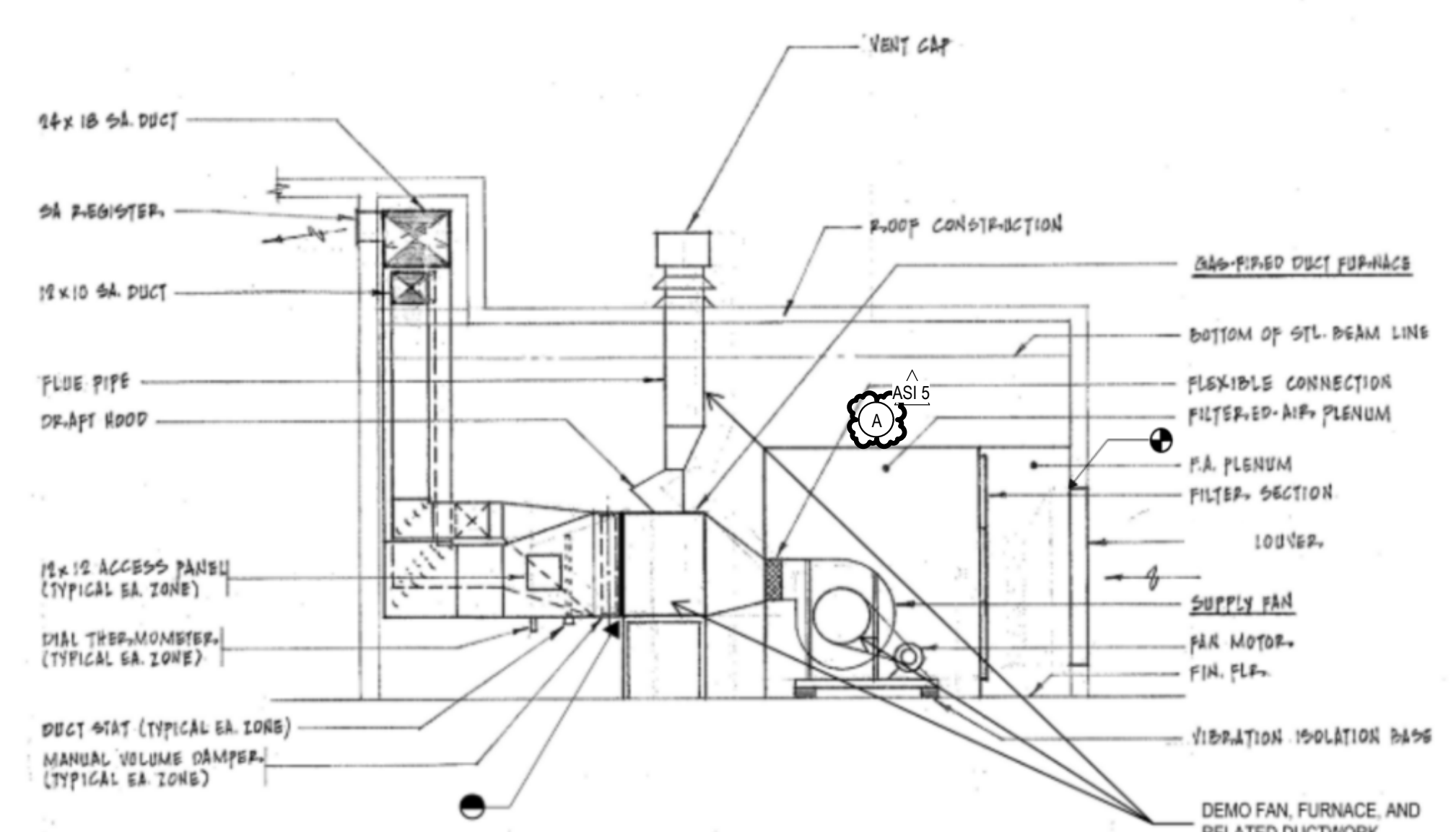
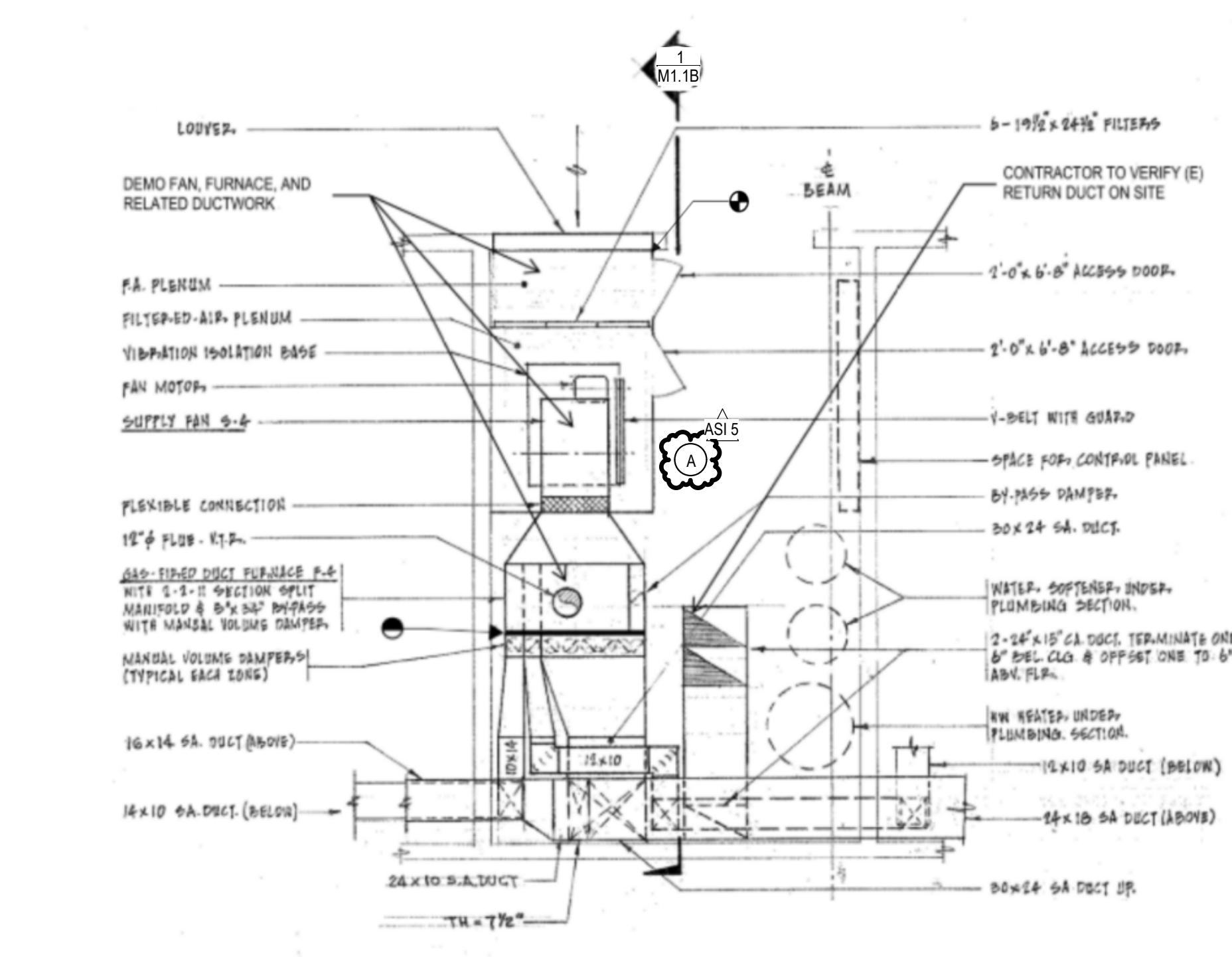
(B) OPENINGS WITH ANY SIDE EQUAL OR LESS THAN 8\"/>

(C) GROUP OPENING REQUIREMENTS



3A TYPICAL METAL DECK REINF AT (N) OPENINGS SCALE: 3/4\"/>

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DEMO NOTES

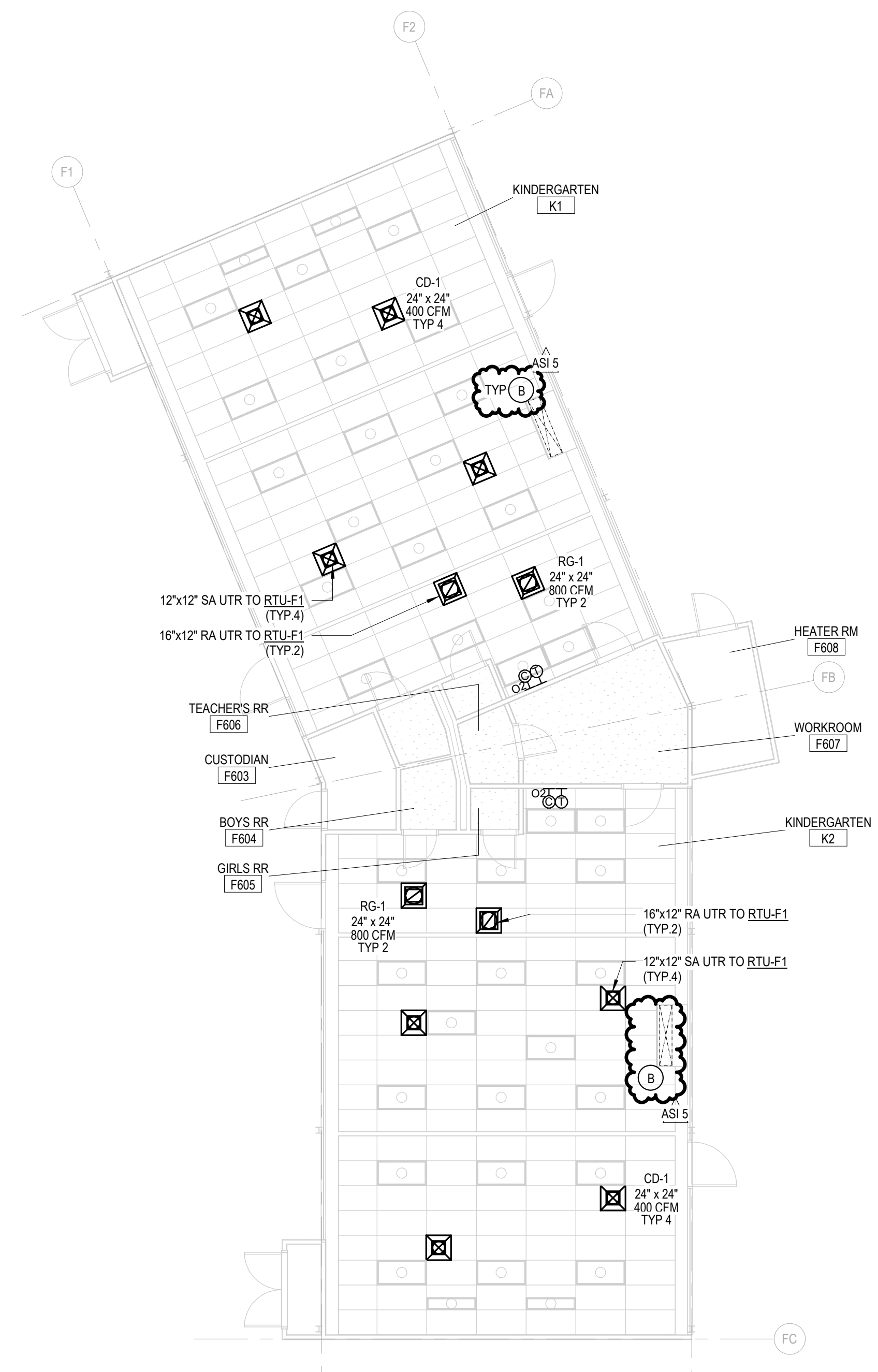
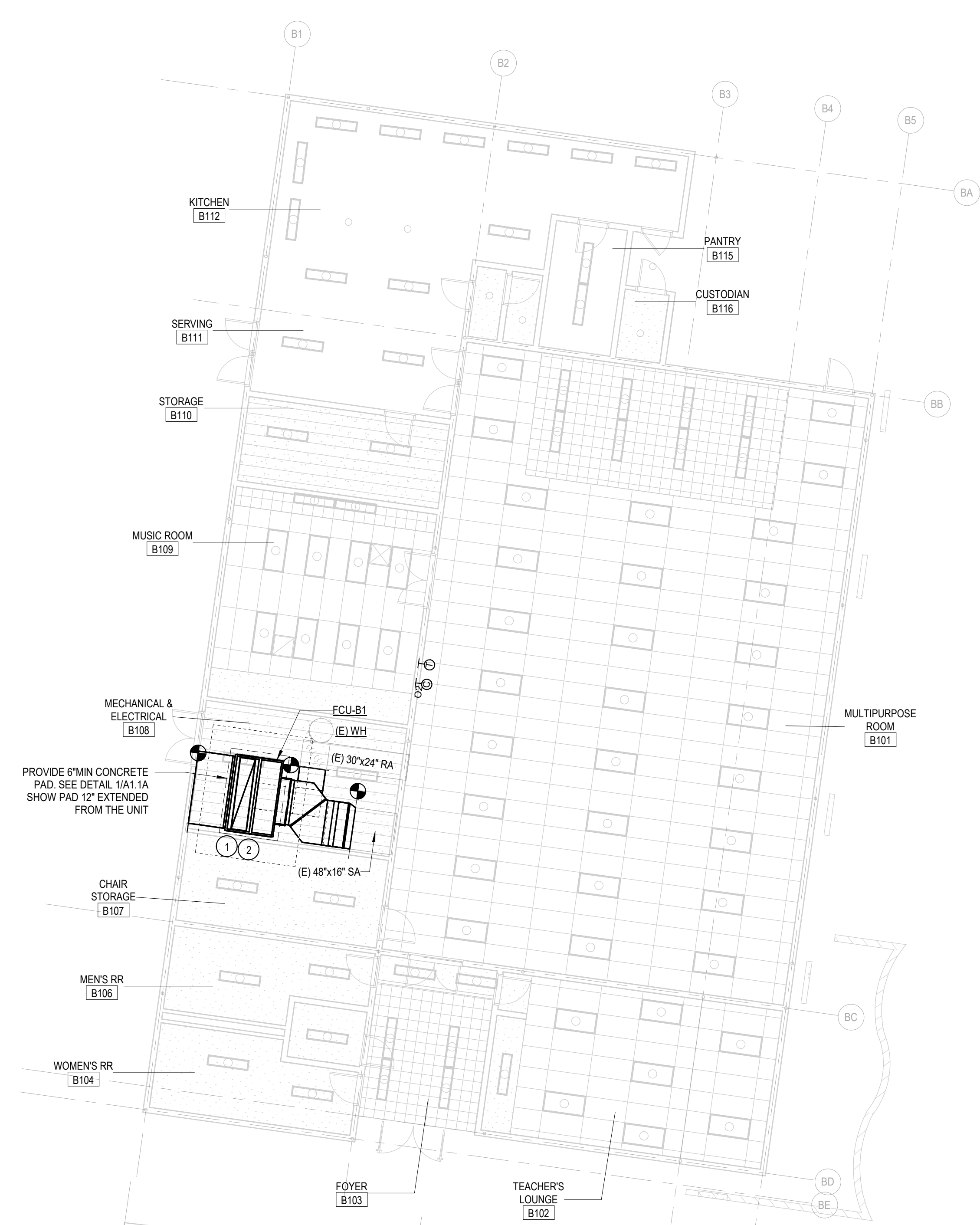
- A MPR DEMO (E) EQUIPMENT AND SA & RA DUCTWORK IN THE SCOPE AREA UP TO POC, ALONG WITH ALL THE SUPPORTS, PIPING, OTHER COMPONENTS.
- B DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYPICAL FOR CLASSROOMS. CONTRACTOR TO VERIFY LOCATIONS ON SITE.

GENERAL NOTES

- 1 MPR SCOPE IS LIMITED TO MPR AND THE RELATED ROOMS SERVED BY UNITS IN THE EXISTING MECHANICAL ROOM. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2 MPR - FOR DIFFUSERS/GRILLES LOCATION, CONTRACTOR TO VERIFY ON SITE. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.
- 3 MPR - PROVIDE PRE-READ TAB PRIOR TO CONSTRUCTION DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.

KEY NOTES

- 1. PROVIDE RURS PIPING UP THRU (E) PENETRATION TO CU-B1 ON ROOF.
- 2. PROVIDE 1" CD TO DRAIN TO (E) FLOOR SINK.



Mesa Elementary School
COVINA VALLEY USD
400 S BARBARCA AVE, WEST COVINA, CA 91791

DSA Submitted Set
Issue Date
REVISIONS
AS15 01/13/2023

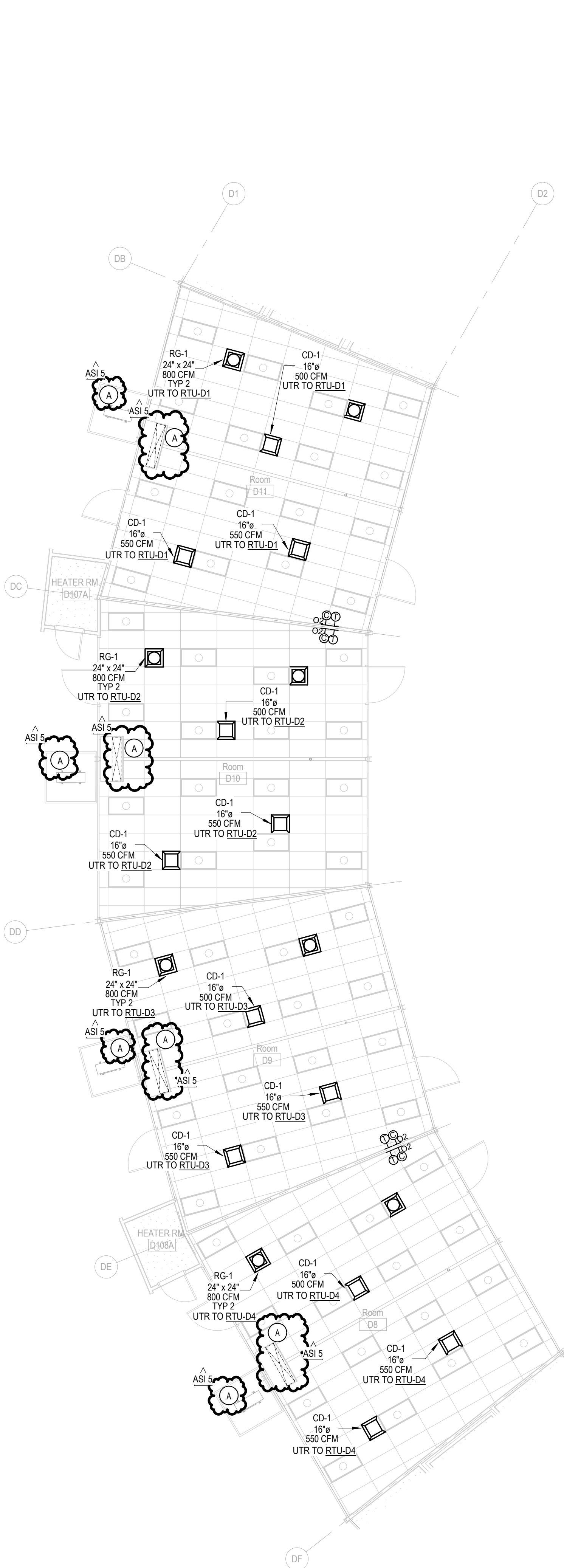
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BUILDINGS B AND F MECHANICAL FLOOR PLAN

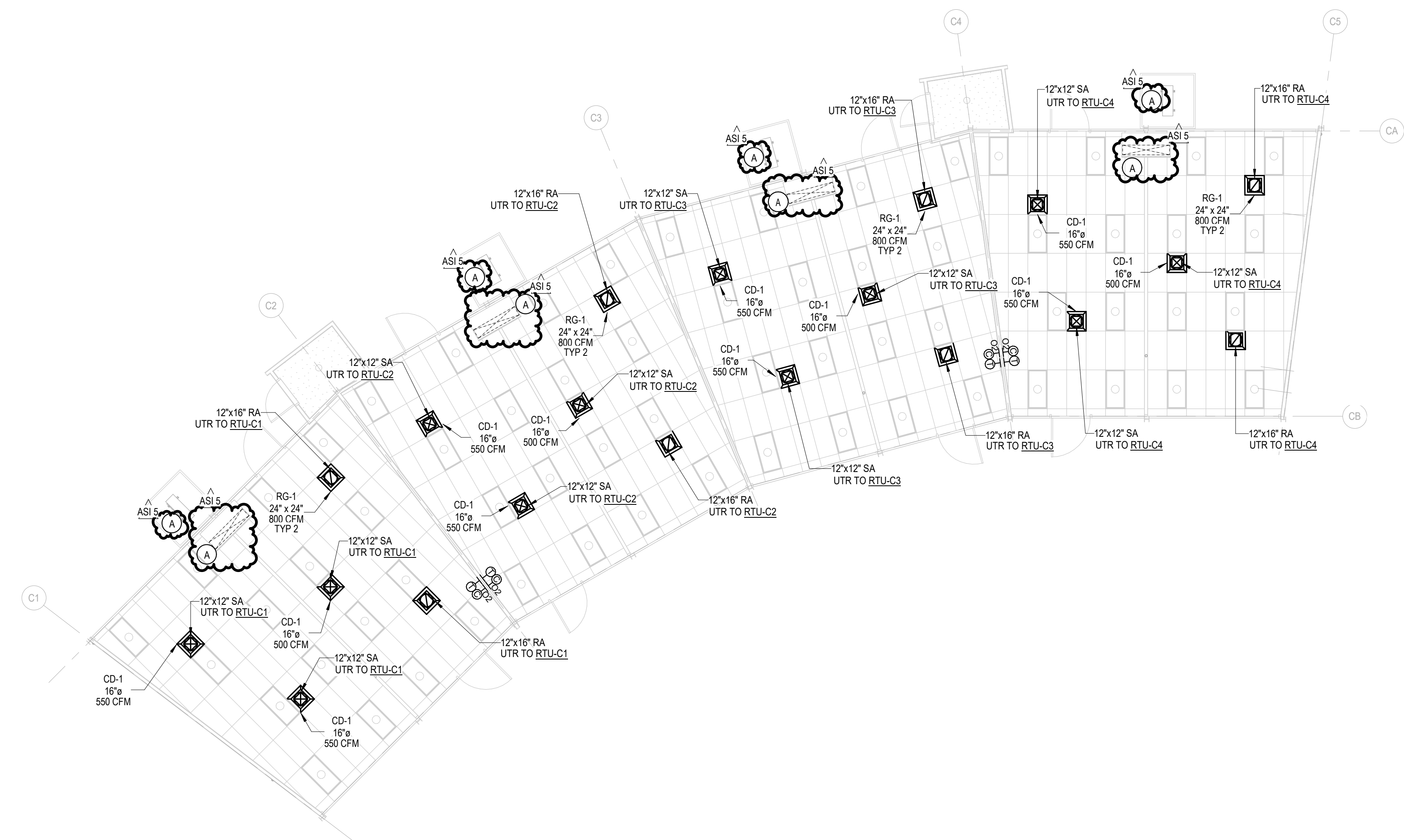
M1.1B

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Mesa ES_MEP_2022.rvt 1/13/2023 12:25:01 PM

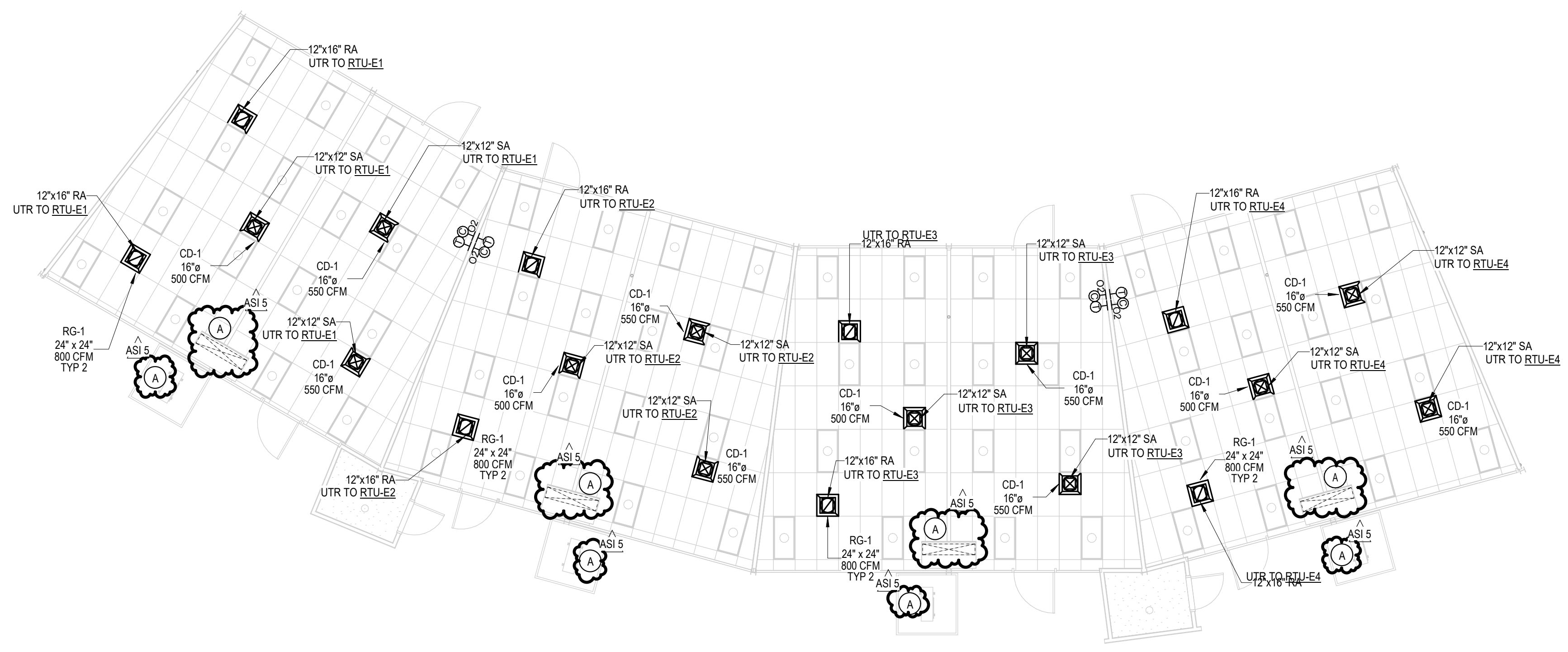
1
2
3
4
5



BUILDING D MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING C MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING E MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT ON ROOF AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PASS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. CONTRACTOR TO VERIFY LOCATIONS ON SITE. TYP.

GENERAL NOTES

A. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
B. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES REFER TO RCP.

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DLR Group
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REGISTERED PROFESSIONAL ENGINEER
No. 424891
12/31/24
MECHANICAL
STATE OF CALIFORNIA

USG

Mesa Elementary School
COVINA VALLEY USD
400 S BARBARCA AVE, WEST COVINA, CA 91791

DSA Submitted Set
Issue Date
REVISIONS
AS1.5 01/13/2023

75-22605-00

BUILDINGS C, D AND E MECHANICAL FLOOR PLANS

M1.1C

1
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3
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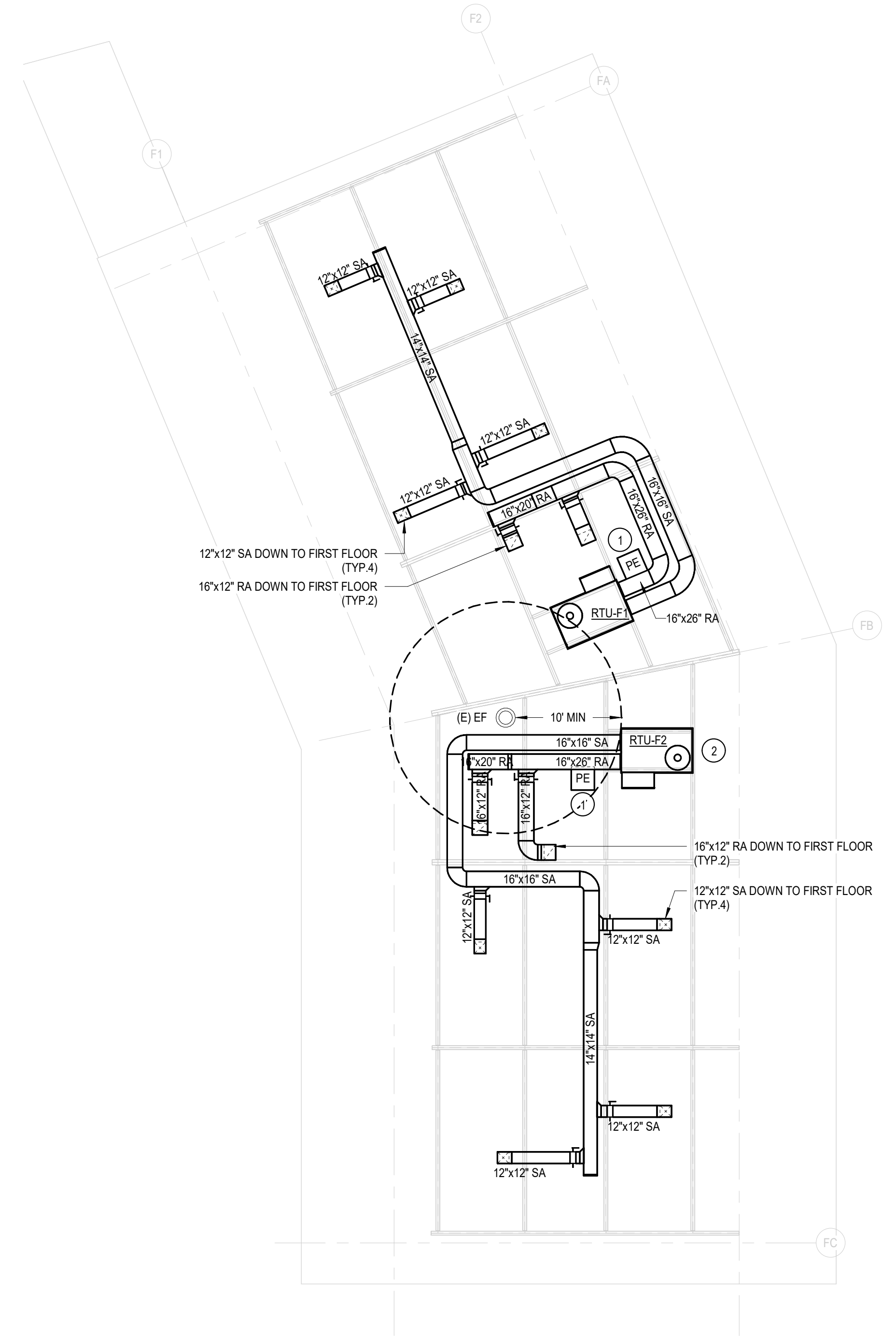
D

E

F



BUILDING B MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING F MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2. PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
3. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.

KEY NOTES

1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
2. RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.



Mesa Elementary School
COVINA VALLEY USD
400 S BARBARANCA AVE, WEST COVINA, CA 91791

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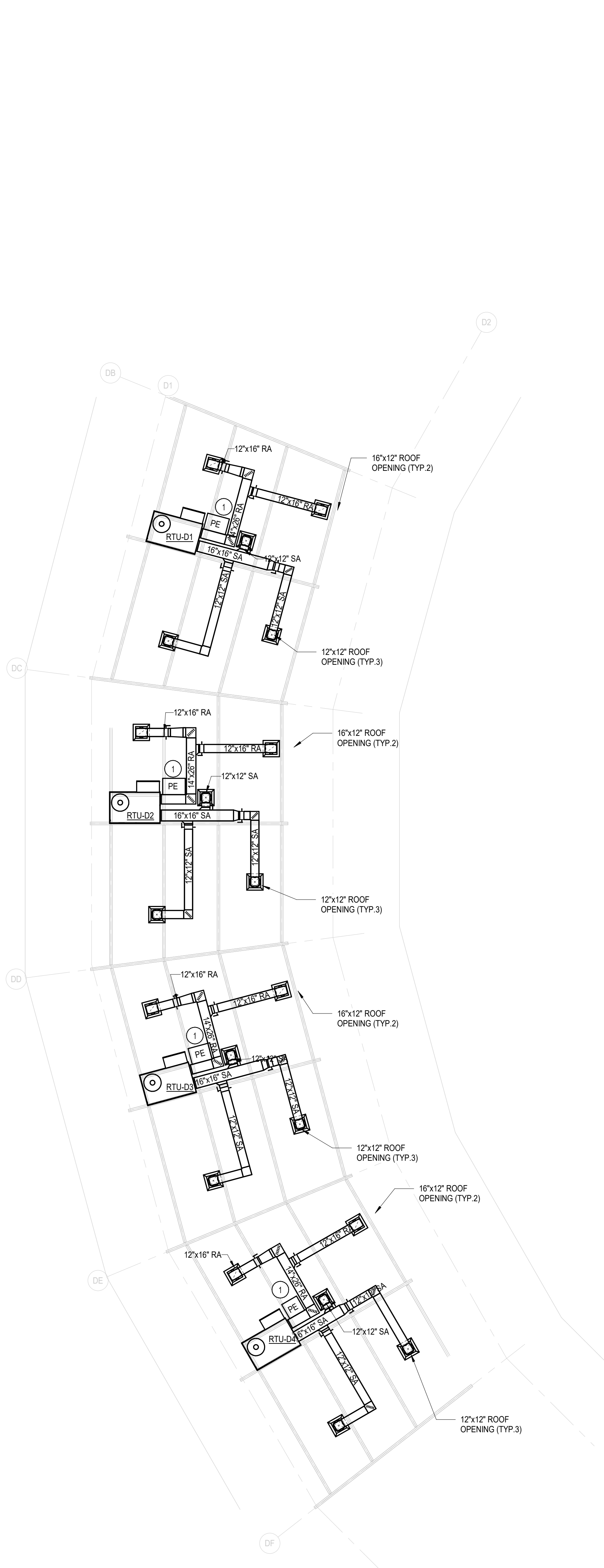
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BUILDINGS B AND F MECHANICAL ROOF PLANS

M3.1B

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BUILDING D MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



BUILDING E MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

BUILDING C MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

- GENERAL HVAC NOTES**
1. INSTALL NEW RTU ON PRE-FAB CURB
 2. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.
 3. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.
- KEY NOTES**
1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.

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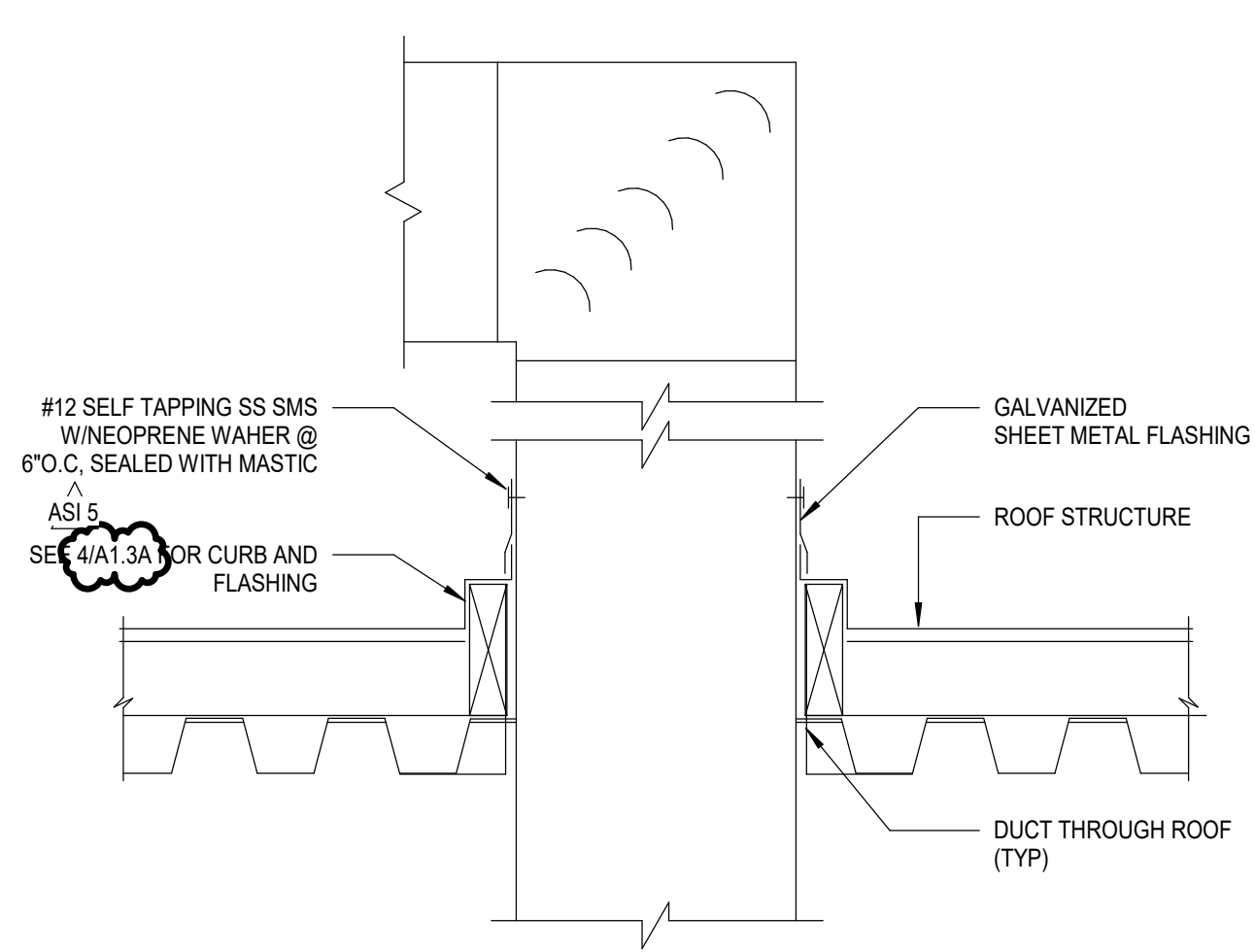
75-22605-00

BUILDINGS C, D AND E
MECHANICAL
ROOF PLAN

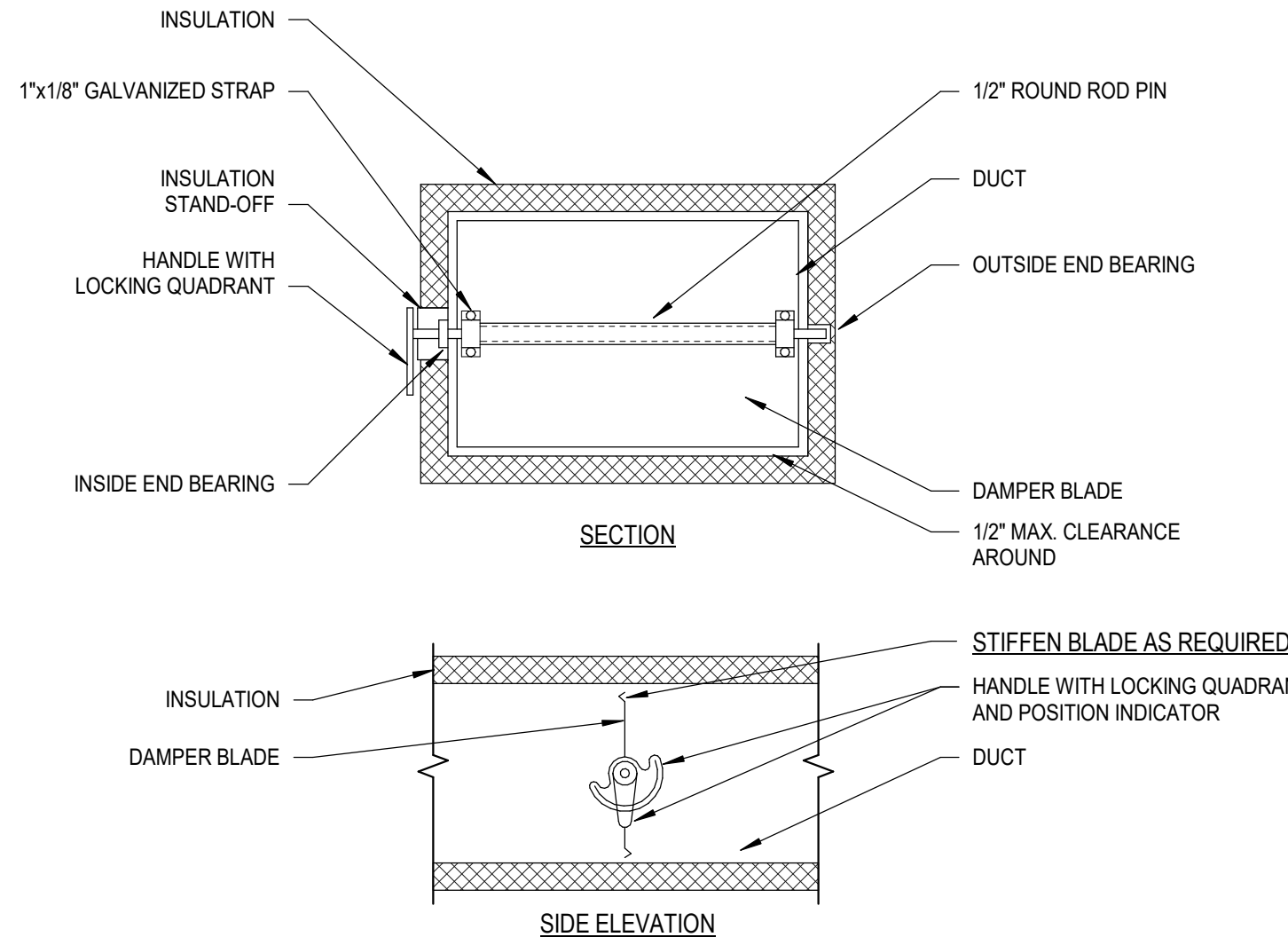
M3.1C

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1

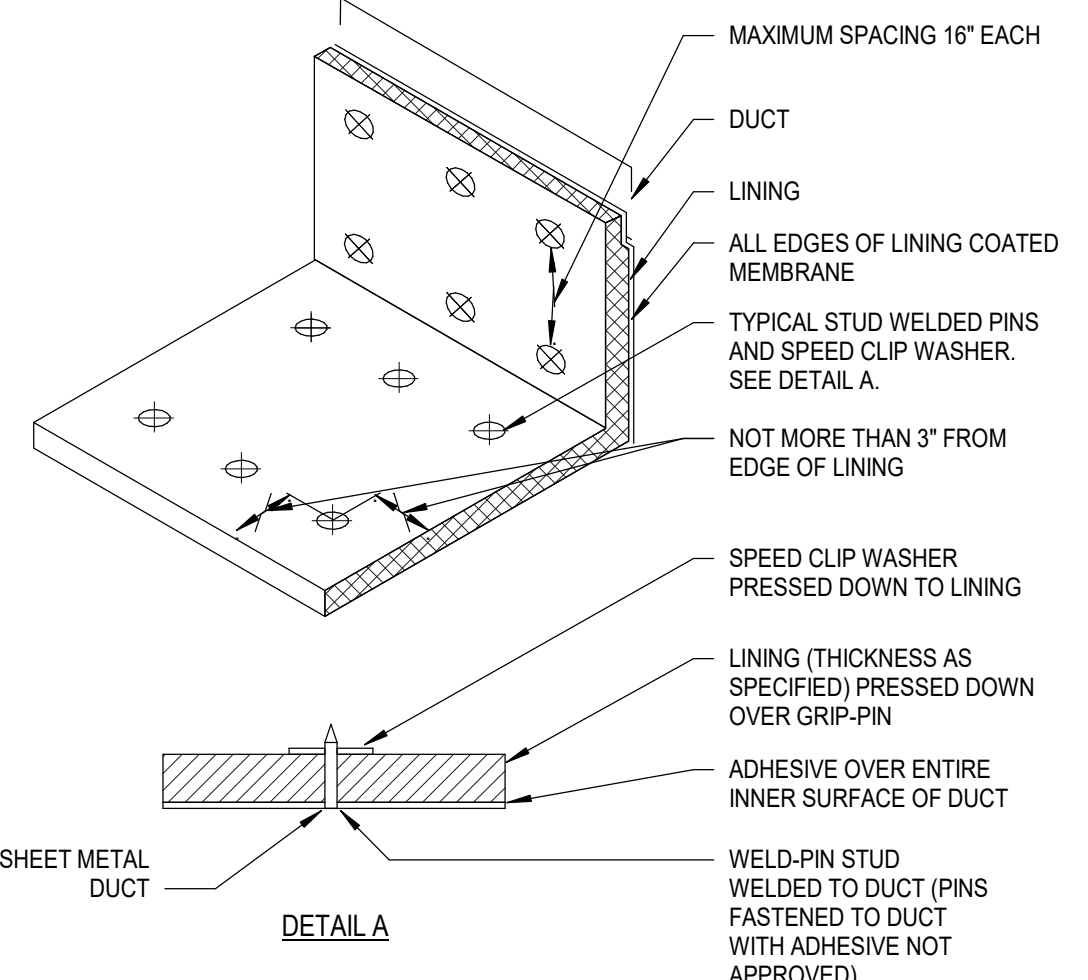


1 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE

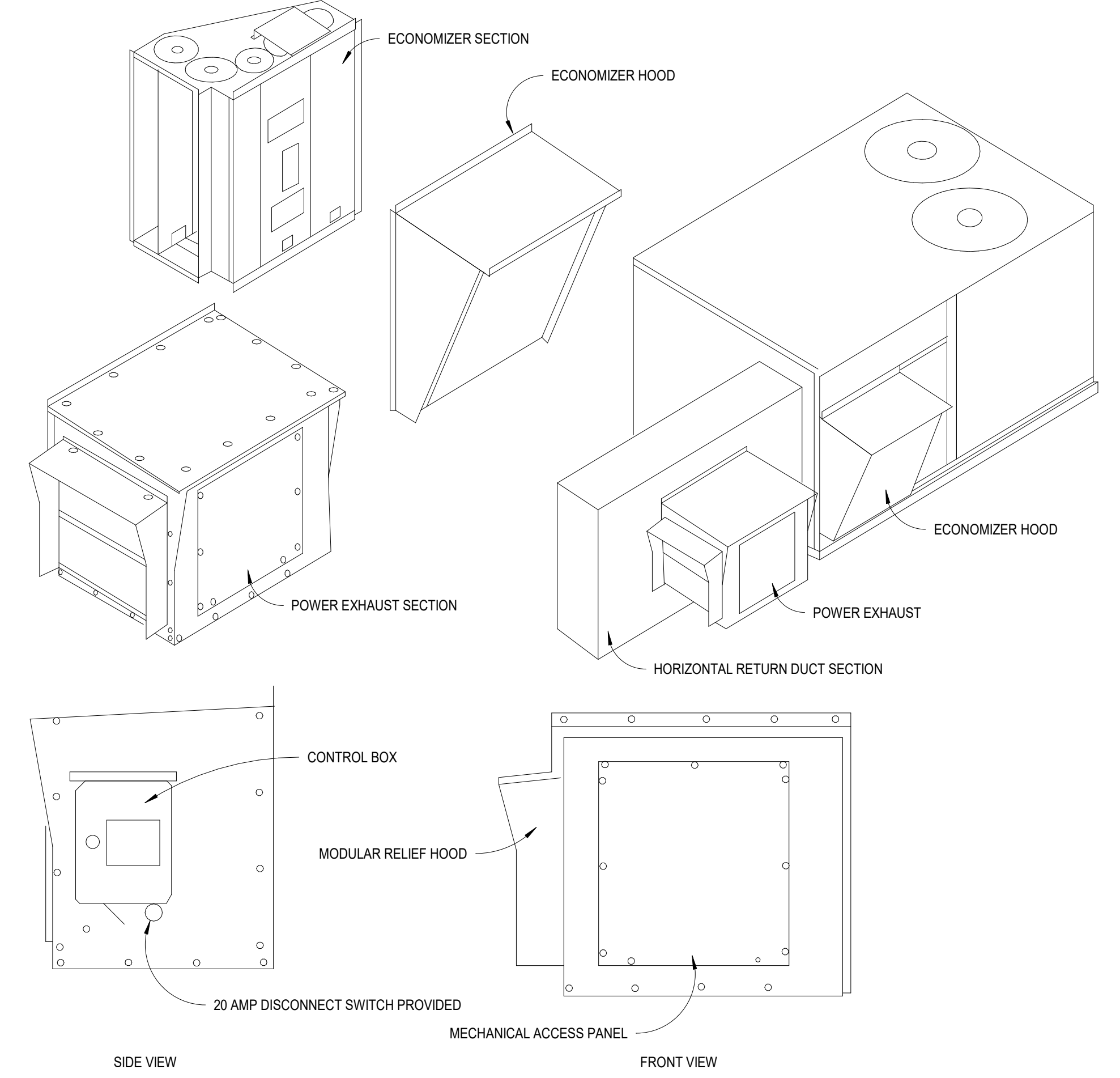


- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
- DETAIL SHOWS SINGLE BLADE DAMPER. MULTI-BLADE DAMPERS INSTALLATIONS SHALL BE SIMILAR.
- LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION.
- PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.
- PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL VOLUME DAMPER LOCATIONS.

2 RECTANGULAR VOLUME DAMPER DETAIL
M7.1 NO SCALE

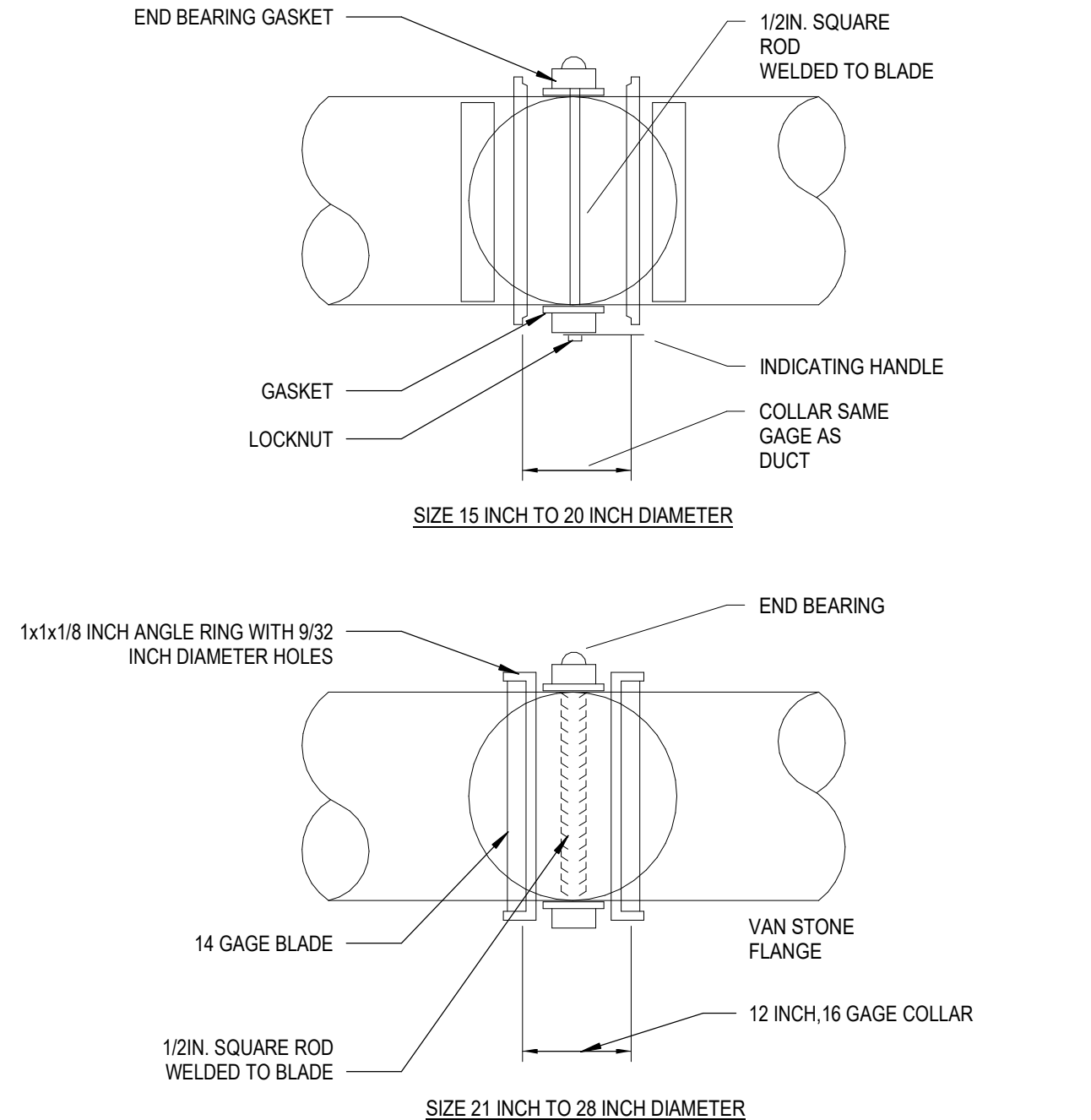


3 ACOUSTICAL DUCT LINING INSTALLATION DETAIL
M7.1 NO SCALE

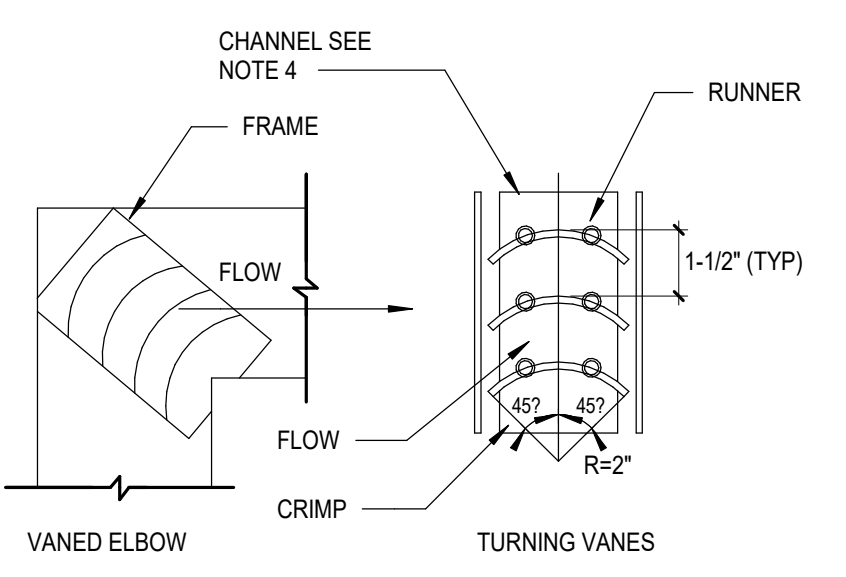


4 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE

3

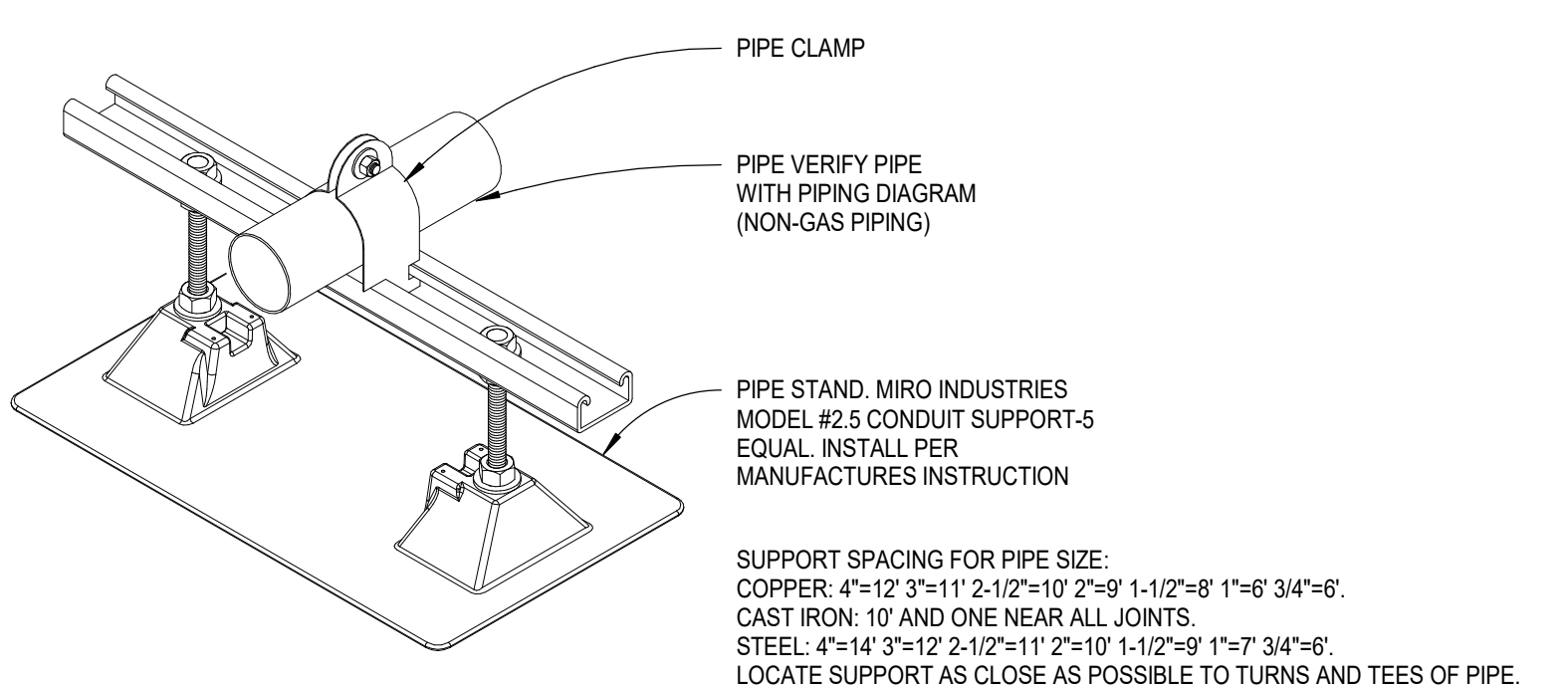


5 ROUND VOLUME DAMPER (LARGER THAN 14\"/>

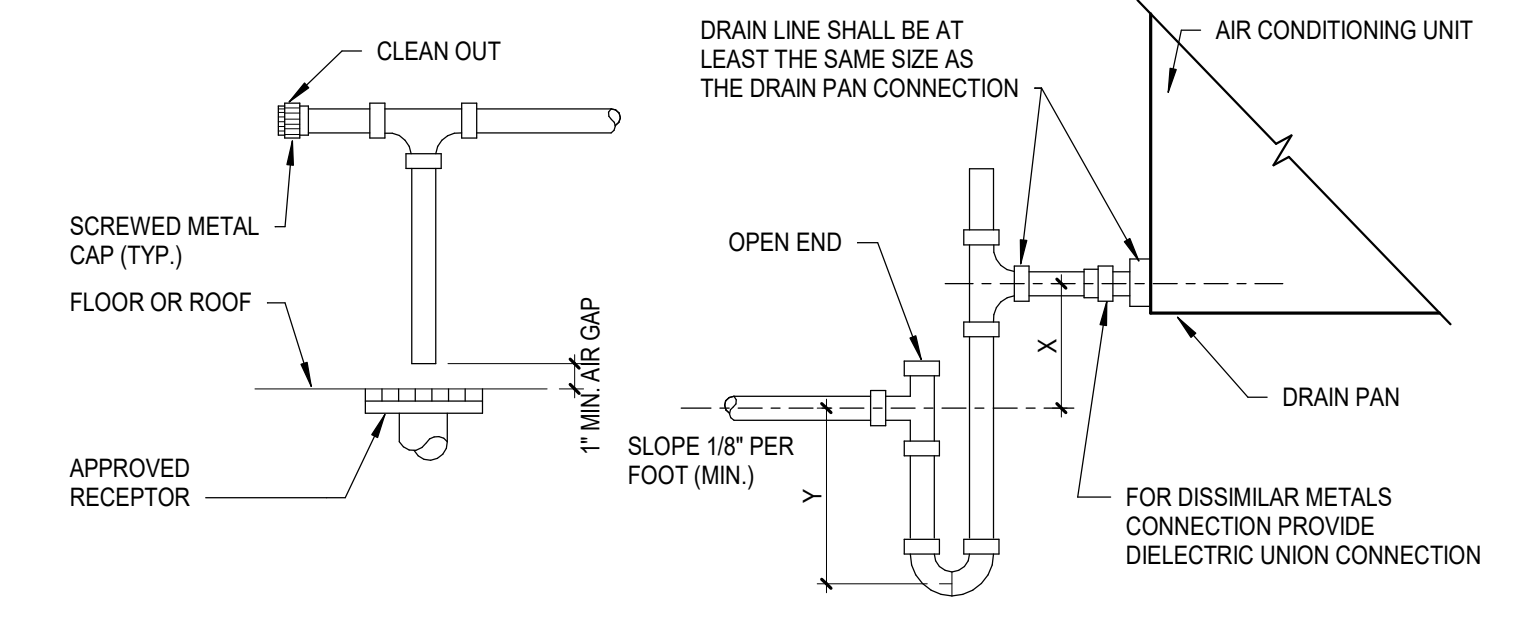


- NOTES:
- MAXIMUM UNSUPPORTED VANE LENGTH 36\"
 - VANES AND FRAMES - 24 GAUGE.
 - DUCT INLET AND OUTLET DIMENSIONS TO BE EQUAL.
 - FOR HIGH VELOCITY APPLICATIONS PROVIDE 18 GAUGE CHANNEL AND TACK WELD VANE EDGES TO CHANNEL, TYPICAL BOTH ENDS.
 - FRAMES AND CHANNELS - BOLTED OR TACK WELDED TO ELBOW.

6 RECTANGULAR ELBOW W/ TURNING VANES DETAIL
M7.1 NO SCALE



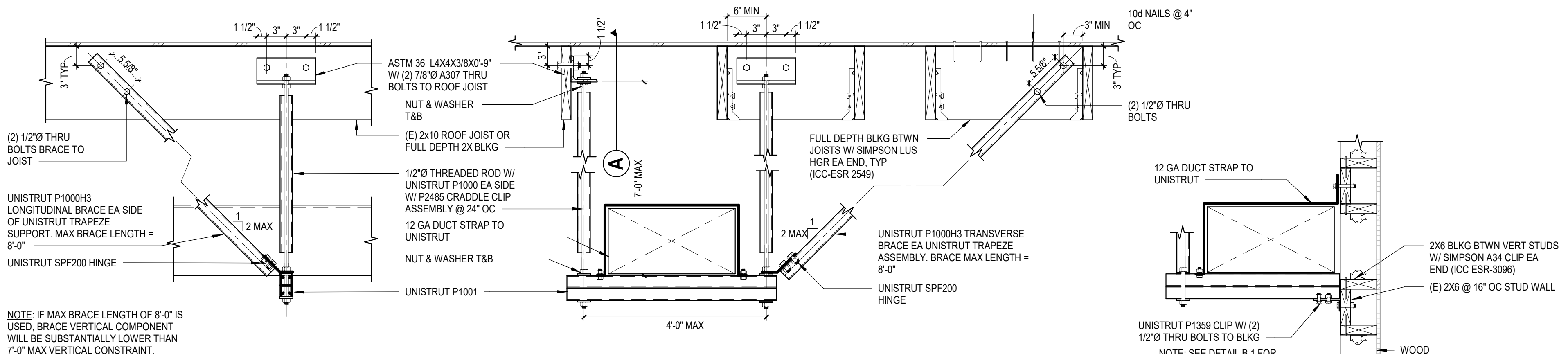
7 PIPE SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



- NOTES:
- WHERE VERTICAL SPACE DOES NOT PERMIT TRAP INSTALLATION AS REQUIRED ABOVE FLOOR SLAB, EXTEND P-TRAP TO BELOW SLAB.
 - FOR INDOOR AND OUTDOOR INSTALLATION PROVIDE INSULATED RAIN LINE TO THE POINT OF DISCHARGE AT APPROVED RECEPTOR.

8 CONDENSATE DRAIN CONNECTION DETAIL
M7.1 NO SCALE

4



9.1 LONGITUDINAL DIRECTION
M7.1 NO SCALE

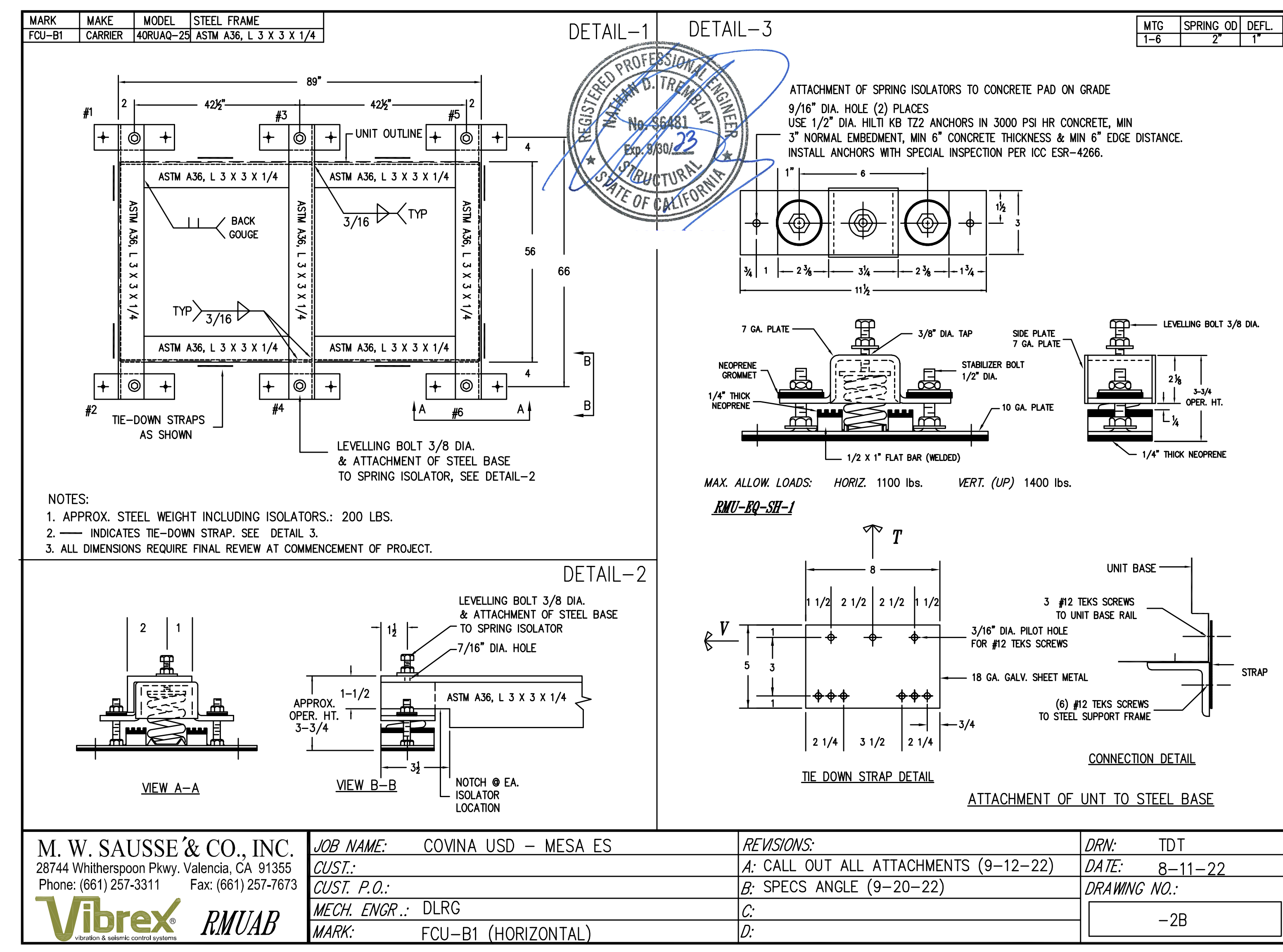
9.2 TRANSVERSE DIRECTION - WOOD ROOF
M7.1 NO SCALE

9.3 TRANSVERSE DIRECTION - WOOD WALL TIEBACK
M7.1 NO SCALE

5

9 DUCT SUPPORTS
M7.1 NO SCALE

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1 FCU-B1
M7.4 NO SCALE

MARK	MAKE	TYPE	STEEL SIZE
RTU C1 to C8	CARRIER	50FCQA05	ASTM A36, L 3 X 2 X 1/4
RTU D1 to D8	CARRIER	50FCQA05	ASTM A36, L 3 X 2 X 1/4
RTU F1,F2	CARRIER	50FCQA05	ASTM A36, L 3 X 2 X 1/4

DETAIL-1

DETAIL-2

DETAIL-3

MTS	SPRING O.D.	DEFL
1-6	2"	1"

ATTACHMENT OF UNIT TO STEEL BASE

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 200 LBS.
- ISOLATORS, SEE DETAIL 3.
- INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

M. W. SAUSSE & CO., INC. 28774 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673	JOB NAME: COVINA USD — MESA ES CUST.: CUST. P.O.: MECH. ENGR.: DLR MARK: RTU-C1-C8,D1-D8,F1,F2 (RTU 4 TON)	REVISIONS: A: ROOF CURB TO RMUAB (8-17-22) B: CALL OUT ALL ATTACHMENTS (9-2-22) C: SPECS ANGLE (9-20-22) D:	DRN: TDT DATE: 08-17-22 DRAWING NO.: <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">- 3C</div>
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1 ROOF TOP UNIT
M7.5 NO SCALE

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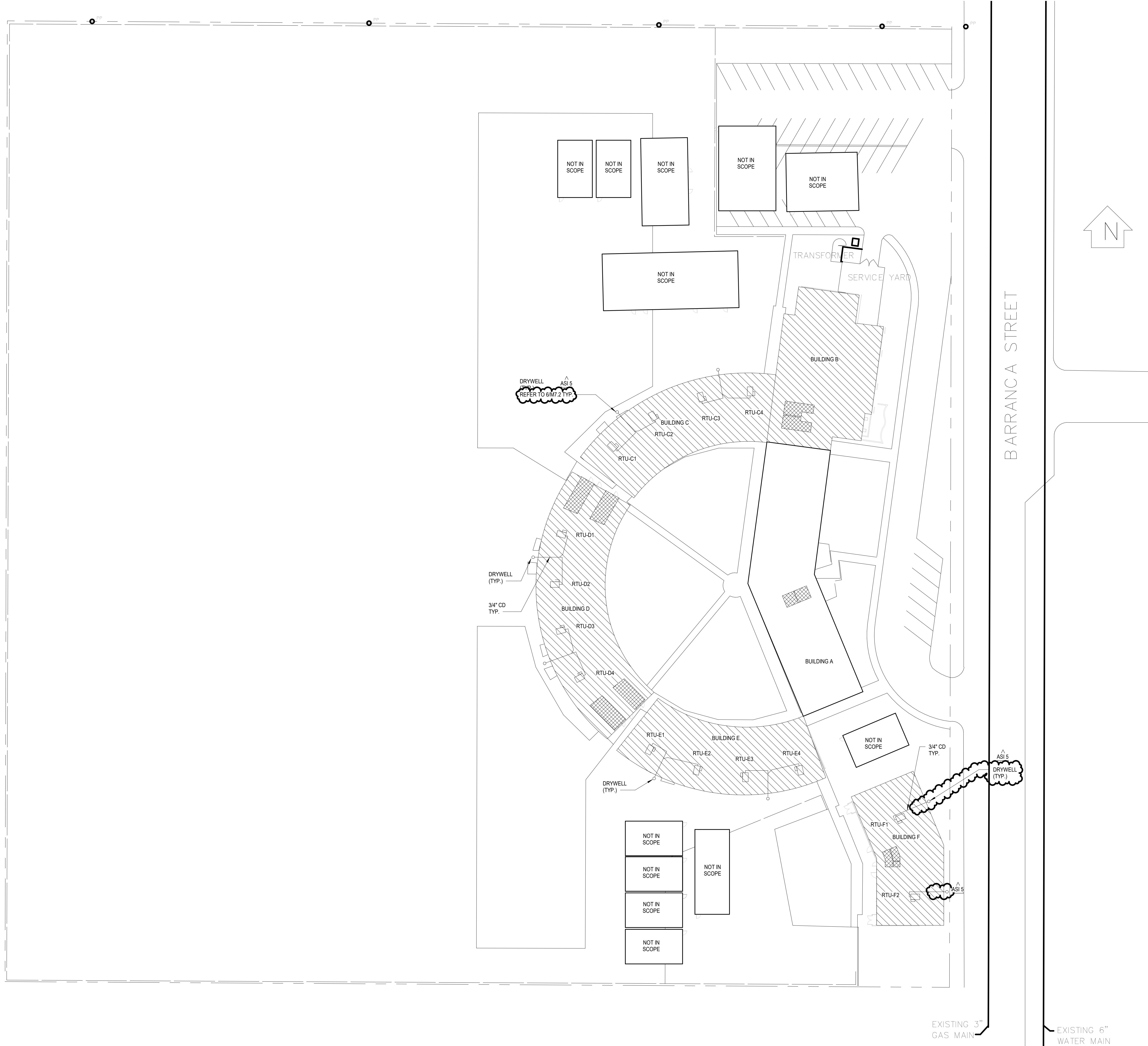
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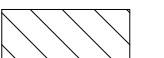

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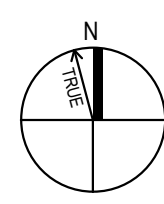
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5



SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



MECHANICAL PLUMBING SITE PLAN

SCALE: 1" = 30'-0"



Mesa Elementary School
 COVINA VALLEY USD
 409 S BARRANCA AVE, WEST COVINA, CA 91791

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MECHANICAL PLUMBING SITE PLAN

MP1.1

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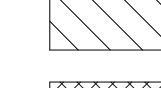
GENERAL NOTES

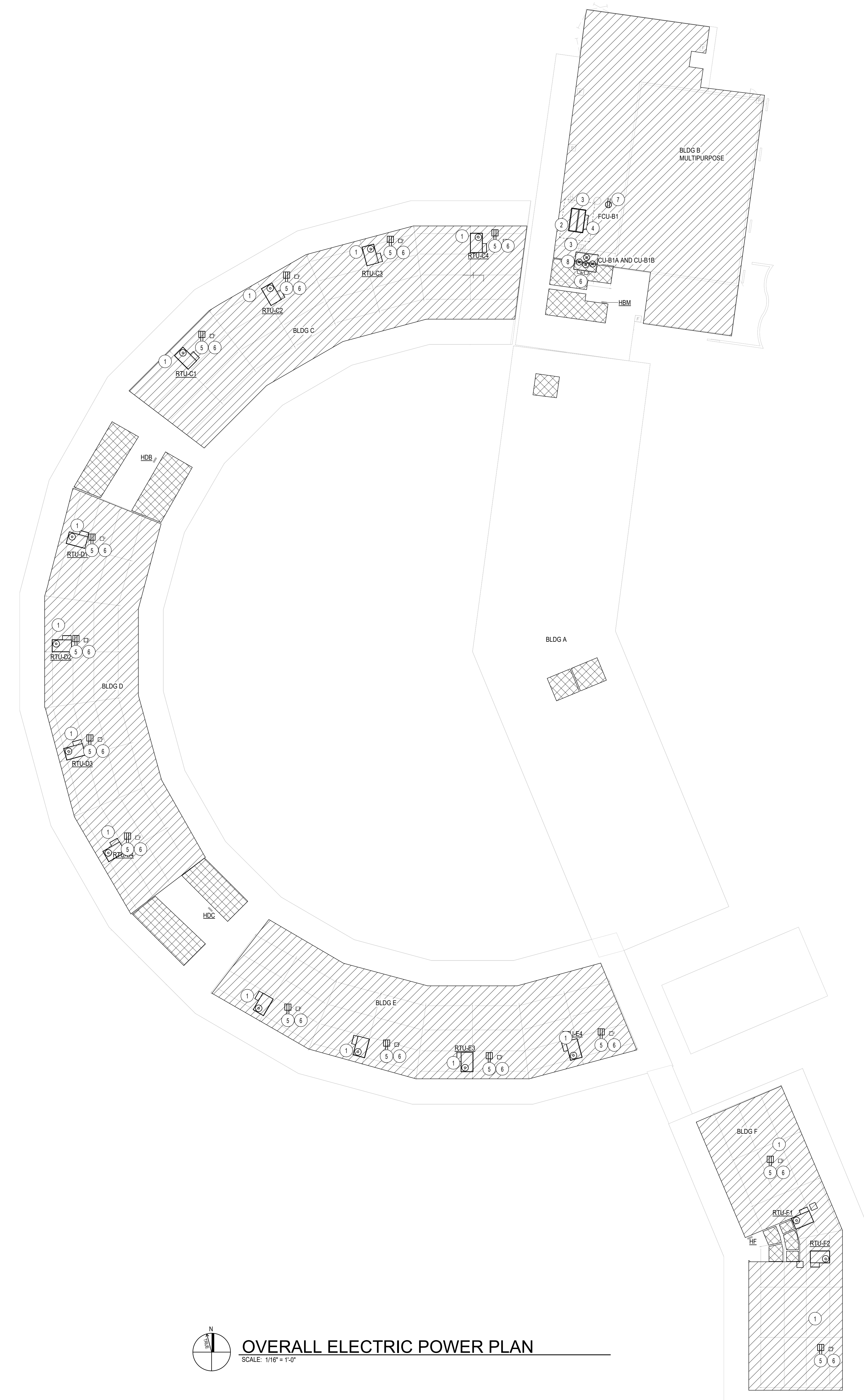
- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 28.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET E0.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CEBC 503 15.1. EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
- I EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES

No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT ON THE ROOF TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. EXISTING FEEDER TO BE EXTENDED AS REQUIRED. PROVIDE ALL REQUIRED CONNECTION. FUSED DISCONNECT FOR POWER EXHAUST FAN SHALL BE PROVIDED #8 CONDUCTOR AND #10 GND CONDUCTOR TO LOAD SIDE OF MAIN DISCONNECT FOR RTU.
2	HVAC EQUIPMENT ON GRADE TO BE DISCONNECTED AND REPLACED WITH NEW. CONTRACTOR TO RE-USE EXISTING CIRCUITING. EXTEND EXISTING FEEDERS AS REQUIRED.
3	EXISTING GFCI TYPE OUTLET WITH WEATHERPROOF COVER TO BE PROTECTED AND TO REMAIN.
4	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 608 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 10 FEET.
5	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER FOR CIRCUITING. SEE TABLE PROVIDED ON SHEET E0.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
7	PROVIDE 120V CIRCUIT FOR EMS ROUTER AND EMS PANEL. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND PANEL.
8	HVAC EQUIPMENT ON ROOF TO BE DISCONNECTED AND REPLACED WITH NEW. CONTRACTOR TO RE-USE EXISTING CIRCUITING. EXTEND EXISTING FEEDERS AS REQUIRED.

SITE LEGEND

-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS USA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



OVERALL ELECTRIC POWER PLAN
 SCALE: 1/16" = 1'-0"



Mesa Elementary School
 COVINA VALLEY USD
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 CONSTRUCTION DOCUMENTS
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ROOF ELECTRICAL PLAN

E2.1

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ROWLAND ELEMENTARY SCHOOL

1355 E. ROWLAND AVE. WEST COVINA, CA 91790

COVID 19- COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION #

A# 03-122233

SHEET INDEX

GENERAL		ELECTRICAL	
G0.1	COVER SHEET	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
G1.1	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	E2.1	ROOF ELECTRICAL PLAN
ARCHITECTURAL			
A1.1	ARCHITECTURAL SITE PLAN	E5.1	ELECTRICAL DIAGRAMS AND SCHEDULE
A1.1A	FLOOR PLANS	E6.1	ELECTRICAL DETAILS
A1.3A	ROOF PLANS	TOTAL: 30 SHEETS	
MECHANICAL			
A3.1A	REFLECTED CEILING PLANS		
MECHANICAL			
M7.4	MECHANICAL DETAILS		
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES		
M0.2	TITLE 24 COMPLIANCE		
M0.3	TITLE 24 COMPLIANCE		
M0.4	TITLE 24 COMPLIANCE		
M0.5	TITLE 24 COMPLIANCE		
M0.6	TITLE 24 COMPLIANCE		
M0.7	TITLE 24 COMPLIANCE		
M1.1	MECHANICAL SITE PLAN		
MD1.1	MECHANICAL DEMOLITION PLANS		
MD1.2	MECHANICAL DEMOLITION PLANS		
M1.1A	MECHANICAL FLOOR PLANS		
M1.1B	MECHANICAL FLOOR PLANS		
M2.1A	MECHANICAL ROOF PLANS		
M5.1	CONTROLS DIAGRAMS		
M5.2	CONTROLS DIAGRAMS		
M7.1	MECHANICAL DETAILS		
M7.2	MECHANICAL DETAILS		
M7.3	MECHANICAL DETAILS		
M7.5	MECHANICAL DETAILS		
M8.1	MECHANICAL SCHEDULES		
MP1.1	MECHANICAL PLUMBING SITE PLAN		

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122233 File No. 19-25)
HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 8138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b))

I FIND THAT:	<input checked="" type="checkbox"/> ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES)	<input type="checkbox"/> THIS DRAWING OR PAGE
<input checked="" type="checkbox"/> ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND	<input checked="" type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.	<input type="checkbox"/> ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
<input type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.		<input type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.
SIGNATURE	05/05/2022	DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE		ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
JESSE MILLER		
PRINT NAME		PRINT NAME
LICENSE NUMBER	EXPIRATION DATE	LICENSE NUMBER
		EXPIRATION DATE

DESIGN ANALYSIS DATA

- WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS
 - RISK CATEGORY: II
 - WIND DESIGN SPEED: V=110 MPH
 - WIND EXPOSURE CATEGORY: B (PER ASCE 7-16)
- EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5)
 - SEISMIC DESIGN CATEGORY: E OR F
 - SITE CLASS: D
 - S₁ = 1.659
 - S₂ = 0.61
 - S₃ = 1.991
 - S₄ = 7.001
 - S₅ = 1.327
 - S₆ = 7.001
 - L₁ (IMPORTANCE FACTOR) = 1.25
 - F₁ (CONTROLLING HOR. SEISMIC FORCE) = 2089.48 LBS
- DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6)
 - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF
 - ALLOWABLE LATERAL BEARING PRESSURE: 105 PSF MIN.

SCOPE OF WORK

SCOPE OF WORK SHALL BE AS FOLLOWS:

REMOVAL OF EXISTING SPLIT SYSTEM UNITS INCLUDING GROUND MOUNTED CONDENSING UNITS AND ALL ASSOCIATED CONDUNITS, PIPING, SUPPORTS, ETC. REPLACEMENT WITH NEW ROOF MOUNTED HVAC UNITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED.

IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MFR UNIT WITH NEW HVAC SYSTEM REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- (2018 INTERNATIONAL BUILDING CODE - VOL. 1 & 2 AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
- (2018 APFMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- (2018 APFMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
- (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
- (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (CEC), PART 12, TITLE 24 CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2016 ASME A17.1 CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2016 CCR PART 04 30)
- NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 14 - STANDARD FOR INSTALLATION OF SAND PIPE AND HOSE SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 ADDITION
- NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 ADDITION
- NFPA 20 - STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2017 ADDITION
- NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 ADDITION
- NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 ADDITION
- NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ADDITION
- NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE 2016 ADDITION
- NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2016 ADDITION
- UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
- UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 ADDITION
- UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 ADDITION
- UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010)
- ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 ADDITION

DSA GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), NOT WITHSTANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS, COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT; AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS ACCESSIBILITY, STRUCTURAL ENGINEER AND FIRE SAFETY SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK.
- THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT; STRUCTURAL ENGINEER OF RECORD, AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER.
- ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- A DSA-ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH.)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT <https://www.energy.ca.gov/programs-and-topics/programs/acceptance-testing-technician-certification-provider-program/acceptance-test-att>
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

VICINITY MAP



PROJECT DIRECTORY

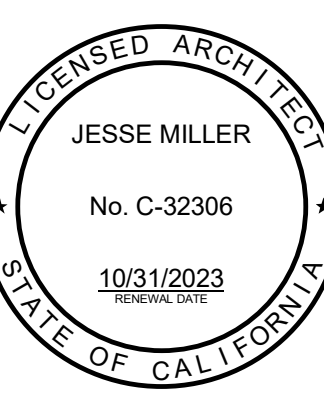
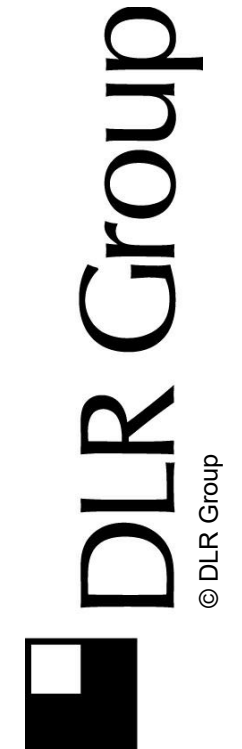
OWNER
COVINA VALLEY UNIFIED SCHOOL DISTRICT
519 E. BADILLO ST.
COVINA, CA 91723
CONTACT: BRIAN JOHNSON
PH: 626 974 7000
BJOHNSON@CVUSD.ORG

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JMILLER@DLRGROUP.COM

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ORON STRUCTURAL ENGINEERING, INC.
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RYAN@ORON.ES.COM

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DZHAO@DLRGROUP.COM



ROWLAND ELEMENTARY SCHOOL
COVID 19- COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
1355 E. ROWLAND AVE. WEST COVINA, CA 91790

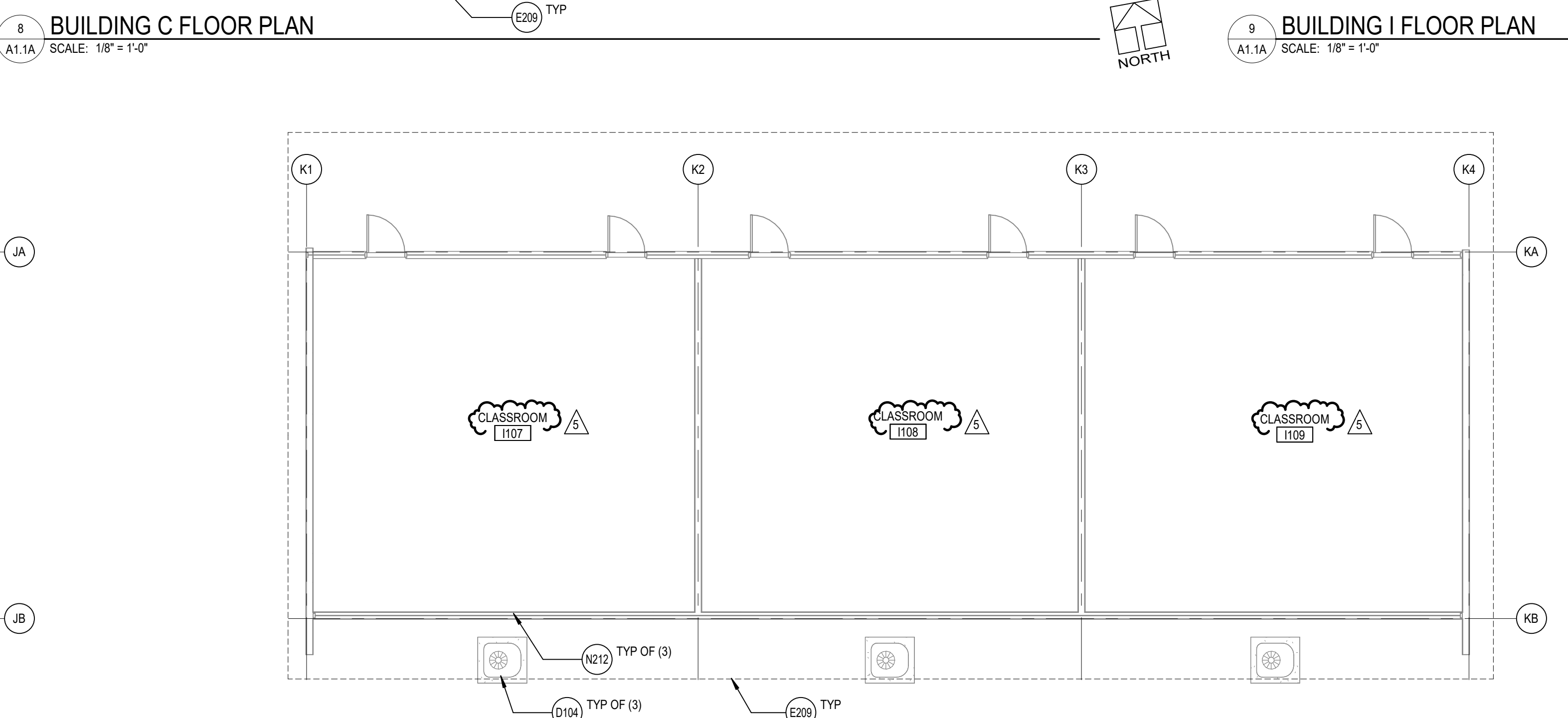
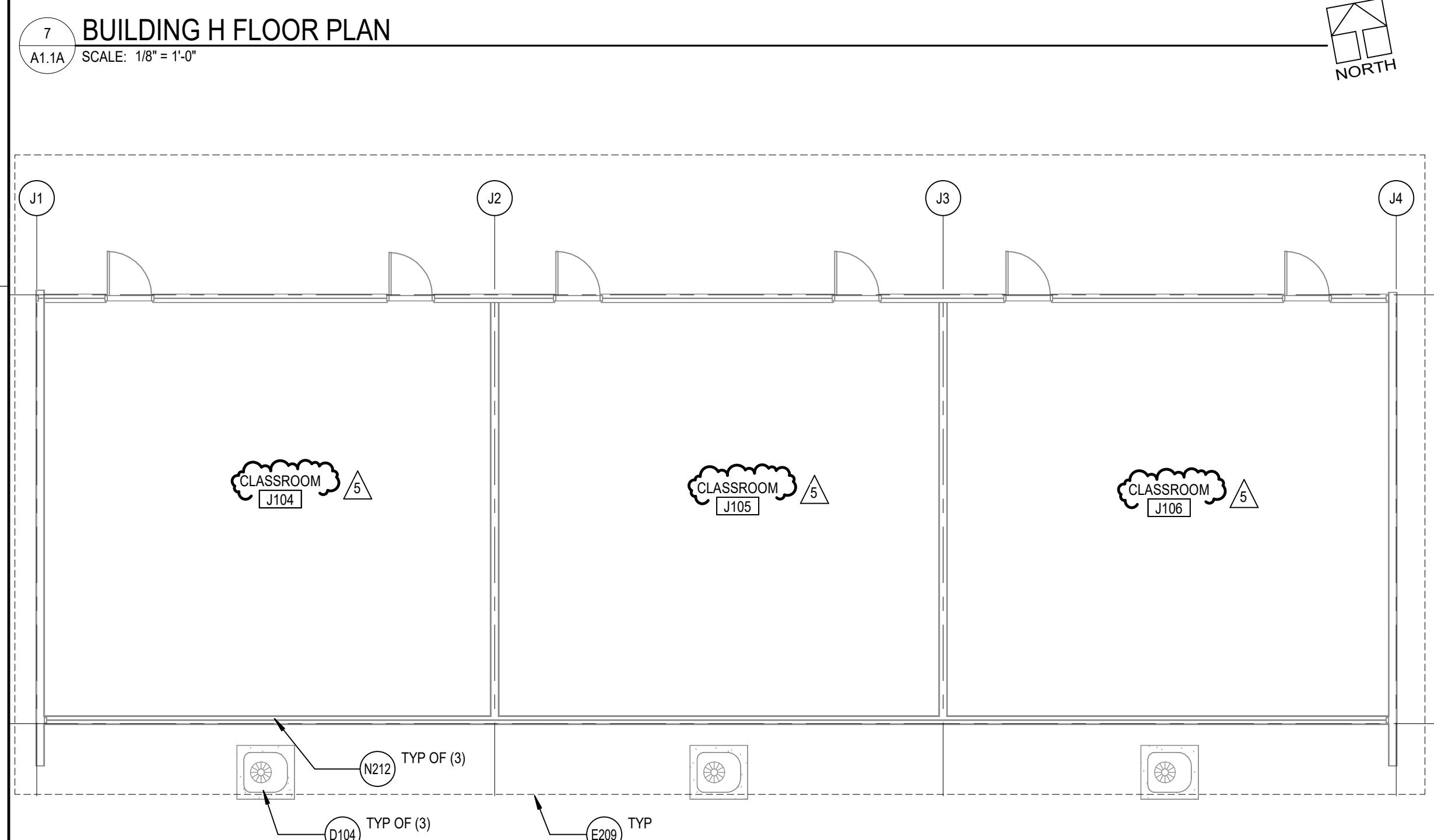
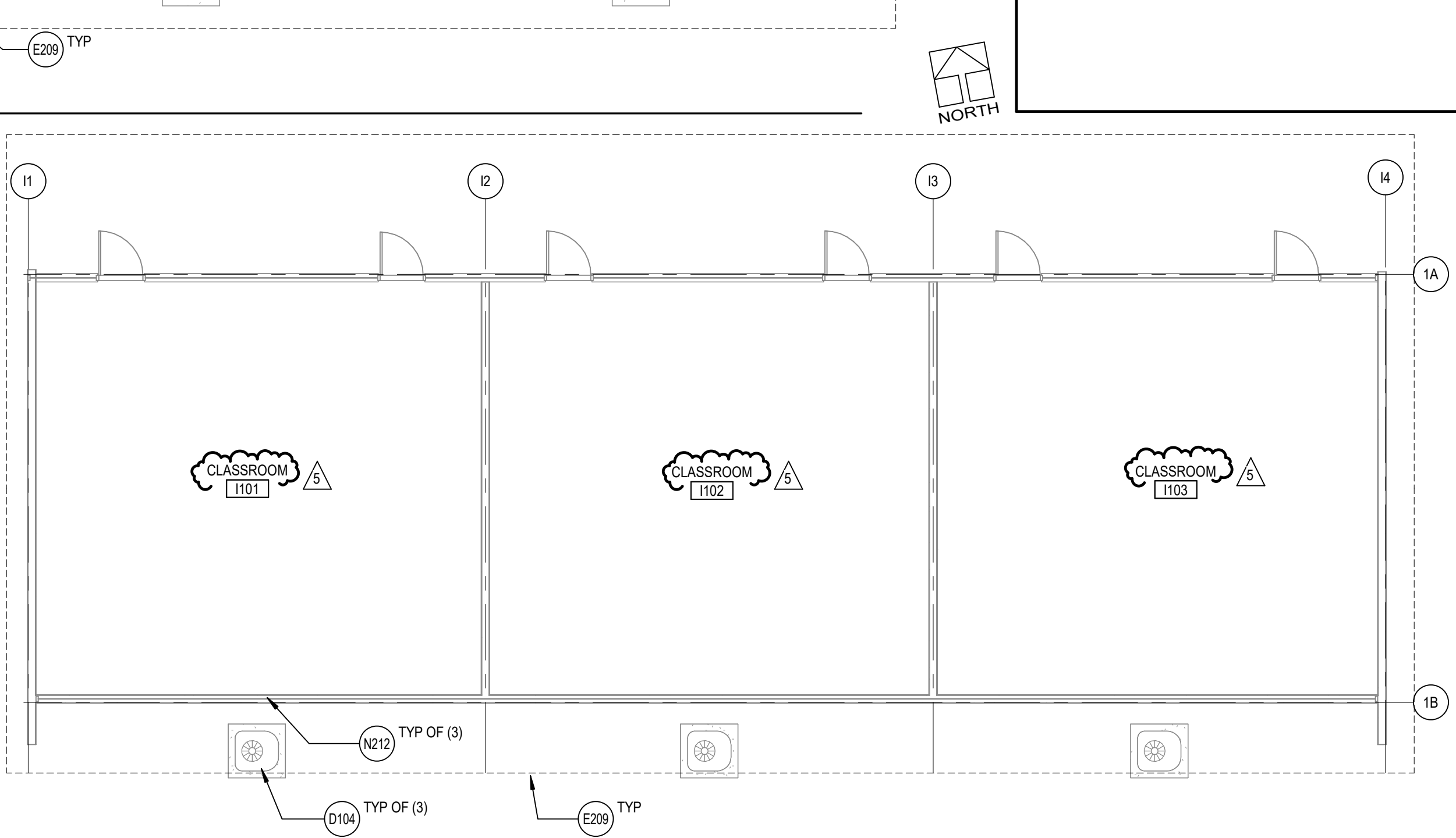
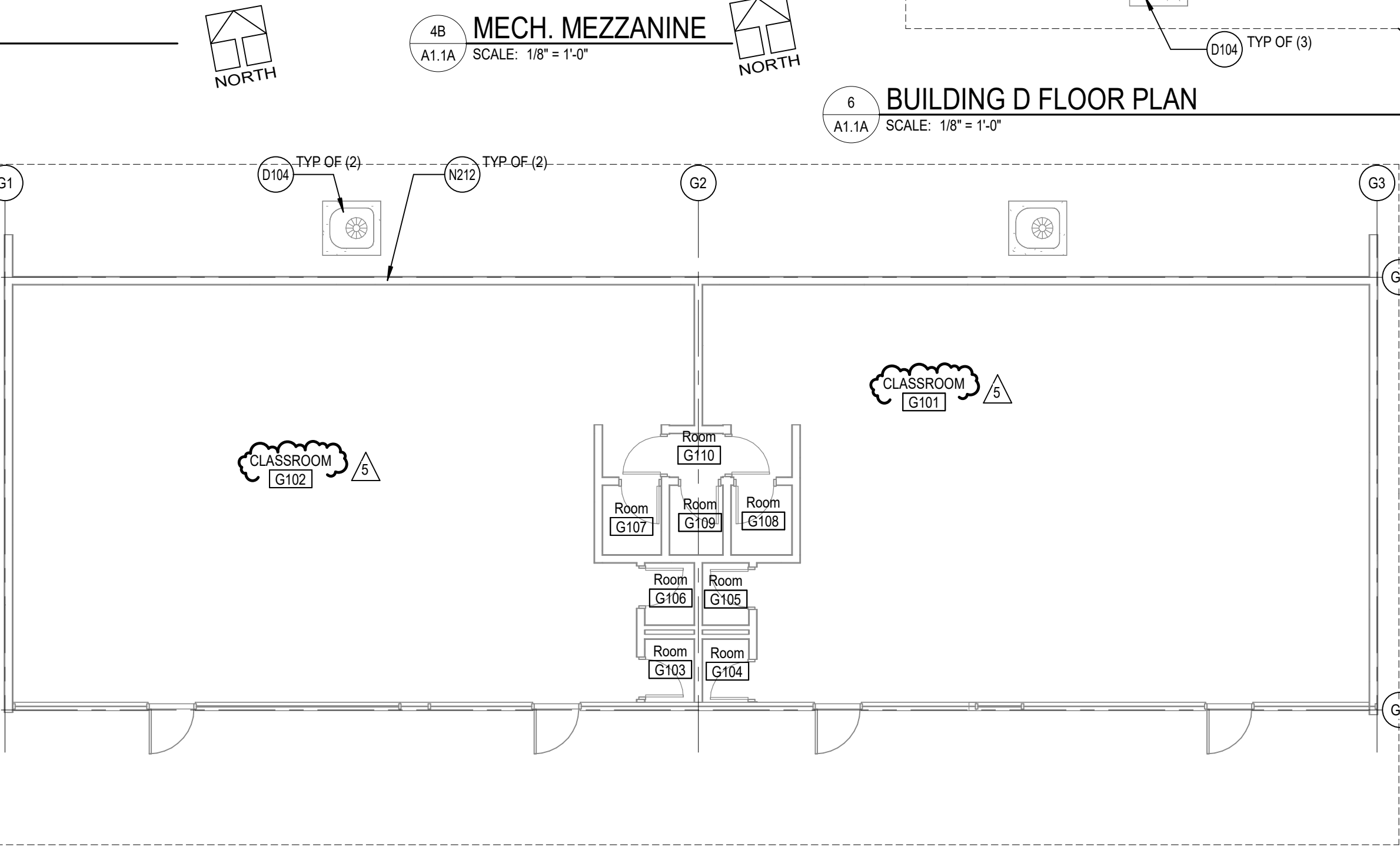
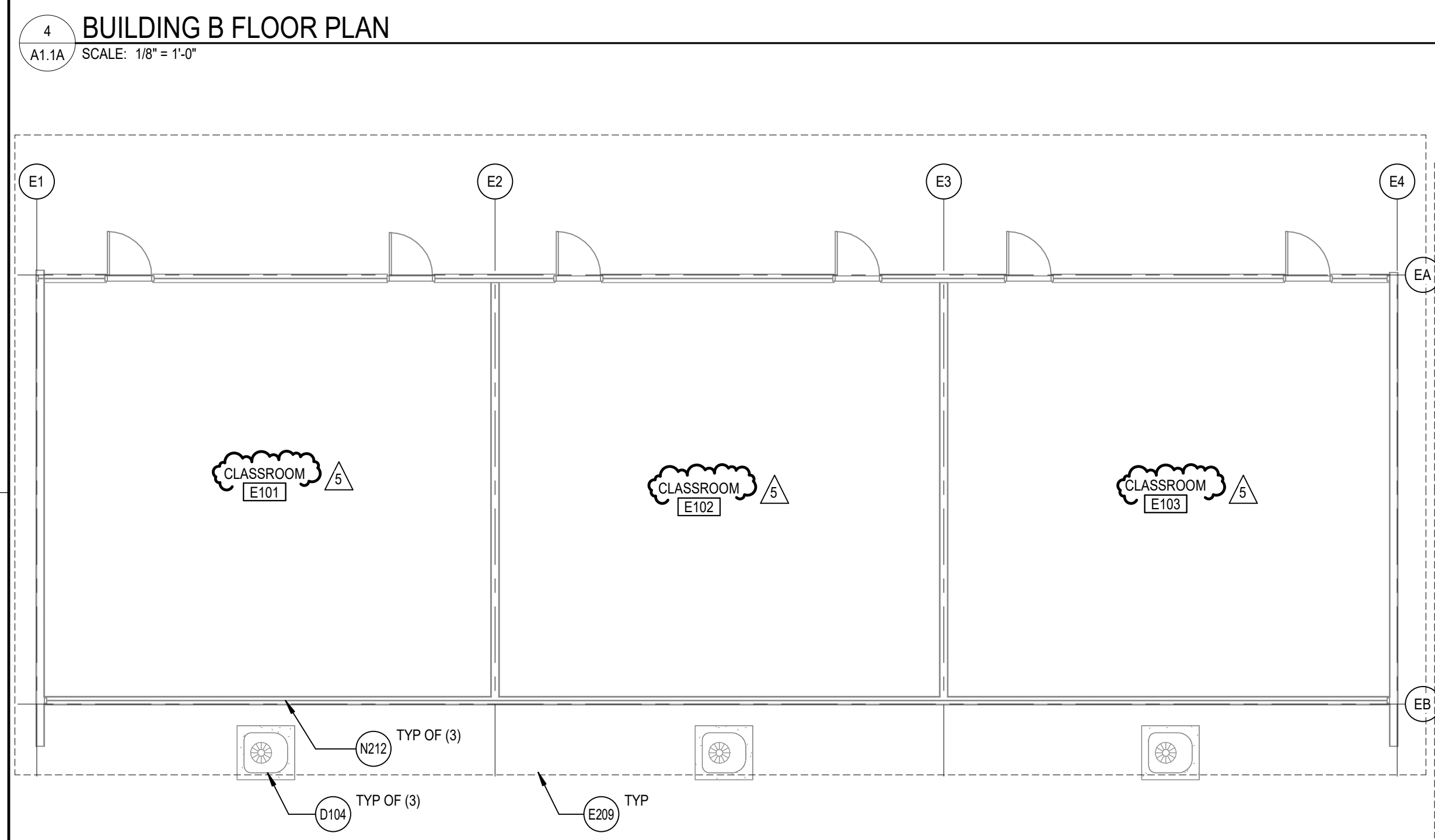
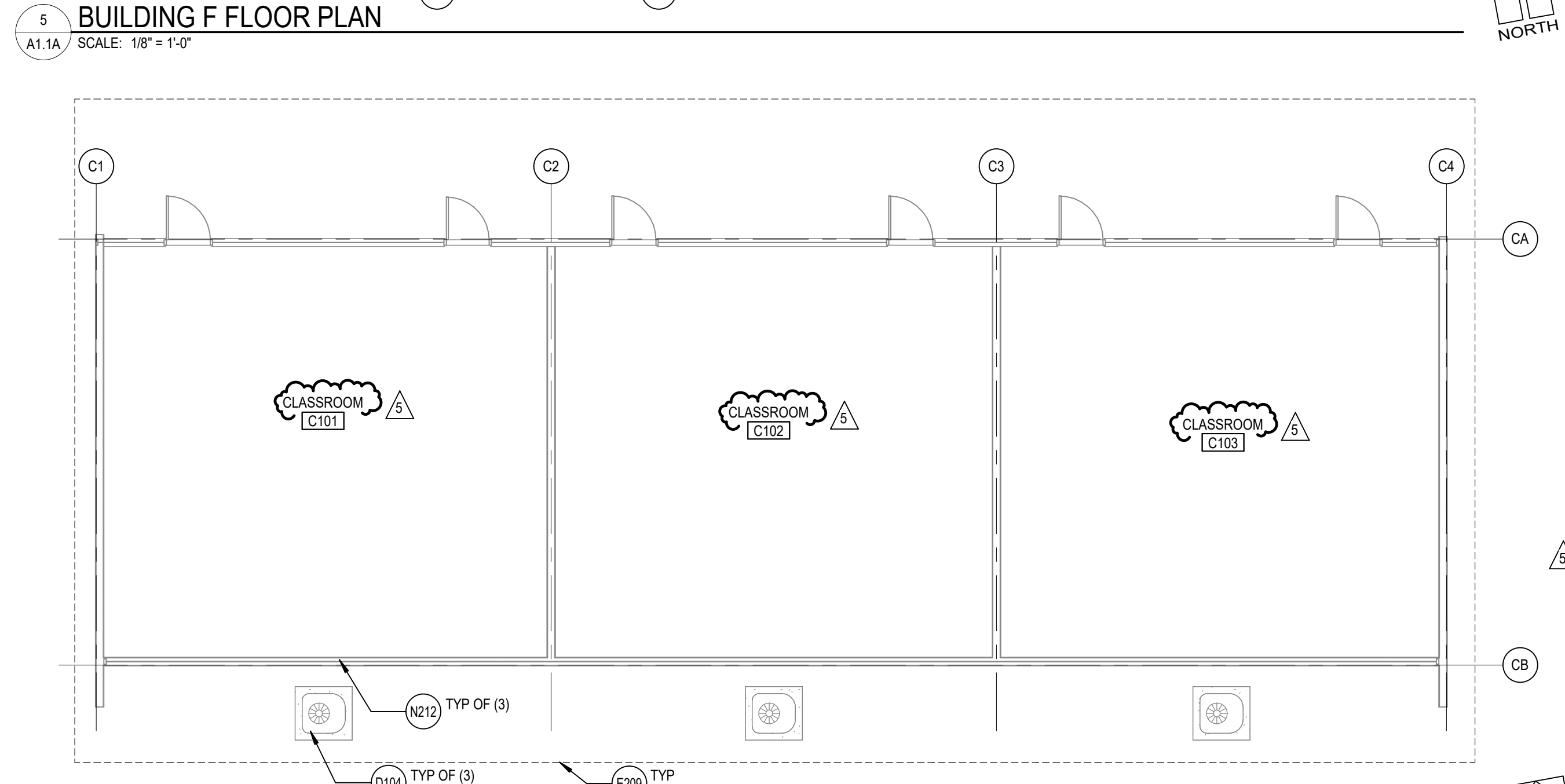
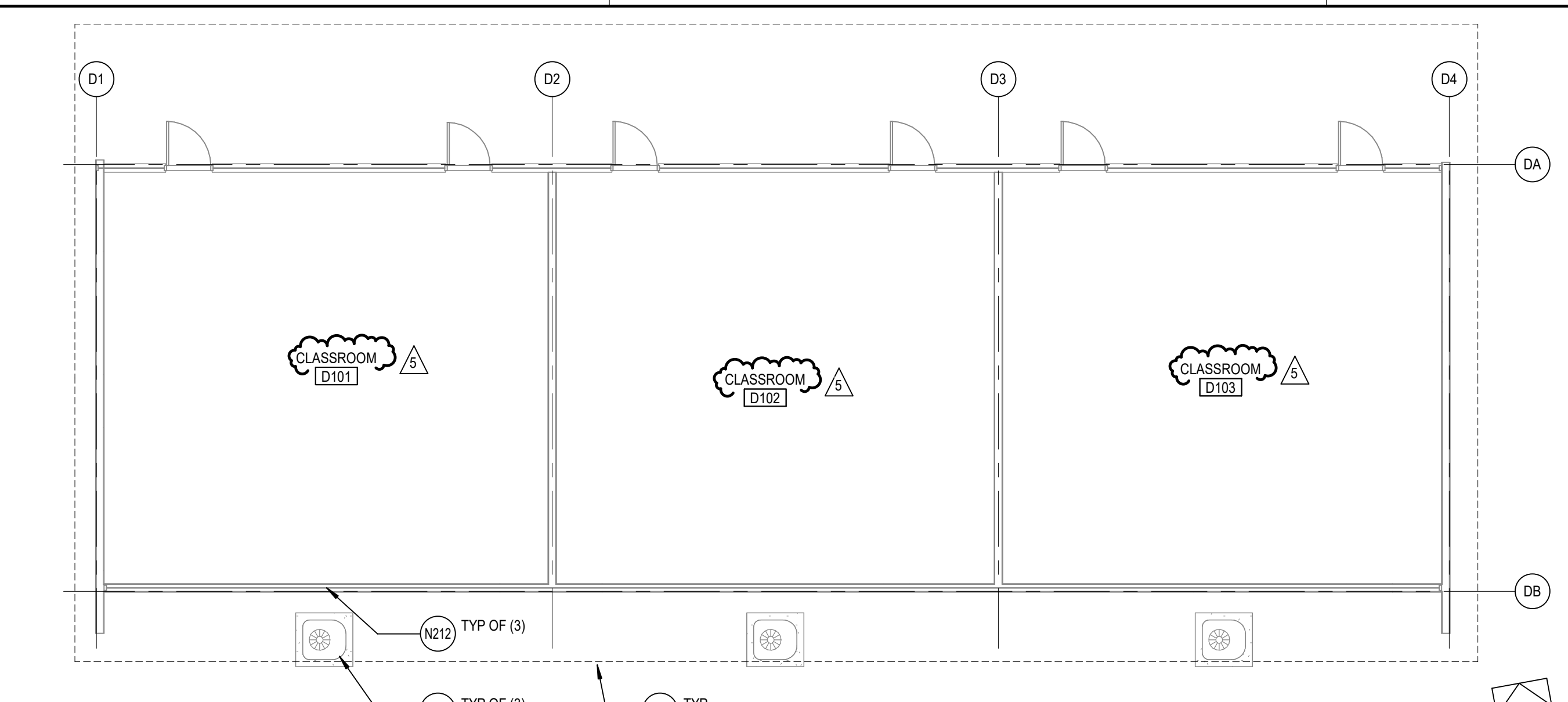
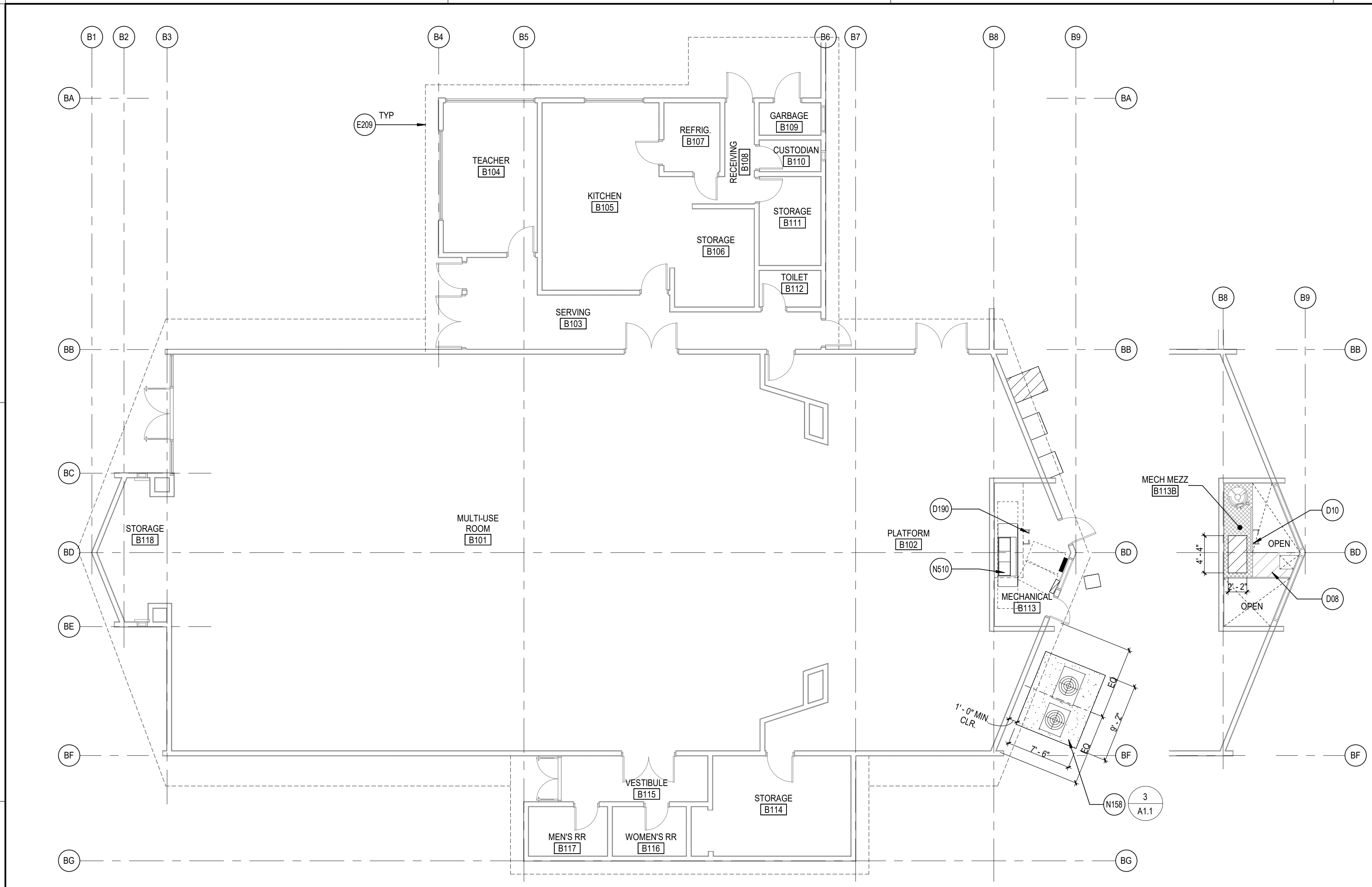
100% CONSTRUCTION DOCUMENTS

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REVISIONS
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DSA A#03-122233
DSA File #: 19-25
COVER SHEET

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DEMOLITION GENERAL NOTES

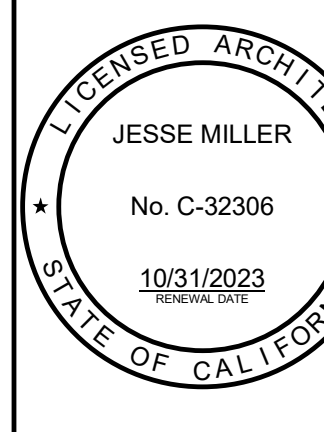
- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

- D08 DEMO PORTION OF (E) MEZZANINE FLOOR AND FRAMING. SEE STRUCTURAL DWGS.
D10 ENLARGE (E) OPENING AT (E) MEZZANINE FLOOR TO ALLOW FOR NEW MECH. EQUIPMENT. COORDINATE W/ MECH AND STRUCTURAL.
D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACES.
D190 REMOVE (E) LADEE.
E209 LINE OF (E) ROOF ABOVE SHOWN DASHED.
N158 NEW MECHANICAL EQUIPMENT (O) NEW 6" THK, TOP LEVELED CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.
N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.
N510 NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.

GENERAL ARCHITECTURAL NOTES

- ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
- NOT USED
- INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS WHERE OCCUR.
- GYP SUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- NOT USED
- SCRIBE GYP SUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
- MAINTAIN (E) SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS.



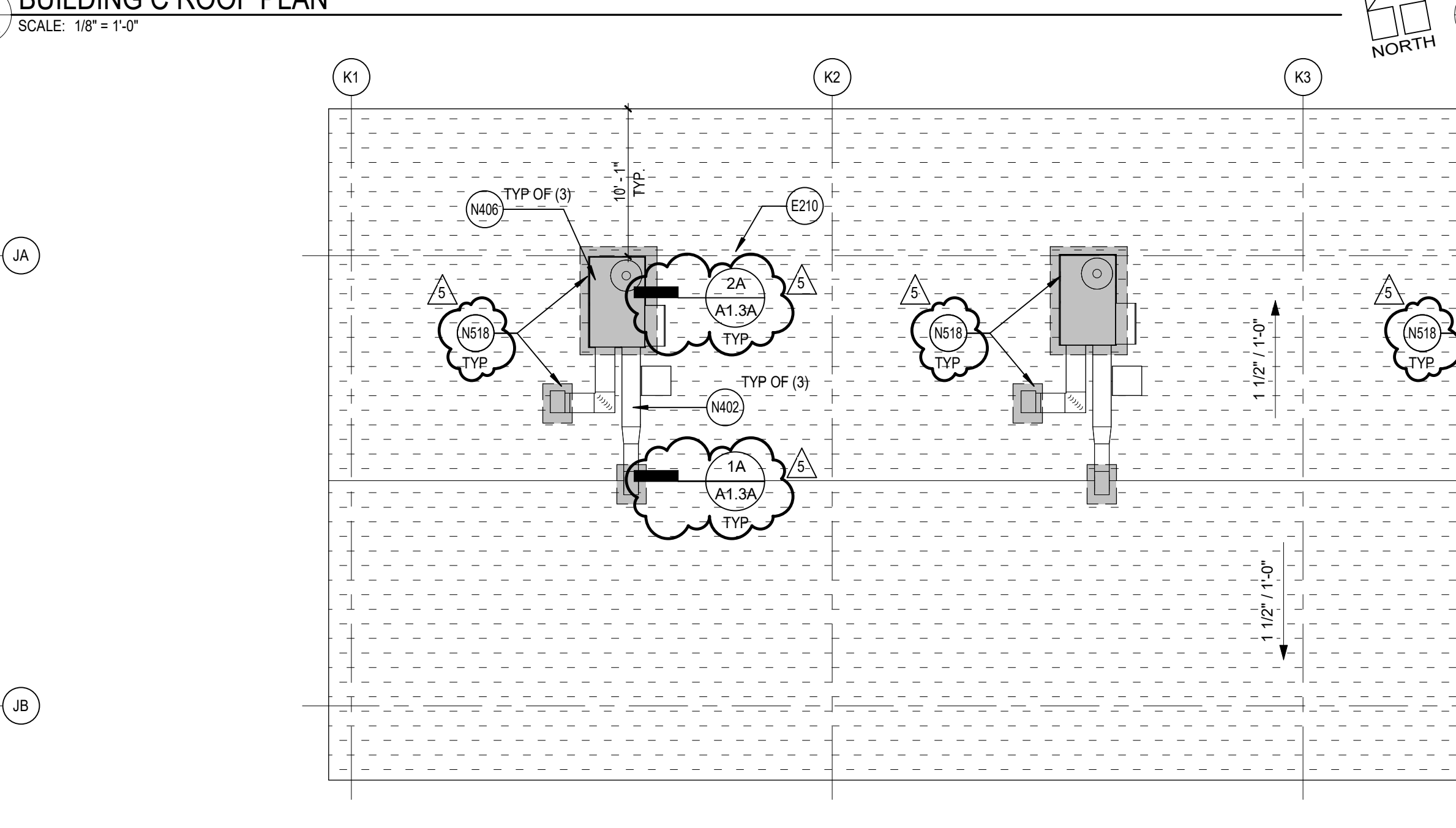
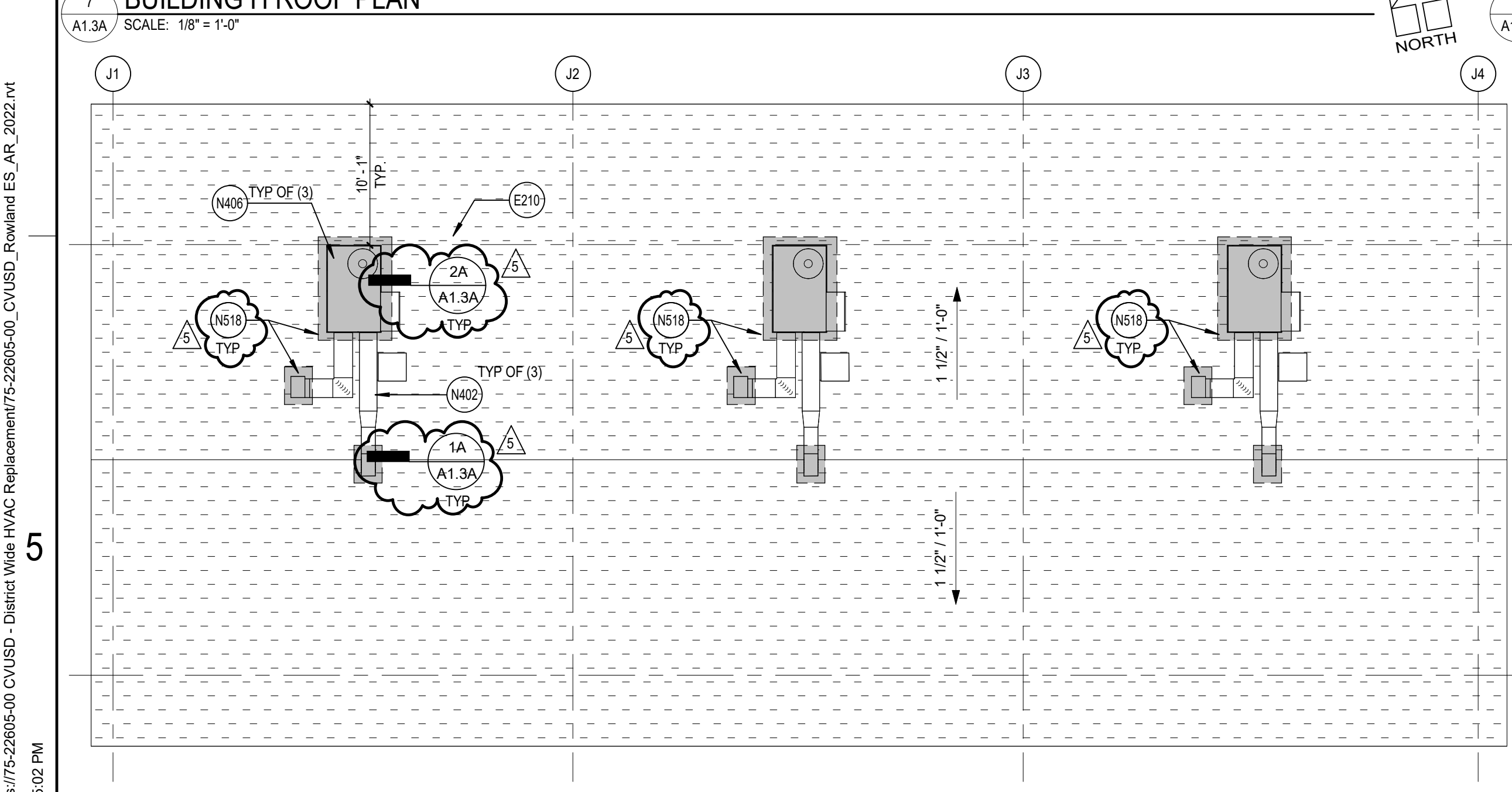
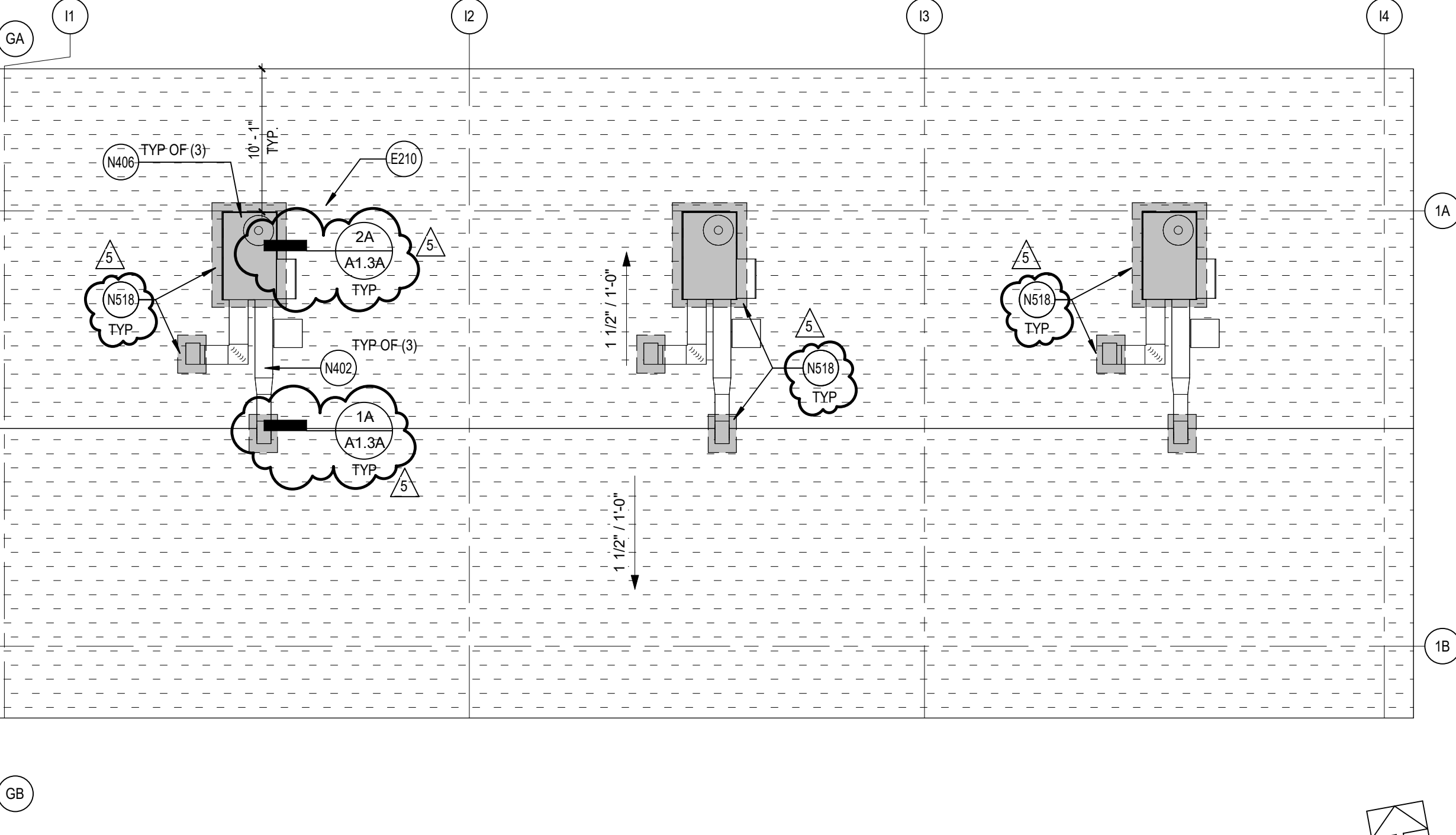
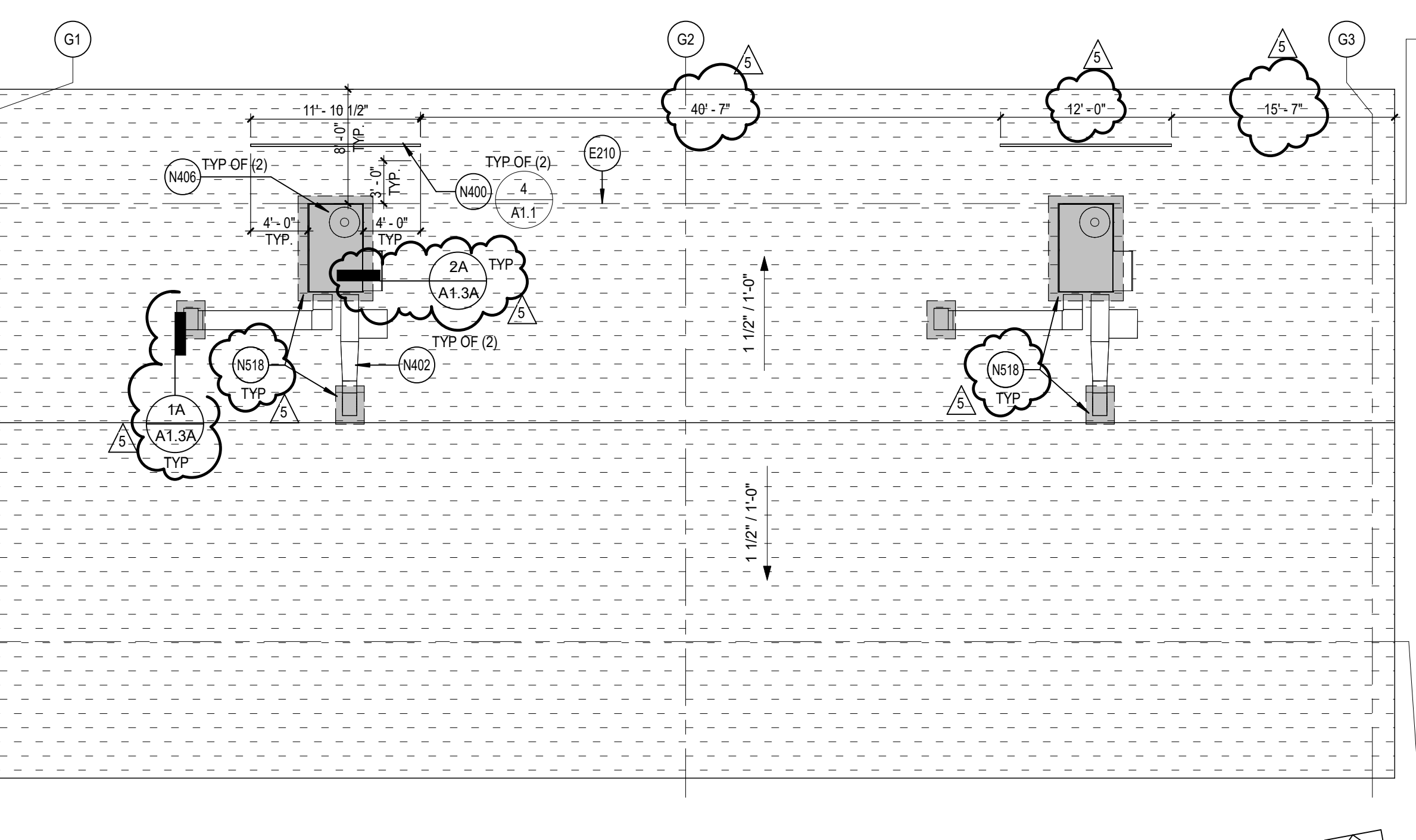
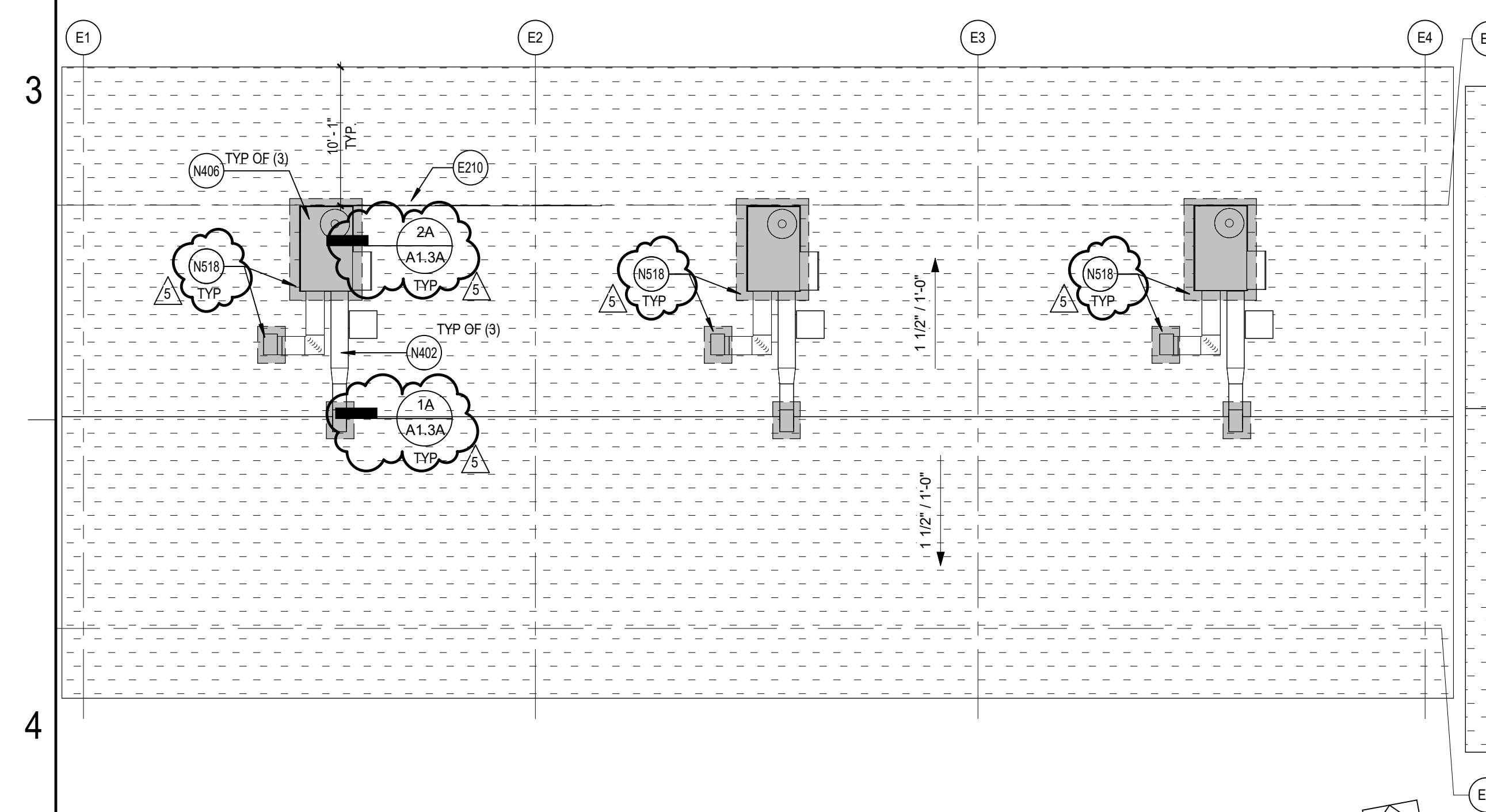
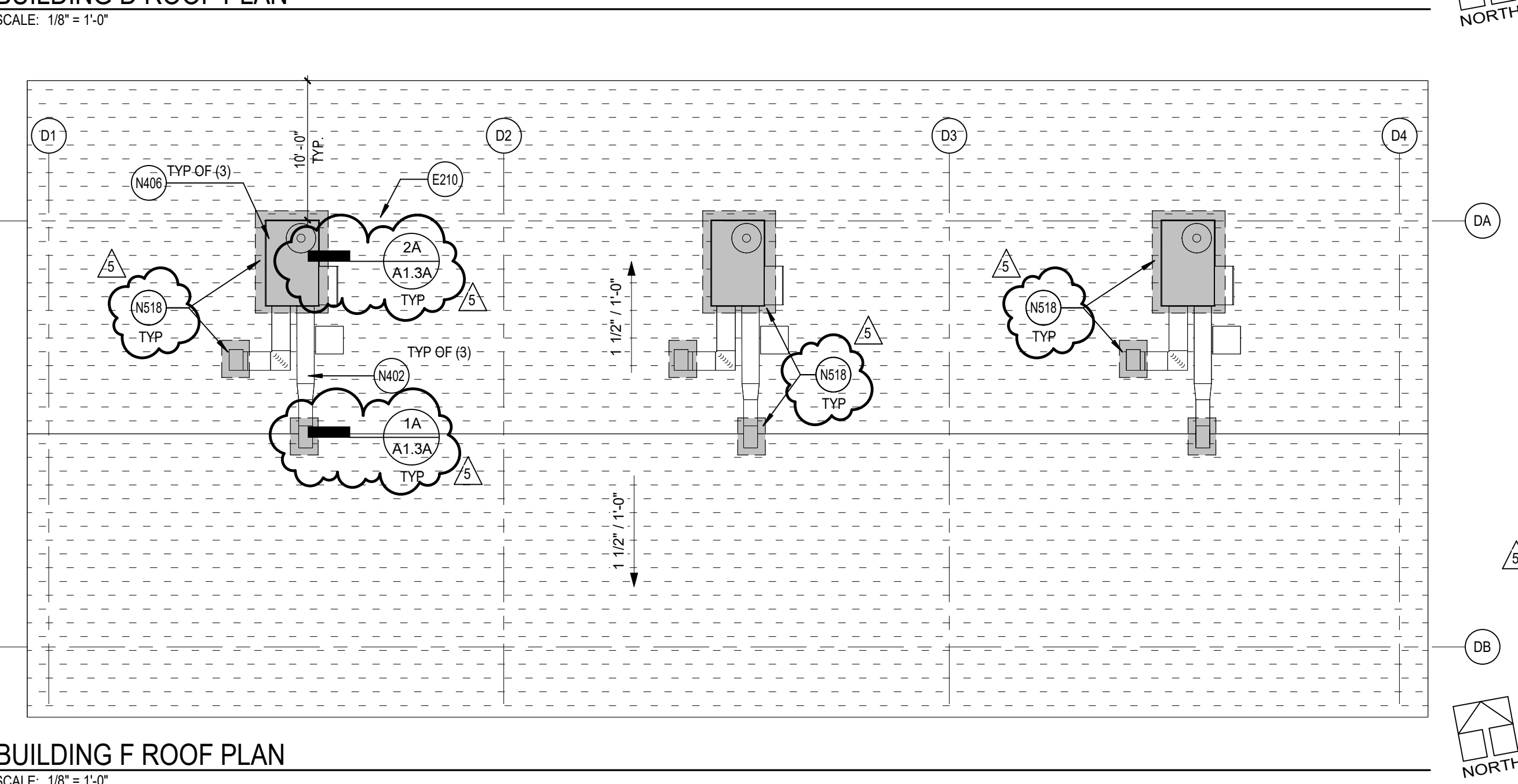
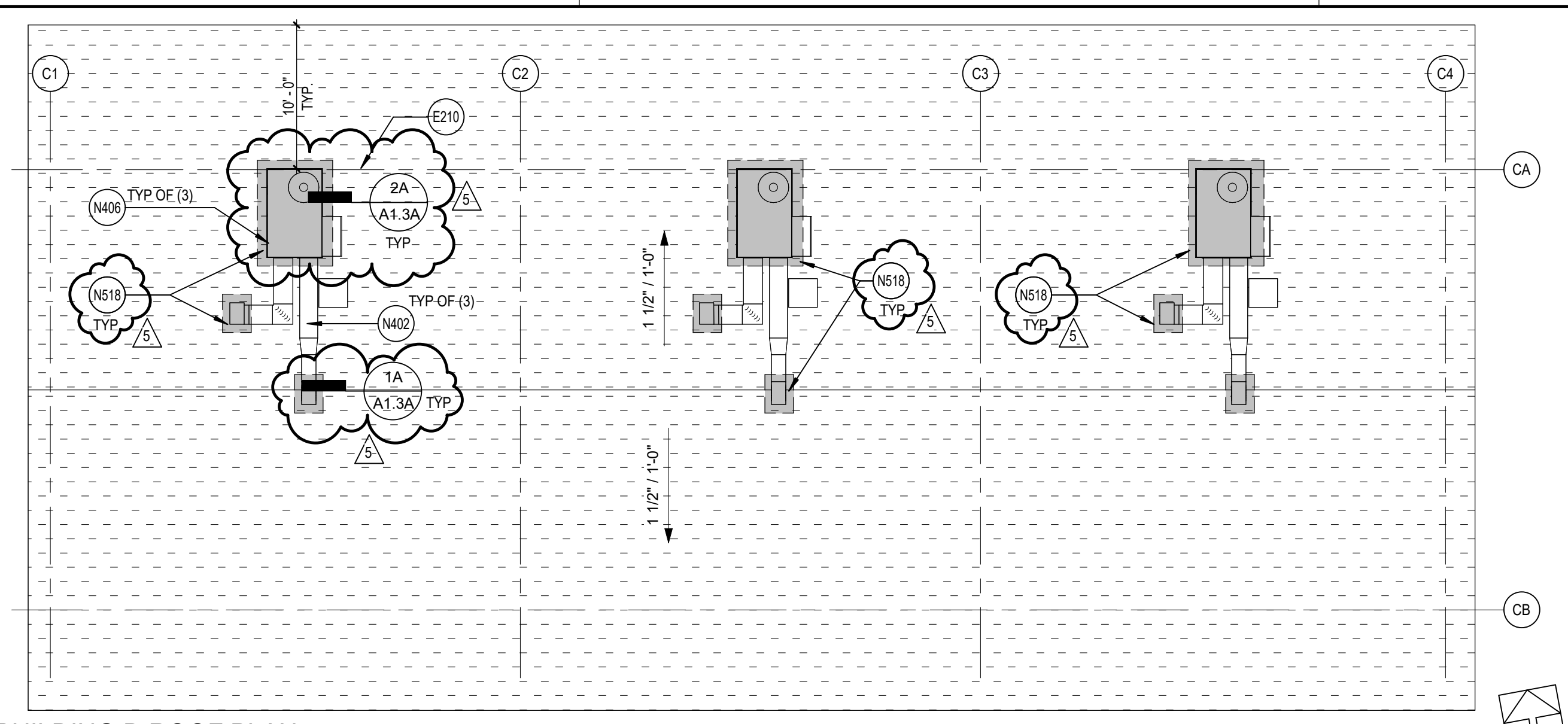
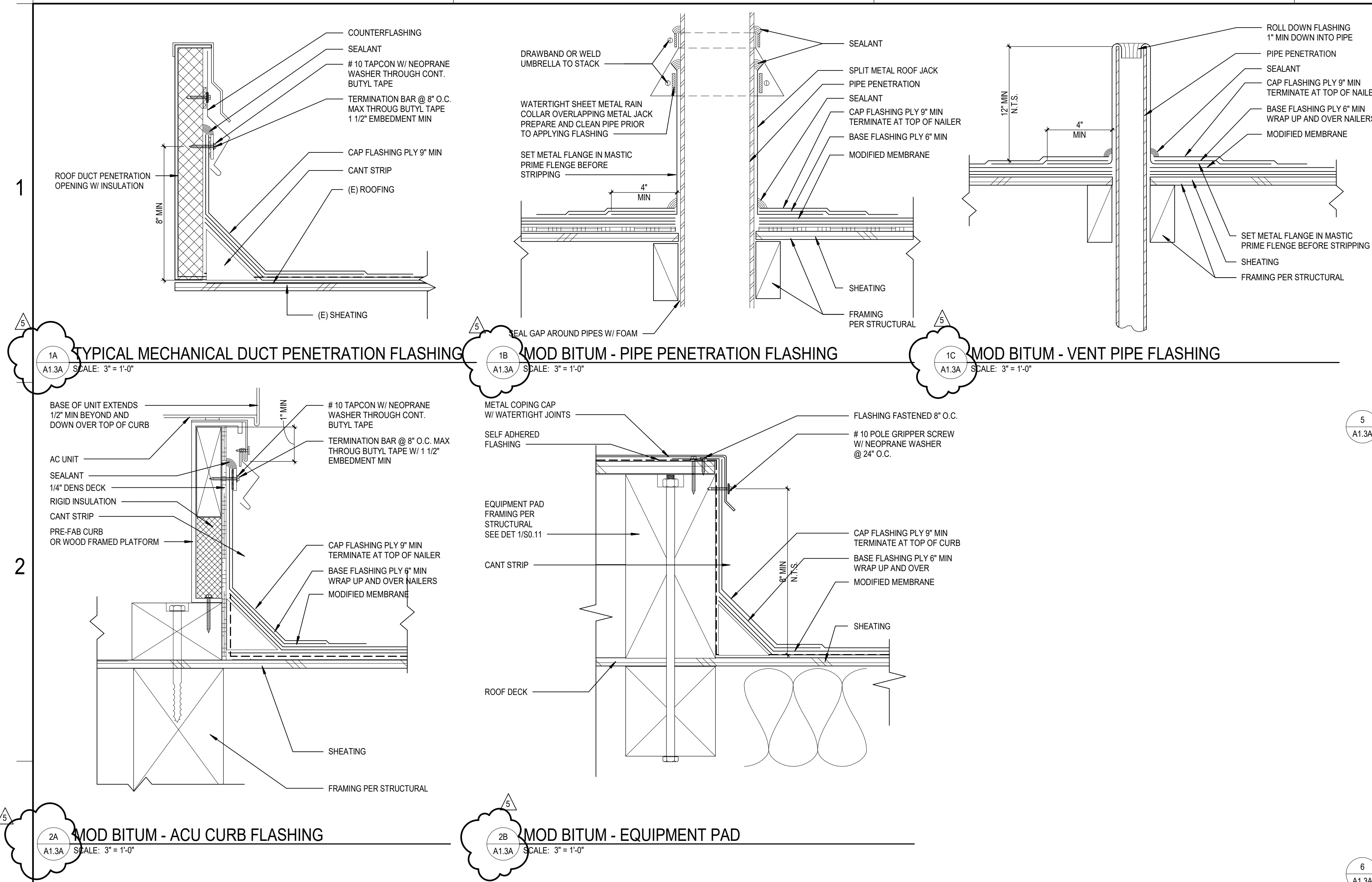
ROWLAND ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
1355 E. ROWLAND AVE. WEST COVINA, CA 91790

100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-12233
DSA File #: 19-25
FLOOR PLANS

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DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
- COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
- VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

E210
N400
N402
N519

LINE OF (E) BLDG BELOW SHOWN DASHED DRAWINGS SHEET M7.3C FOR ADDITIONAL INFORMATION
SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTION 05 52 00
NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
(N) MECHANICAL UNITS ATTACHED TO THE (E) UNIT CURB. SEE MECHANICAL DRAWING SHEET M7.3, M7.4 AND M7.5
(N) ROOF PATCHING IN AREA OF WORK

ROOF PLAN GENERAL NOTES

A (E) ROOF CURBS TO REMAIN U.N.O., SEE MECHANICAL DRAWINGS SHEET M7.3C FOR ADDITIONAL INFORMATION
B COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
C (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.

DLR Group
LICENSED ARCHITECT
JESSE MILLER
No. C-32306
10/31/2023
STATE OF CALIFORNIA

USG

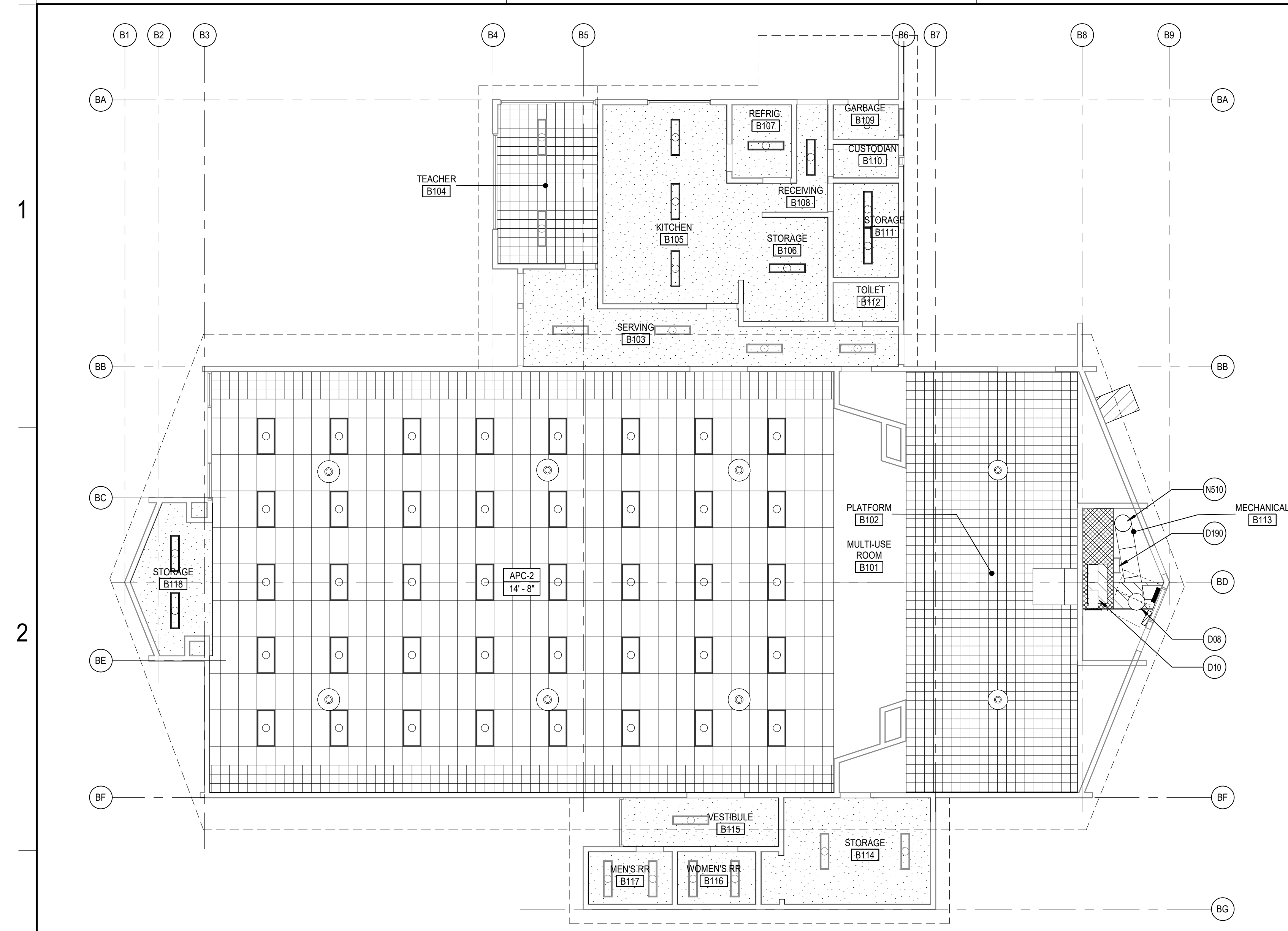
ROWLAND ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
1355 E. ROWLAND AVE. WEST COVINA, CA 91790

100% CONSTRUCTION DOCUMENTS
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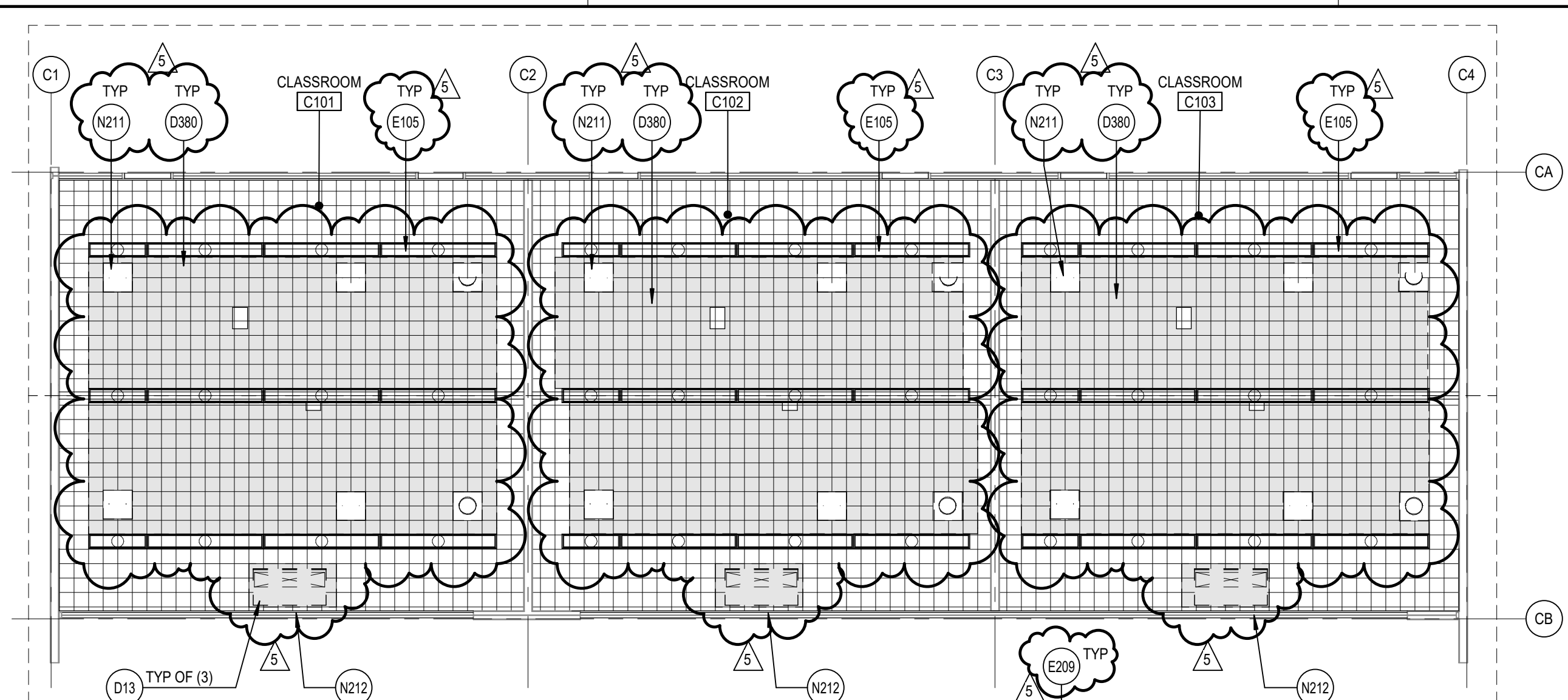
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ROOF PLANS

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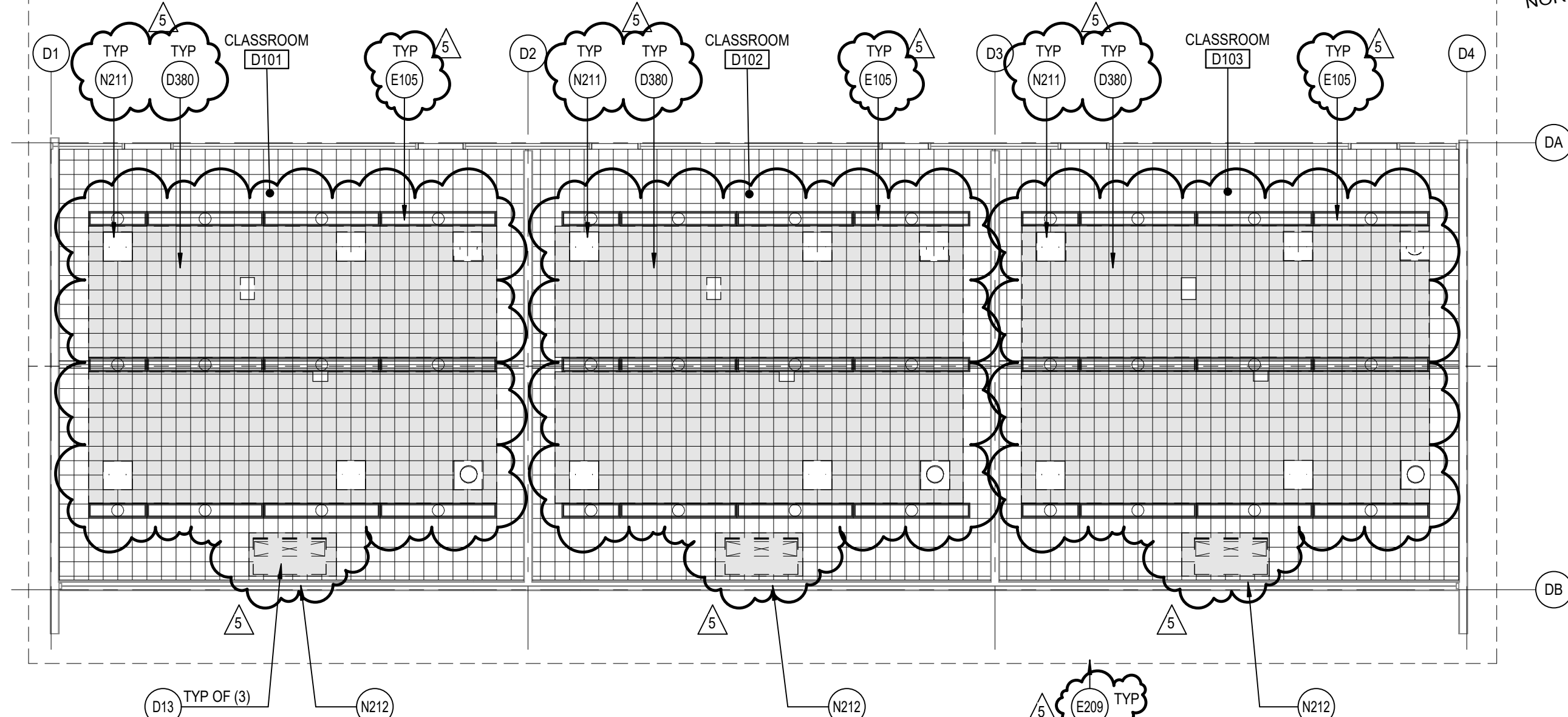
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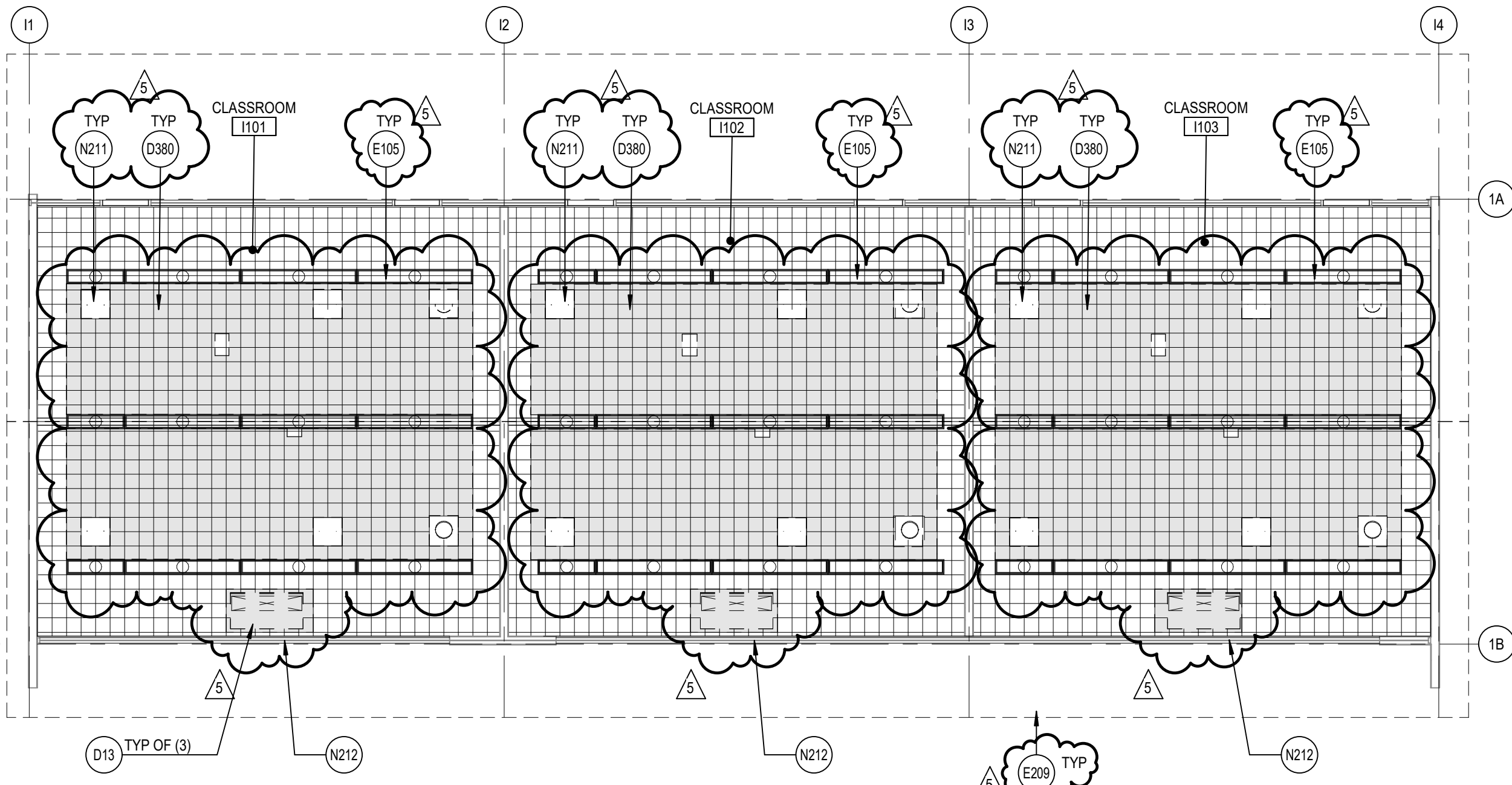
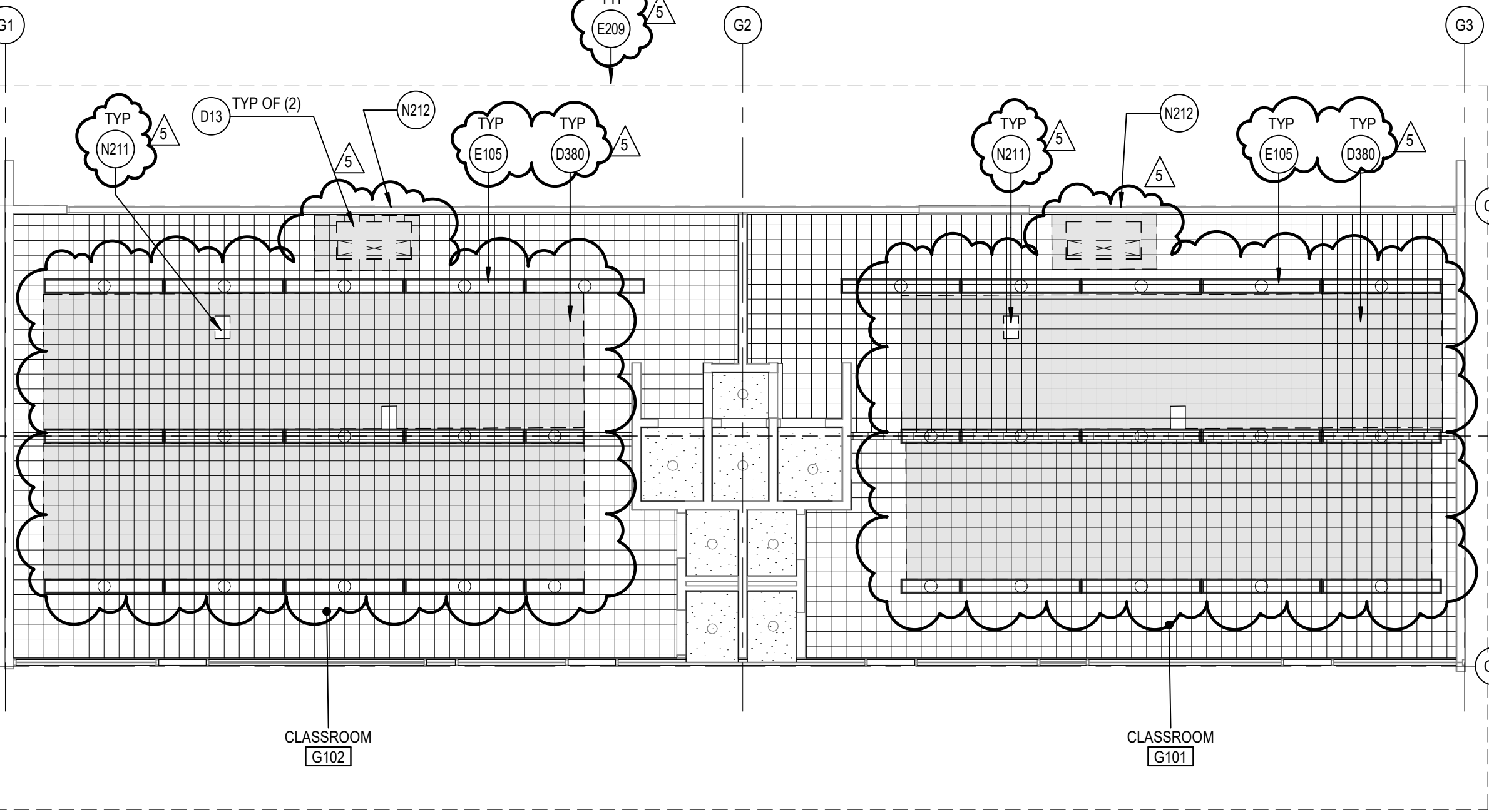
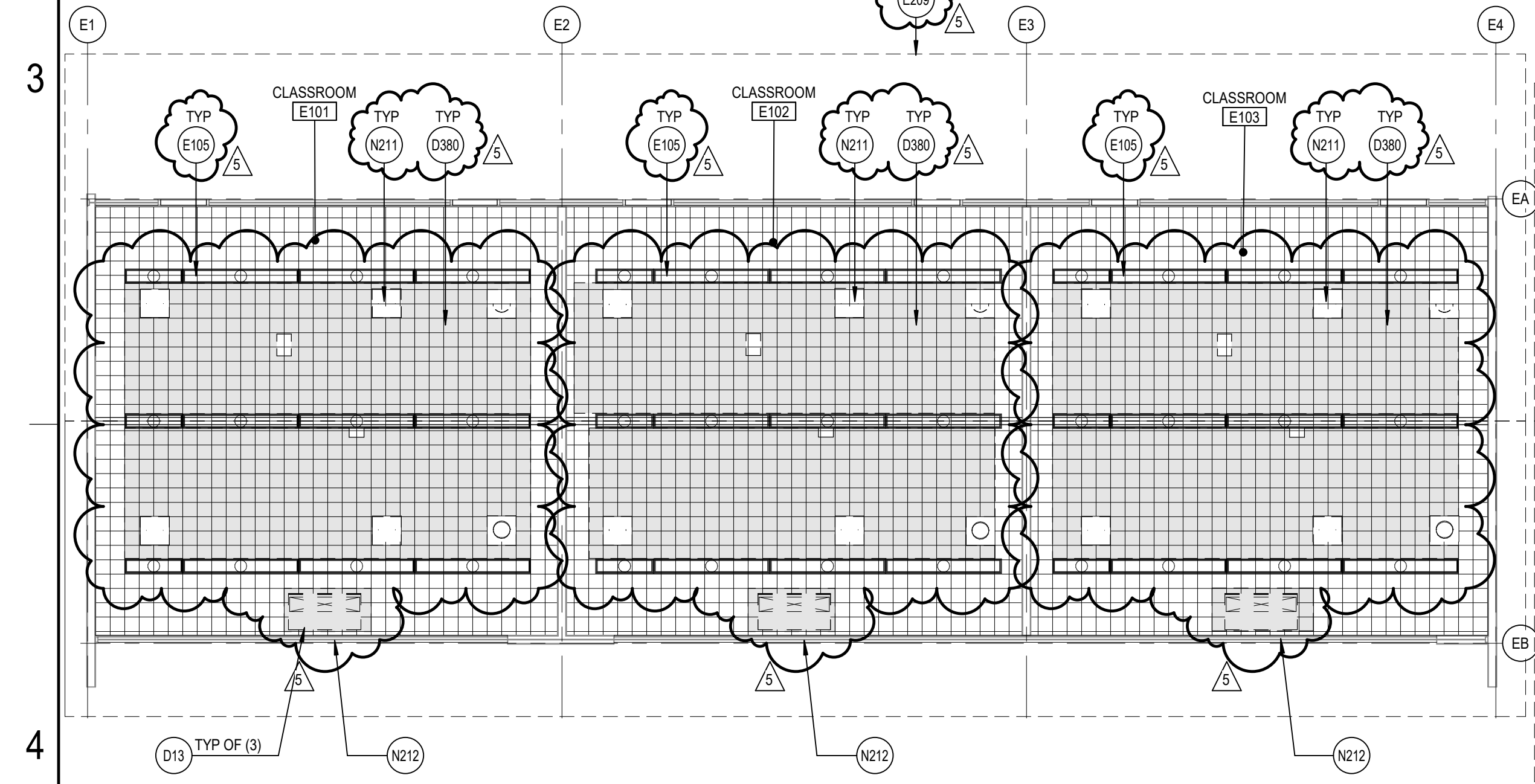
4 BUILDING B REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"



5 BUILDING C REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"



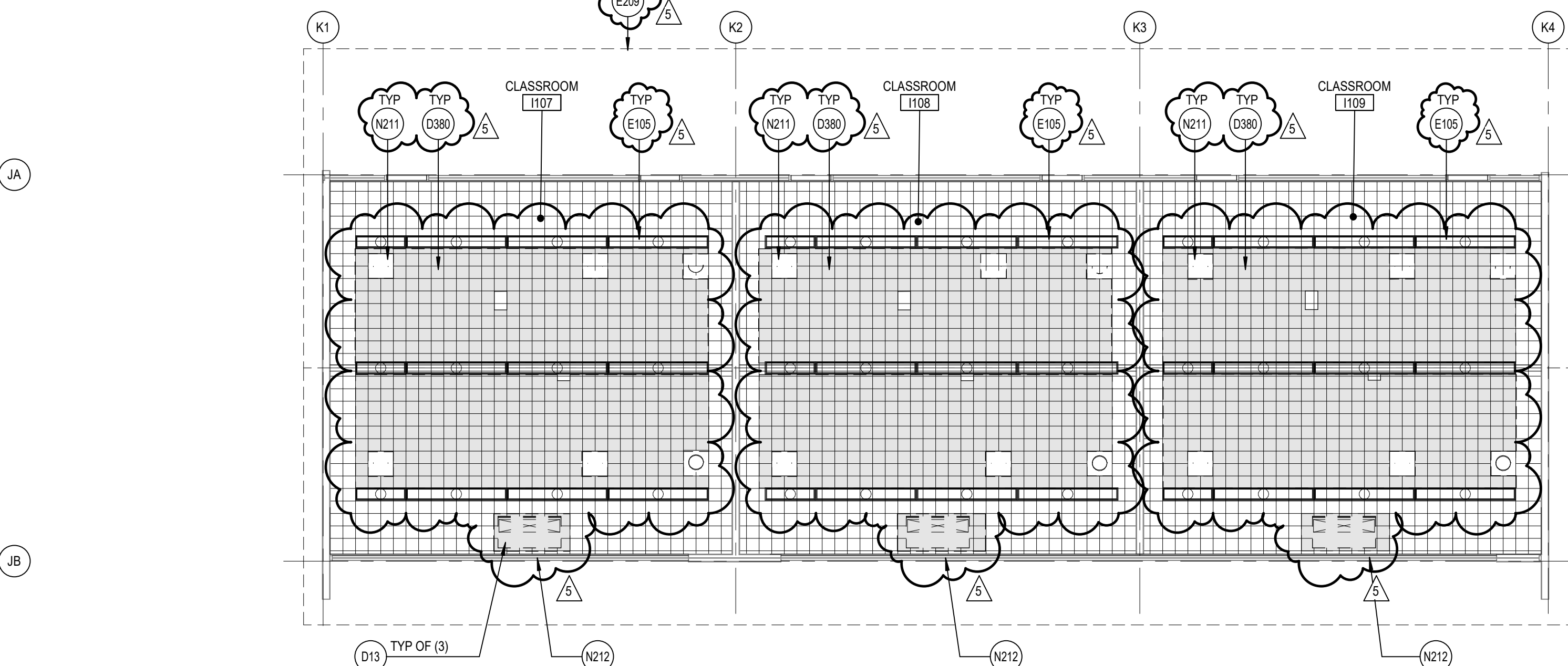
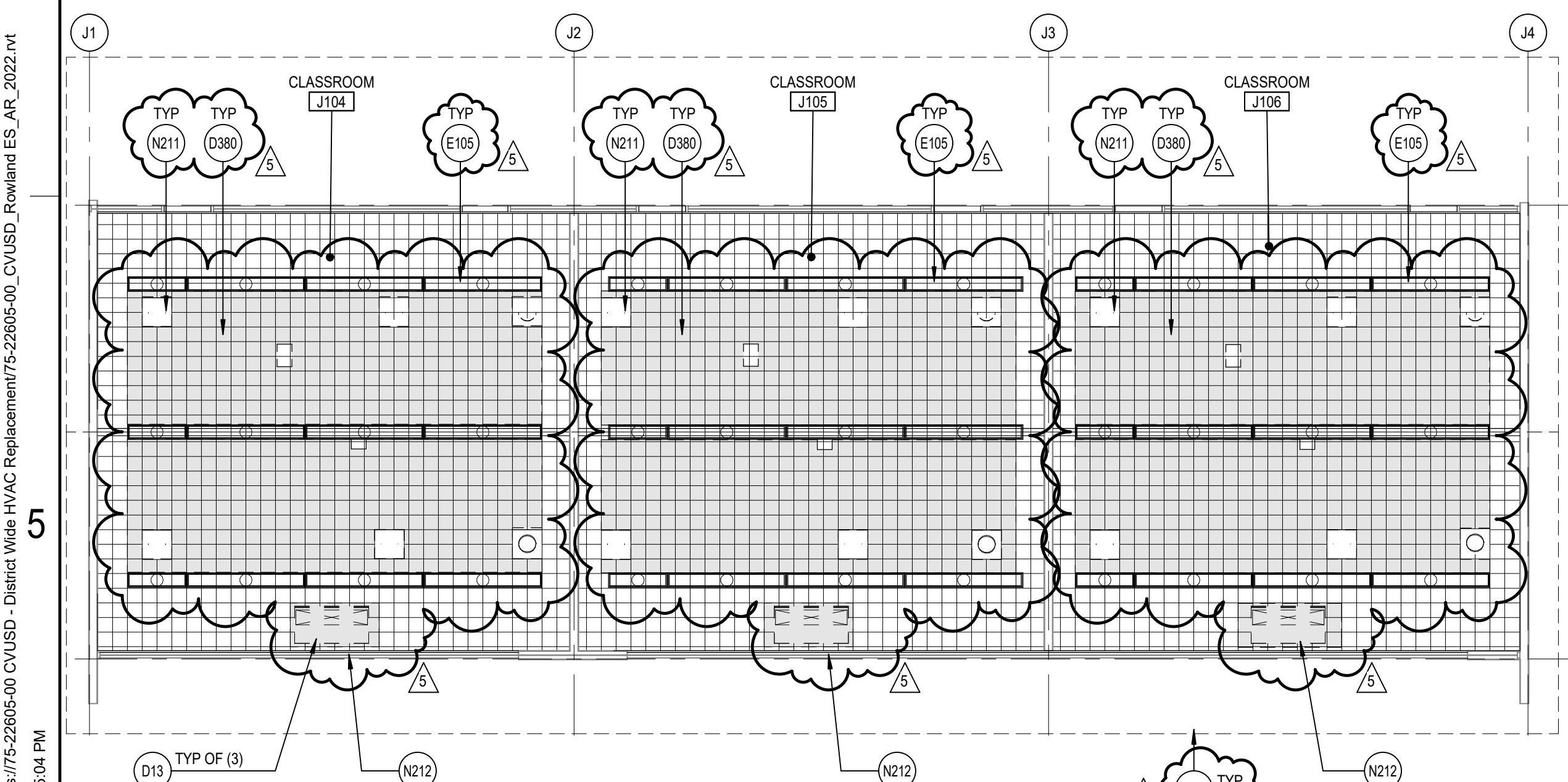
6 BUILDING D REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"



7 BUILDING E REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"

8 BUILDING G REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"

9 BUILDING I REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"



10 BUILDING J REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"

11 BUILDING K REFLECTED CEILING PLAN
A3.1A / SCALE: 1/8" = 1'-0"

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - NOT USED.
 - WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAW-CUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

- D108
 - D110
 - D13
 - D100
 - D380
 - E105
 - E209
 - N211
 - N212
 - N510
- DEMO PORTION OF (E) MEZZANINE FLOOR AND FRAMING. SEE STRUCTURAL DWGS.
ENLARGE (E) OPENING AT (E) MEZZANINE FLOOR TO ALLOW FOR NEW MECH. EQUIPMENT. COORDINATE W/ MECH AND STRUCTURAL.
REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS.
REMOVE (E) LADDER.
DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING.
(E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE.
LINE OF (E) ROOF ABOVE SHOWN DASHED.
REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS.
REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT NEW MECH. EQUIPMENT. SEE MECHANICAL DWGS.

REFLECTED CEILING PLAN GENERAL NOTES

- REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- ALL CEILING GRID/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- REMOVE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS, ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - FACE OF FINISHED WALL
 - FACE OF FINISHED BULKHEADS
 - CENTERLINE OF COLUMNS
 - CENTERLINE OF TEES
- IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.



ROWLAND ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY DISTRICT WIDE HVAC REPLACEMENT
135E E. ROWLAND AVE. WEST COVINA, CA 91790

100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISIONS
11/12/2023

75-22605-00
DSA A#03-12233
DSA File #: 19-25
REFLECTED CEILING PLANS

A3.1A

Autodesk Docu75-22605-00 CVUSD - District Web - HVAC Replacement/75-22605-00_CVUSD_Rowland ES_A3_2022.rvt
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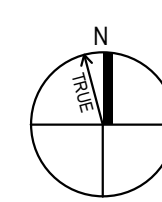
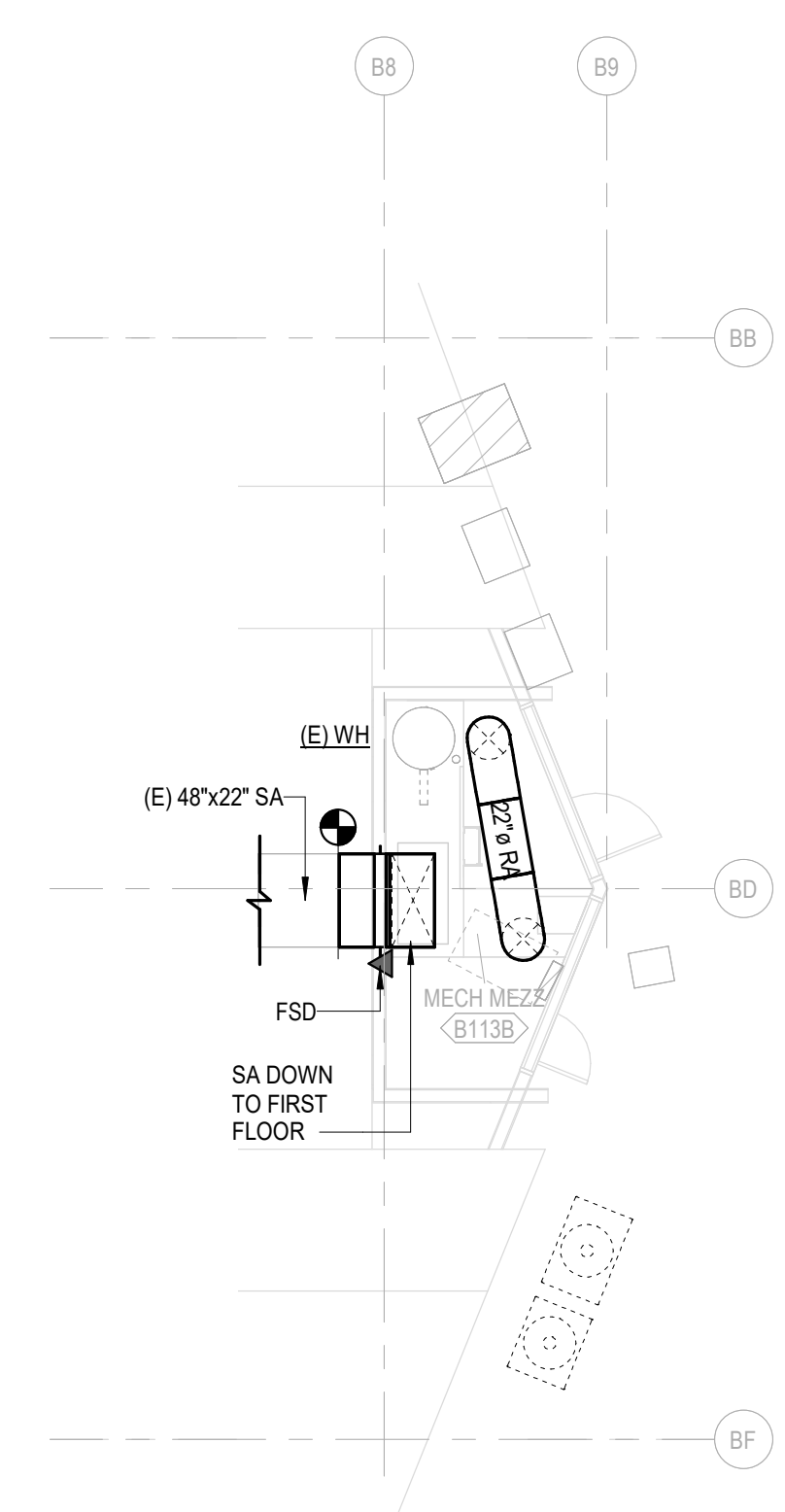
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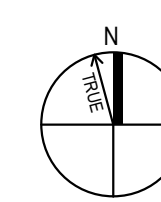
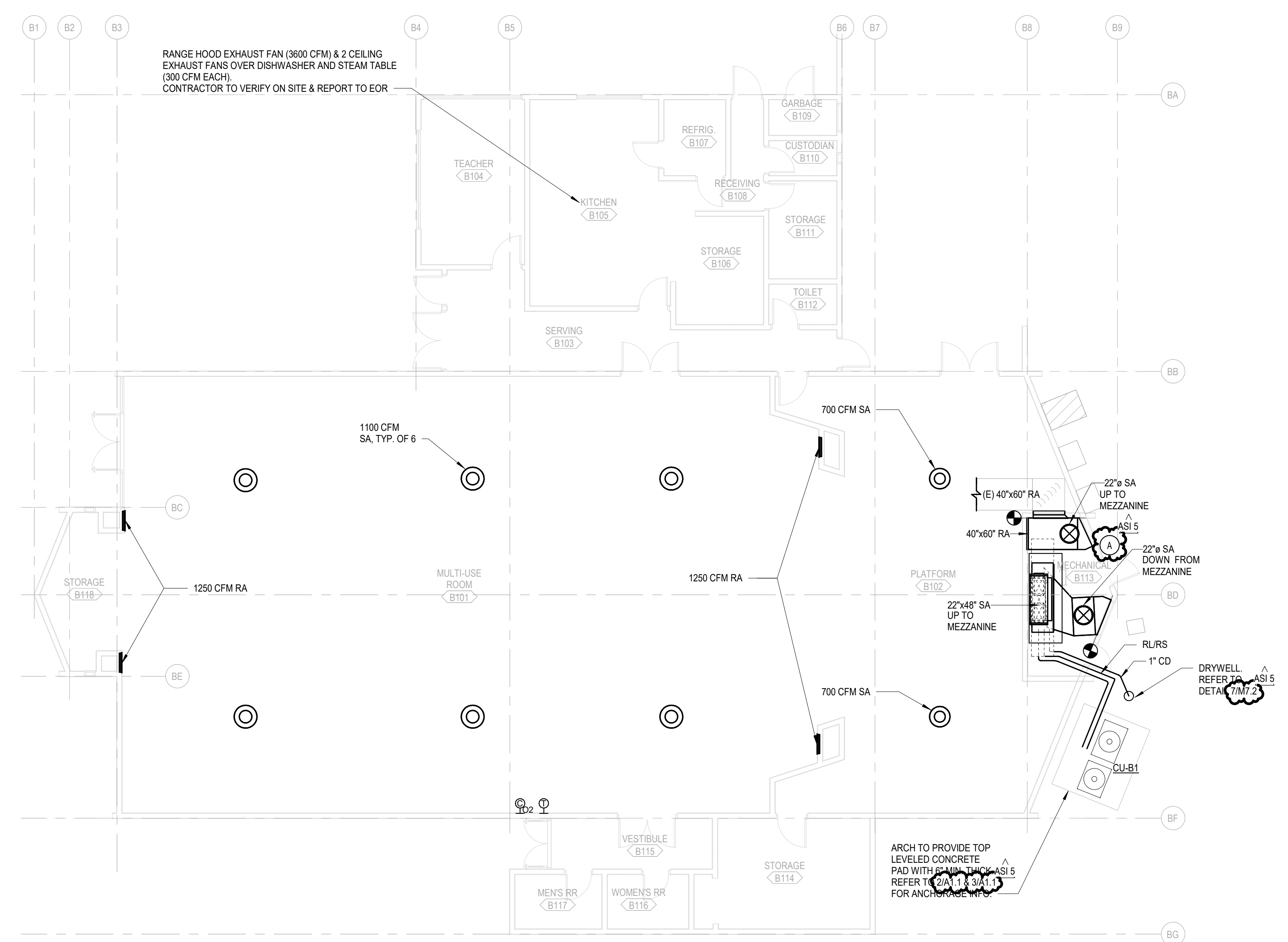
D

E

F



BUILDING B MECH. MEZZANINE
SCALE: 1/8" = 1'-0"



BUILDING B MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMO NOTES	
A	DEMO (E) EQUIPMENT AND SA & RA DUCTWORK IN THE SCOPE AREA UP TO FOC, ALONG WITH ALL THE SUPPORTS, PIPING, OTHER COMPONENTS, TYPICAL FOR MPR ROOM.

GENERAL NOTES	
1	SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2	DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



Rowland Elementary School
COVINA VALLEY USD
1855 E ROWLAND AVE, WEST COVINA, CA 91790

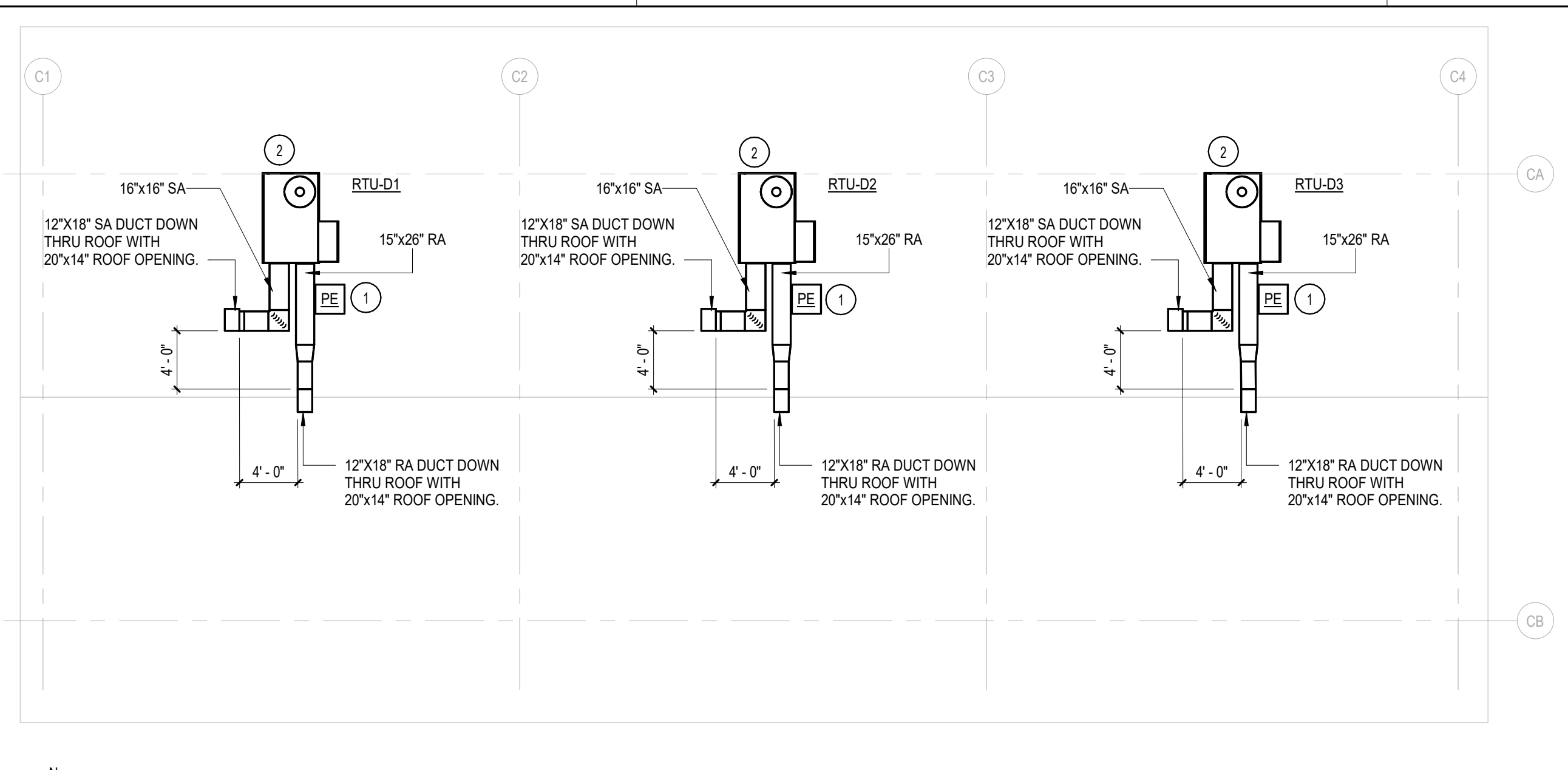
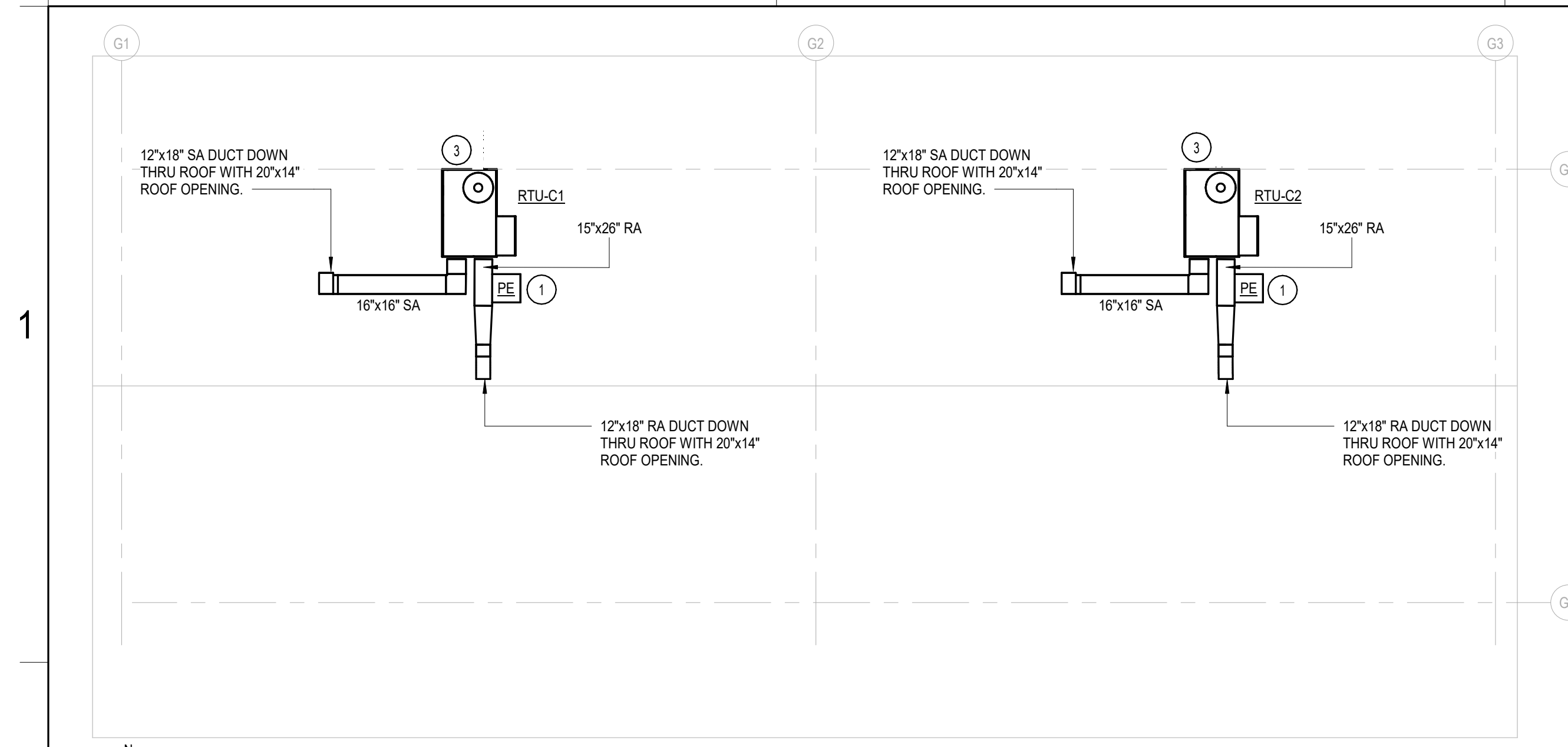
DSA Submitted Set
1/13/2023
REVISIONS
AS15 01/13/23

75-22605-00

MECHANICAL FLOOR PLANS

M1.1B

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GENERAL NOTES

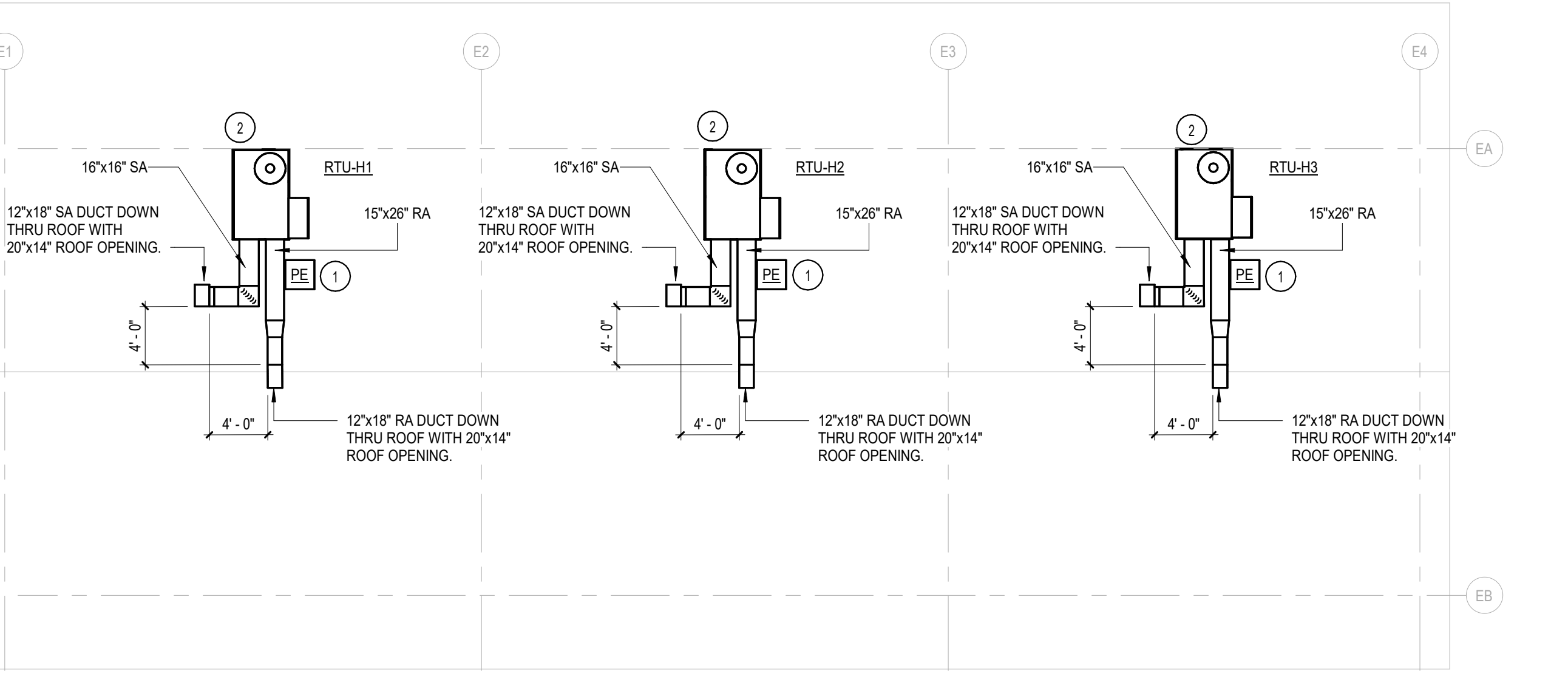
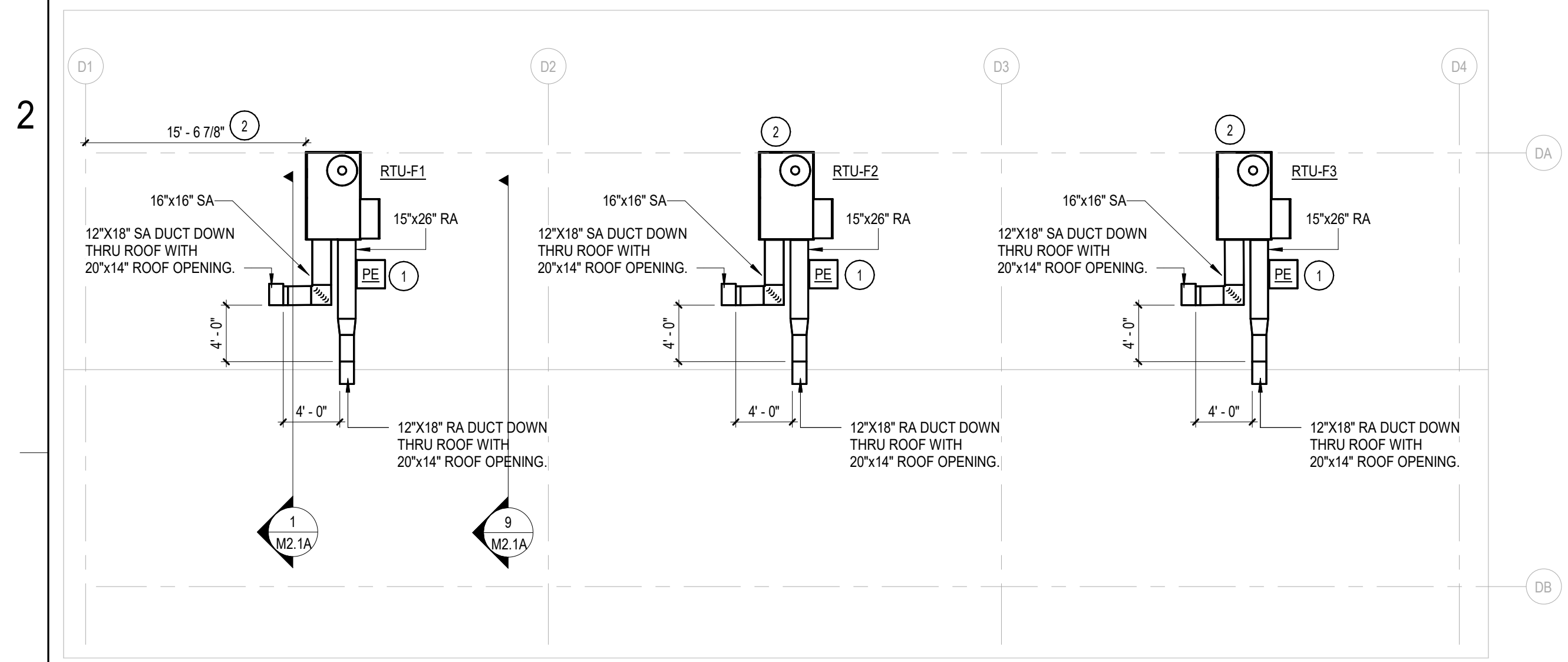
- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
- NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOISTS.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.

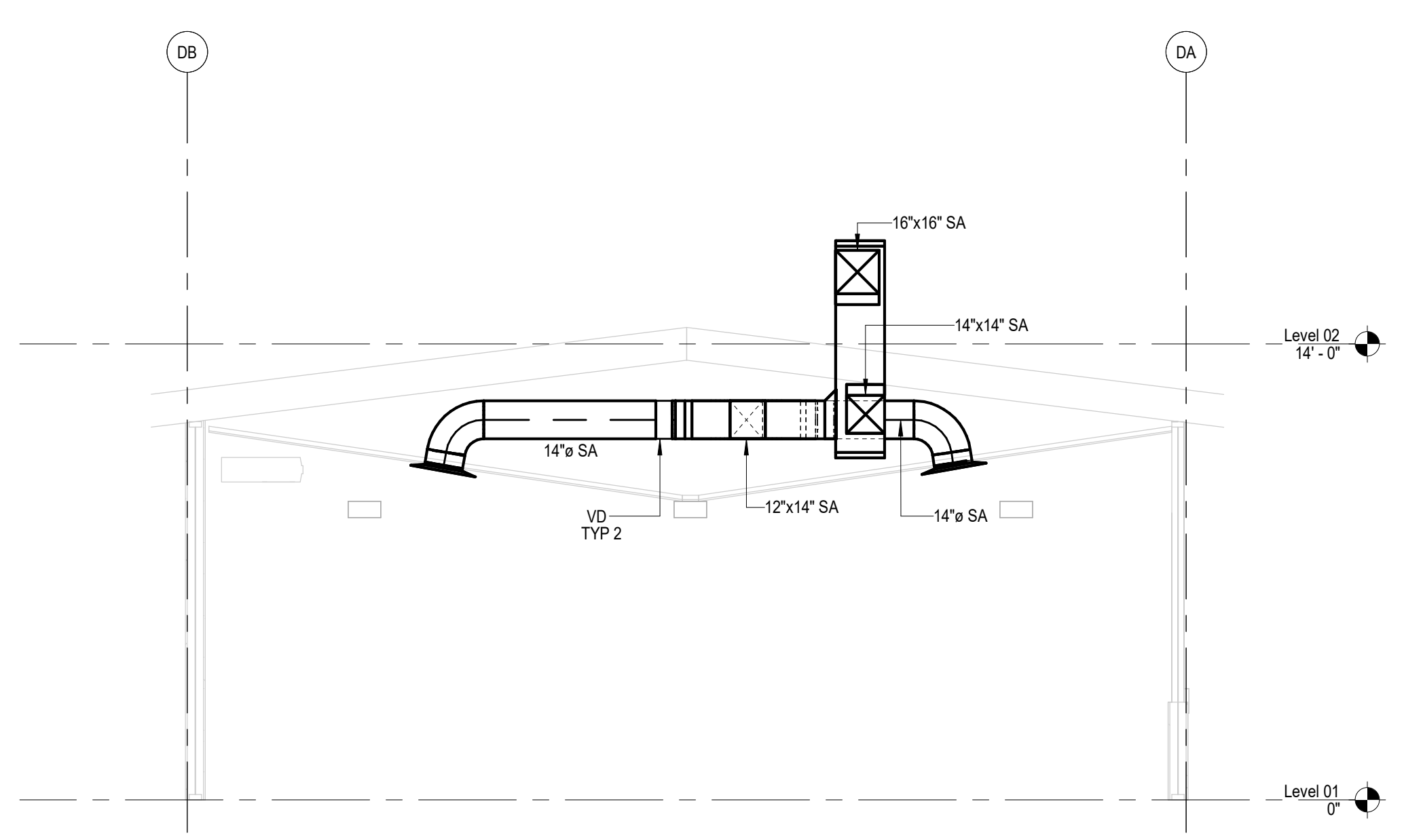
BUILDING C MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

BUILDING D MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

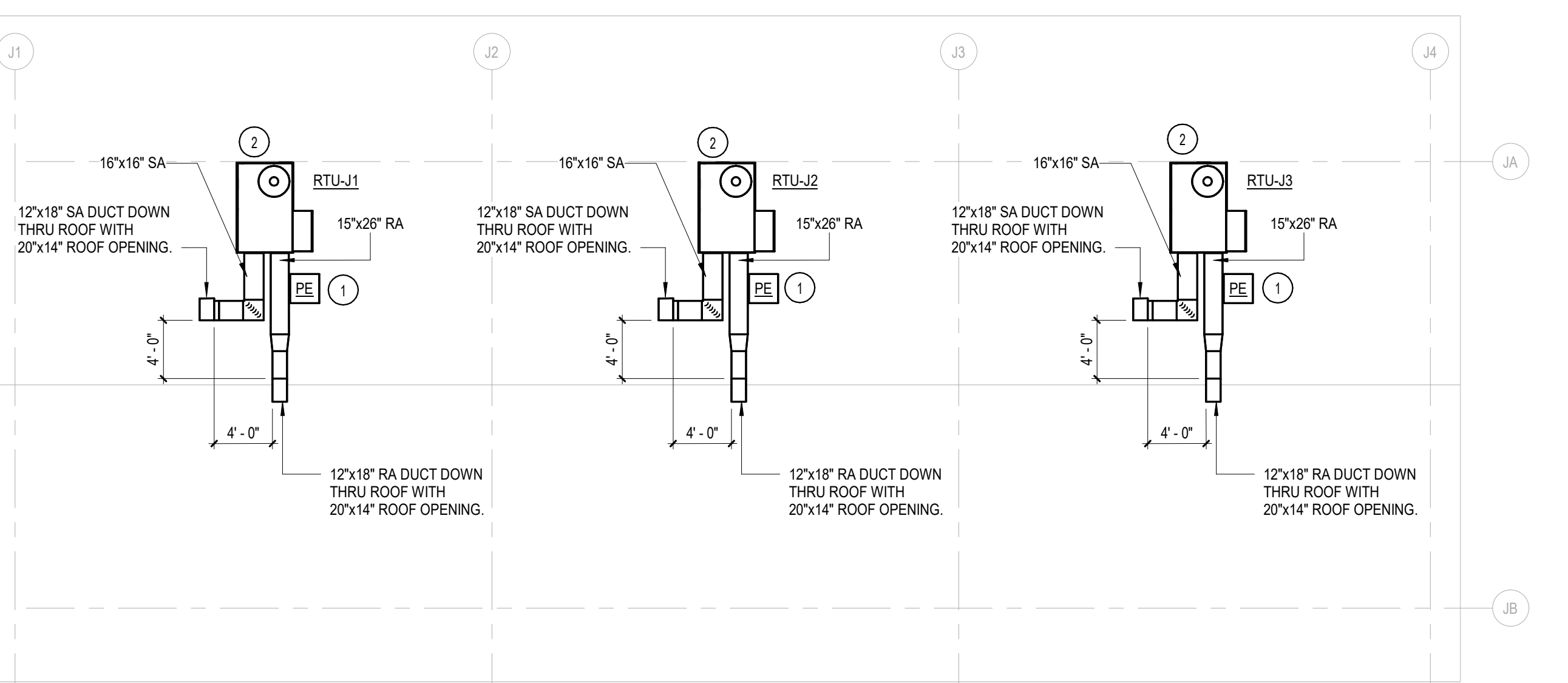
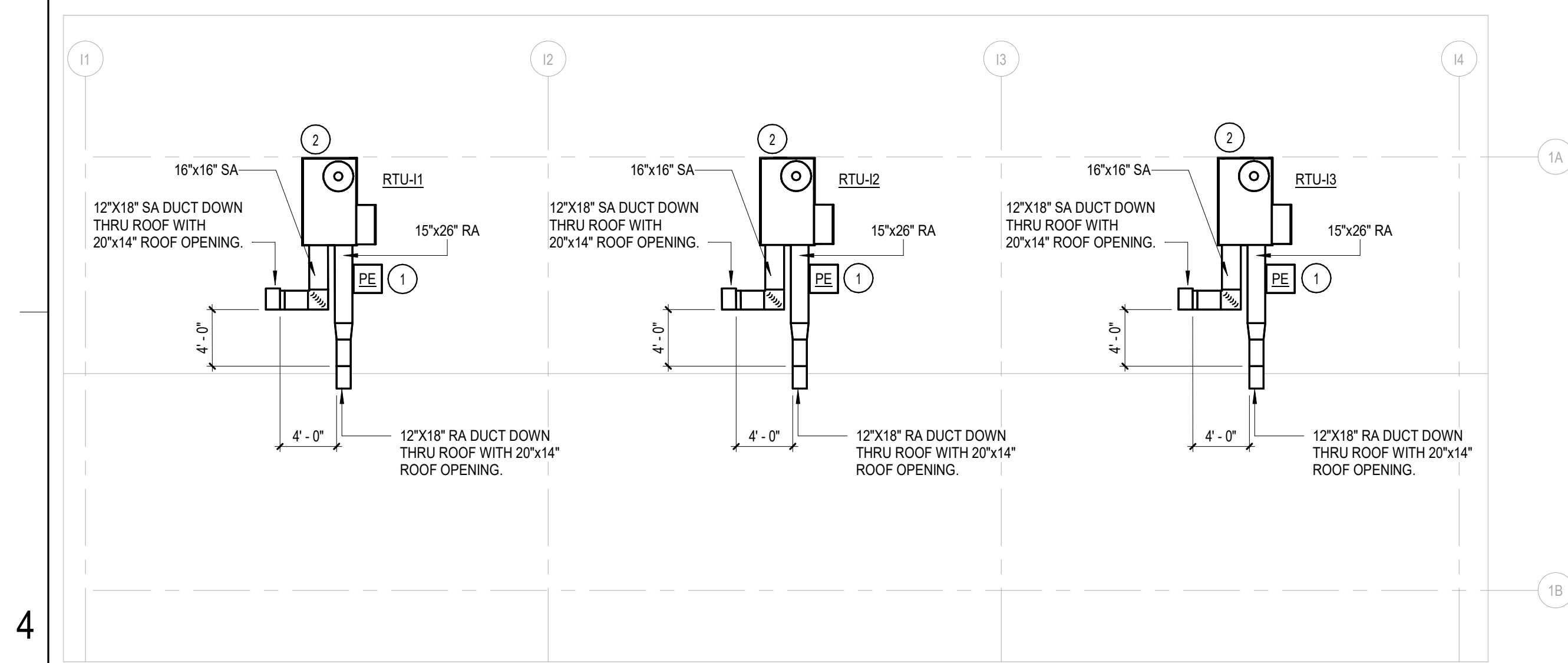


BUILDING F MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

BUILDING H MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

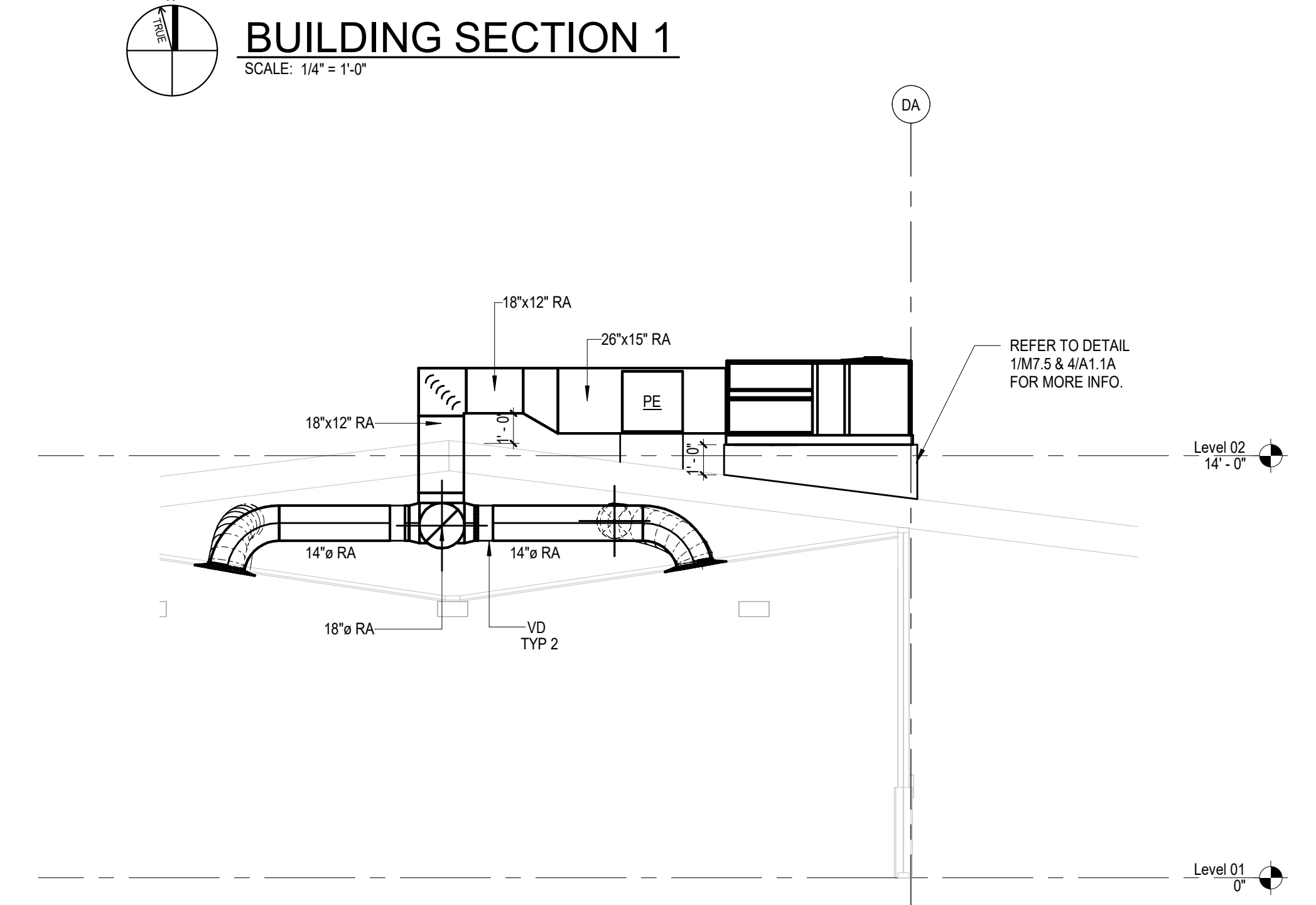


BUILDING SECTION 1
SCALE: 1/4" = 1'-0"

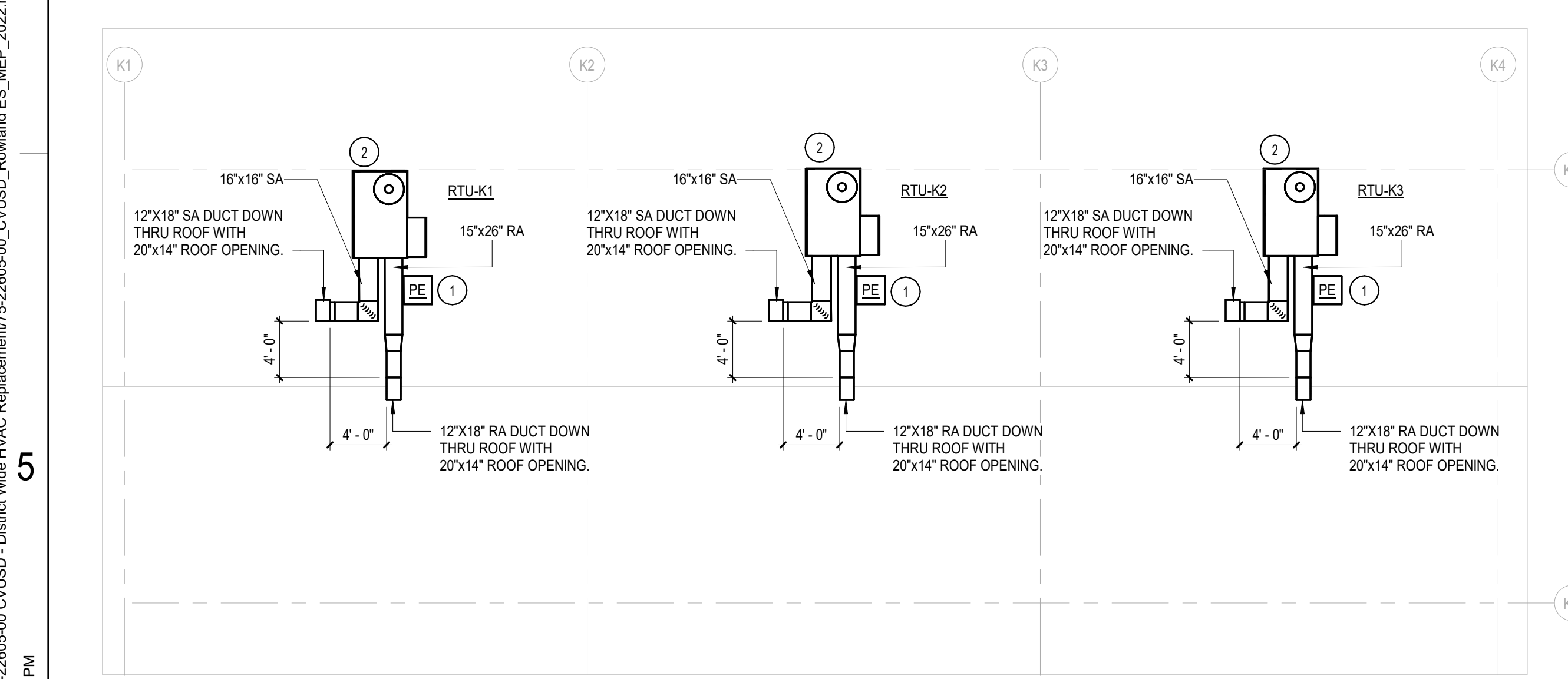


BUILDING I MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

BUILDING J MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



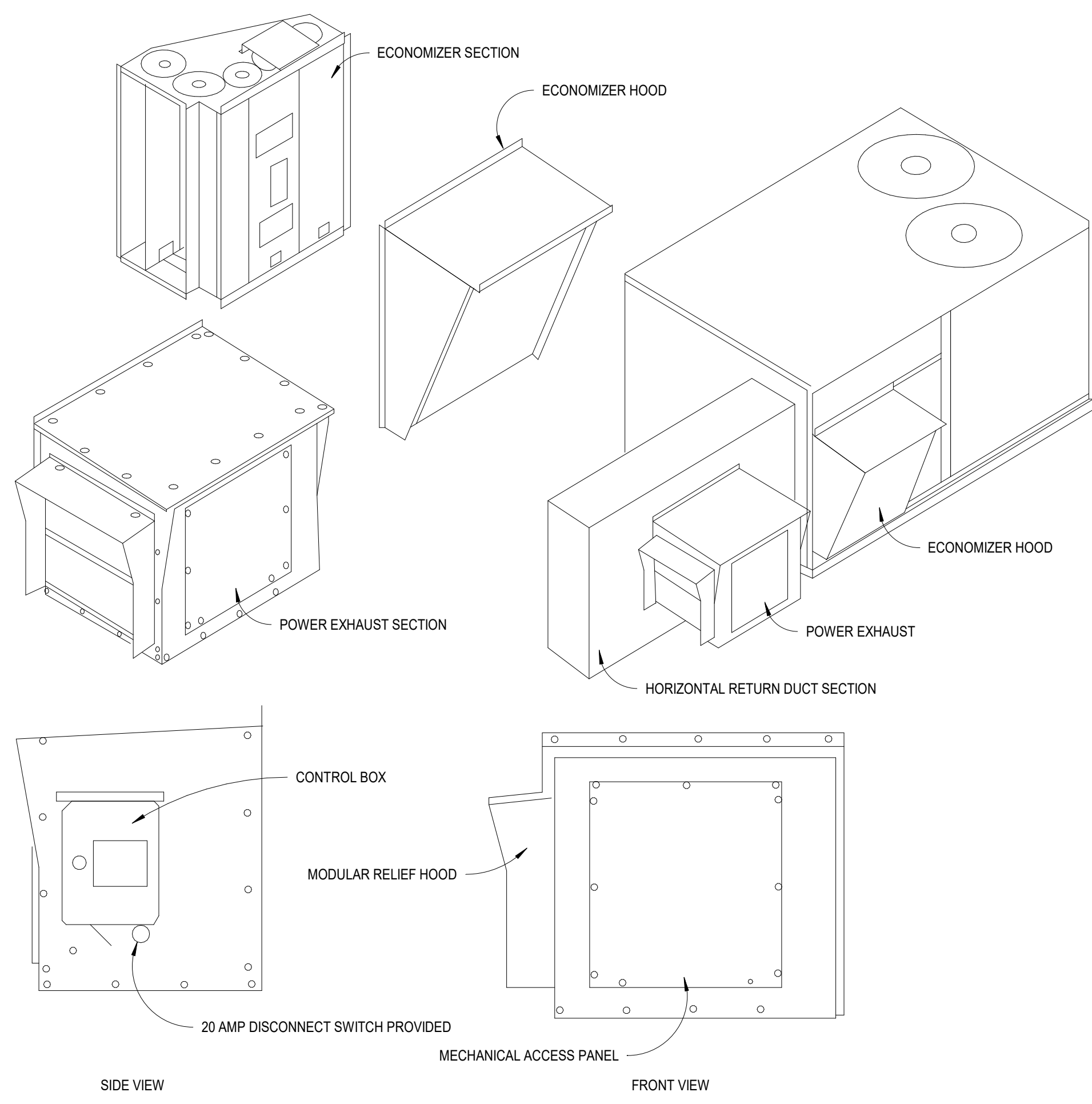
BUILDING SECTION 2
SCALE: 1/4" = 1'-0"



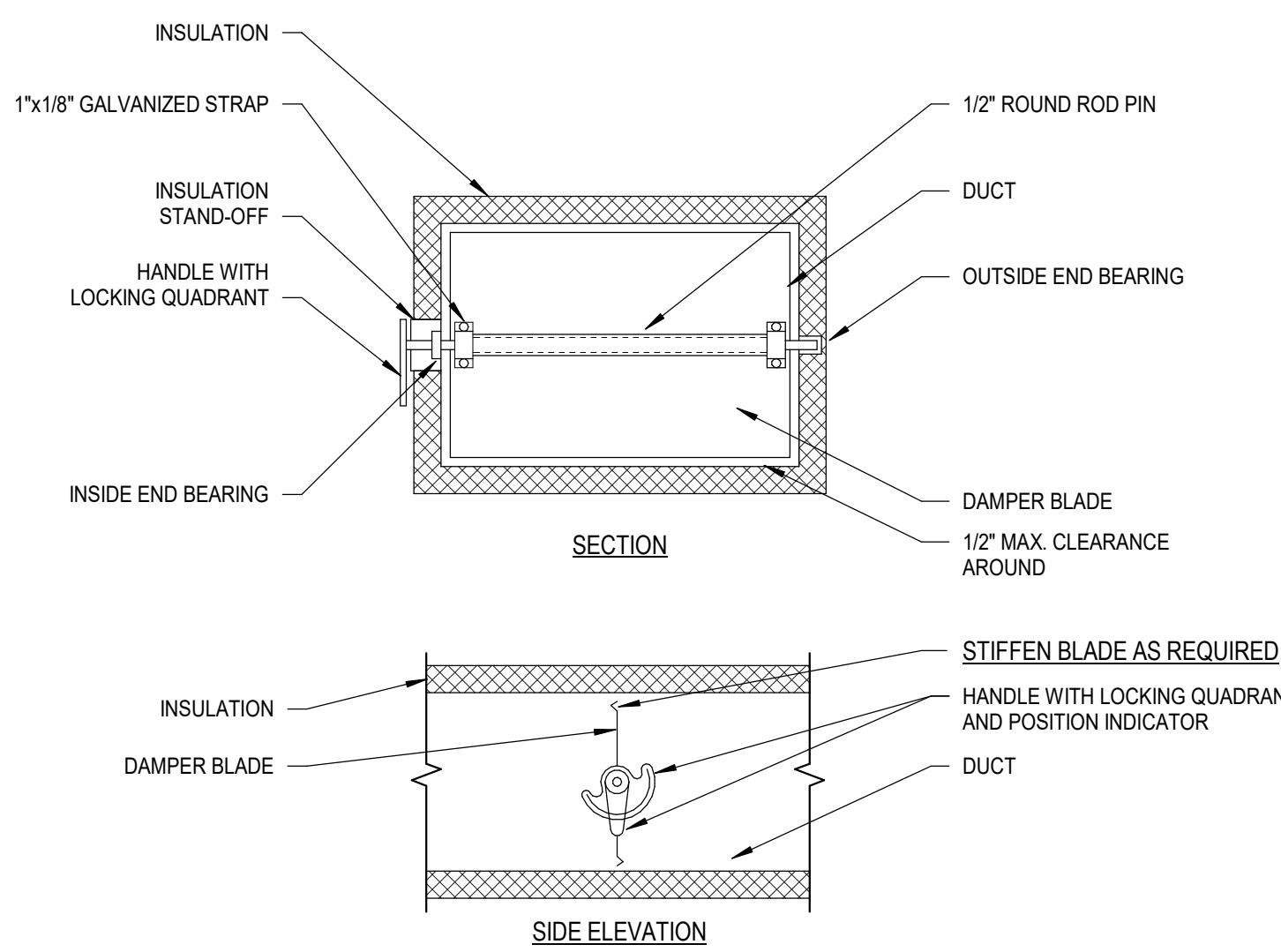
BUILDING K MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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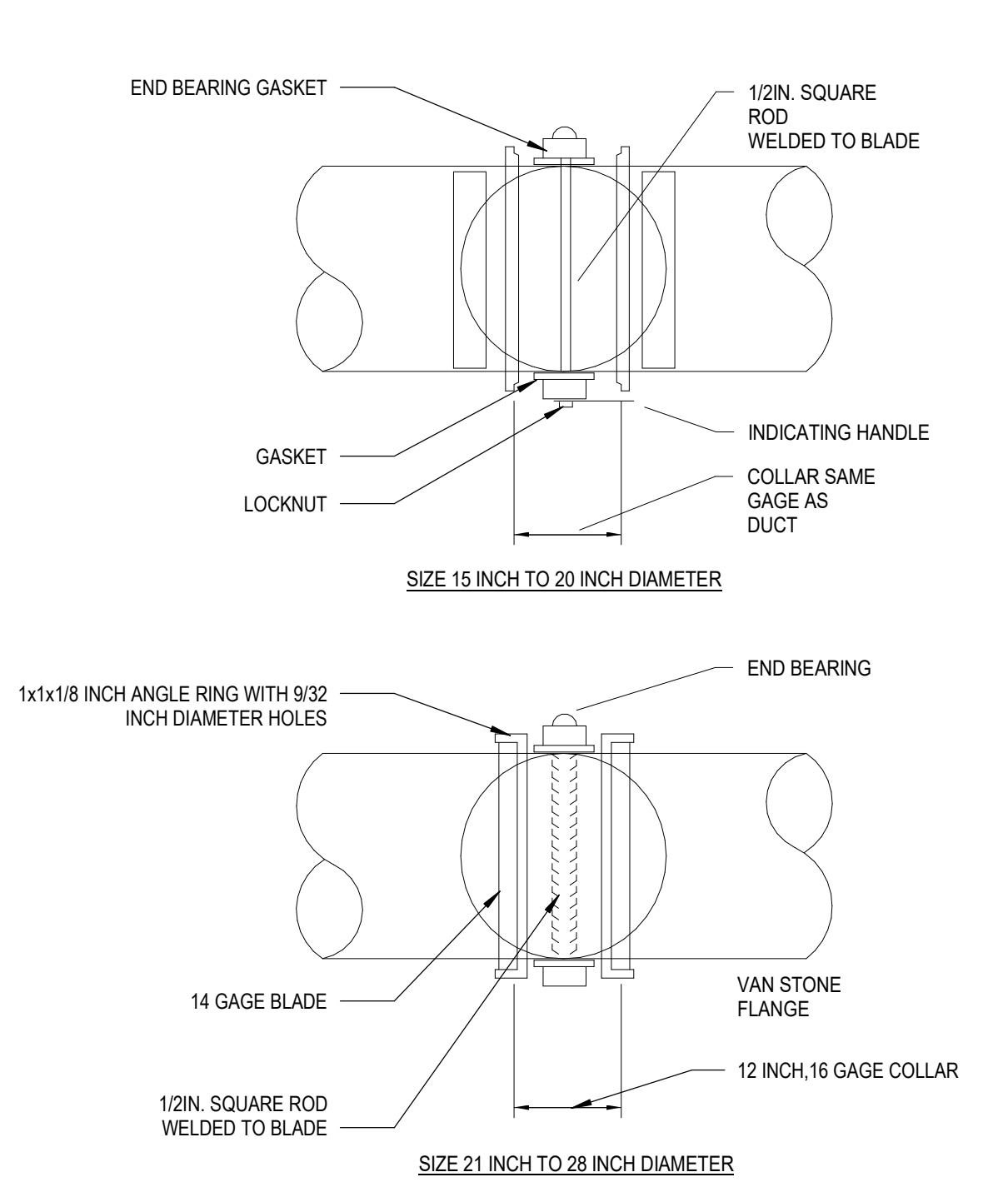


1 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
M7.1 NO SCALE

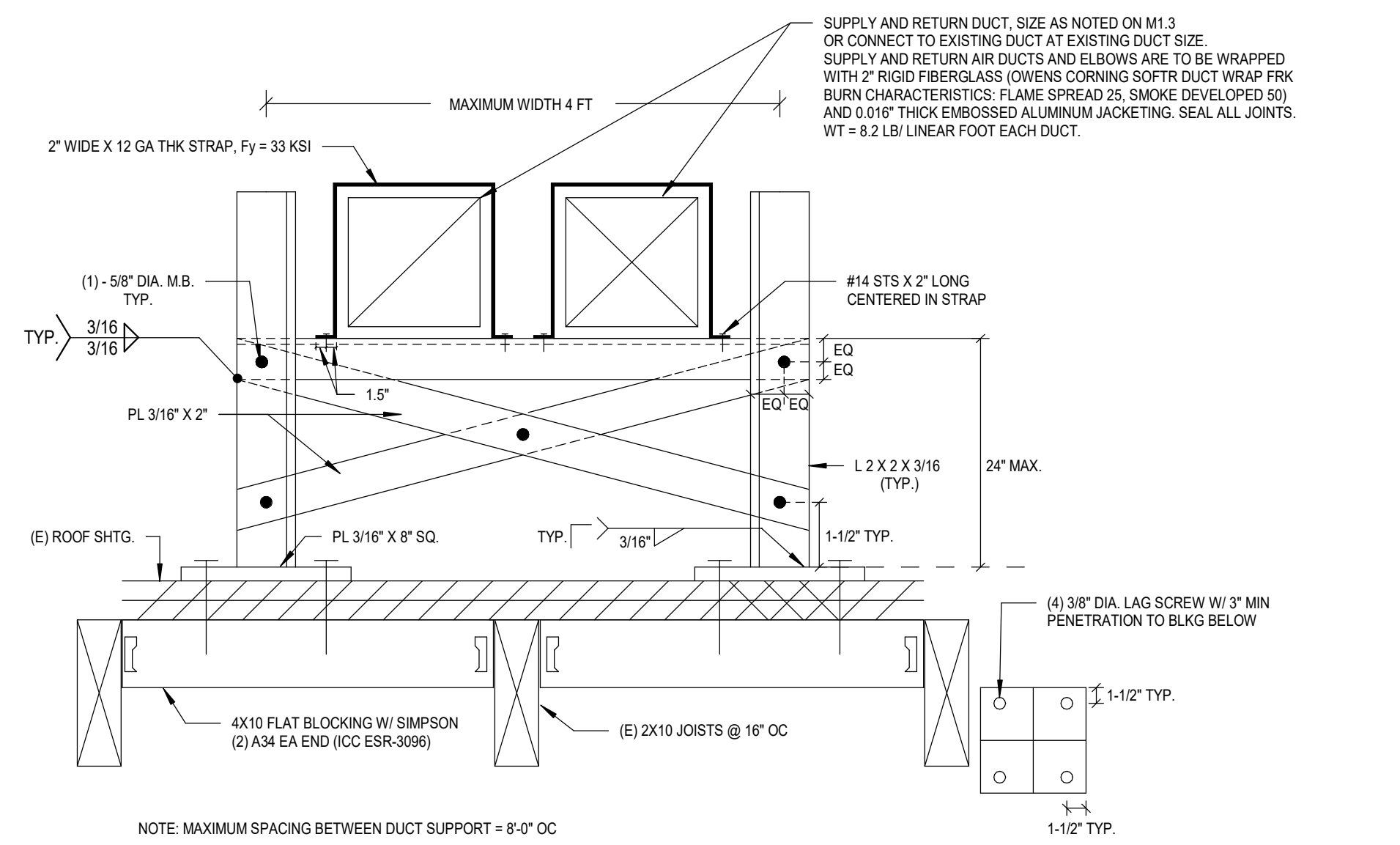


- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
- DETAIL SHOWS SINGLE BLADE DAMPER. MULTI-BLADE DAMPERS INSTALLATIONS SHALL BE SIMILAR.
- LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION.
- PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.
- PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL VOLUME DAMPER LOCATIONS.

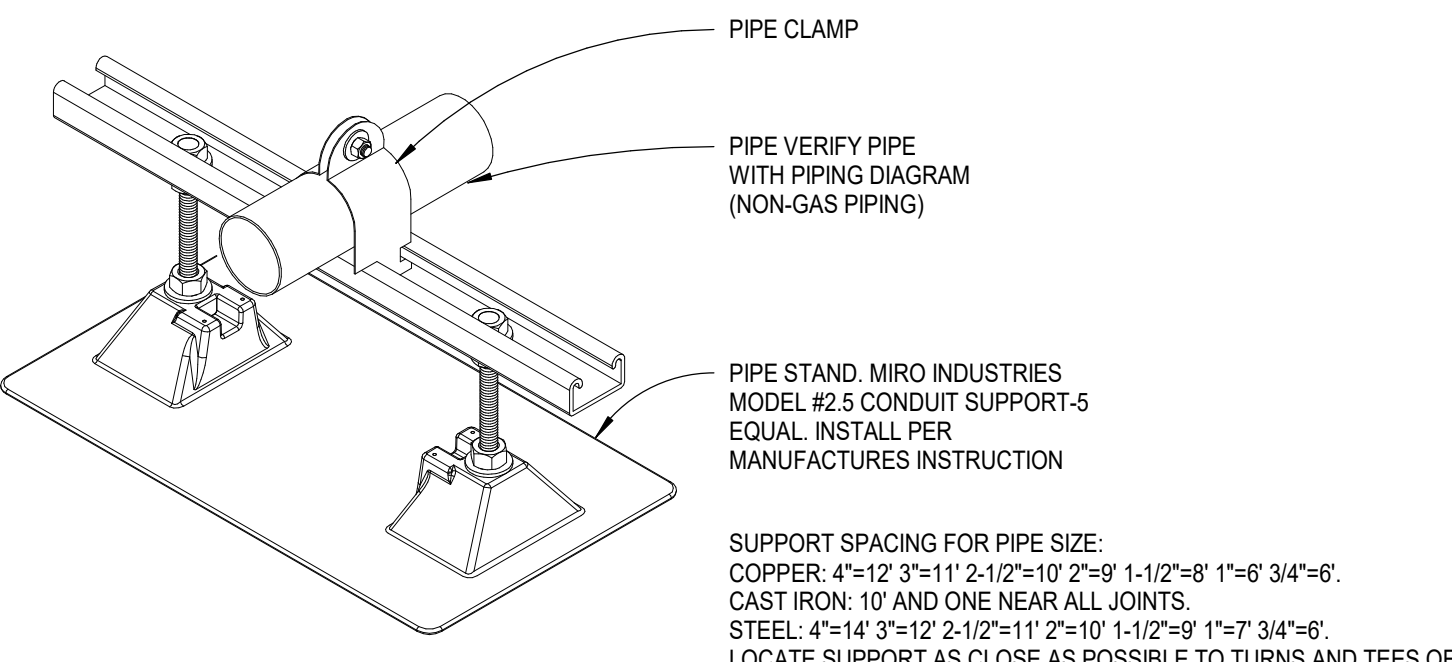
2 RECTANGULAR VOLUME DAMPER DETAIL
M7.1 NO SCALE



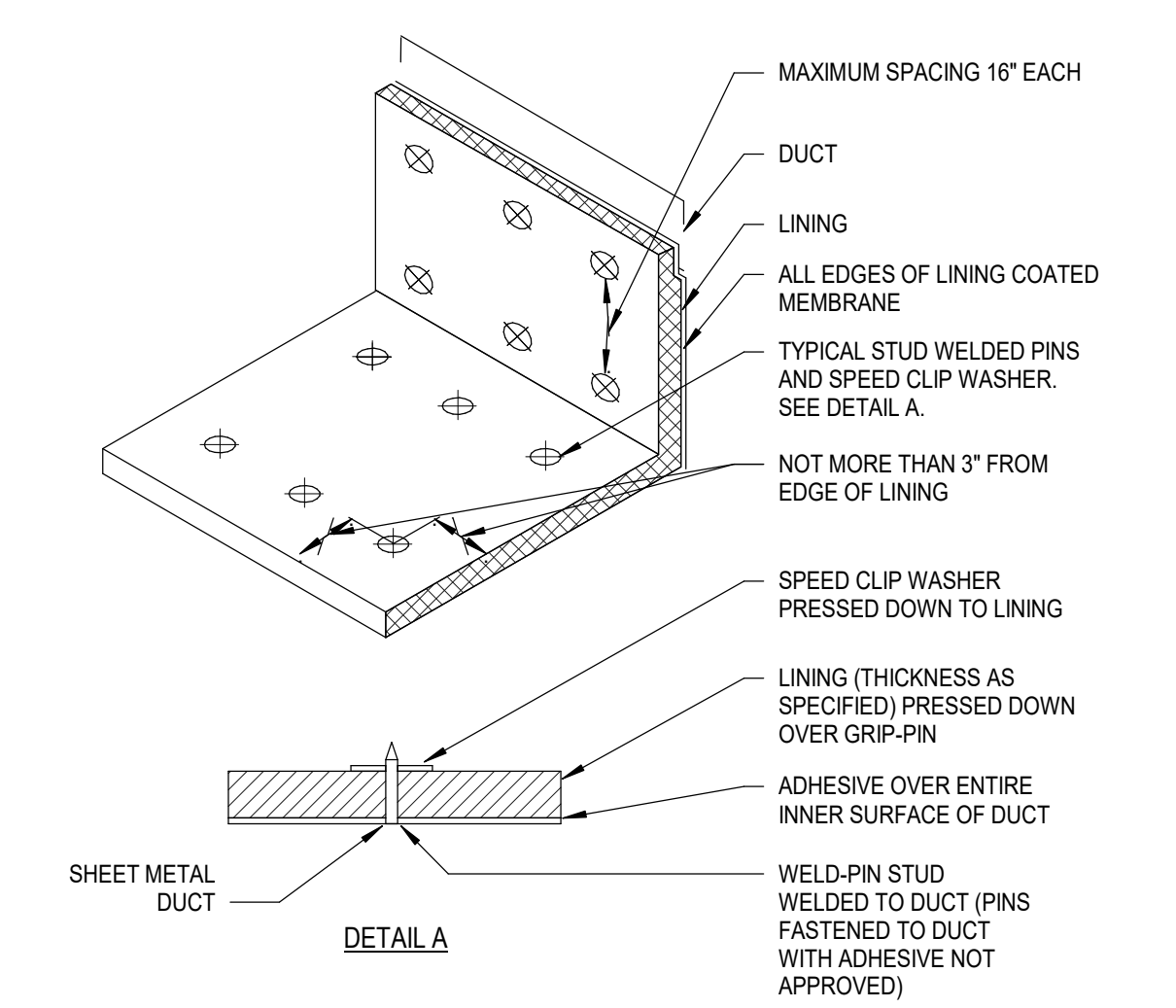
3 ROUND VOLUME DAMPER (LARGER THAN 14" DIA.)
M7.1 NO SCALE



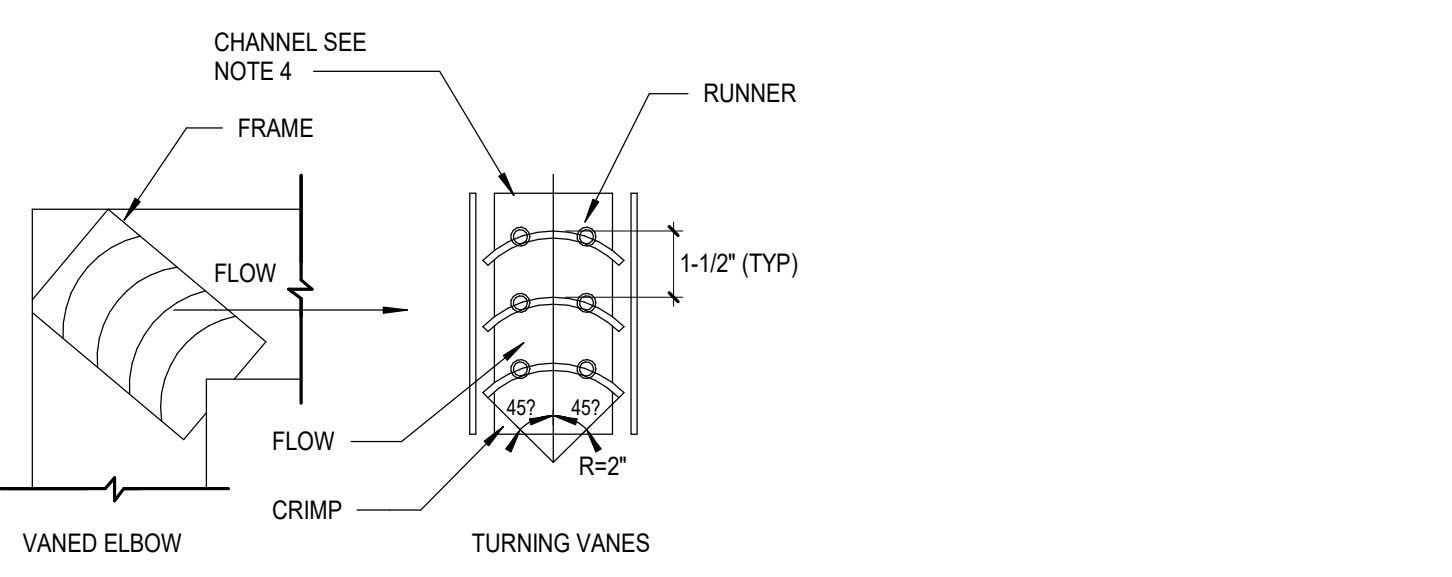
4 DUCT SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



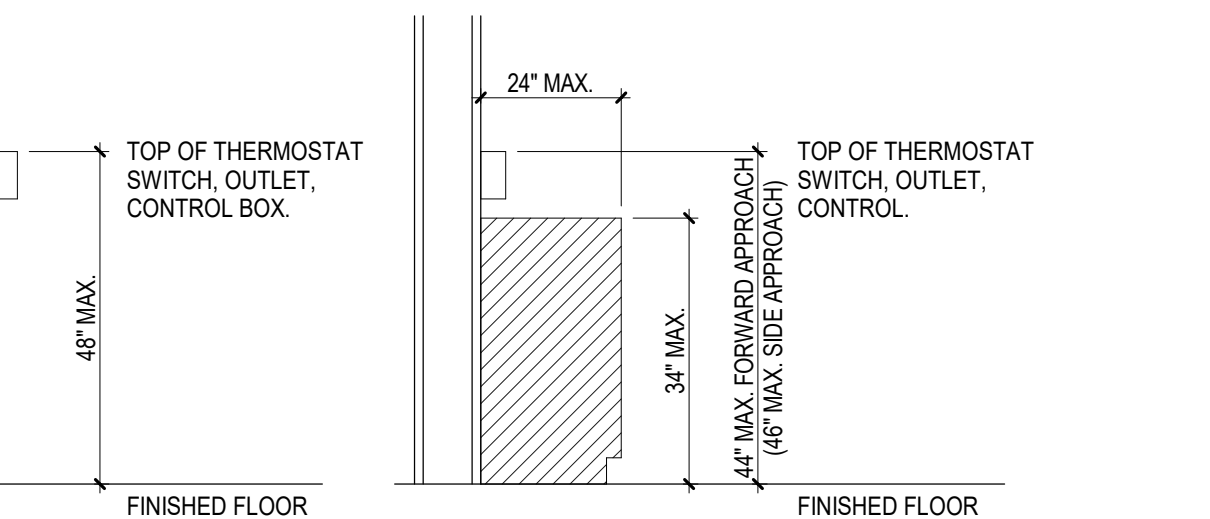
5 PIPE SUPPORT ON ROOF DETAIL
M7.1 NO SCALE



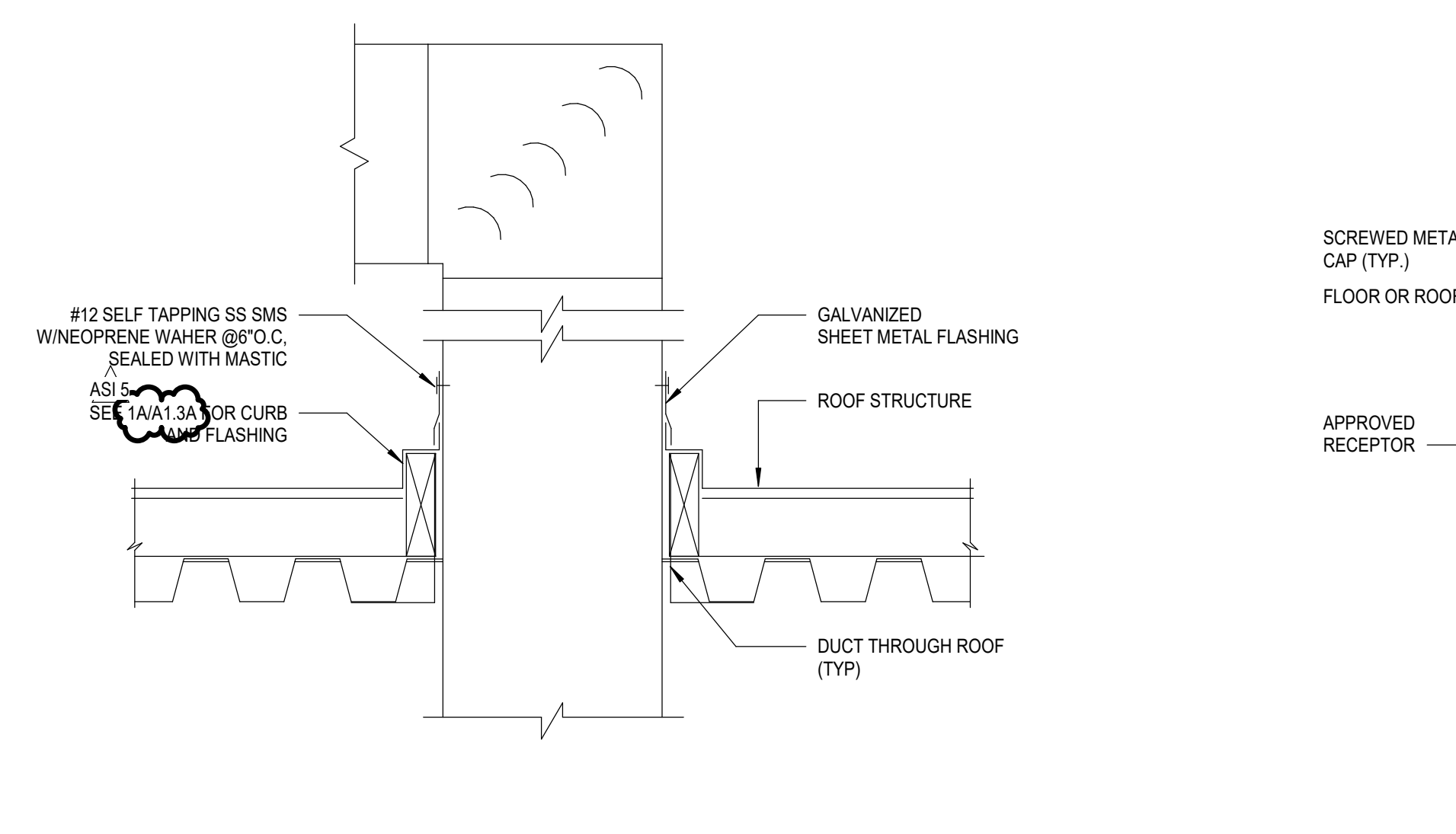
6 ACOUSTICAL DUCT LINING INSTALLATION DETAIL
M7.1 NO SCALE



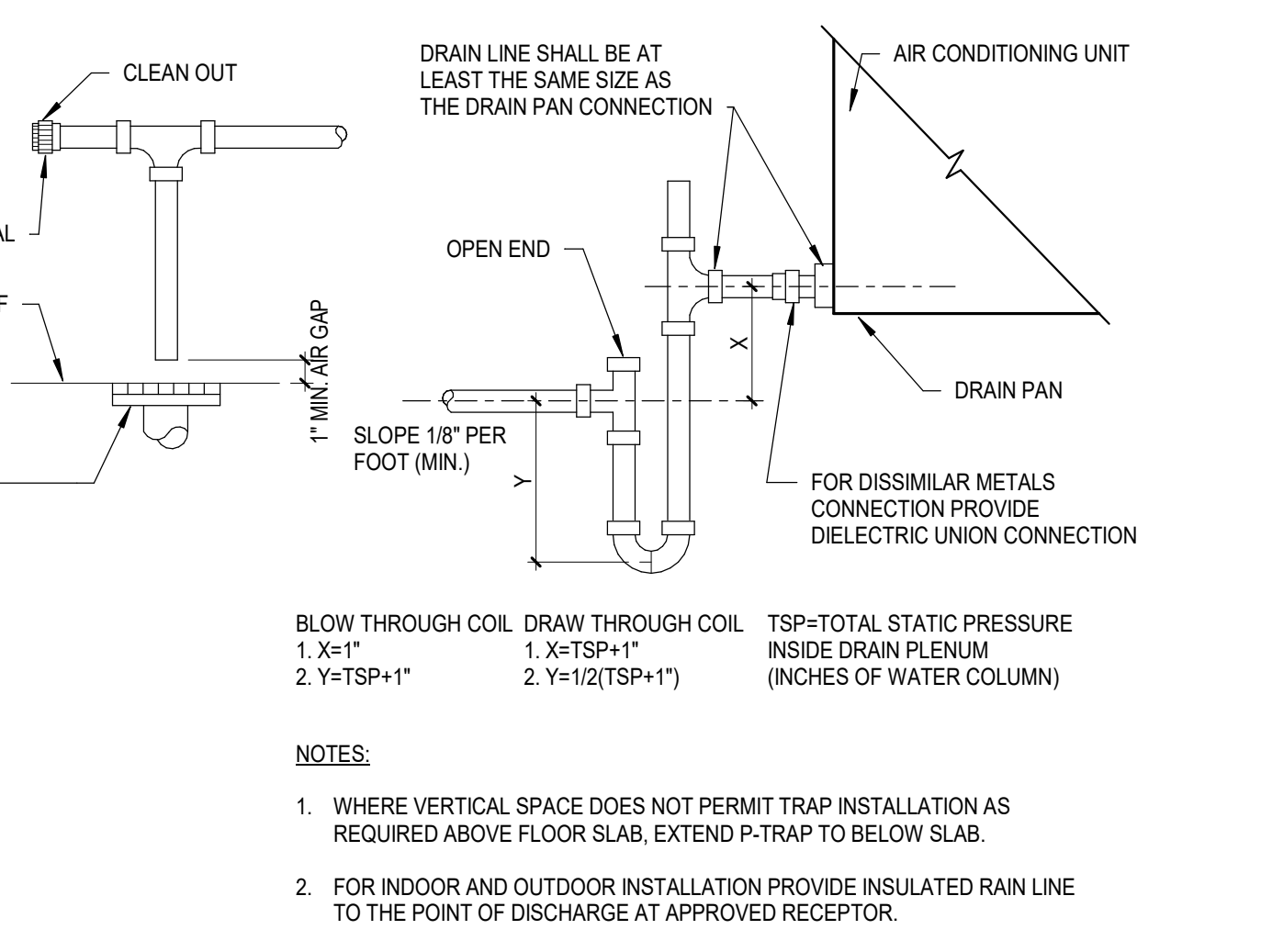
7 RECTANGULAR ELBOW W/ TURNING VANES DETAIL
M7.1 NO SCALE



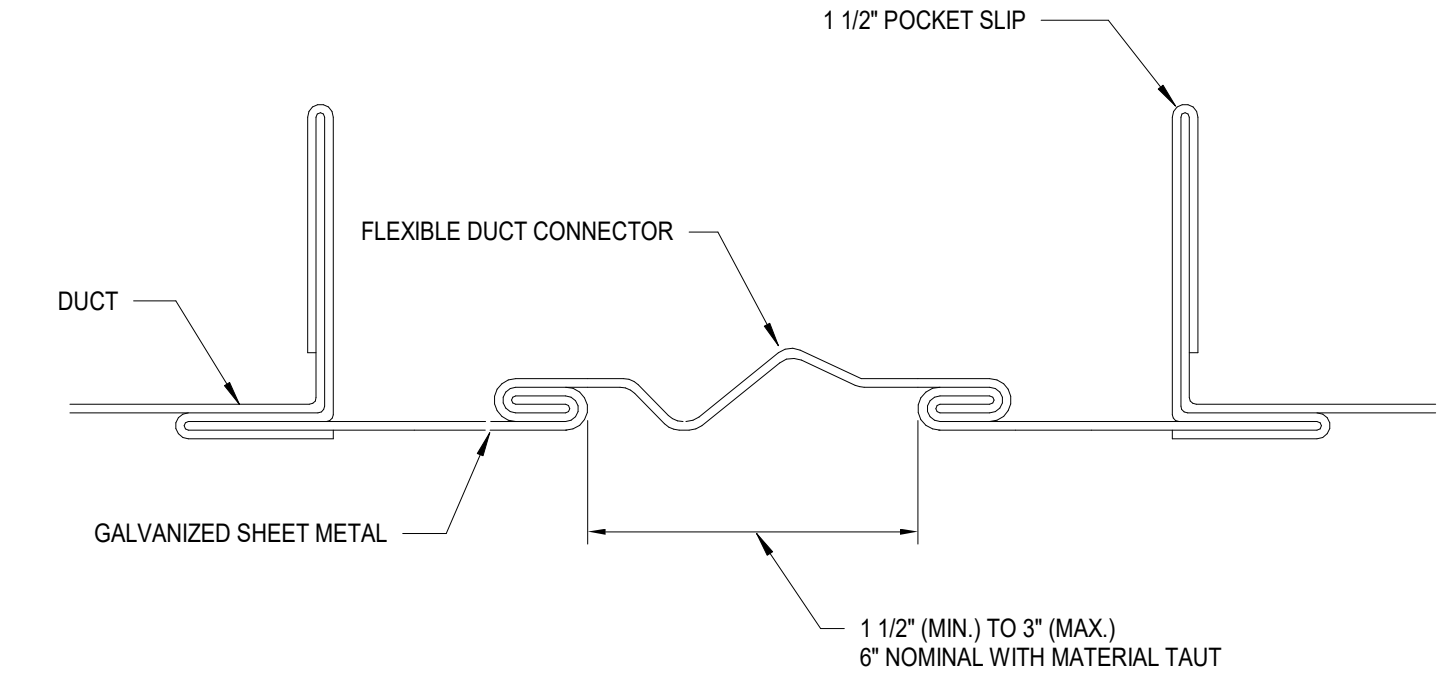
8 THERMOSTAT MOUNTING
M7.1 NO SCALE



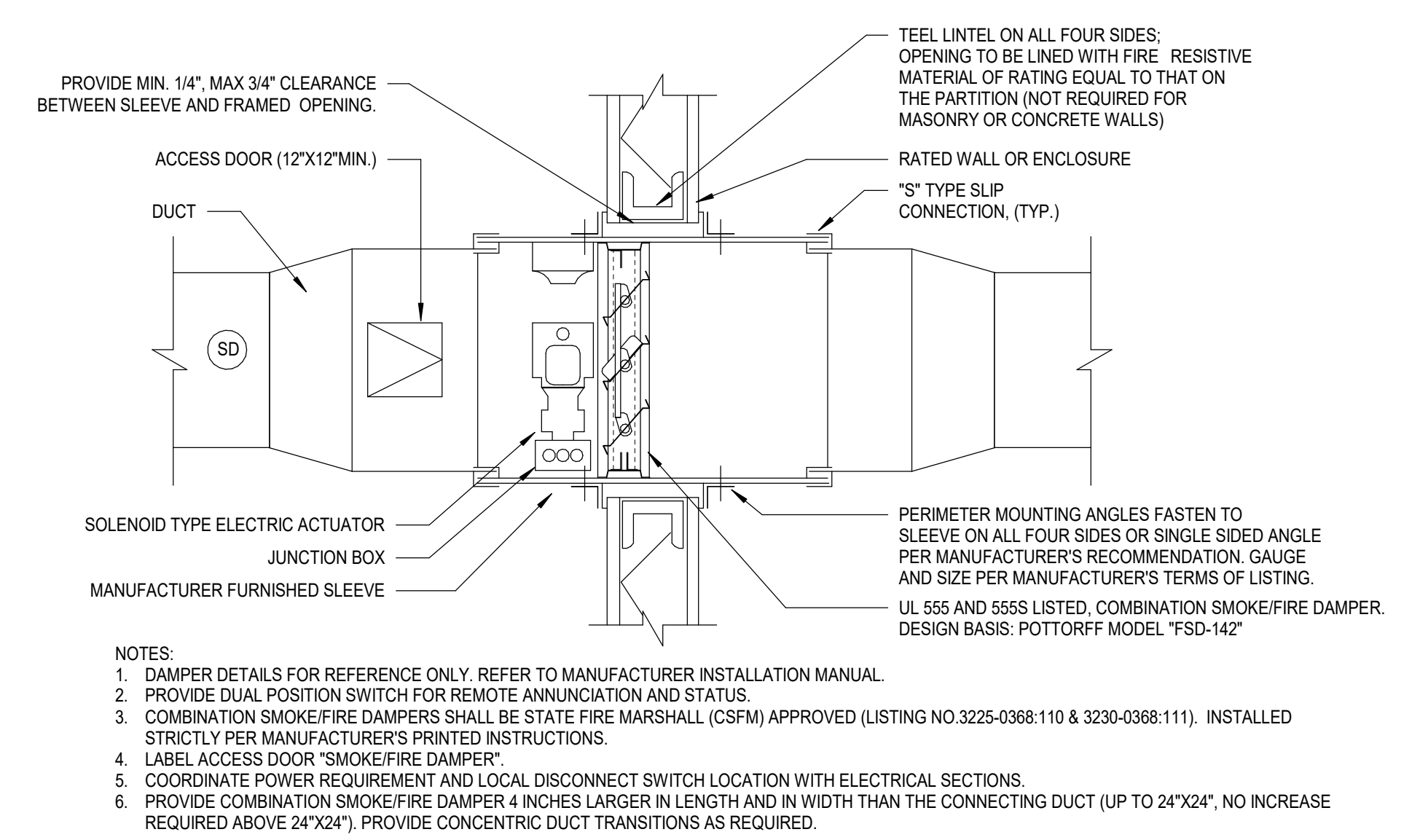
9 DUCT THRU ROOF PENETRATION
M7.1 NO SCALE



10 CONDENSATE DRAIN CONNECTION DETAIL
M7.1 NO SCALE




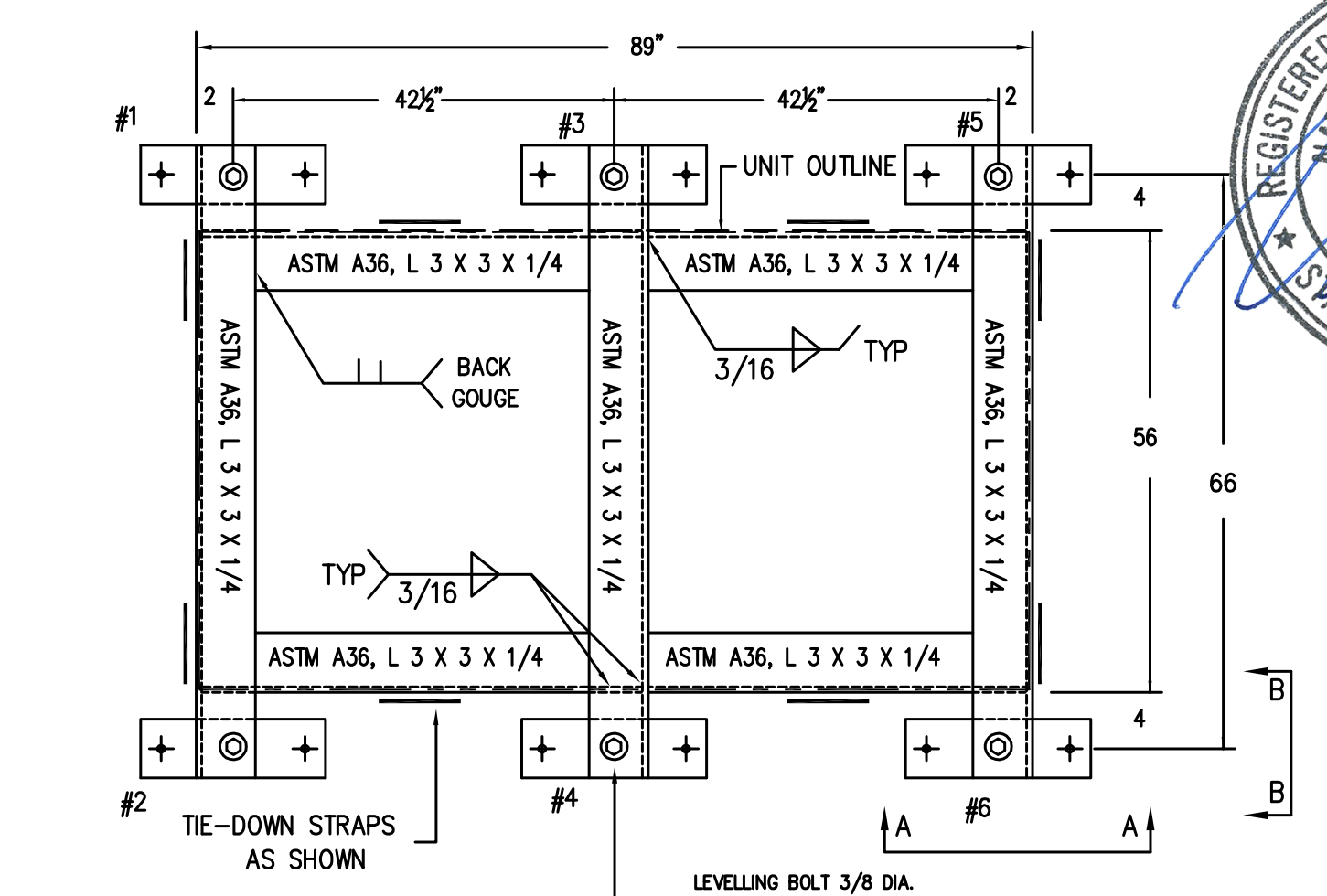
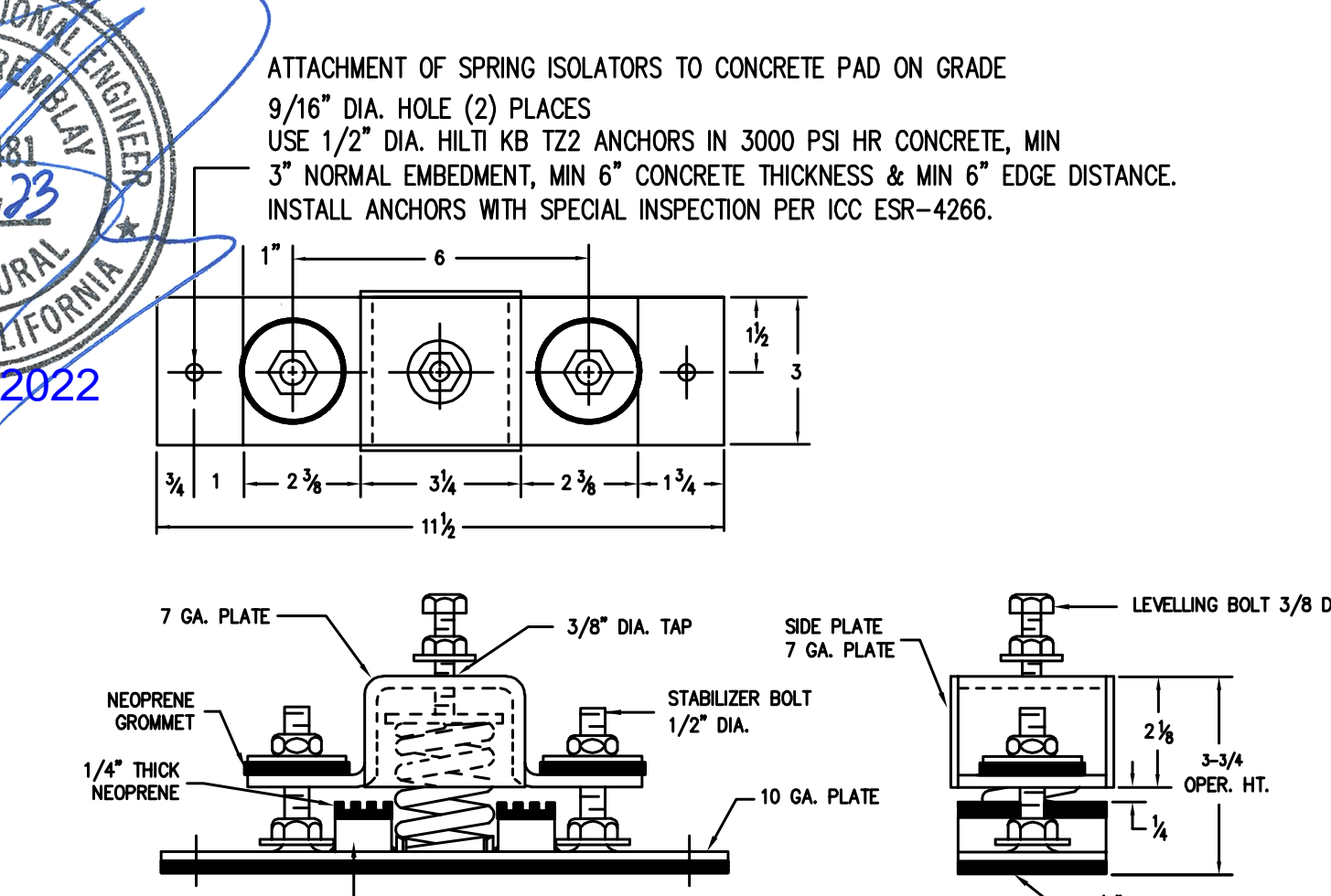
11 FLEXIBLE DUCT CONNECTION
M7.1 NO SCALE



12 COMBINATION FIRE/SMOKE DAMPER INSTALLATION
M7.1 SCALE: 1/2" = 1'-0"

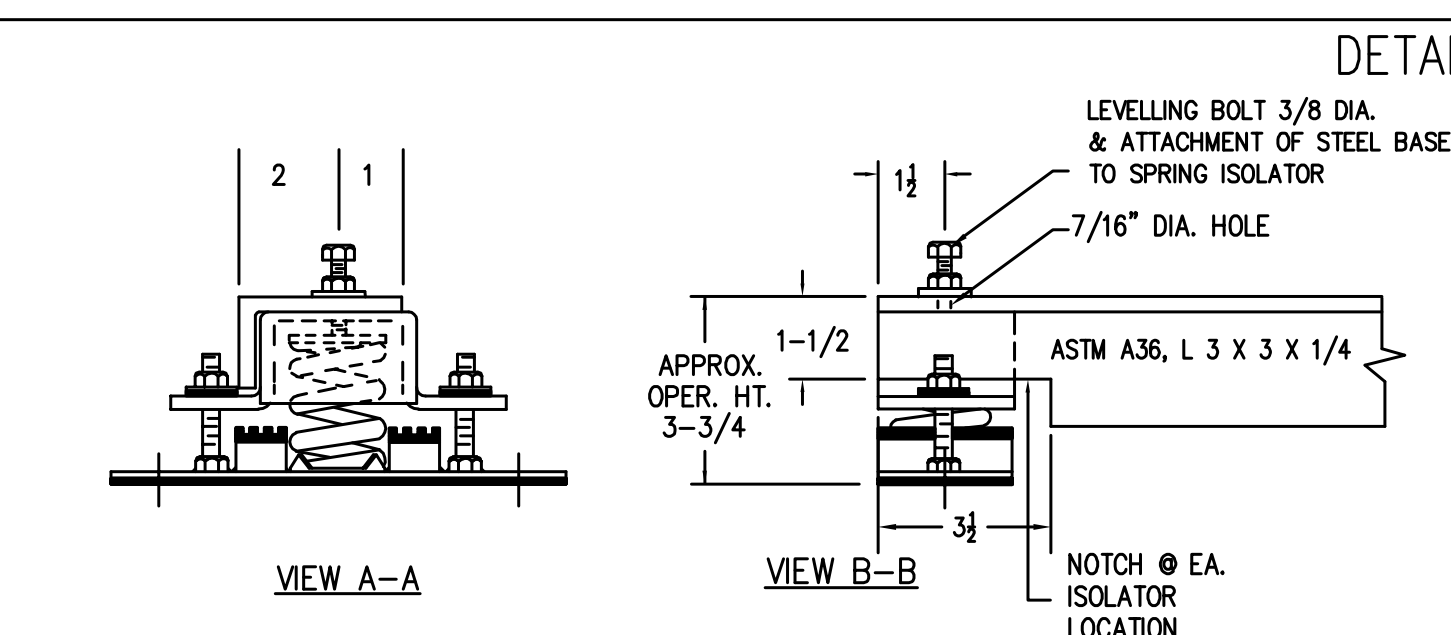
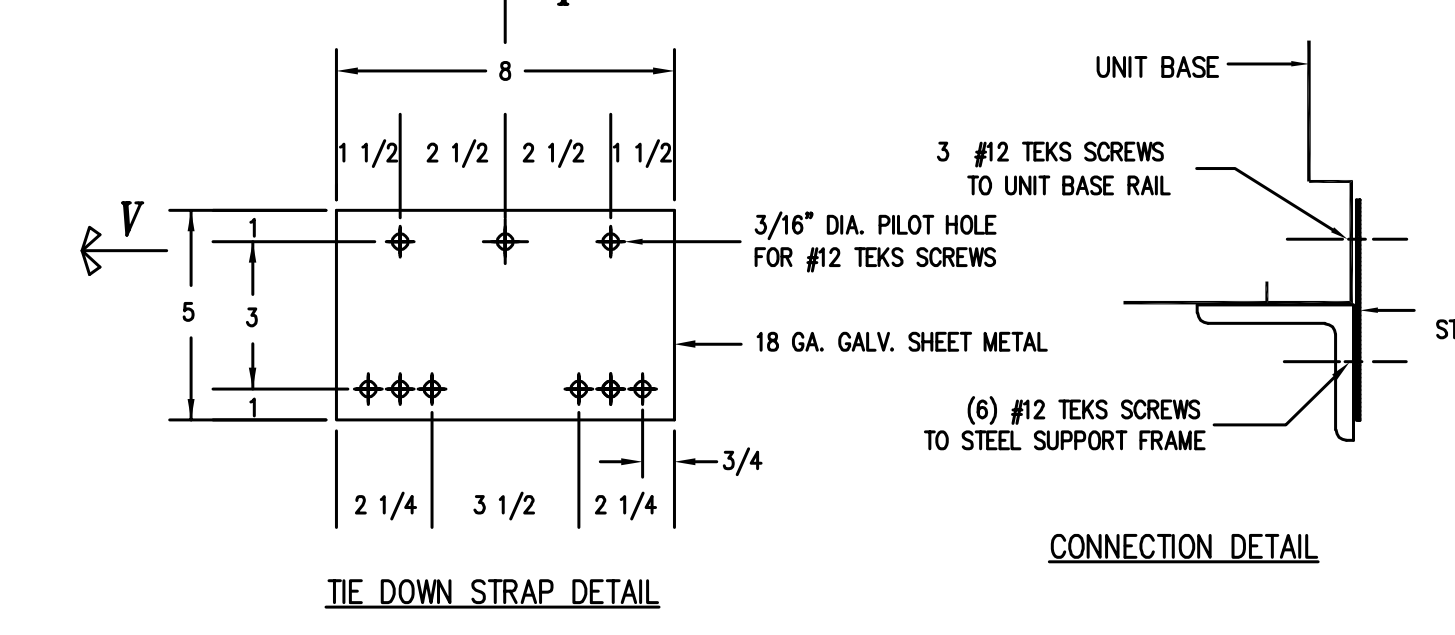
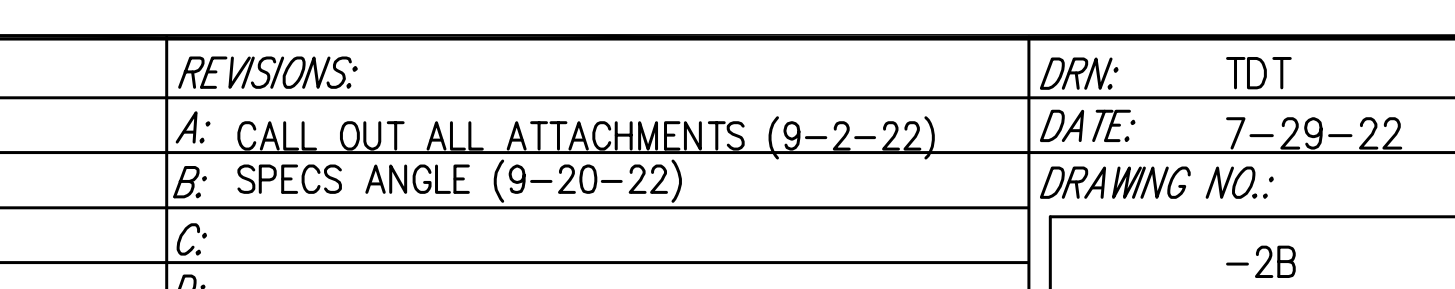
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MARK FCU-B1	MAKE CARRIER	MODEL 46RUQAQ25	STEEL FRAME ASTM A36, L 3 X 3 X 1/4	DETAIL-1	DETAIL-3							
						<table border="1" style="font-size: 8px;"> <tr><td>MTG</td><td>SPRING OD</td><td>DEFL.</td></tr> <tr><td>1-6</td><td>2"</td><td>1"</td></tr> </table>	MTG	SPRING OD	DEFL.	1-6	2"	1"
MTG	SPRING OD	DEFL.										
1-6	2"	1"										

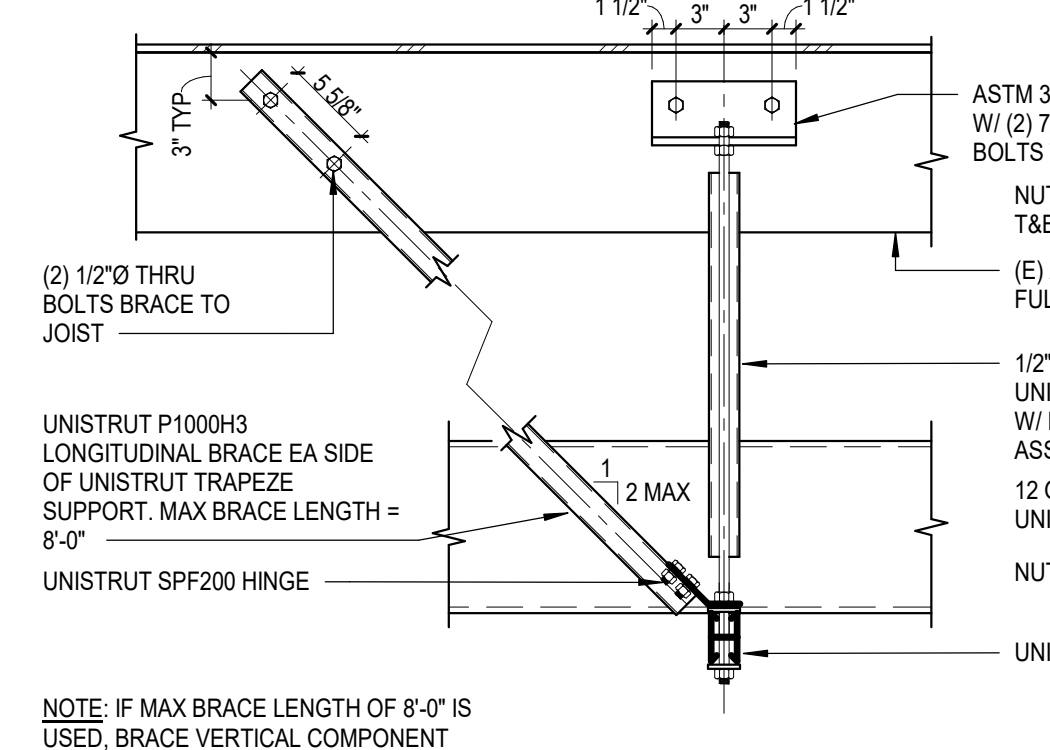
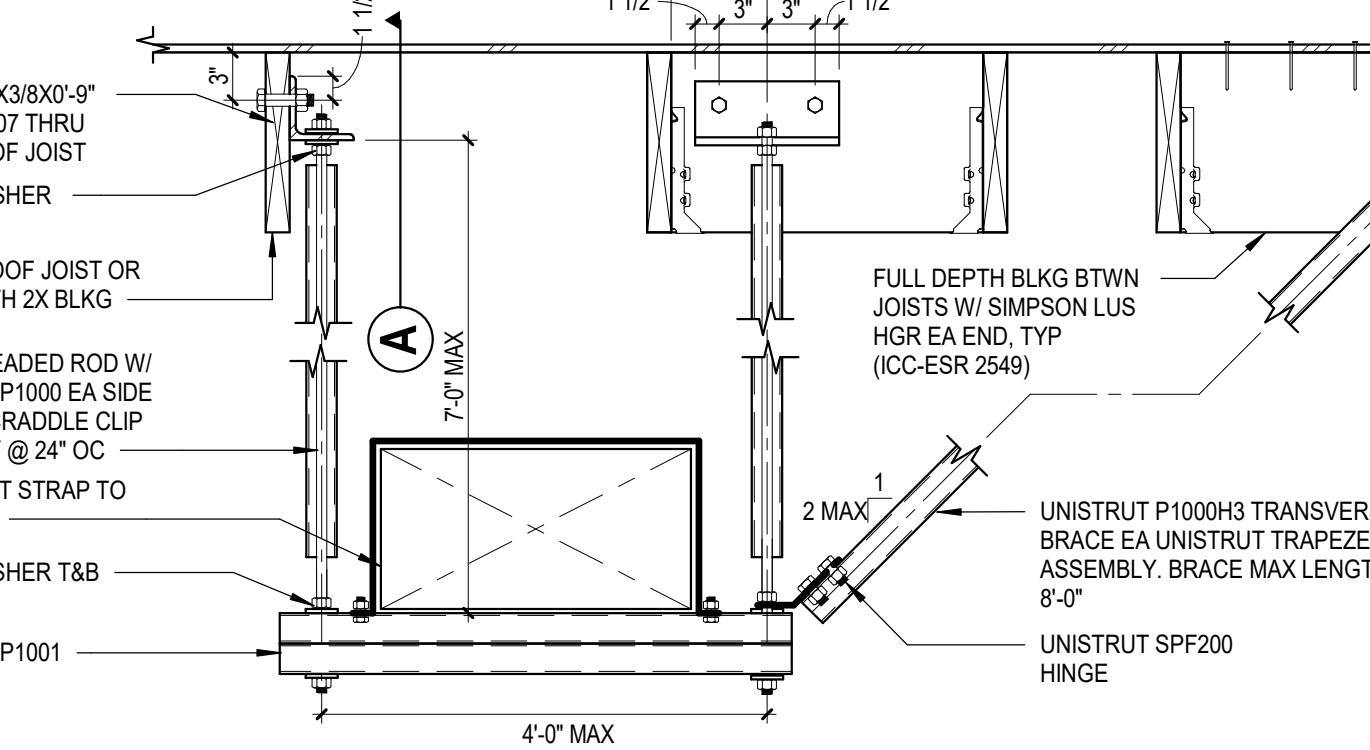
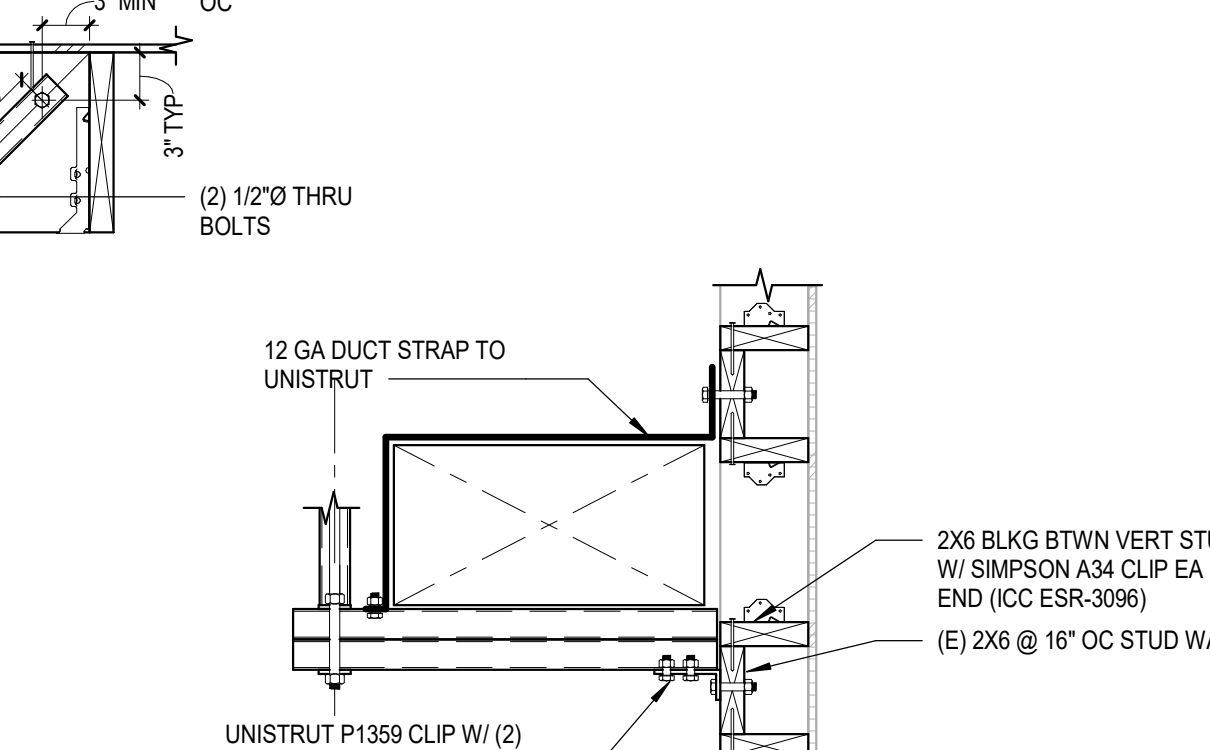
ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE
 9/16" DIA. HOLE (2) PLACES
 USE 1/2" DIA. HILTI KB T22 ANCHORS IN 3000 PSI HR CONCRETE, MIN 3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE. INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

NOTES:
 1. APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 200 LBS.
 2. — INDICATES TIE-DOWN STRAP. SEE DETAIL 3.
 3. ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy, Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673 	JOB NAME: COVINA USD - ROWLAND CUST.: CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: CALL OUT ALL ATTACHMENTS (9-2-22) B: SPECS ANGLE (9-20-22) C: D:	DRN: TDT DATE: 7-29-22 DRAWING NO.: <div style="border: 1px solid black; padding: 2px; width: 50px; margin: 0 auto;">-2B</div>
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1 FCU-B1
M7.3 NO SCALE

NOTE: IF MAX BRACE LENGTH OF 8'-0" IS USED, BRACE VERTICAL COMPONENT WILL BE SUBSTANTIALLY LOWER THAN 7'-0" MAX VERTICAL CONSTRAINT.

A LONGITUDINAL DIRECTION 2 DUCT SUPPORTS M7.3 NO SCALE	B.1 TRANSVERSE DIRECTION - WOOD ROOF	B.2 TRANSVERSE DIRECTION - WOOD WALL TIEBACK
---	---	---

2 DUCT SUPPORTS
M7.3 NO SCALE

MARK	MAKE	MODEL	STEEL FRAME		MTG	SPRING OD	DEFL.
CU-B1	TOSHIBA	MMY-AP240	ASTM A36, L 4 X 3 X 1/4	DETAIL-1	1-6	4"	2"

DETAIL-1

DETAIL-3

NOTES:

- APPROX. STEEL WEIGHT INCLUDING ISOLATORS: 450 LBS.
- FOR ISOLATORS. SEE DETAIL 3.
- M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.

VIEW B-B

VIEW A-A

M. W. SAUSSE & CO., INC.
 28744 Whitherspoon Pkwy. Valencia, CA 91355
 Phone: (661) 257-3311 Fax: (661) 257-7673

Vibrex **RMUHAB**

JOB NAME: COVINA USD - RAWLAND ES	REVISIONS:	DRN: TDT
CUST.:	A: CALL OUT ALL ATTACHMENT (9-2-22)	DATE: 9-7-22
CUST. P.O.:	B: CHANGED UNIT (9-6-22)	DRAWING NO.:
MECH. ENGR.: DLR	C: SPECS ANGLE (9-20-22)	-1C
MARK: CU-B1	D:	

DETAIL-1

DETAIL-2

DETAIL-3

MARK	MAKE	TYPE	SIZE	CURB WT
3 TON	CARRIER	50FCDA	04	275#

NOTES:

- FOR ANCHOR REQUIREMENTS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
- ROOF SLOPE TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION & ROOF CURB HEIGHT ARE APPROXIMATE.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

2. SUBMITTED ROOF CURBS ARE PITCHED TO MATCH ROOF SLOPE.

NOTES:

- L & M DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.
- FOR ANCHORAGE, USE 3/8\"/>

M. W. SAUSSÉ & CO., INC.
 28744 Whitherspoon Pkwy., Valencia, CA 91355
 Phone: (661) 257-3311 Fax: (661) 257-7673

JOB NAME: COVINA USD -- ROWLAND ES
DATE: 7-25-22
CUST. P.O.:
MECH. ENGR.: DLR
MARK: 3 TON

REVISIONS:
A: SLOPE (7-25-22)
B:
C:
D:

DRN: TDT
DATE: 7-25-22
DRAWING NO.:
 -3A

1 RTU ANCHORAGE DETAIL
M7.5 / NO SCALE

1

ROWLAND AVE. E.S. AC UNIT REPLACEMENT

ROWLAND AVE. E.S. EXISTING UNIT

NEW UNIT

Table with columns for TAGS, MAKE, MODEL, GAS INPUT/OUTPUT, ELECTRICAL (SINGLE CIRCUIT), WEIGHT (LBS), ECONOMIZER, POWER EXHAUST, OPERATING WEIGHT (LBS), DIRECT REPLACEMENT? Y/N, CARRIER MODEL #, NET COOLING CAPACITY, AIRFLOW (CFM), ESP (IN WG), SEER, EER, HEATING CAPACITY, NEW MERV RATING, FILTER QUANTITY & SIZE, ELECTRICAL, WEIGHT, OUTSIDE AIR HOOD WEIGHT (LBS), ECONOMIZER, POWER EXHAUST, ROOF CURB WEIGHT (LBS), TOTAL WEIGHT (LBS), UNIT DIMENSIONS (L" X W" X H"), ANCHORAGE DETAIL REFERENCE.

NOTES:

- 1. PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.
2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
3. ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION. UNO. FIELD VERIFY PRIOR TO ORDERING.
4. PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
5. FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT, AND OUTSIDE AIR HOOD, AS APPLICABLE.
6. SCOR RATING OF UNITS SHALL BE MINIMUM OF 10KA FOR CLASSROOM RTU's & MPR FCU-B1 AND 25 KA FOR MPR CU-B1.

2

DIFFUSER AND GRILLE SCHEDULE

Table with columns: MARK NO., MANUFACTURER & MODEL NO., TYPE, OVERALL DIMENSIONS, NECK SIZE, CFM RANGE, MAX NC, MAX SP, NOTES.

- NOTES:
1. OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.
2. PROVIDE PROPERLY SIZED CEILING.

ASI 5

3

DUCT SIZING SCHEDULE *** FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST

Table with columns: CFM RANGE, ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT, CFM RANGE, ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT.

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

Table with columns: LOCATION, AIR VELOCITY GUIDELINES (FPM), NOISE CRITERIA (NC) (40, 35, 30, 25, 20, 15).

4

DUCT SIZING *** MEDIUM PRESSURE DUCTWORK

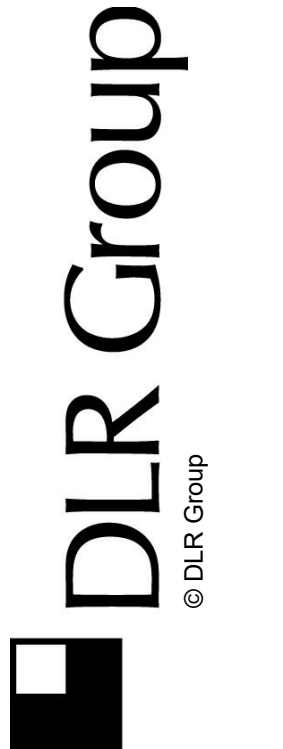
Table with columns: CFM, ROUND DUCT (IN), RECTANGULAR DUCT (IN) (W X H), W X 4, W X 6, W X 8, W X 10, W X 12.

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1" WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

VERIFY ALL DIMENSIONS AT THE SITE. MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

5



Rowland Elementary School
COVINA VALLEY USD
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75-22605-00

MECHANICAL SCHEDULES

M8.1


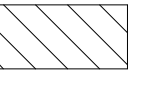

GENERAL NOTES

KEY NOTES

A. DRYWELL TYP. REFER TO 7/M7.2 TYP.

ASI 5

SITE LEGEND

-  EXISTING BUILDING NOT IN SCOPE
-  EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
-  (E) RESTROOMS - NOT IN SCOPE



MECHANICAL PLUMBING SITE PLAN
SCALE: 1/32" = 1'-0"



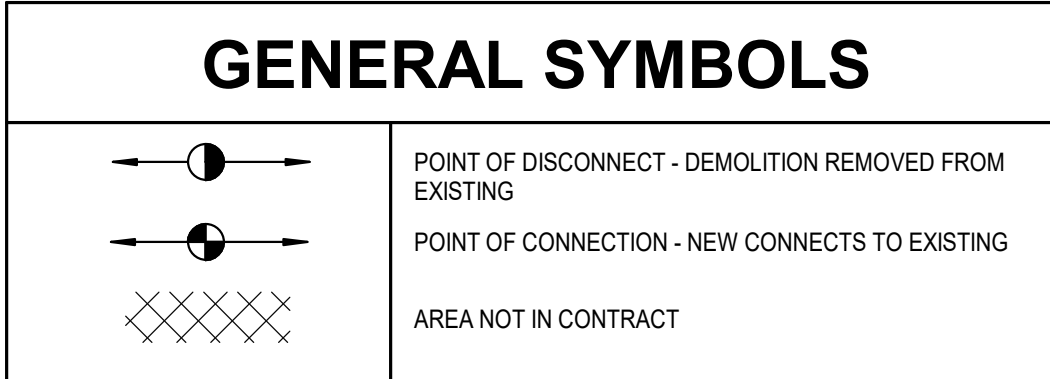
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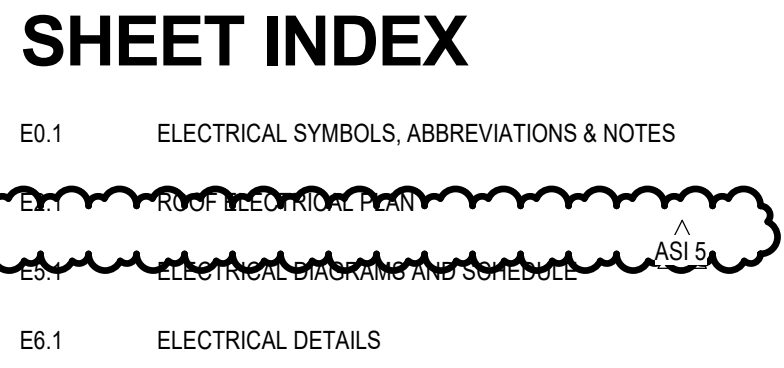
MECHANICAL PLUMBING SITE PLAN

MP1.1



GENERAL NOTES

- PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
- UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR AUTHORIZATION IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD AND DSA.



APPLICABLE CODE: 2019 CBC 02/02/2020 REVISED: 02/14/2020

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110V/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP	MD	PP	(E)	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPMM) # 00043-13

POWER

	CIRCUIT HOME RUN
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB-UP
	CONDUIT SLEEVE
	CONDUIT SEAL
	CONDUIT CONCEALED IN CEILING OR WALLS, POWER
	CONDUIT CONCEALED IN CEILING OR WALLS, OTHER (" = SEE ABBREVIATIONS)
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, POWER
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, OTHER (" = SEE ABBREVIATIONS)
	EXPOSED CONDUIT, POWER
	EXPOSED CONDUIT, OTHER (" = SEE ABBREVIATIONS)
	FIRE RATED SLEEVE
	TRANSFORMER
	BRANCH CIRCUIT PANELBOARD MOUNT 72-INCHES TO TOP
	DISTRIBUTION PANELBOARD MOUNT 72-INCHES TO TOP
	EQUIPMENT CABINET, AS NOTED
	SWITCHBOARD
	MOTOR STARTER OR DRIVE
	DISCONNECT SWITCH
	COMBINATION STARTER / DISCONNECT SWITCH
	CURRENT TRANSFORMER ENCLOSURE
	METER
	GENERATOR
	AUTOMATIC TRANSFER SWITCH
	SYSTEM GROUND ELECTRODE
	THERMOSTAT
	MUSHROOM SWITCH
	ELECTRICAL MANHOLE
	ELECTRICAL HAND HOLE
	MOTOR CONNECTION, HORSEPOWER AS INDICATED
	FUSE AND SWITCH ASSEMBLY
	MANUAL CONTROLLER WITH THERMAL OVERLOAD
	MANUAL CONTROLLER W/O THERMAL OVERLOAD
	CIRCUIT BREAKER ENCLOSURE
	PULL BOX
	EQUIPMENT CONNECTION
	CABLE TRAY, LADDER TYPE OR RUNWAY
	CABLE TRAY
	MULTI-OUTLET ASSEMBLIES MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER
	DIVIDED SURFACE RACEWAY MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER
	PUSHBUTTON STATION: MOUNT 42-INCHES AFF UNO
	SWITCH, PUSH BUTTON, SINGLE
	SWITCH, PUSH BUTTON, DOUBLE
	SWITCH, PUSH BUTTON, TRIPLE

	RECEPTACLES: MOUNT 18-INCHES AFF, UNO
	DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOVE COUNTER WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS.
	RECEPTACLES SHALL BE MACHINE PRINTED, UNO
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, GFI TYPE
	DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER
	DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	FOURPLEX RECEPTACLE
	FOURPLEX RECEPTACLE, GFI TYPE
	FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER
	FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	DUPLEX RECEPTACLE, FLUSH IN CEILING
	FOURPLEX RECEPTACLE, FLUSH IN CEILING
	DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED
	DUPLEX RECEPTACLE, HORIZ. MTD. GFI TYPE
	DUPLEX RECEPTACLE, HORIZ. MTD. ABOVE COUNTER
	DUPLEX RECEPTACLE, HORIZ. MTD. GFI TYPE, MOUNT ABOVE COUNTER
	WEATHER RESISTANT GFI DUPLEX RECEPTACLE, ROOF MOUNT 18-INCHES ABOVE ADJACENT STRUCTURE WITH A WEATHERPROOF, IN-USE COVER
	WEATHER RESISTANT GFI DUPLEX RECEPTACLE, MOUNT 18-INCHES AFF WITH A WEATHERPROOF, IN-USE COVER
	STD DUPLEX RECEPTACLE TO SERVE ELECTRIC WATER COOLER, MOUNT AT HEIGHT PER EWG EQUIPMENT MANUFACTURERS INSTALLATION GUIDELINES. WIRE TO GFCI BREAKER IN PANELBOARD.
	DUPLEX RECEPTACLE TO SERVE TELEVISION, MOUNT AT SAME HEIGHT AND WITHIN 8-INCHES OF ADJACENT TV OUTLET
	DUPLEX RECEPTACLE, EMERGENCY
	FOURPLEX RECEPTACLE, EMERGENCY
	DUPLEX RECEPTACLE, LOWER SWITCH
	DUPLEX RECEPTACLE, SWITCHED
	RANGE RECEPTACLE, MOUNT 8-INCHES AFF
	SPECIAL RECEPTACLE, DEEP WELL BOX
	FLUSH FLOOR OUTLET BOX UNO
	FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE UNO
	MULTI-DEVICE FLOOR BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS OUTLETS
	USE ONLY RECEPTACLE RECEPTACLE WITH USB PORTS
	FLUSH JUNCTION BOX, CEILING MOUNTED
	JUNCTION BOX FOR FUTURE PROJECTOR POWER MOUNT 24-INCHES ABOVE SUSPENDED CEILING MOUNT TIGHT TO CEILING AT EXPOSED STRUCTURE LABEL BOX COVER 'PROJECTOR POWER'
	JUNCTION BOX ABOVE SUSPENDED CEILING WITH FLEX CONNECTION
	FLUSH JUNCTION BOX, WALL MOUNTED
	SURFACE JUNCTION BOX, WALL MOUNTED
	SURFACE JUNCTION BOX, CEILING MOUNTED
	HAND DRYER, INSTALL HAND DRYER SPECIFIED IN DIV. 11

ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
Ø	PHASE
A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME (CIRCUIT BREAKER)
AC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AP	WIRELESS ACCESS POINT
AT	AMP TRIP (CIRCUIT BREAKER OR FUSE)
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCl	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CTL	CONTROL
CU	COPPER
DB	DECIBEL
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANELBOARD
DW	DISHWASHER
EC5	EMERGENCY COMMUNICATION SYSTEM
EGS	ELECTRICAL GROUNDING BUSBAR
EMD	ESTIMATED MAXIMUM DEMAND
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EP	EXPLOSION PROOF
ER	EXISTING TO BE RELOCATED
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
ERC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPS
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
G	EQUIPMENT GROUNDING CONDUCTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFFE	GROUND FAULT PROTECTION OF EQUIPMENT
GND	EQUIPMENT GROUNDING CONDUCTOR
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IC	INTERCOM
IG	ISOLATED GROUND
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CIRCUIT
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LT	LIGHT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRTS	MOTOR RATED TOGGLE SWITCH
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TRANSFER SWITCH
N	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NON-FUSED
NL	NIGHT LIGHT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OSAY	OUTSIDE SCREW AND YOKE
P	POLE(S)
PA	PUBLIC ADDRESS
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
PWR	POWER
RCP	REFLECTED CEILING PLAN
RECP	RECEPTACLE
REF	REFERENCE
RESP	RESPONSIVE
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SEC	SECONDARY
SFD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TD	TIME CLOCK
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TS	TAMPER SWITCH
TV	TELEVISION
UG	UNDERGROUND
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WA	TELECOMMUNICATIONS WORK AREA
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)
XFMR	TRANSFORMER

NOTE

ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.



Rowland Elementary School
 COVINA VALLEY USD
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100% CONSTRUCTION DOCUMENTS

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ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E0.1

GENERAL NOTES

- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET ES.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CSBC 903.15.1. EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE. EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK WITH ROOF TOP EQUIPMENT. EXTEND EXISTING FEEDER AS REQUIRED. SEE TABLE ON SHEET ES.1 FOR OTHER INFORMATION. PROVIDE ALL REQUIRED CONNECTION.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
3	NEW HVAC EQUIPMENT AT GRADE. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTION.
4	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 608 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
5	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
6	PROVIDE GFCI OUTLET WITH WEATHERPROOF-IN USE COVER
7	(N) PANELBOARD 8, 277/480 VOLTS, 3-PHASE, W-WIRE, 225
8	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ES.1, GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
9	FUSES DISCONNECT SIZE PER TABLE SHOWN ON ES.1
10	PROVIDE 120V CIRCUIT FOR EMS ROUTER AND EMS PANEL. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND EMS PANEL.
11	JUNCTION BOX WITH TOGGLE TYPE DISCONNECT SWITCH FOR COMBINATION FIRE SMOKE DAMPER. PROVIDE REQUIRED CONNECTION TO EXISTING FIRE ALARM SYSTEM FOR CONTROL. SEE SHEET E2.2 FOR REFERENCE. PROVIDE ALL REQUIRED PARTS AND LABOR FOR A FULLY OPERATIONAL SYSTEM.

SITE LEGEND

- EXISTING BUILDING NOT IN SCOPE
- EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
- (E) RESTROOMS - NOT IN SCOPE



OVERALL ELECTRICAL POWER PLAN
SCALE: 1/16" = 1'-0"



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75-22605-00
ROOF ELECTRICAL PLAN

E2.1

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WORKMAN ELEMENTARY SCHOOL

1941 E. WORKMAN AVE. WEST COVINA, CA 91791

COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION #

A# 03-122234

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G1.1	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	E2.1	ELECTRICAL FLOOR POWER PLAN - NEW AND DEMOLITION
ARCHITECTURAL		E5.1	ELECTRICAL DIAGRAMS AND SCHEDULES
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A3.1E	AREA E - REFLECTED CEILING PLAN		
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M0.4	TITLE 24 COMPLIANCE		
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VICINITY MAP



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CONTACT: TONG FANG (DONNA) ZHAO
PH: 213.444.0610
DZHAO@DLRGROUP.COM

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122234 File No. 19-25)

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b))

I FIND THAT:	<input checked="" type="checkbox"/> ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES)	<input type="checkbox"/> THIS DRAWING OR PAGE	
<input checked="" type="checkbox"/> ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND	<input type="checkbox"/> ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND		
<input checked="" type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.	<input type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.		
SIGNATURE	DATE	SIGNATURE	DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE		ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK	
JESSE MILLER	05/05/2022		
PRINT NAME	10/31/2023	PRINT NAME	
C-32306		LICENSE NUMBER	EXPIRATION DATE
LICENSE NUMBER	EXPIRATION DATE	LICENSE NUMBER	EXPIRATION DATE

DESIGN ANALYSIS DATA

- WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS
 - RISK CATEGORY: II
 - WIND DESIGN SPEED: V=110 MPH
 - WIND EXPOSURE CATEGORY: B (PER ASCE 7-16)
- EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5)
 - SEISMIC DESIGN CATEGORY: E OR F
 - SITE CLASS: D
 - S_u = 1.661
 - S_w = 0.609
 - S₁ = 1.993
 - S₂ = 7.041
 - S₃ = 1.328
 - S₄ = 7.041
 - L₁ (IMPORTANCE FACTOR) = 1.25
 - F_a (CONTROLLING HOR. SEISMIC FORCE) = 2089.48 LB
- DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6)
 - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF
 - ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF/MIN.

SCOPE OF WORK

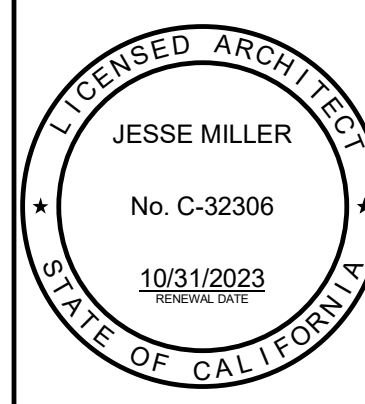
SCOPE OF WORK SHALL BE AS FOLLOWS:
REMOVAL OF EXISTING SPLIT SYSTEM UNITS INCLUDING GROUND MOUNTED CONDENSING UNITS AND ALL ASSOCIATED CONDUITS, PIPING, SUPPORTS, ETC. REPLACEMENT WITH NEW ROOF MOUNTED HVAC UNITS AT ALL CLASSROOM BUILDINGS TO INCLUDE: NEW CURBS, CONTROLS, ELECTRICAL, ROOF PATCHING, FLASHING, CEILING TILES, WINDOW GLAZING, AND MISC SITE WORK AS REQUIRED.
IN ADDITION REMOVAL AND REPLACEMENT OF EXISTING MRR UNIT WITH NEW HVAC SYSTEM.
REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AS REQUIRED.

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- 2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
- (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
- (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
- (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)
- NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADDITION
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLERS SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 14 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS (CA AMENDED) 2016 ADDITION
- NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 ADDITION
- NFPA 20 - STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION 2017 ADDITION
- NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 ADDITION
- NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 ADDITION
- NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ADDITION
- NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE 2016 ADDITION
- NFPA 2001 - STANDARD ON CLEAN AGING SYSTEMS (CA AMENDED) 2012 (R2010)
- UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
- UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 ADDITION
- UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 ADDITION
- UL 971 - STANDARD FOR HEARING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010)
- ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 ADDITION

DSA GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), NOT WITH STANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS, COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL ENGINEER, AND FIRE/LIFE/SAFETY) SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- A DSA CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- A DSA ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK.
- THE DSA CERTIFIED PROJECT INSPECTOR AND DSA ACCEPT TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT, STRUCTURAL ENGINEER OF RECORD, AND DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER.
- ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- A DSA ACCEPTED TESTING LABORATORY (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFERRED SUBMITTAL ITEMS, PLEASE INDICATE AS SUCH).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM-ACCEPTANCE-COM](https://www.energy.ca.gov/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM-ACCEPTANCE-COM)
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.



WORKMAN ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
1941 E. WORKMAN AVE. WEST COVINA, CA 91791

100% CONSTRUCTION DOCUMENTS
05/05/2022 REVISIONS
5 11/3/2023

75-22605-00
DSA A#03-122234
DSA File #: 19-25
COVER SHEET

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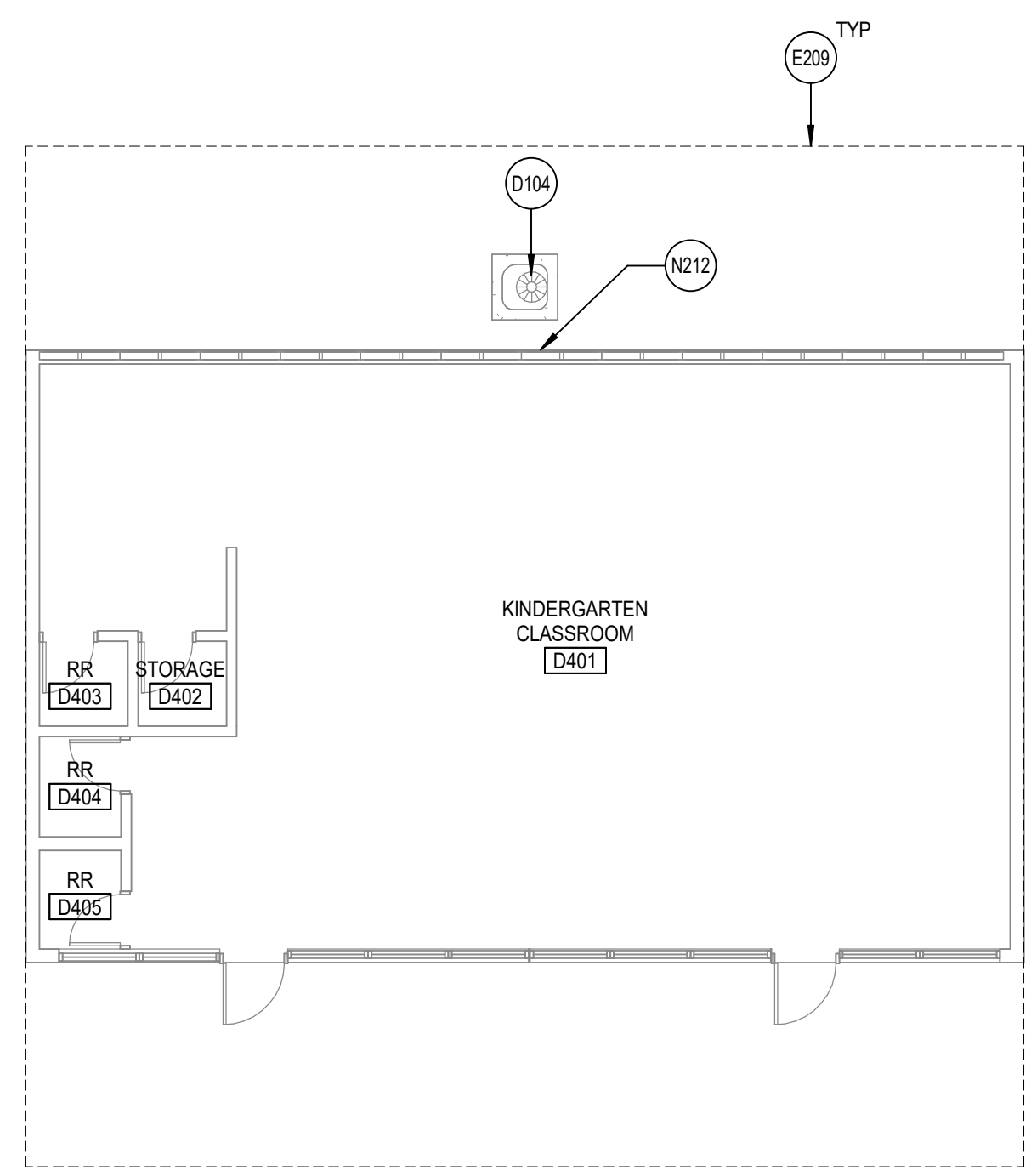
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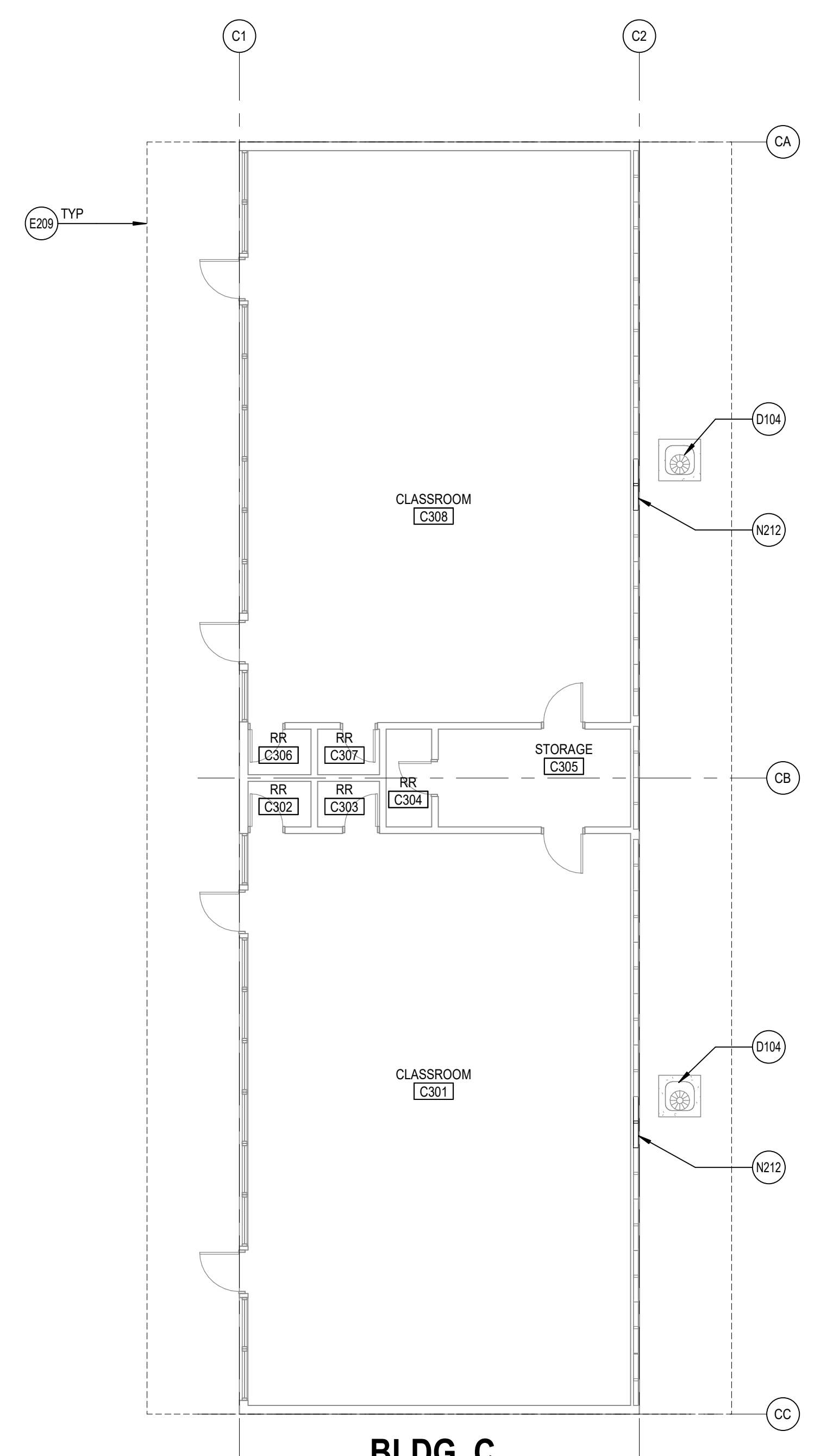
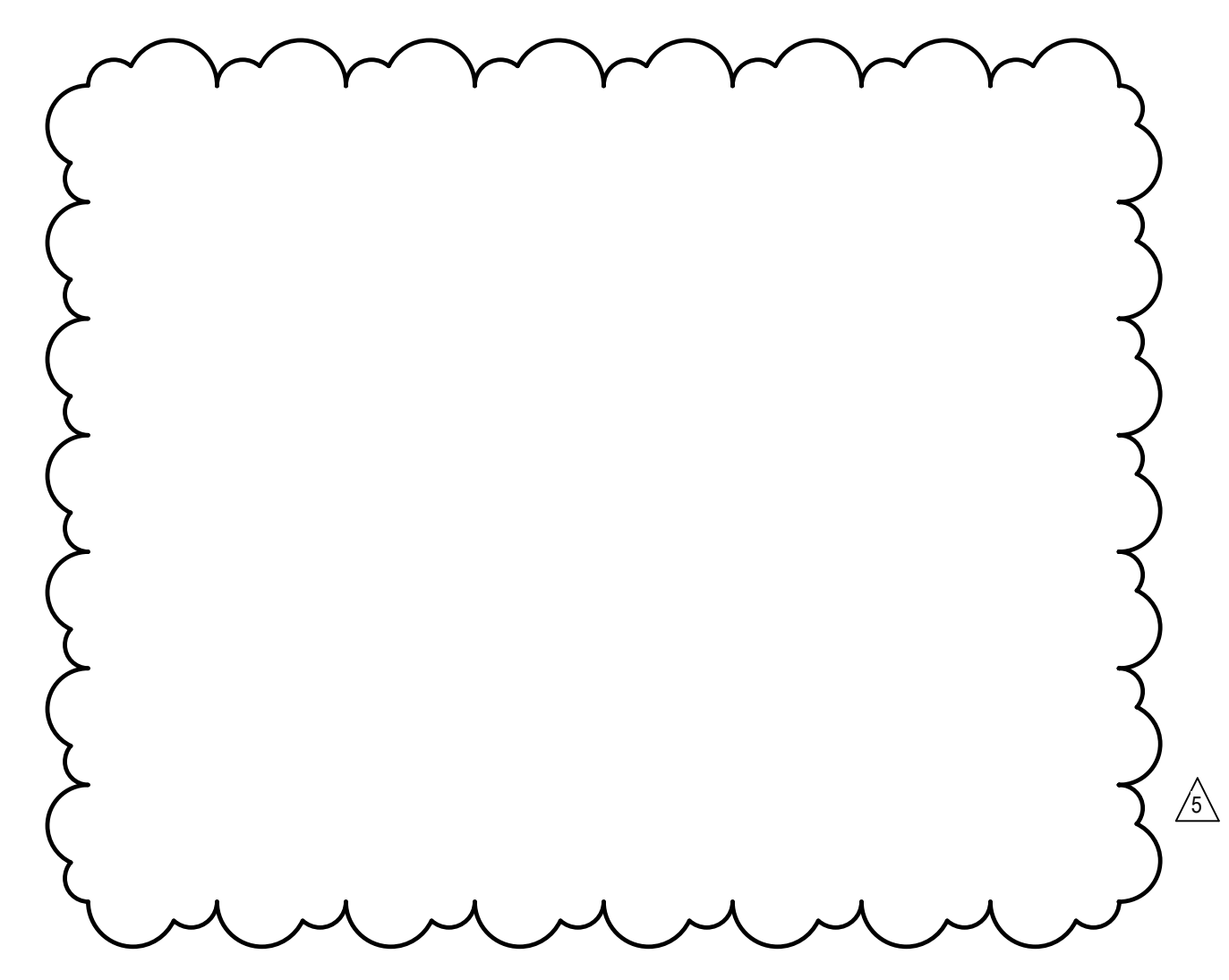
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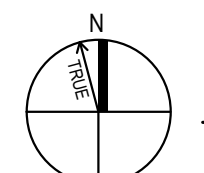
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BLDG. D



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AREA A - FLOOR PLAN

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

REFERENCE KEYNOTES

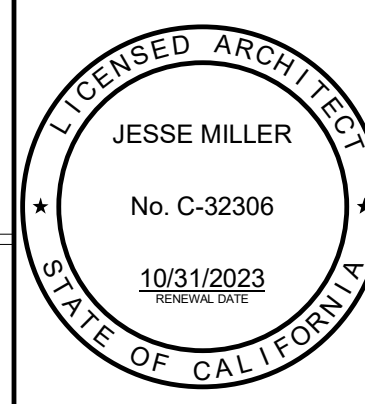
- D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
- N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT PAINT FRAME TO MATCH ADJACENT

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE TO REMAIN U.N.O.
2. SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



WORKMAN ELEMENTARY SCHOOL
 COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
 1941 E. WORKMAN AVE. WEST COVINA, CA 91791

100% CONSTRUCTION DOCUMENTS
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 5 1/13/2023

75-22605-00
 DSA A#03-12234
 DSA File #: 19-25
 AREA A - FLOOR PLAN

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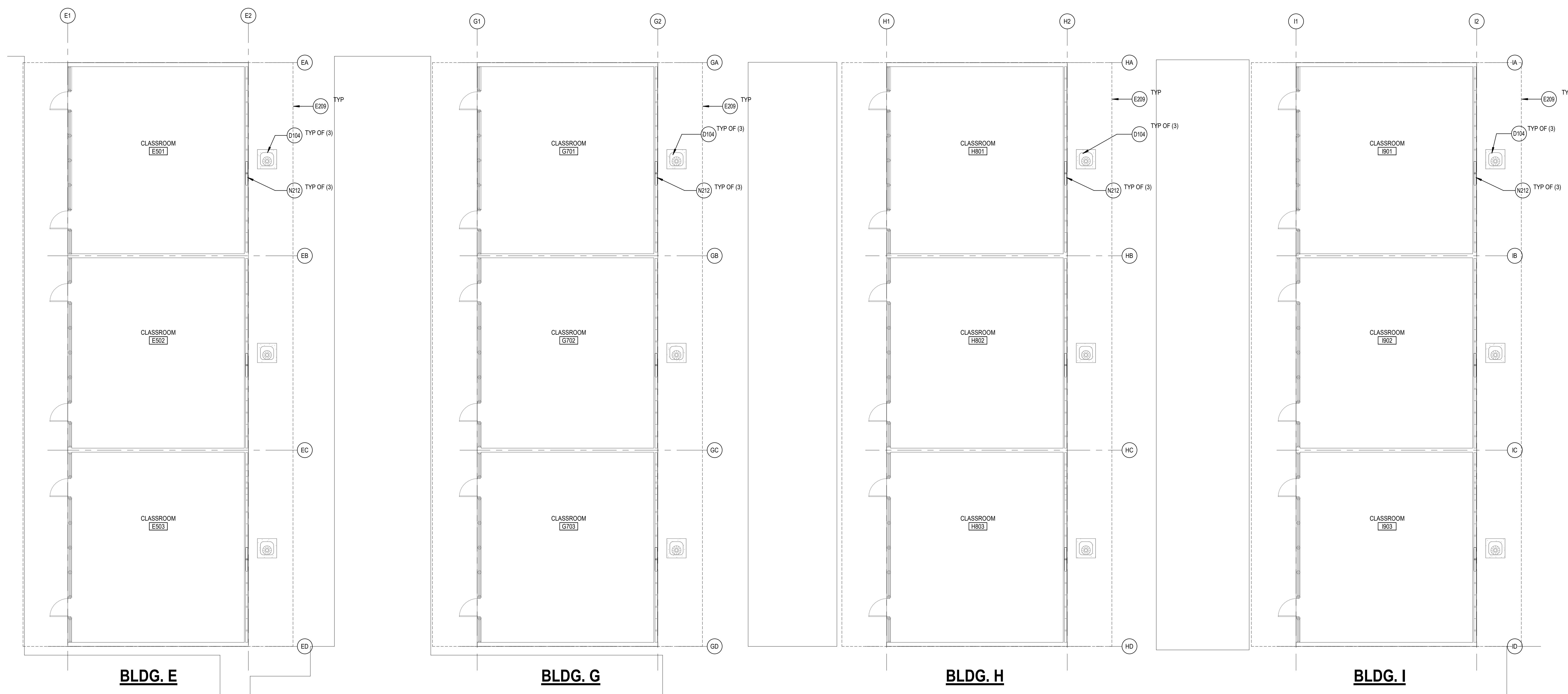
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BLDG. G

BLDG. H

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AREA B - FLOOR PLAN
 SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

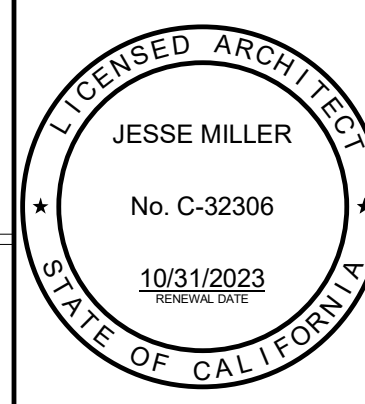
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- N212 REPLACE (E) IN-FILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

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 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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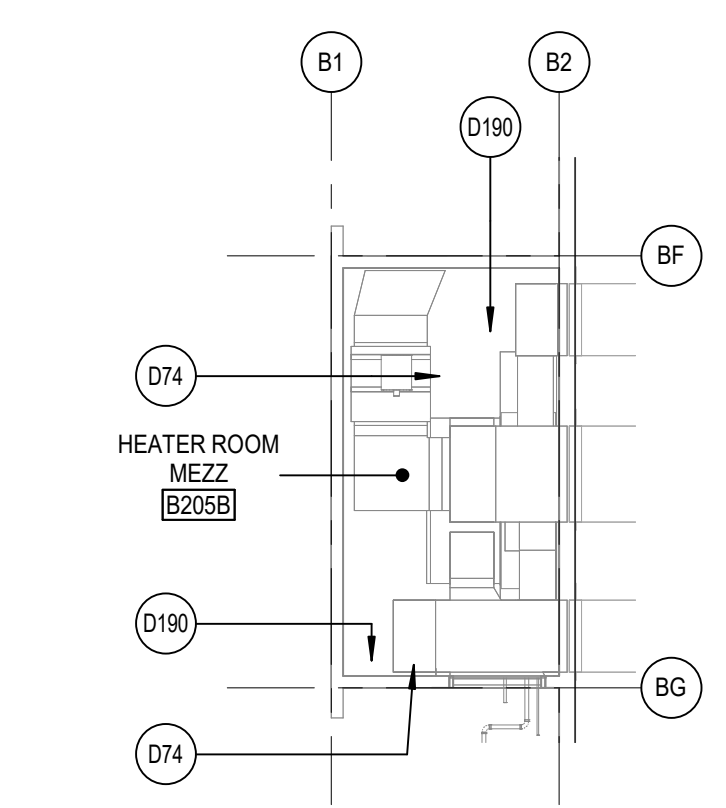
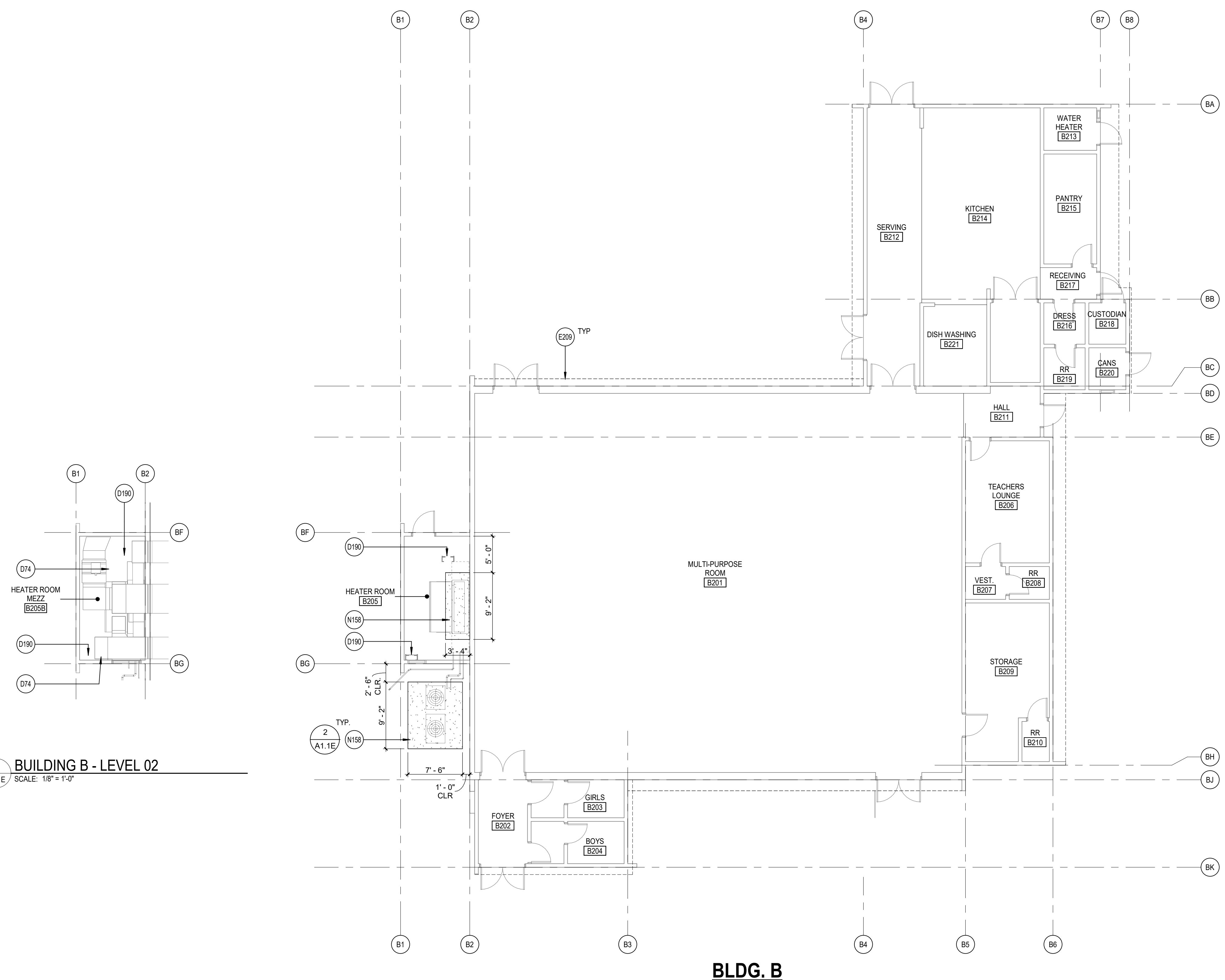
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AREA B - FLOOR PLAN

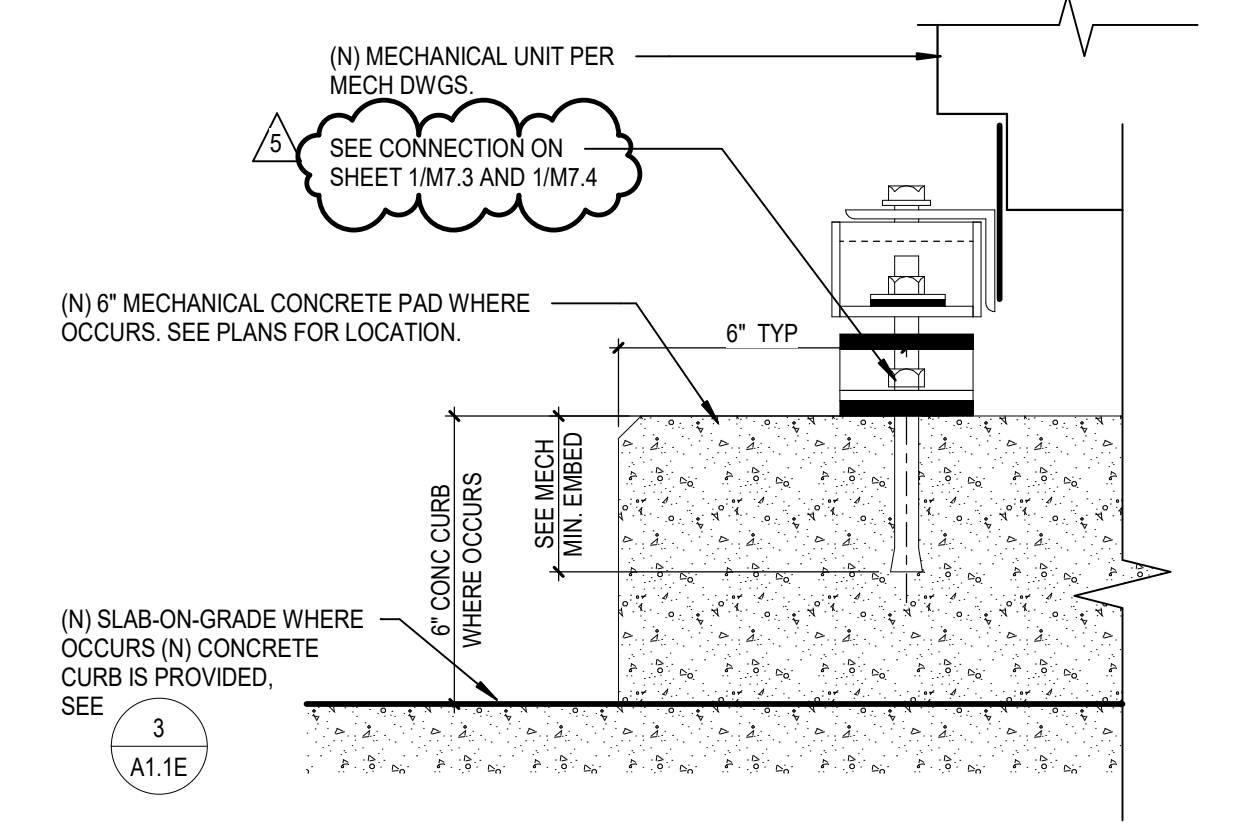
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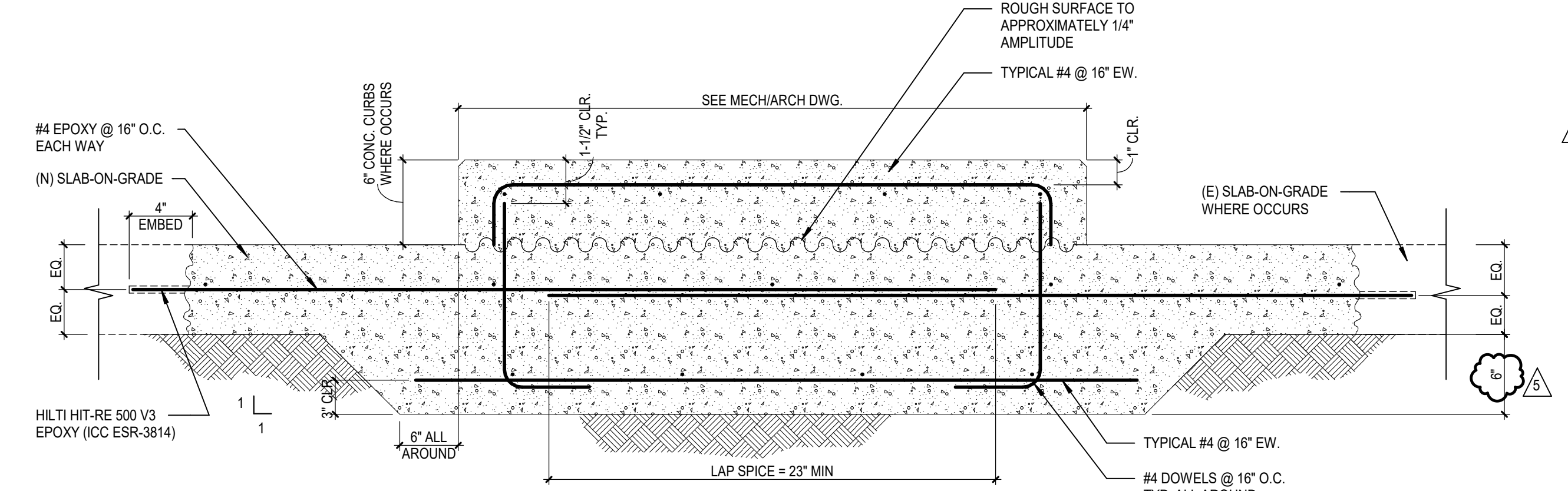


1 BUILDING B - LEVEL 02
SCALE: 1/8" = 1'-0"

AREA E - FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 MECH. ANCHORAGE AT CONC. CURB
SCALE: 3" = 1'-0"



3 TYPICAL MECH. EQUIPMENT CONCRETE PAD AT (E) SLAB-ON-GRADE
SCALE: 1 1/2" = 1'-0"

REFERENCE KEYNOTES

D74	DEMO (E) MEZZANINE PLATFORM IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT WALL AS REQUIRED.
D190	REMOVE (E) LADDER
E209	LINE OF (E) ROOF ABOVE SHOWN DASHED
N158	NEW MECHANICAL EQUIPMENT ON NEW 6" THK. TOP LEVELED CONCRETE PAD & PLACED 6" FROM EDGE OF PAD. SEE MECH DWGS.

GENERAL ARCHITECTURAL NOTES

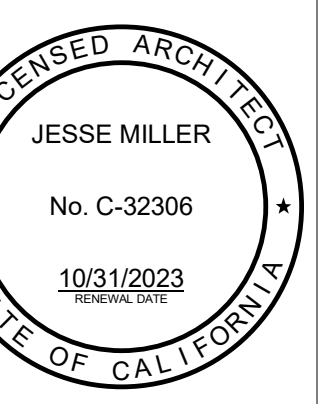
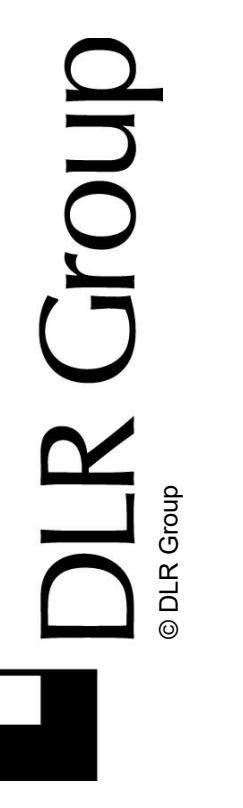
- ALL INTERIOR CMU WALLS SHALL REMAIN U.N.O.
- SCRIBE (E) GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
- COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
- VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
- REMOVE PLASTER/STUD WALLS INDICATED TO BE REMOVED. PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

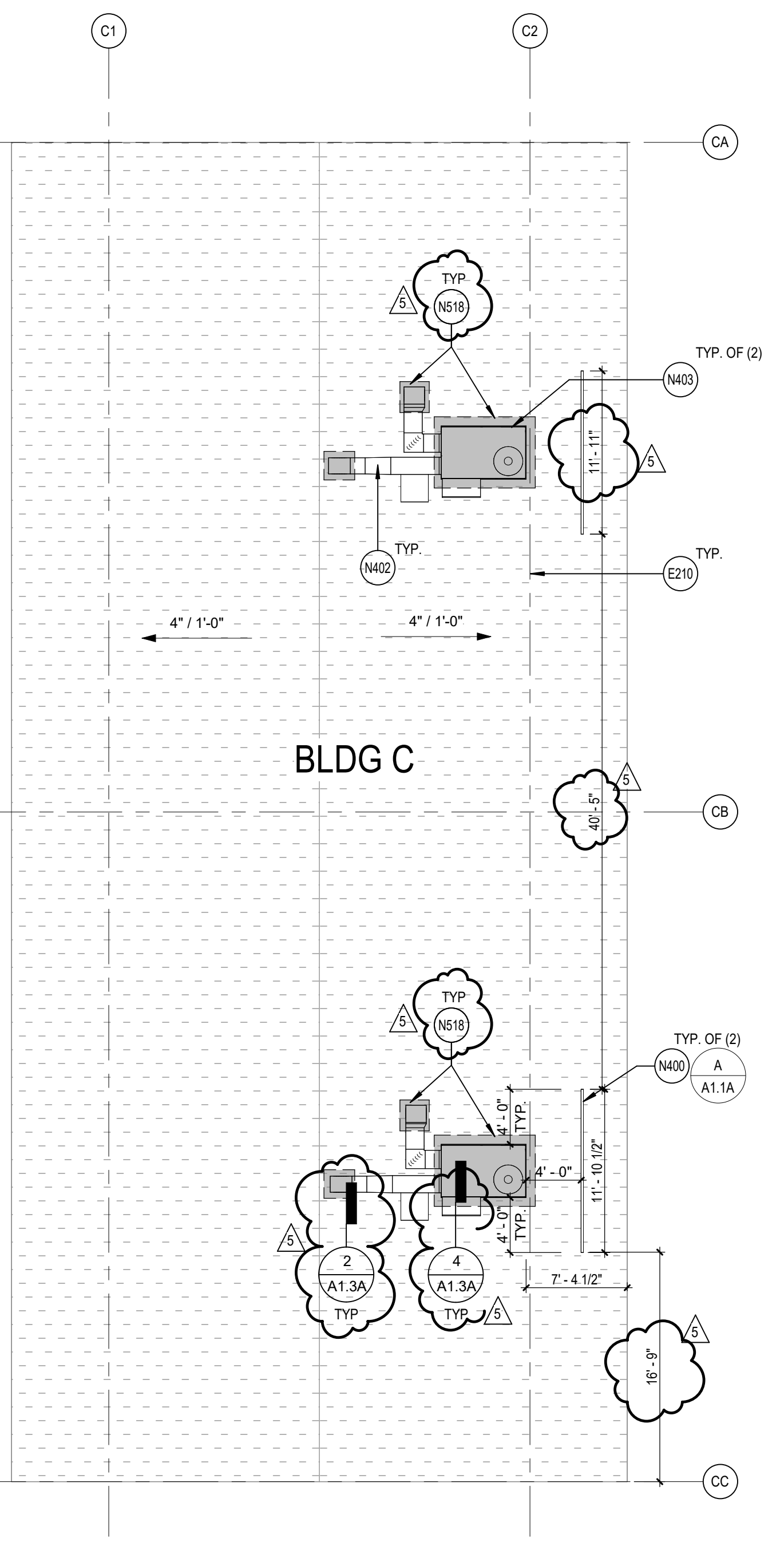
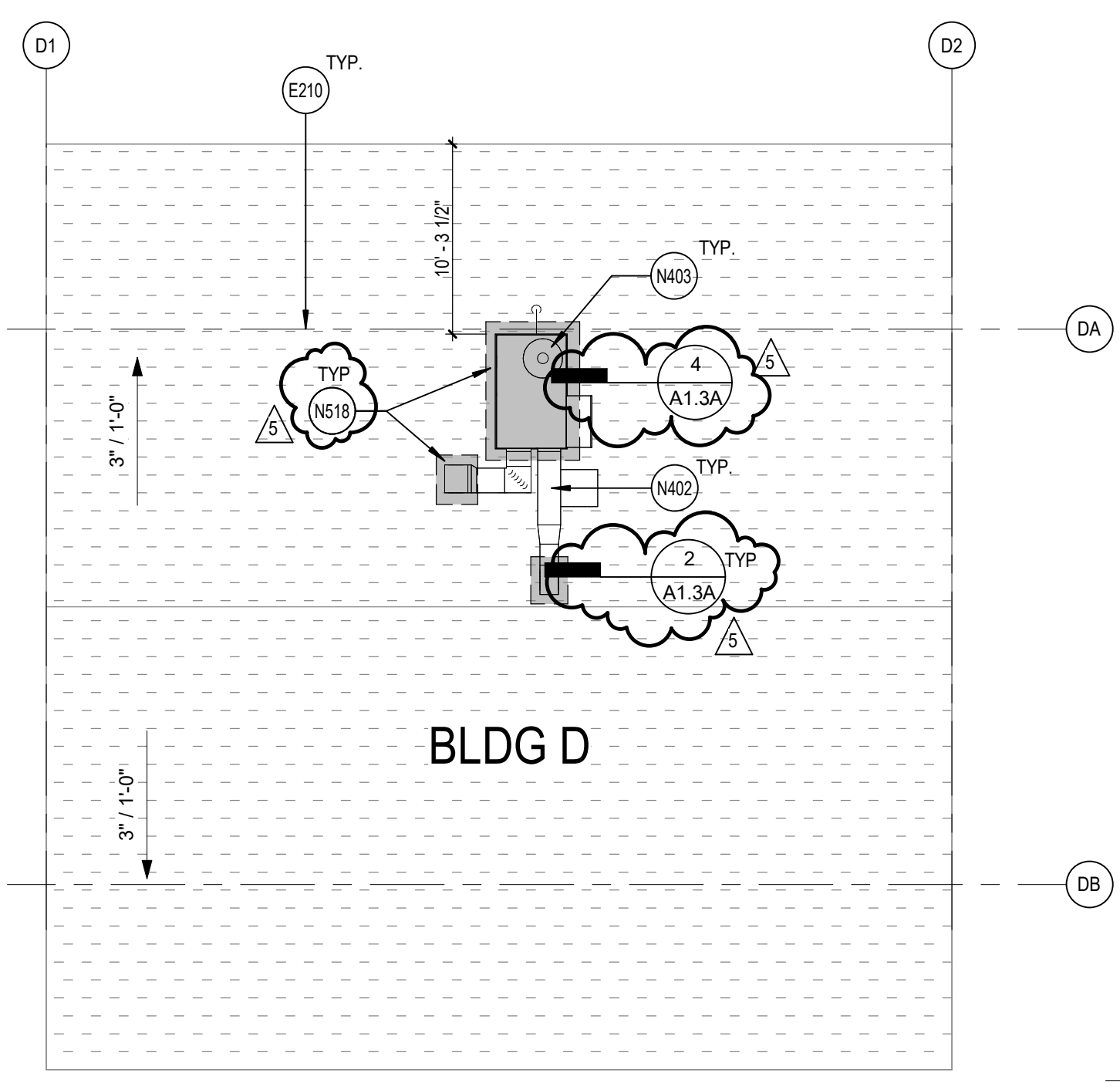
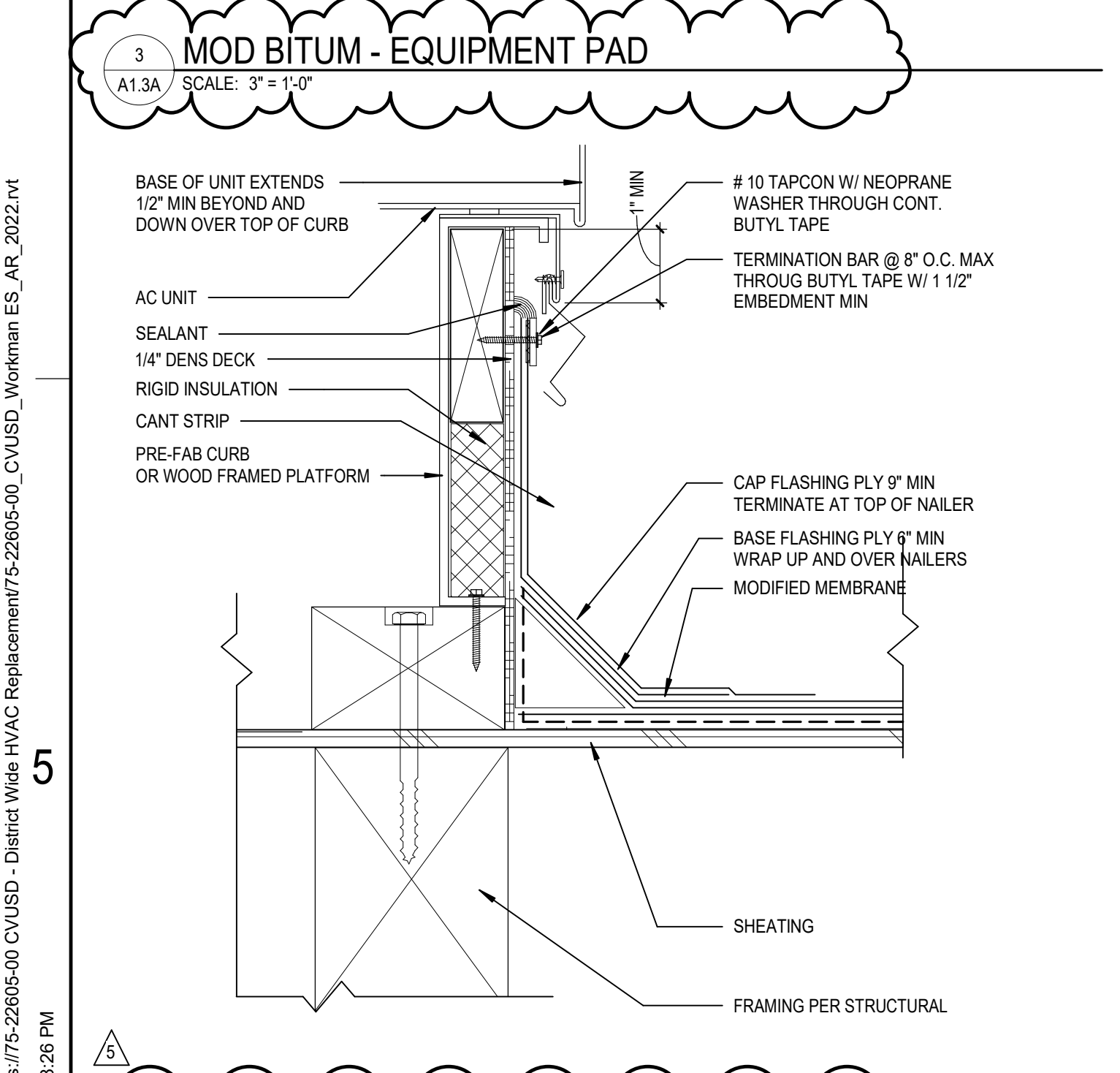
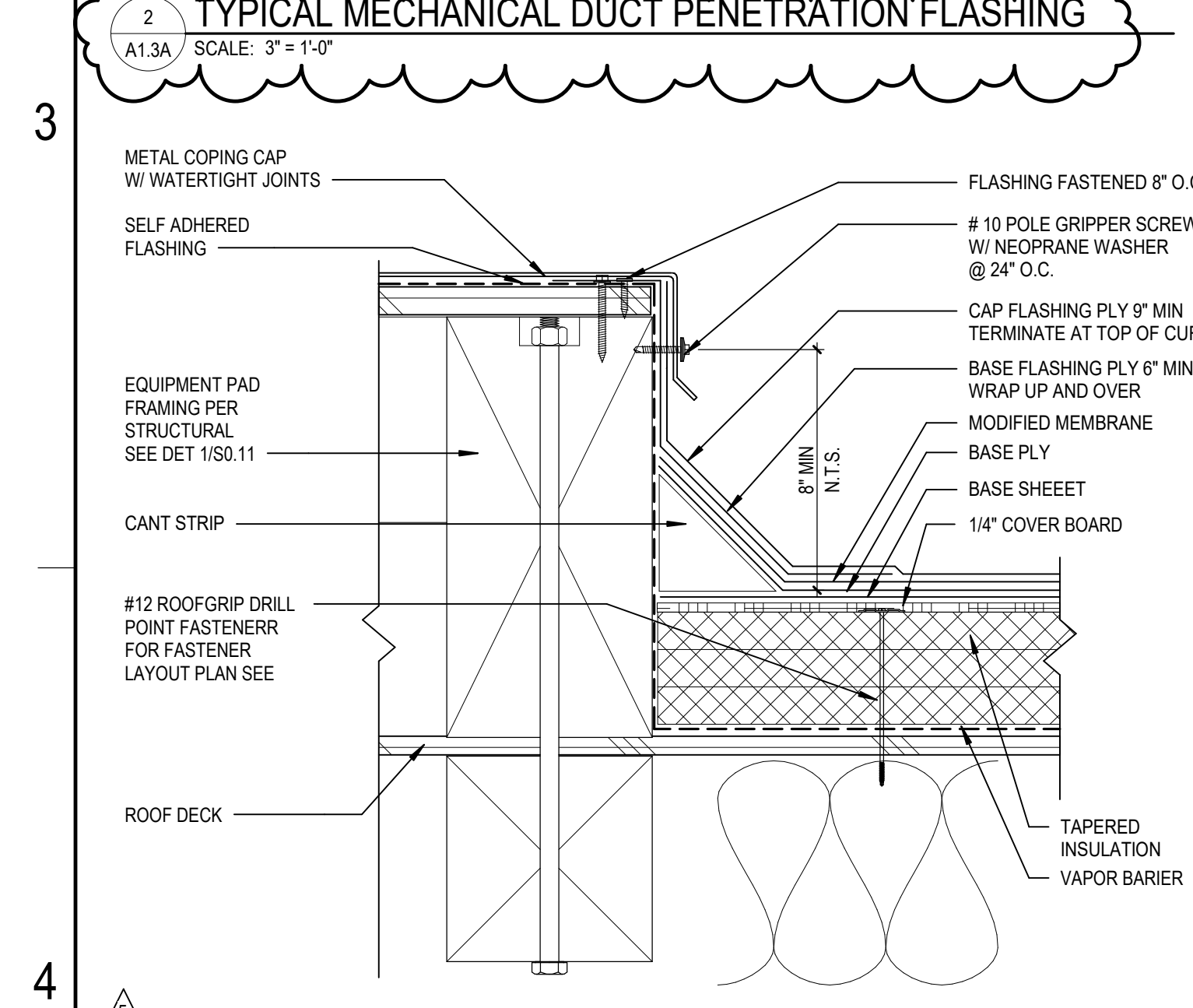
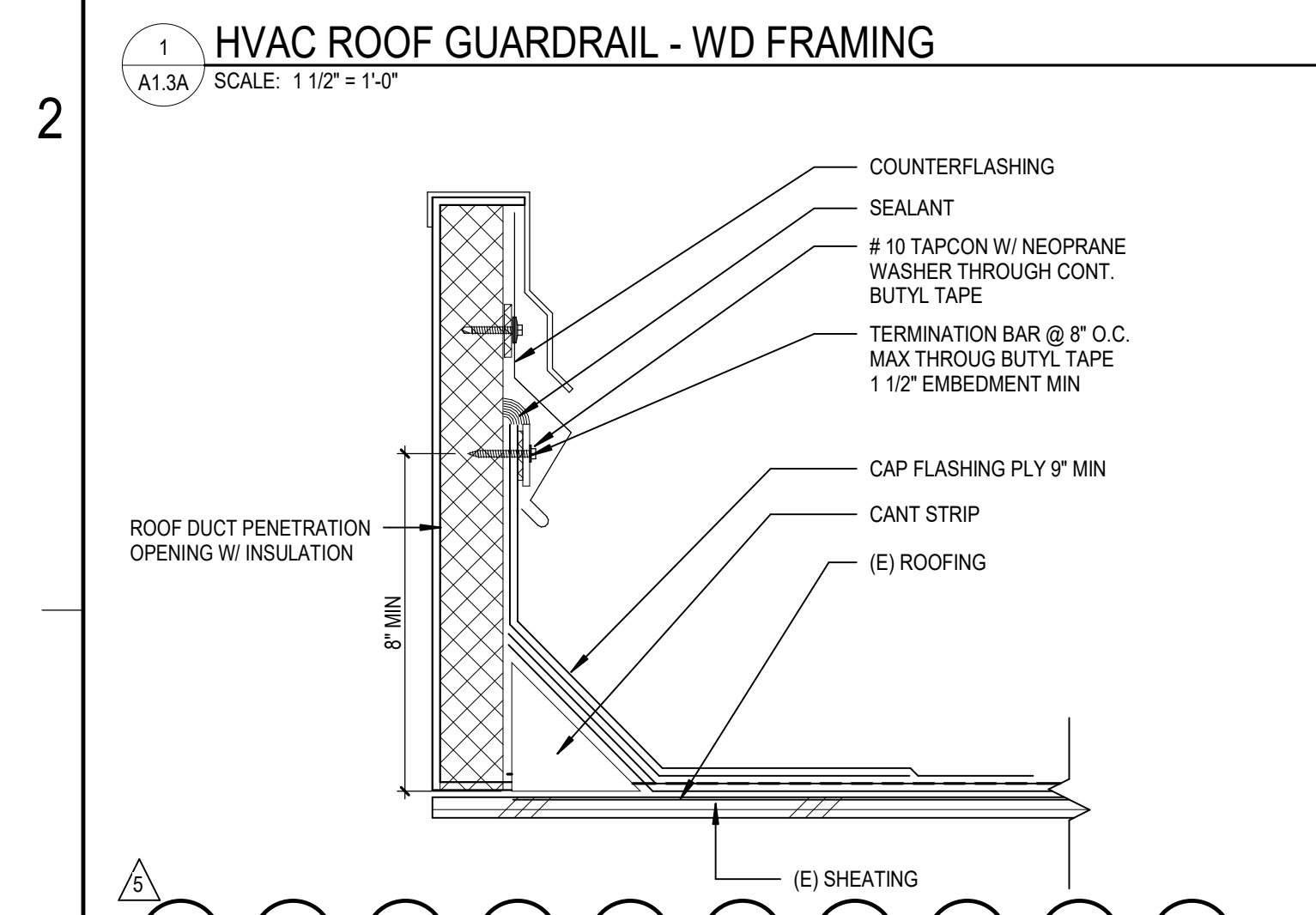
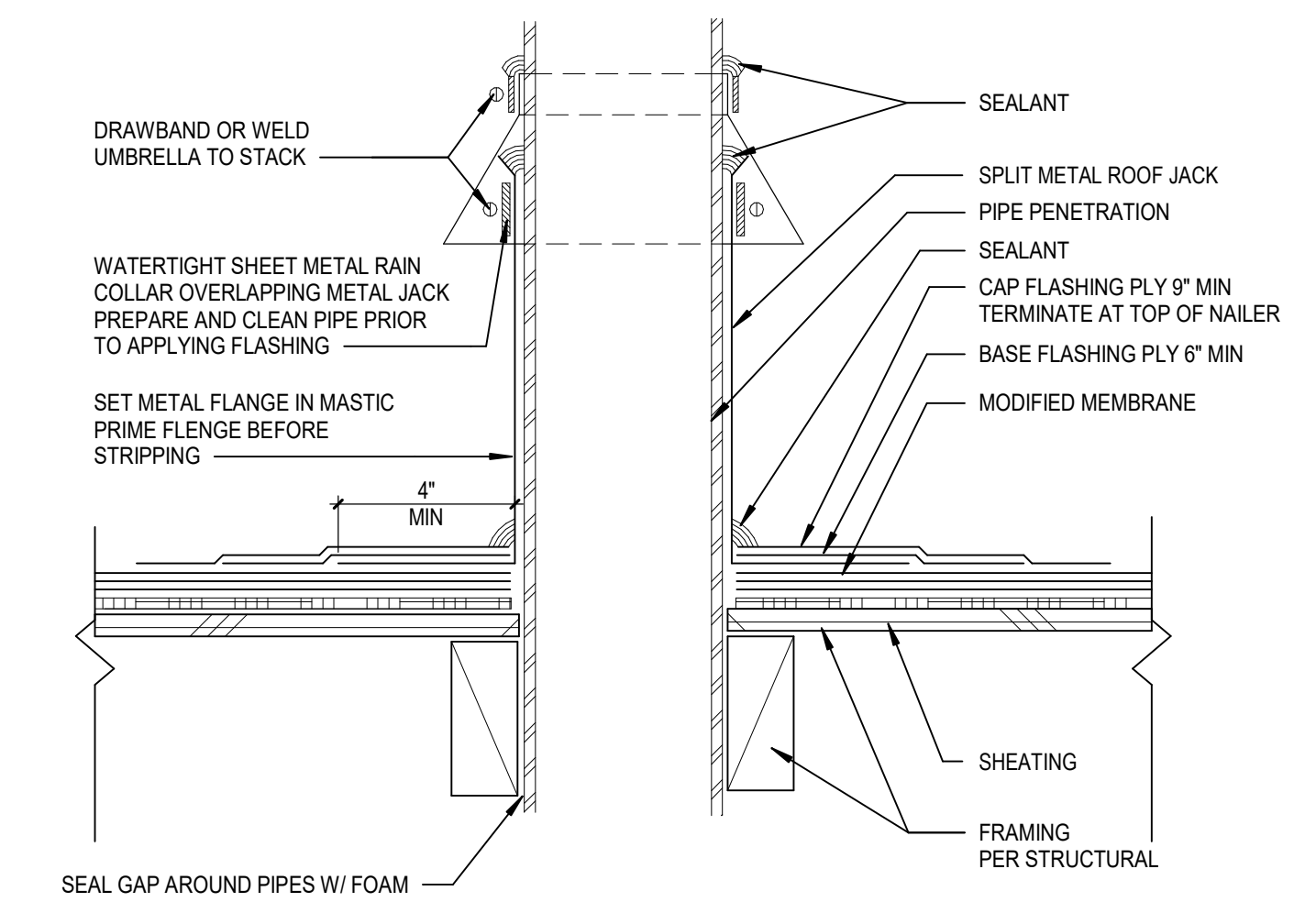
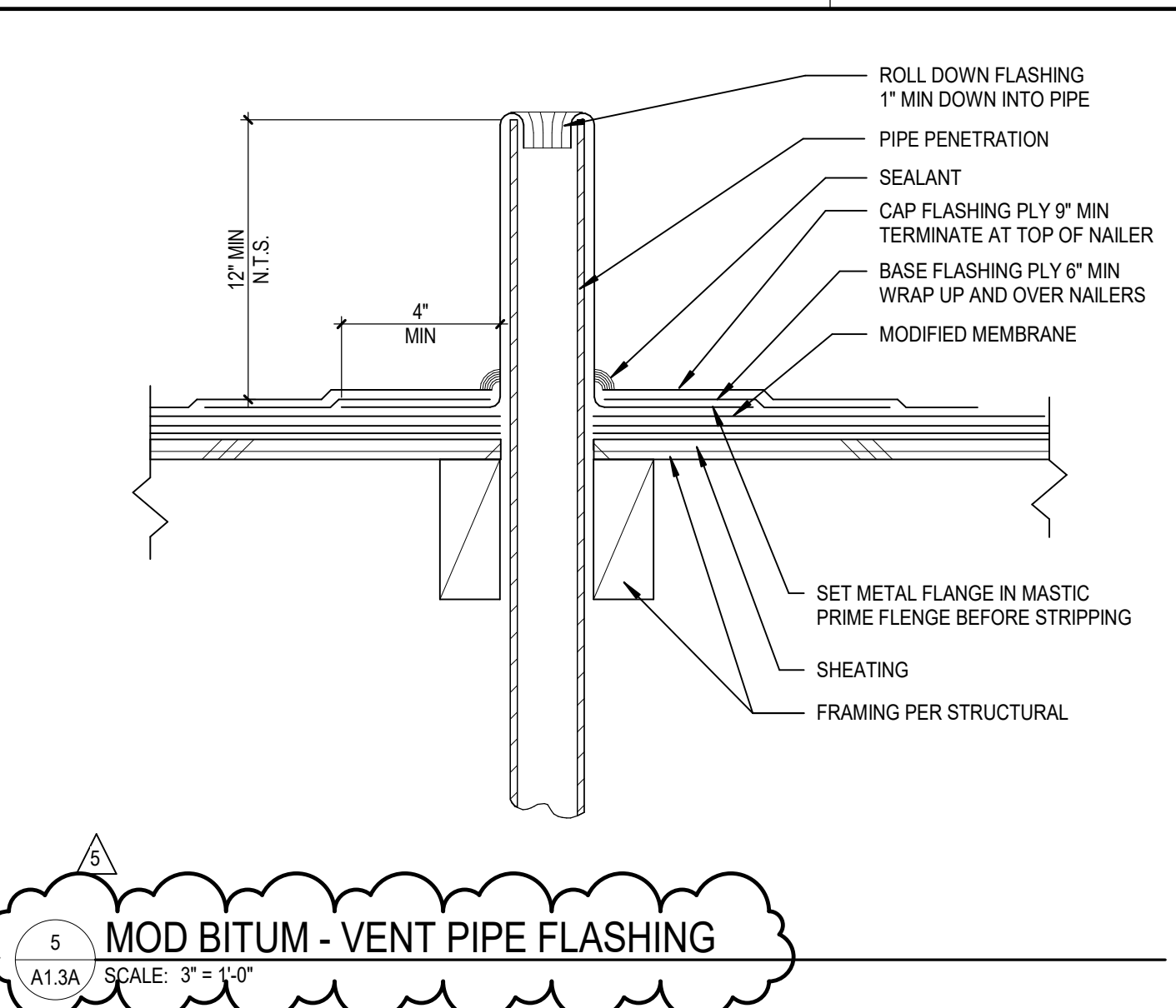
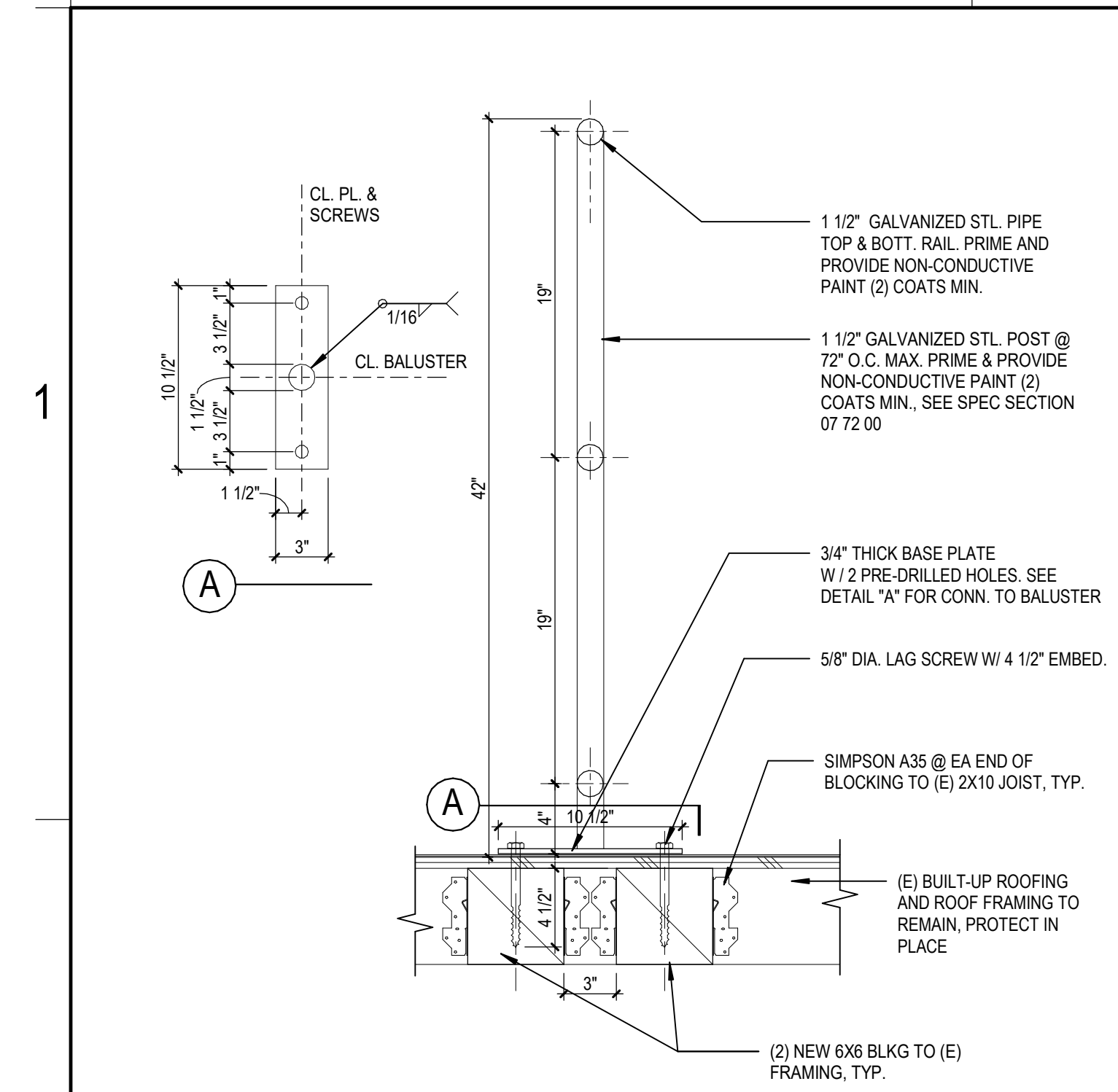


WORKMAN ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
1941 E. WORKMAN AVE. WEST COVINA, CA 91791

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5 1/13/2023

75-22605-00
DSA A#03-122234
DSA File #: 19-25
AREA E - FLOOR PLAN

A1.1E



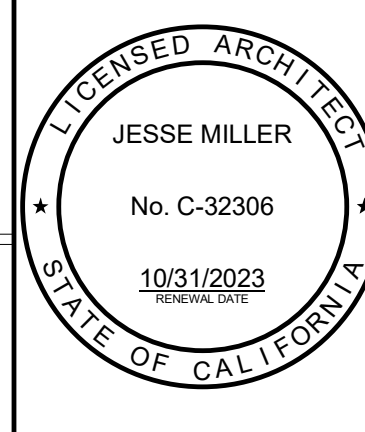
- REFERENCE KEYNOTES**
- E210 LINE OF (E) BLDG BELOW SHOWN DASHED
 - N400 NEW FREESTANDING METAL GUARDRAIL SYSTEM. SEE SUPPLIER FOR ANCHORAGE AND SPEC SECTIONS 05 52 00
 - N402 NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
 - N403 (N) MECHANICAL UNITS ATTACHED TO THE (N) UNIT CURB. SEE MECHANICAL DRAWING SHEETS M7.3, M7.4 AND M7.5
 - N518 (N) ROOF PATCHING IN AREA OF WORK

- ROOF PLAN GENERAL NOTES**
- (E) ROOF CURBS TO REMAIN U.N.O. SEE MECHANICAL DRAWINGS SHEET M1.3B AND M1.3D FOR ADDITIONAL INFORMATION
 - COORDINATE THE SIZE AND LOCATION OF WALL PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
 - (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.

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 - NOT USED
 - WHERE INTERSTUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

AREA A - ROOF PLAN
SCALE: 1/8" = 1'-0"

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WORKMAN ELEMENTARY SCHOOL
 COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
 1941 E. WORKMAN AVE. WEST COVINA, CA 91791

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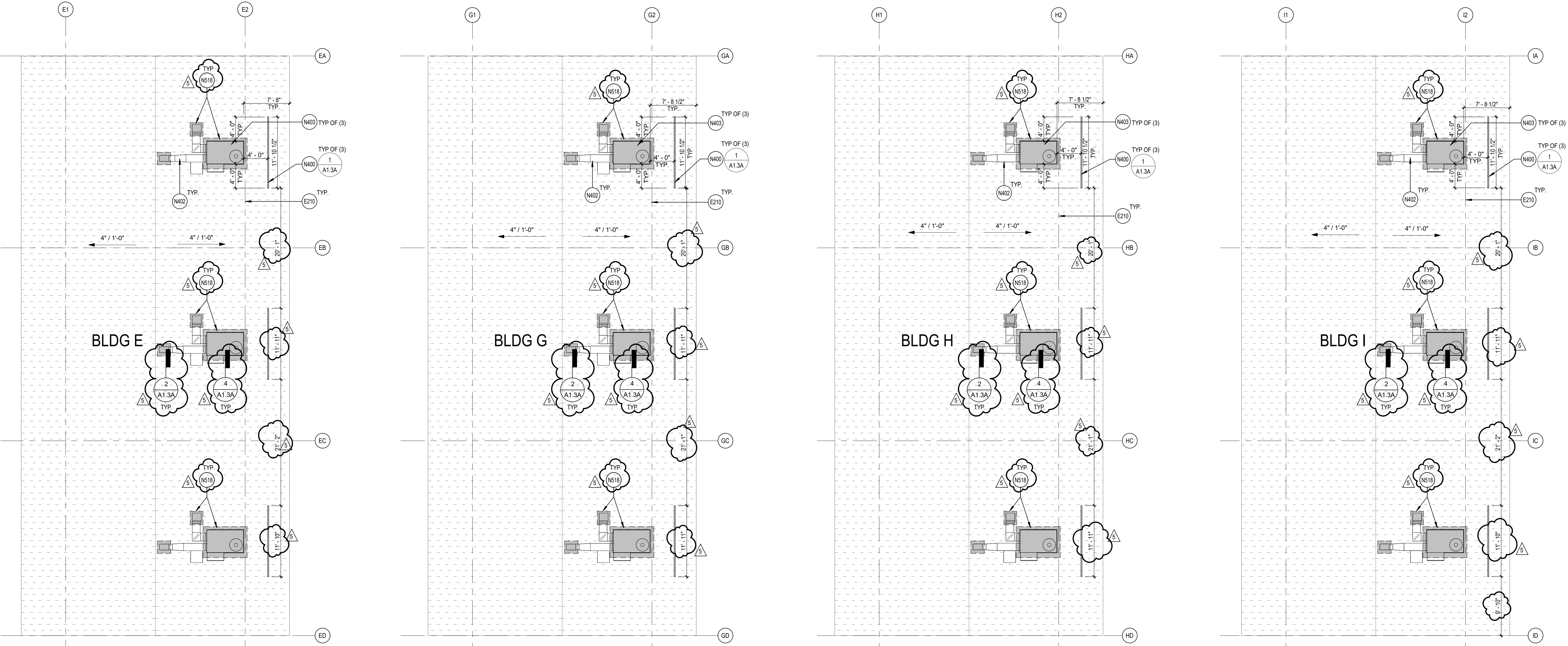
75-22605-00
 DSA A#03-122234
 DSA File #: 19-25
 AREA A - ROOF PLAN

A1.3A

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AREA B - ROOF PLAN

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



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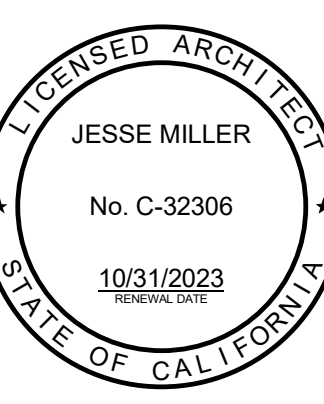
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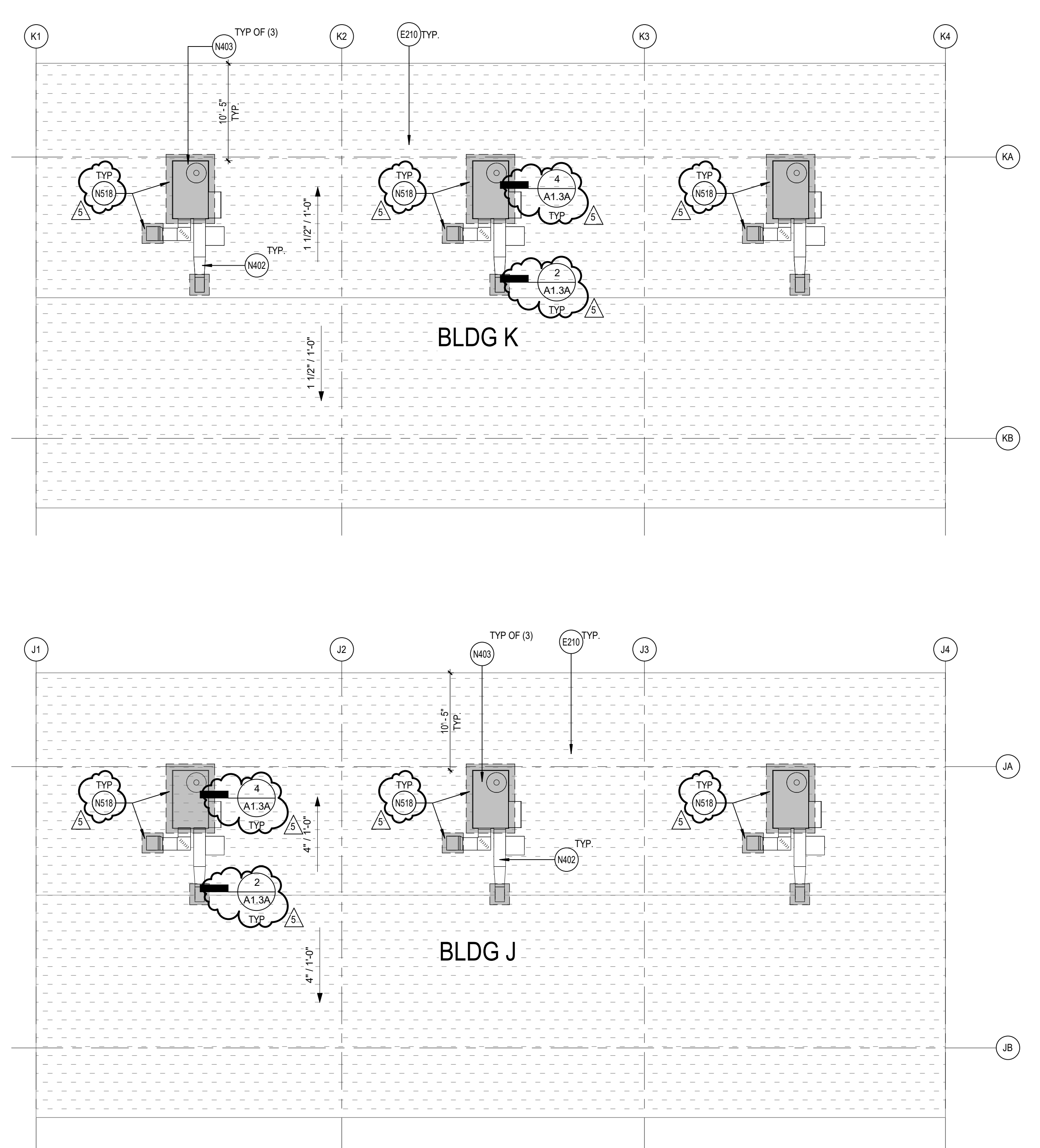
WORKMAN ELEMENTARY SCHOOL
 COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
 1941 E. WORKMAN AVE. WEST COVINA, CA 91791

100%
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 DOCUMENTS
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75-22605-00
 DSA A#03-122234
 DSA File #: 19-25
 AREA B - ROOF
 PLAN

A1.3B

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AREA F - ROOF PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

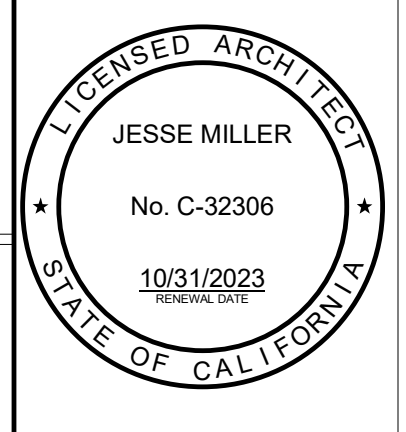
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- C. (E) DRAINS, CURBS, VENTS AND STACKS TO REMAINS.

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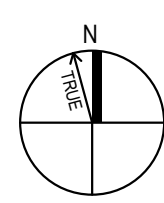
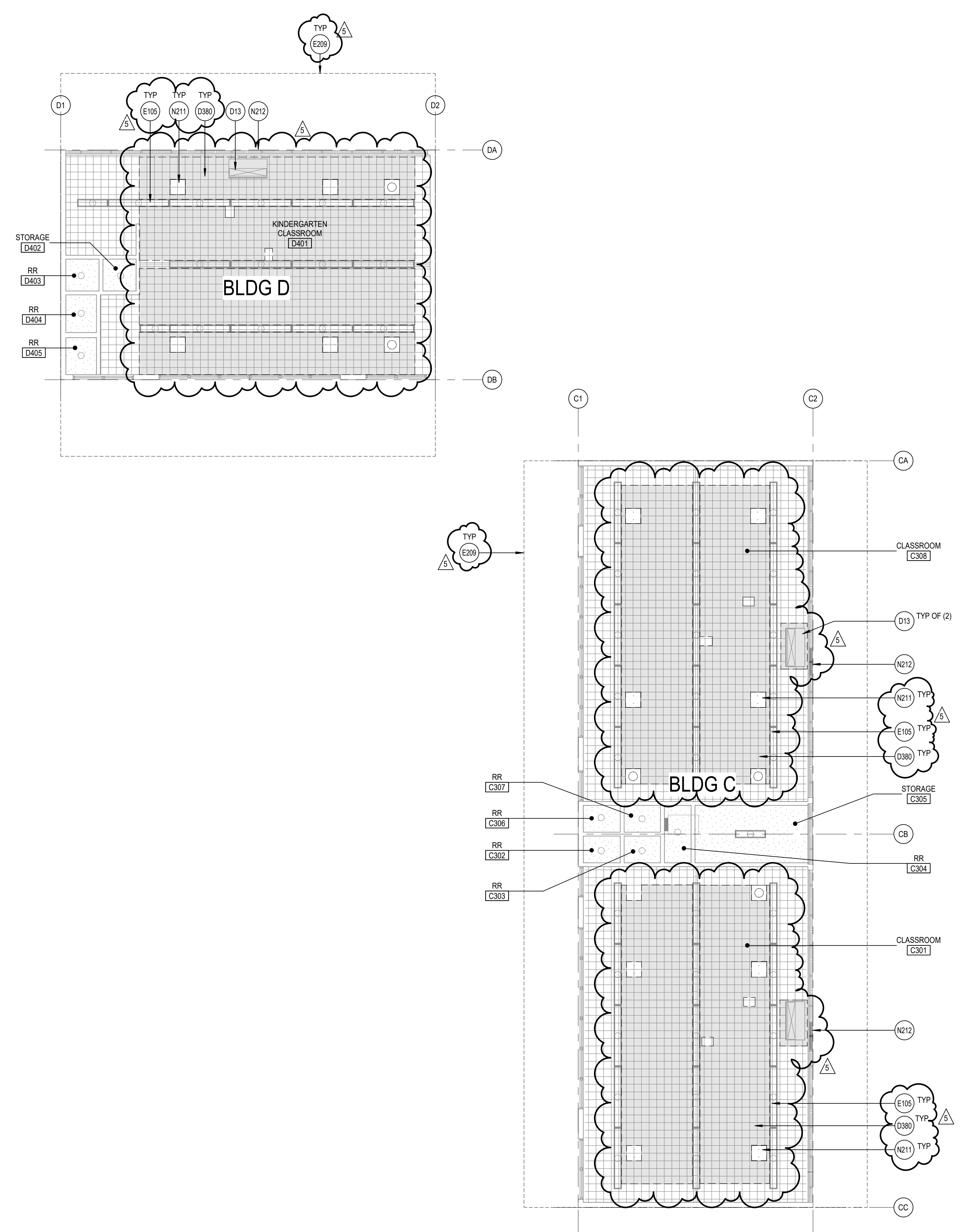


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DSA A#03-12234
DSA File #: 19-25
AREA F - ROOF
PLAN

A1.3F



AREA A - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
- D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
- E105 (E) LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
- N211 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS
- N212 REPLACE (E) WALL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT

REFLECTED CEILING PLAN
GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRID/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

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 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED
 - Q. WHERE PLASTER/STUB WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

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No. C-32306
10/31/2023
RENEWED
STATE OF CALIFORNIA

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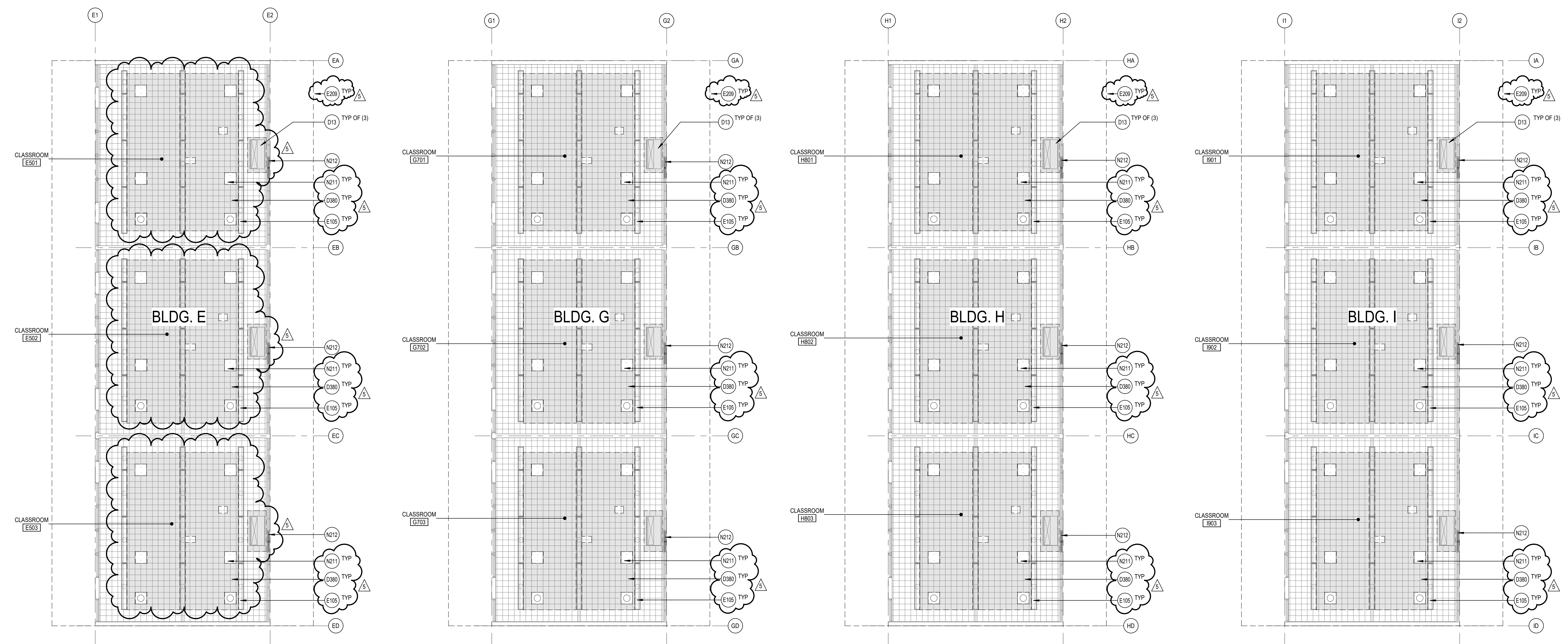
WORKMAN ELEMENTARY SCHOOL
COVID 19 - COVINA VALLEY USD DISTRICT WIDE HVAC REPLACEMENT
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100% CONSTRUCTION DOCUMENTS
05/05/2022
REVISIONS
5 1/13/2023

75-22605-00
DSA A#03-122234
DSA File #: 19-25
AREA A - REFLECTED CEILING PLAN
A3.1A

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AREA B - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



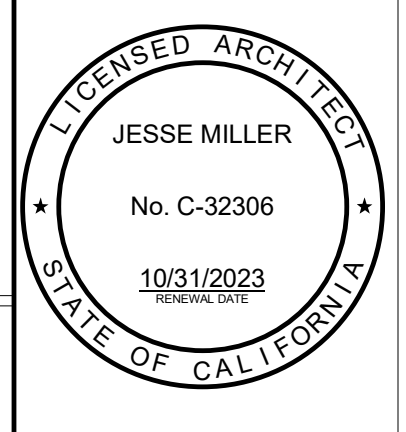
- REFERENCE KEYNOTES**
- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
 - D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
 - E105 (E) LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE LINE OF (E) ROOF ABOVE SHOWN DASHED
 - E209 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS
 - N211 REPLACE (E) WALL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT
 - N212

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRID/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS, ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
- a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED
 - Q. WHERE PLASTER/STUB WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



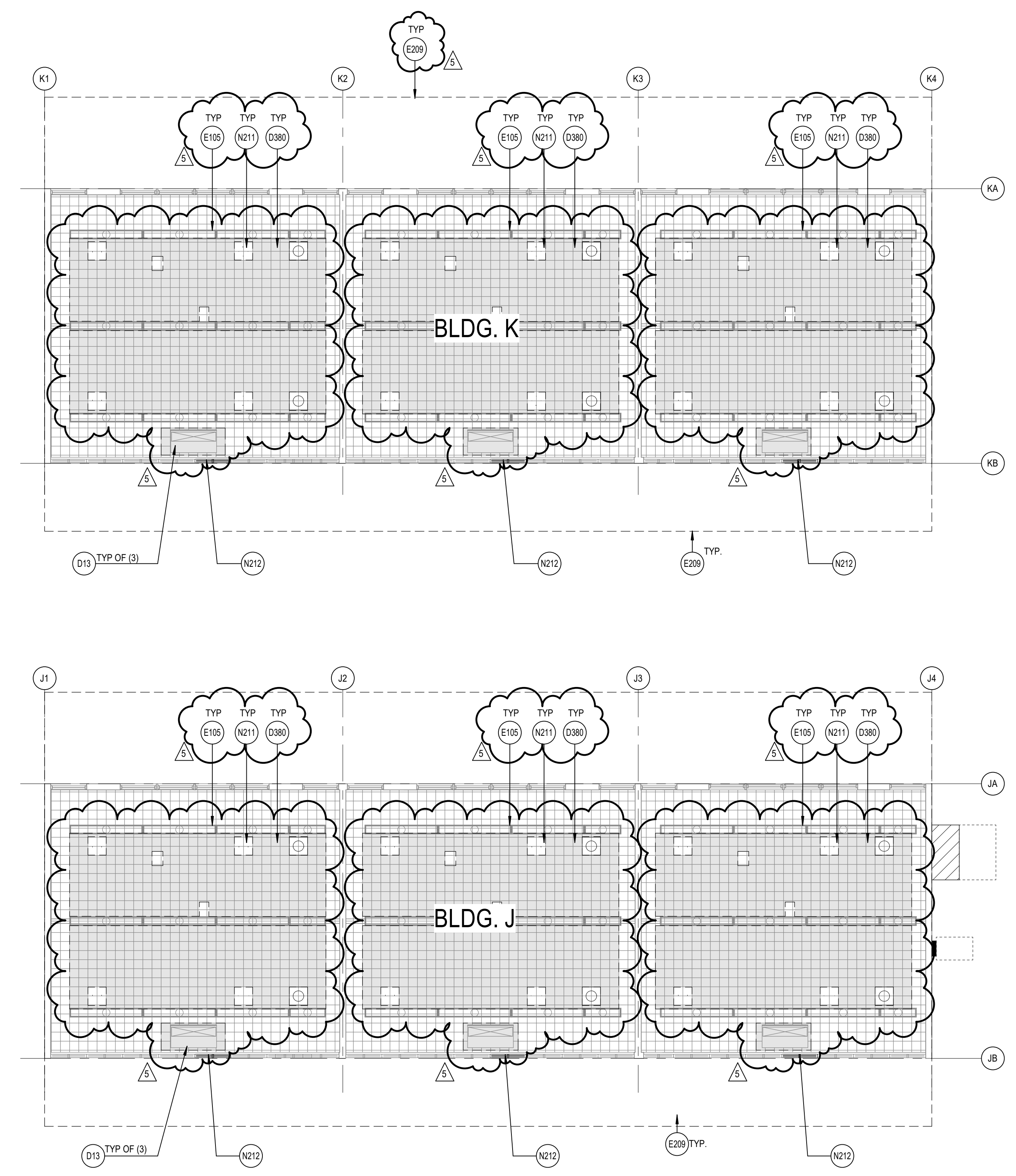
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75-22605-00
DSA A#03-12234
DSA File #: 19-25
AREA B - REFLECTED CEILING PLAN

A3.1B

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AREA F - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

- D13 REMOVE (E) CEILING MOUNTED FAN COIL UNIT INCLUDING ALL SUPPORTS, CONDUITS, CONDENSATE LINES, ETC. - SEE MECHANICAL DRAWINGS
- D380 DEMO (E) CEILING TILES TO ALLOW FOR MECHANICAL DUCT WORK INSTALLATION. REPLACE WITH (N) SIMILAR TO EXISTING
- E105 (E) LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE
- E209 LINE OF (E) ROOF ABOVE SHOWN DASHED
- N211 REPLACE (E) DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO MECHANICAL DRAWINGS
- N212 REPLACE (E) INFL. PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- C. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
- D. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
- E. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES AT ACOUSTICAL PANEL CEILINGS.
- F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - a. FACE OF FINISHED WALL
 - b. FACE OF FINISHED BULKHEADS
 - c. CENTERLINE OF COLUMNS
 - d. CENTERLINE OF TEES
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

DEMOLITION GENERAL NOTES

- DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.
- THE CONTRACTOR SHALL:
- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNERS OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
 - B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
 - C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
 - D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
 - E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILING, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
 - G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
 - H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
 - I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
 - J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
 - K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
 - L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
 - M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
 - N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SCHEDULING AND SCOPE OF WORK.
 - O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL INSPECTOR.
 - P. NOT USED.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.



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75-22605-00
DSA A#03-122234
DSA File #: 19-25
AREA F - REFLECTED CEILING PLAN

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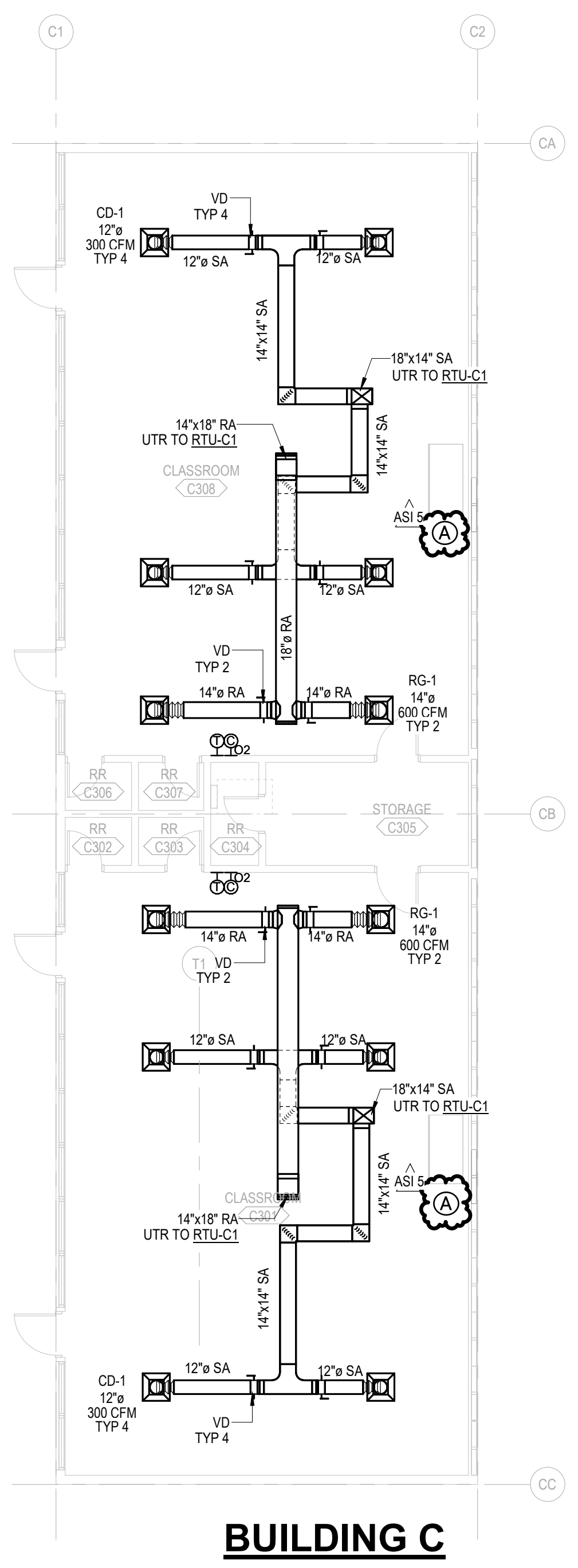
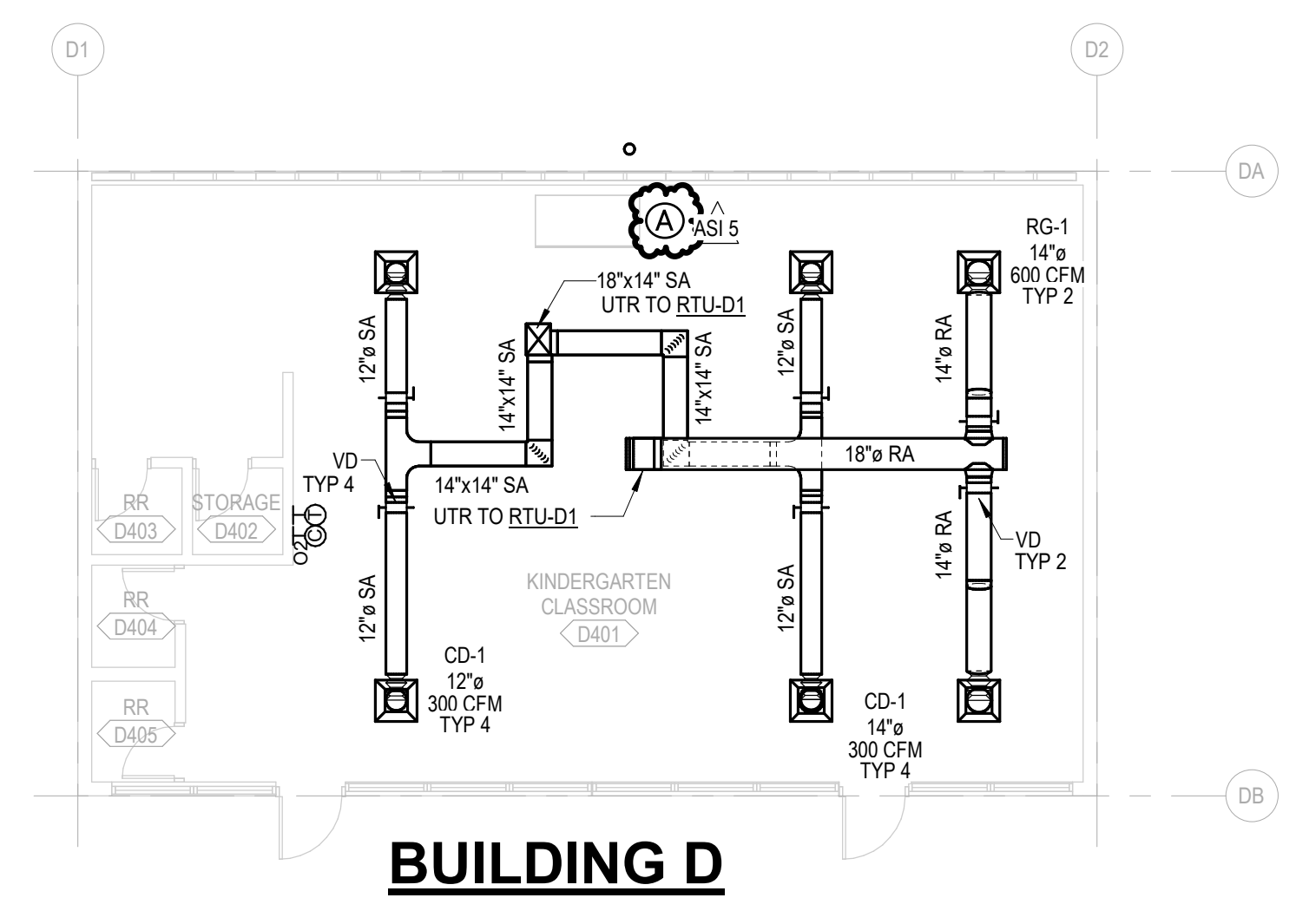
A B C D E F

DEMO NOTES

A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL. TYP.

GENERAL NOTES

1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



AREA A - MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



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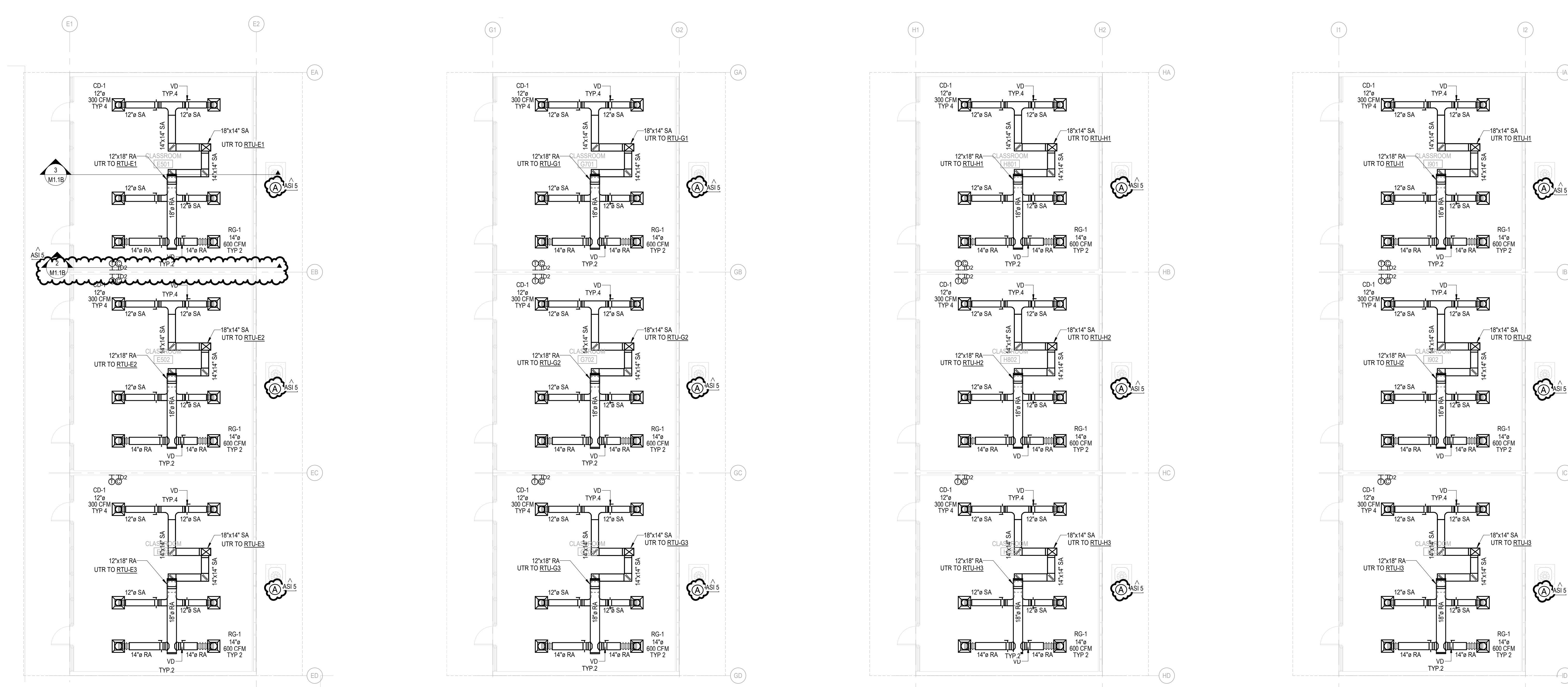
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AREA A - MECHANICAL FLOOR PLAN

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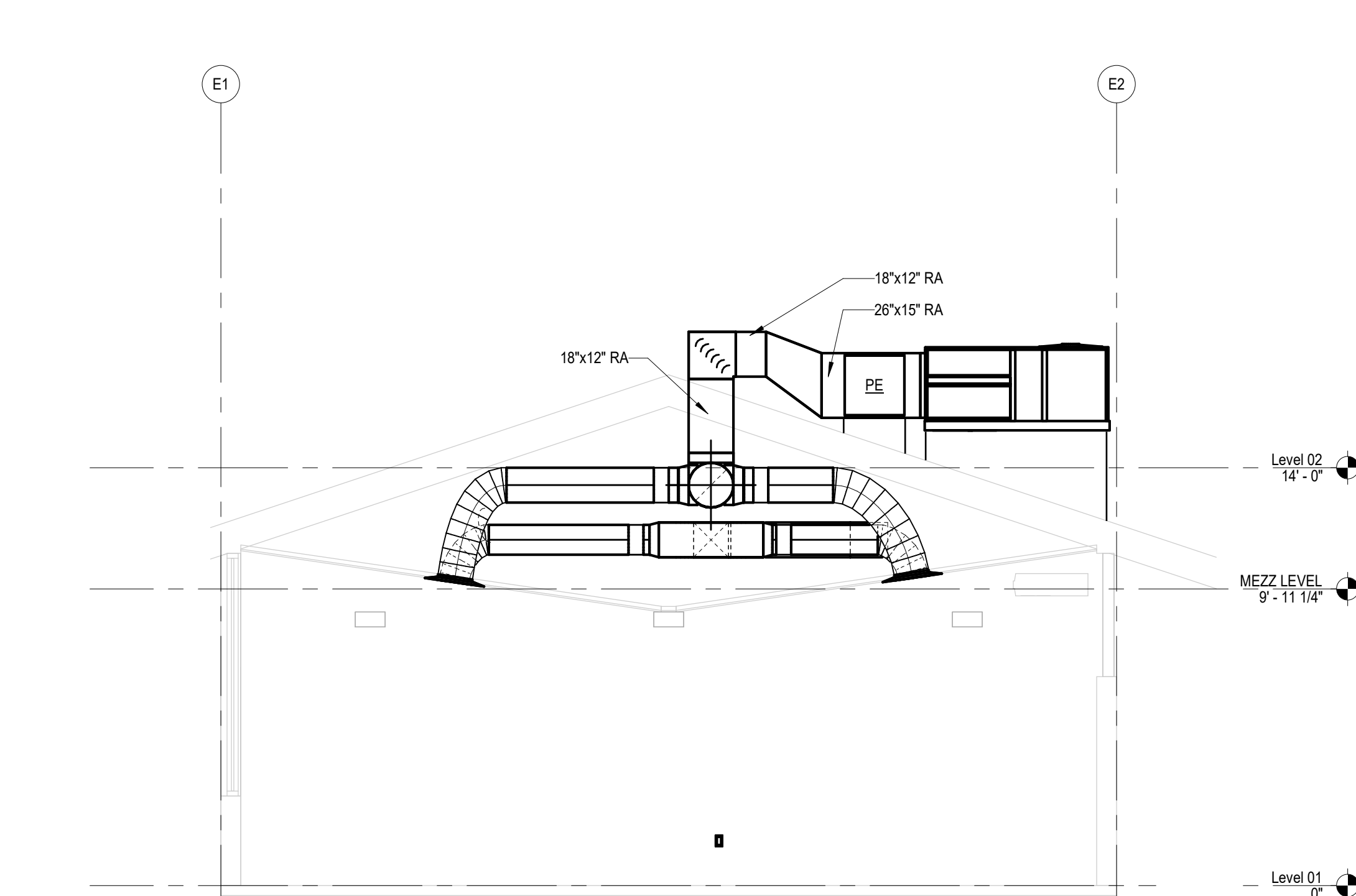
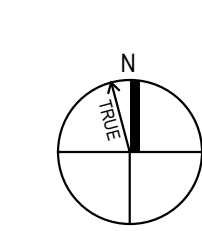
BUILDING E

BUILDING G

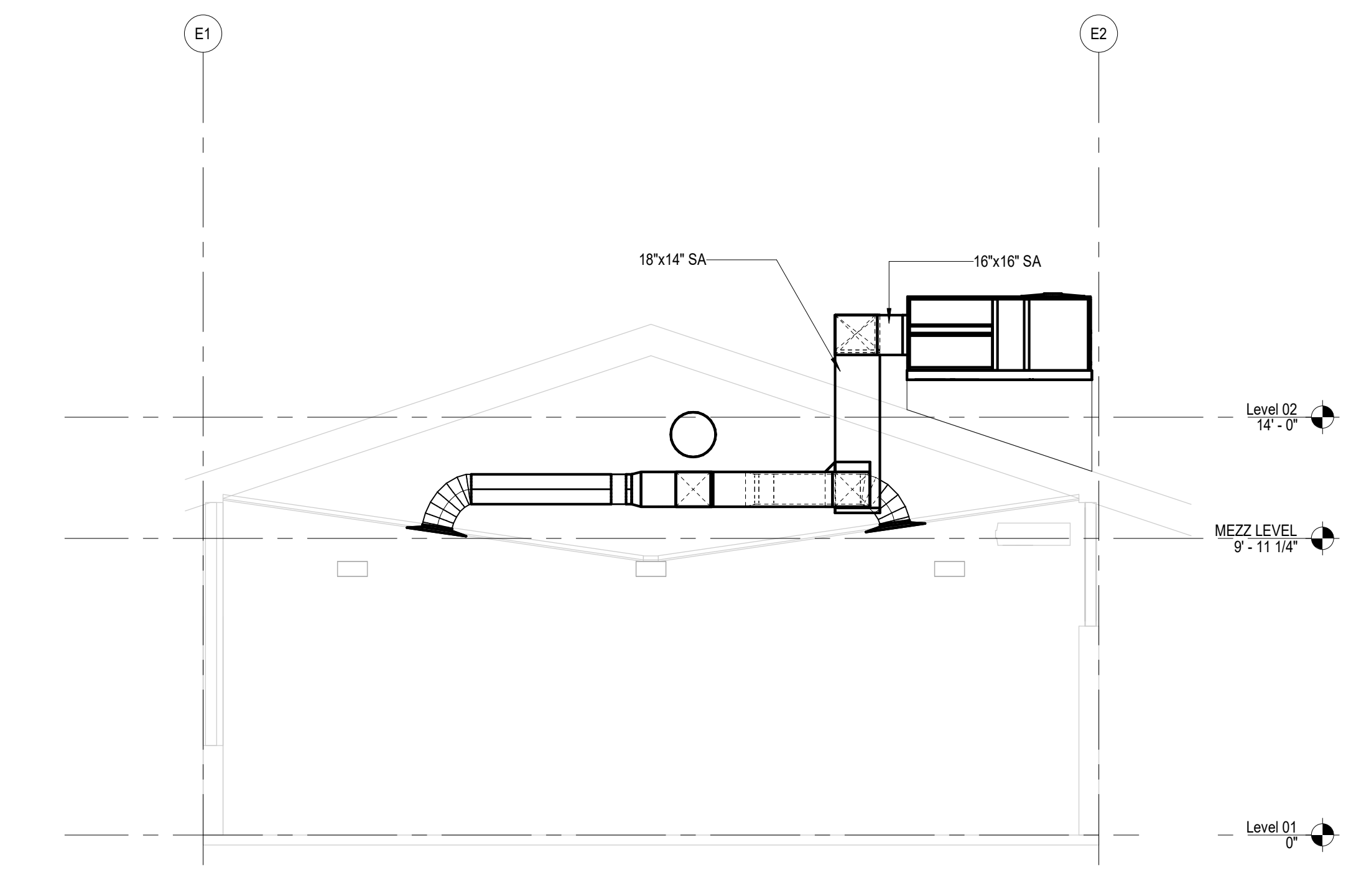
BUILDING H

BUILDING I

MECHANICAL FLOOR PLAN - BUILDINGS E, G, H, & I
 SCALE: 1/8" = 1'-0"



BUILDING E - SECTION 1
 SCALE: 1/4" = 1'-0"



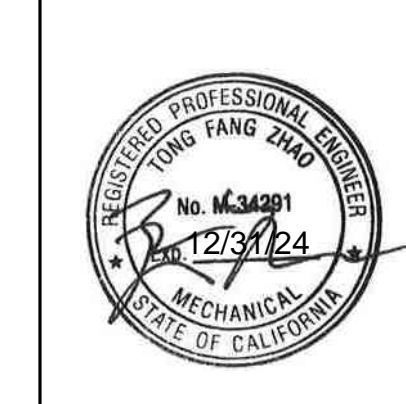
BUILDING E - SECTION 2
 SCALE: 1/4" = 1'-0"

DEMO NOTES

- A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.

GENERAL NOTES

- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. DIFFUSERS AND GRILLES TO MATCH (E) CEILING TILES. REFER TO RCP.



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AREA B - MECHANICAL FLOOR PLAN

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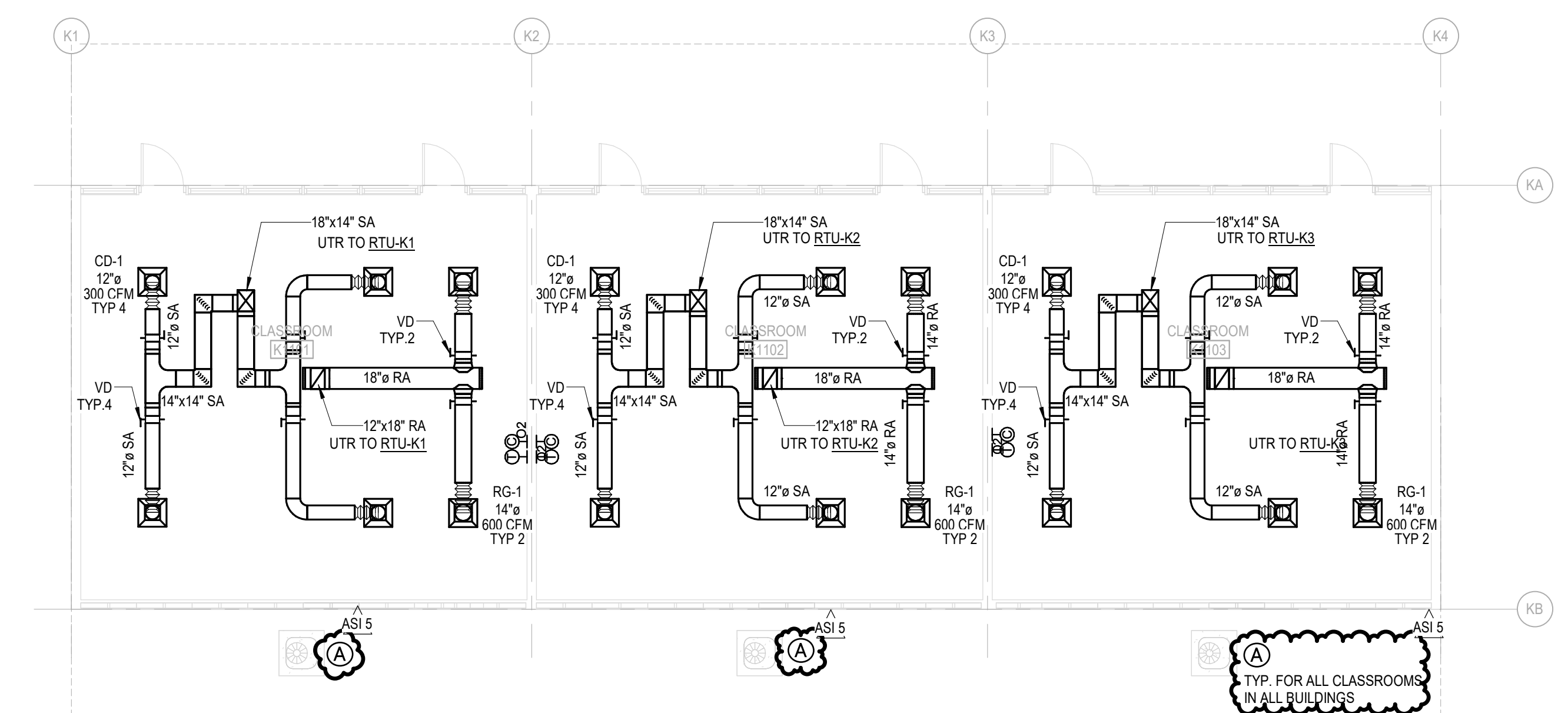
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GENERAL NOTES

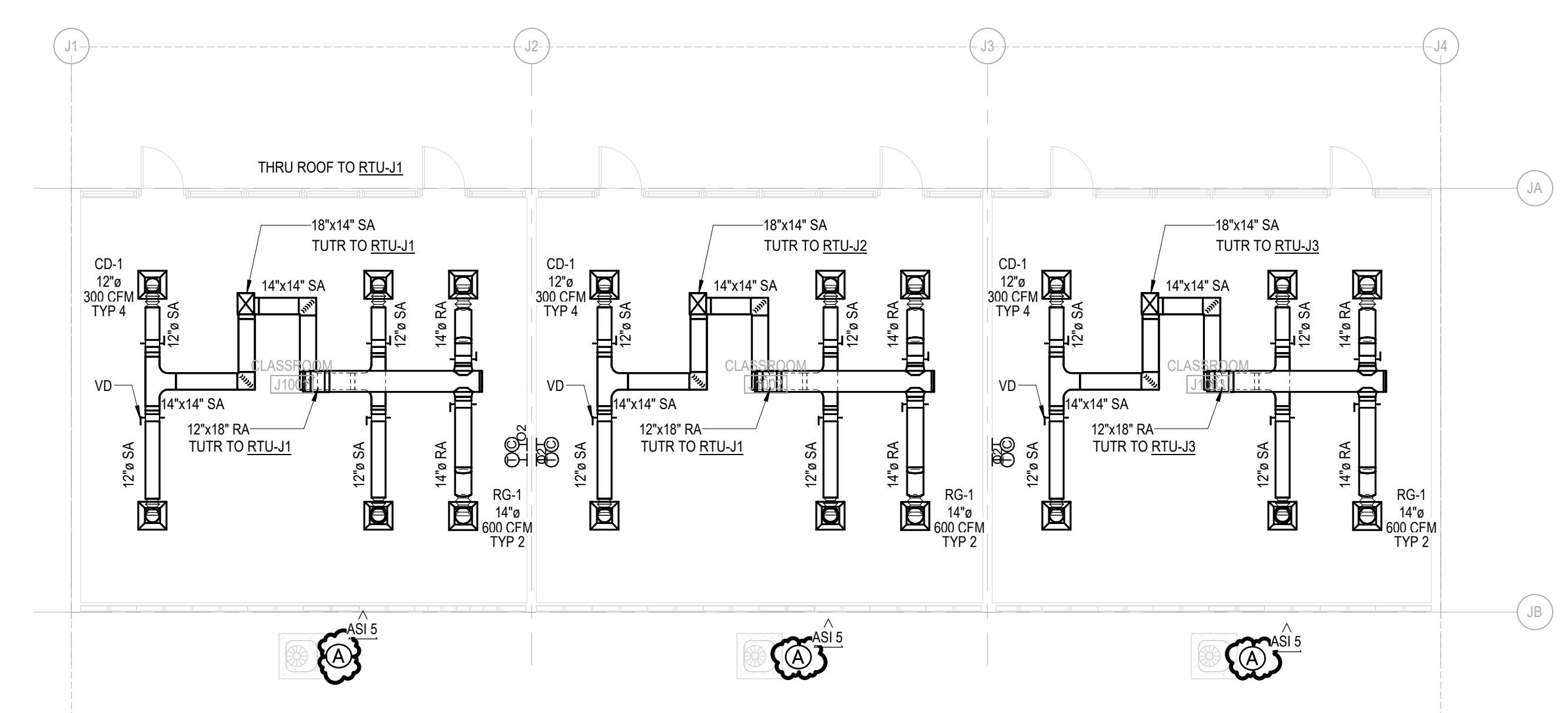
- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.

DEMO NOTES

- A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS, ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCES, SUPPORTS, AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.



BUILDING K



BUILDING J

MECHANICAL FLOOR PLAN - BUILDINGS K & J
 SCALE: 1/8" = 1'-0"



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AREA F - MECHANICAL FLOOR PLAN

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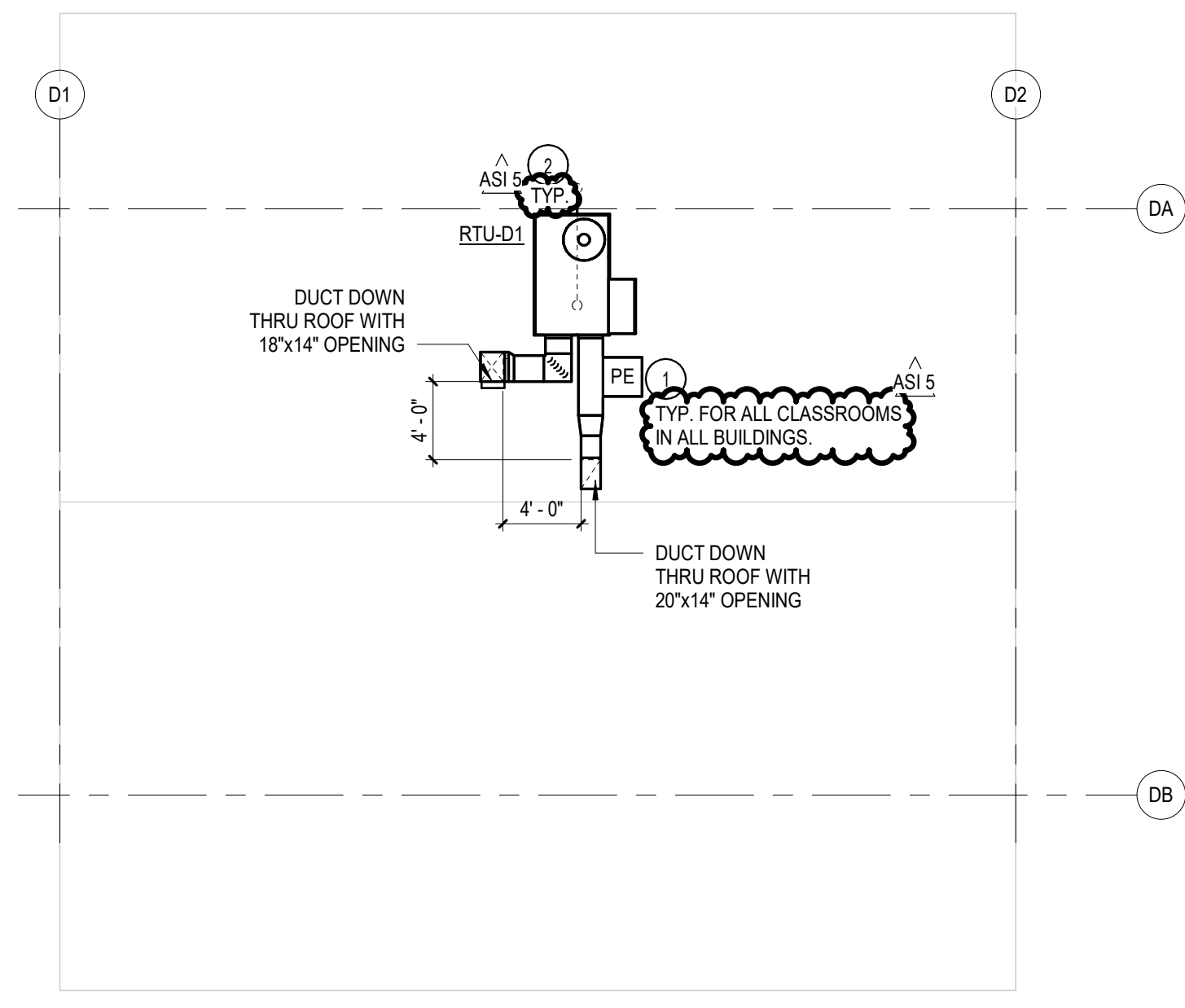
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GENERAL NOTES

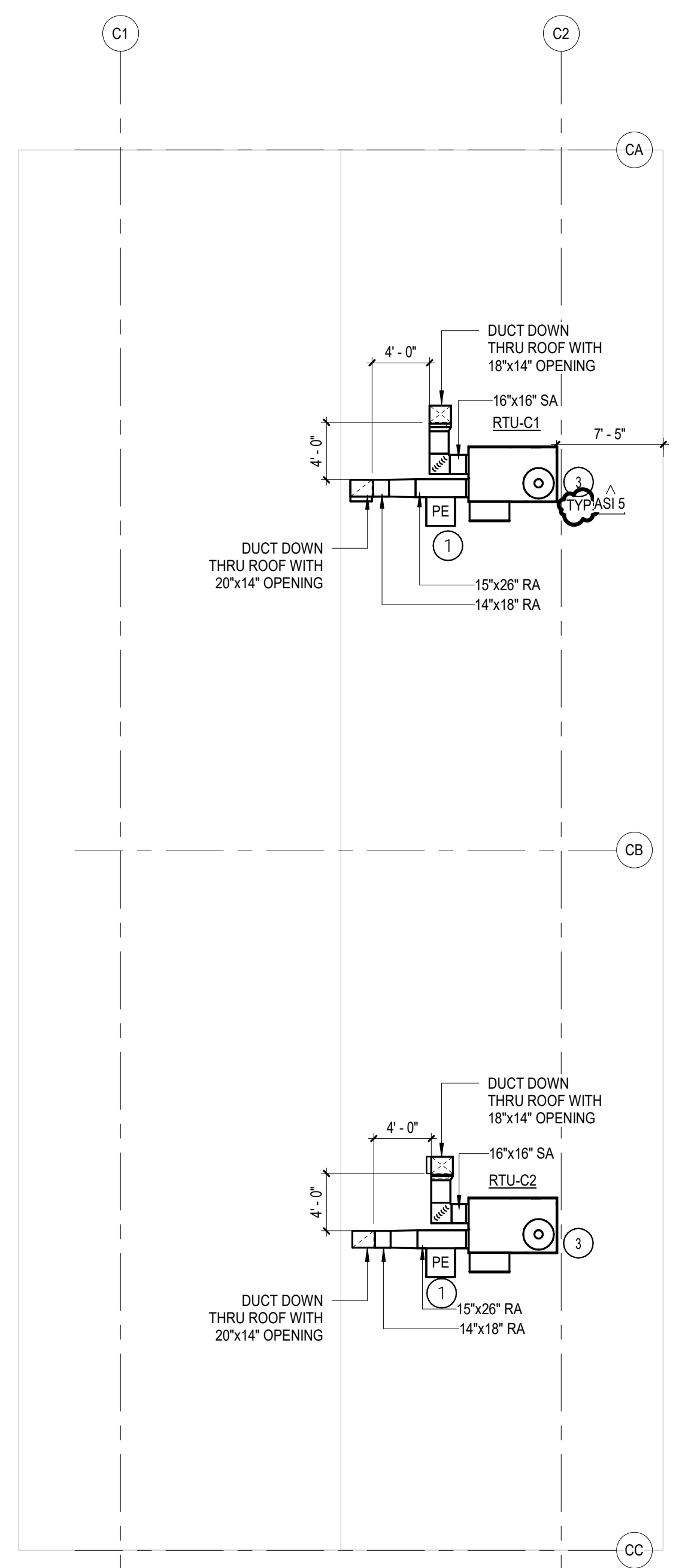
- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. PROVIDE PROTECTION GUARDS FOR ALL ROOF OPENINGS.
- 3. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE ASI JOIST.

KEY NOTES

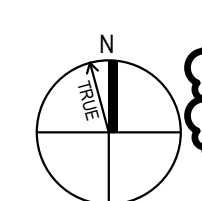
- 1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- 2. RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- 3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



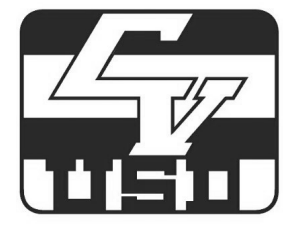
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BUILDING C



MECHANICAL ROOF PLAN - BUILDINGS C & D



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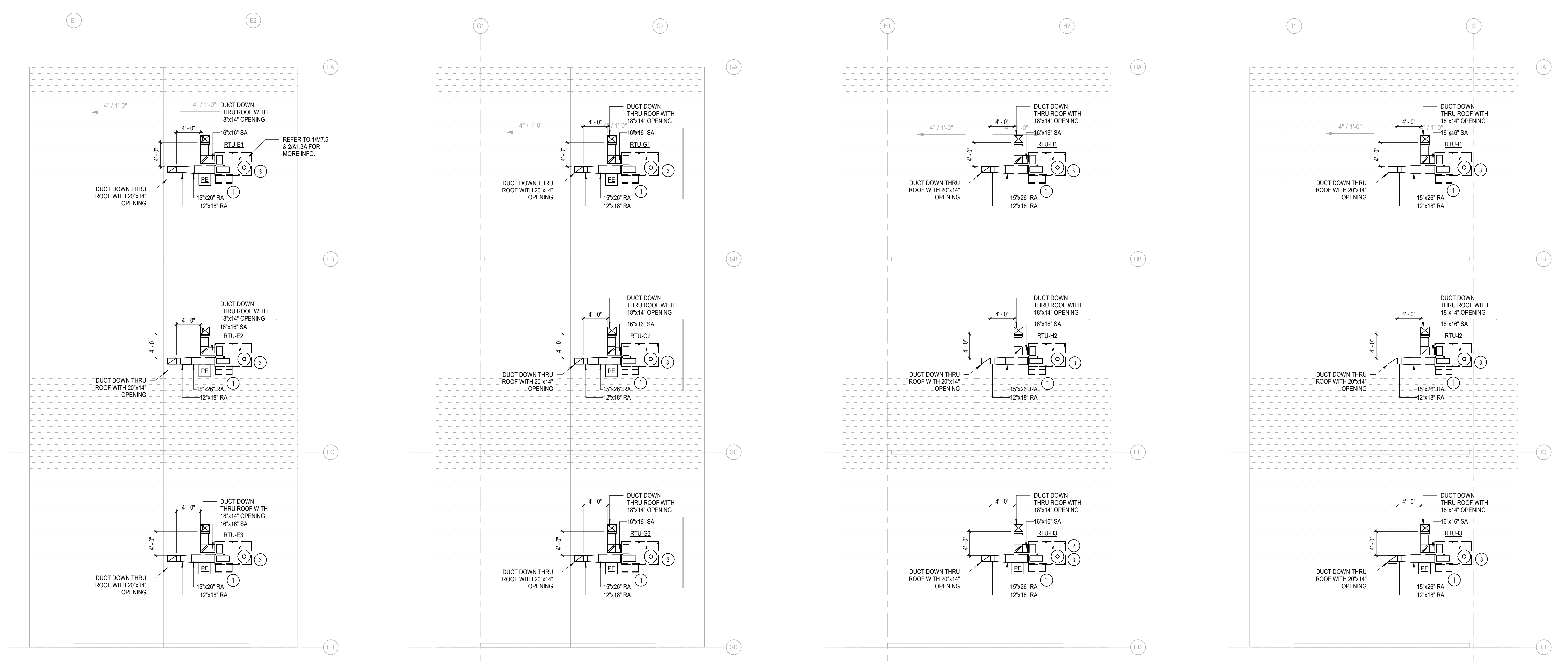
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AREA A - MECHANICAL ROOF PLAN

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BUILDING G

BUILDING H

BUILDING I

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MECHANICAL ROOF PLAN - BUILDINGS E, G, H, & I

GENERAL NOTES

- SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU ON SITE. TYP.
- PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.
- PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

- PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU TO BE 10'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.
- NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOIST.



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AREA B -
 MECHANICAL
 ROOF PLAN

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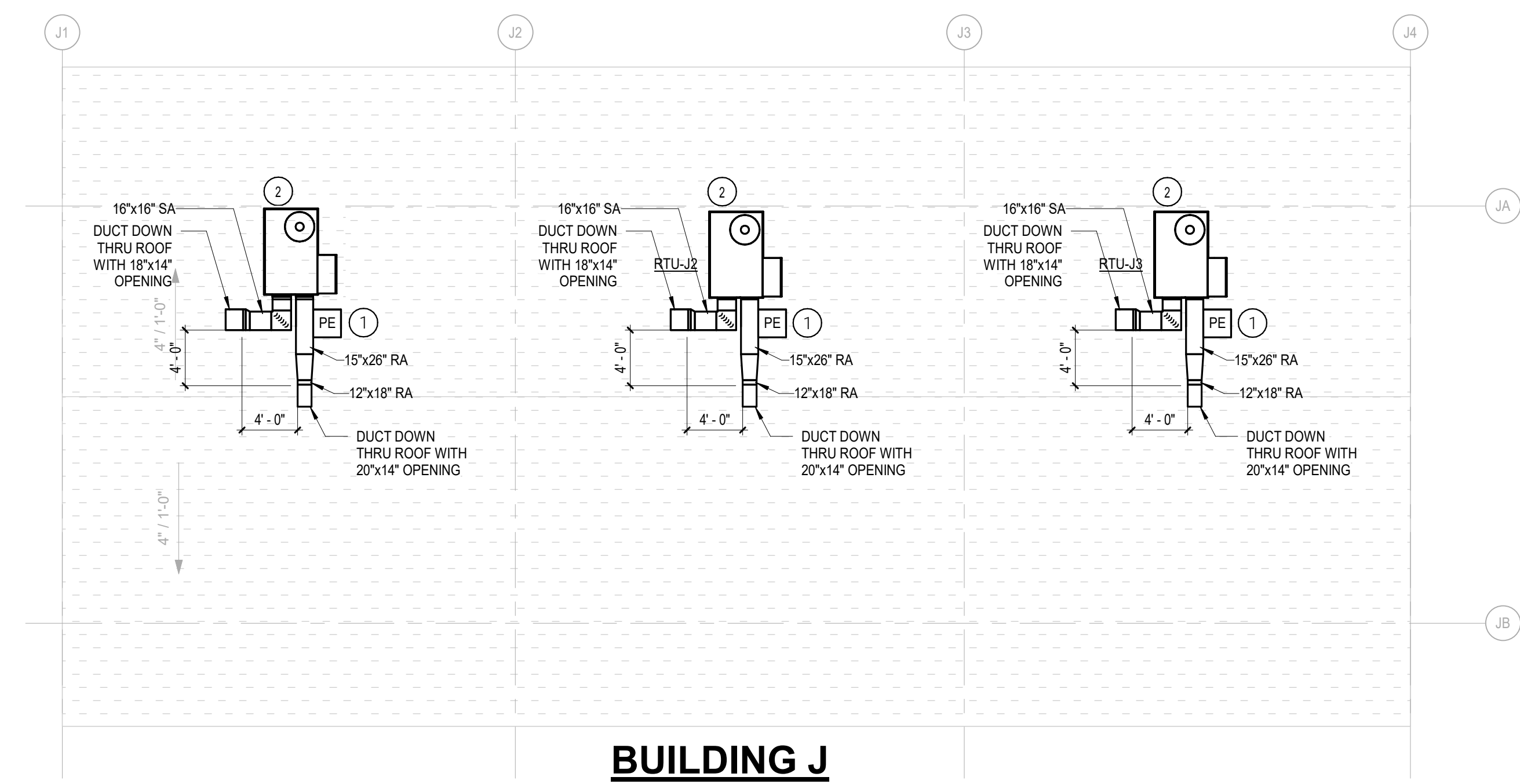
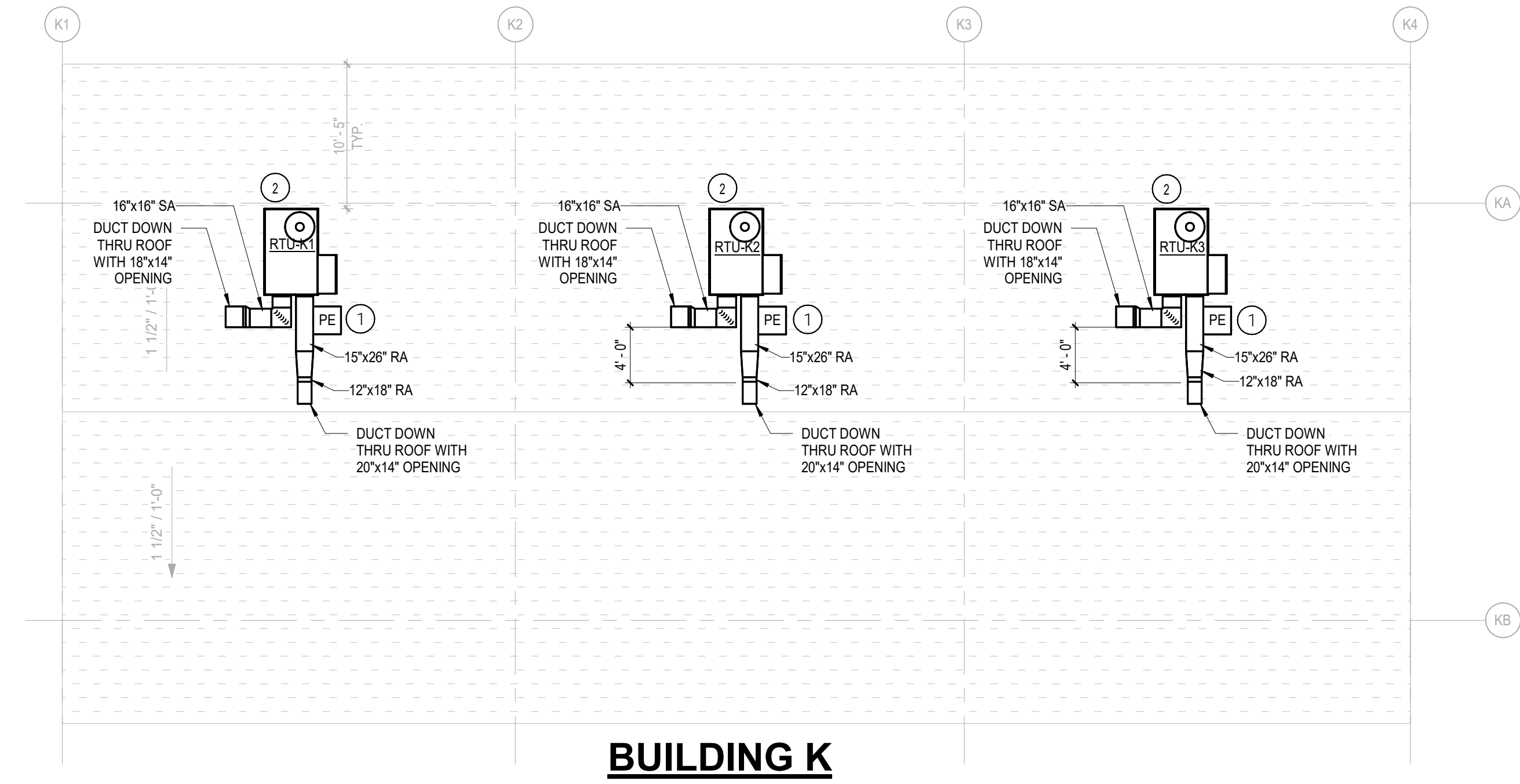
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GENERAL NOTES

- 1. SCOPE OF WORK IS CLASSROOMS & MPR ONLY.
- 2. PROVIDE LINER TO DUCTWORK FOR 10 FEET FROM RTU.
- 3. NEW OPENINGS FOR SUPPLY AND RETURN DUCTS SHOULD BE MADE BETWEEN THE ROOF JOISTS. DO NOT CUT THE JOIST.
- 4. PROVIDE FLEXIBLE DUCT AT UNIT CONNECTION FOR SA & RA DUCT.

KEY NOTES

- 1. PROVIDE POWER EXHAUST ON RETURN DUCT WITH LEG LENGTH TO FIT THE ROOF SLOPE. CONTRACTOR TO VERIFY ON SITE. TYP.
- 2. RTU TO BE 18'-0" MIN. FROM ROOF EDGE. CONTRACTOR TO VERIFY ON SITE. TYP.
- 3. RTU IS LESS THAN 10'-0" FROM ROOF EDGE. ARCH TO PROVIDE PROTECTION GUARDS. TYP.



AS1.5

MECHANICAL ROOF PLAN - BUILDINGS J & K



Workman Elementary School
 COVINA VALLEY USD
 1841 E. WORKMAN AVE. WEST COVINA, CA 91791

DSA Submitted Set
 1/13/2023
 REVISIONS
 AS1.5 01/13/2023

75-22605-00

AREA F - MECHANICAL ROOF PLAN

M1.3F

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5

MARK FCU-B1	MAKE CARRIER	MODEL 140RUQAQ-16	STEEL FRAME ASTM A36, L 3 X 3 X 1/4	DETAIL-1	DETAIL-3	MTG 1-6	SPRING OD 2"	DEFL. 1"
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DETAIL-1

UNIT OUTLINE

ASTM A36, L 3 X 3 X 1/4

BACK GOUGE

3/16 TYP

1/2 X 1/4 X 3/4 L 180° RUSK

1/2 X 1/4 X 3/4 L 180° RUSK

1/2 X 1/4 X 3/4 L 180° RUSK

1/2 X 1/4 X 3/4 L 180° RUSK

ASTM A36, L 3 X 3 X 1/4

ASTM A36, L 3 X 3 X 1/4

ASTM A36, L 3 X 3 X 1/4

ASTM A36, L 3 X 3 X 1/4

LEVELLING BOLT 3/8 DIA. & ATTACHMENT OF STEEL BASE TO SPRING ISOLATOR

TI-E-DOWN STRAPS AS SHOWN

DETAIL-3

ATTACHMENT OF SPRING ISOLATORS TO CONCRETE PAD ON GRADE

9/16" DIA. HOLE (2) PLACES

USE 1/2" DIA. HILTI KB T22 ANCHORS IN 3000 PSI HR CONCRETE, MIN 3" NORMAL EMBEDMENT, MIN 6" CONCRETE THICKNESS & MIN 6" EDGE DISTANCE. INSTALL ANCHORS WITH SPECIAL INSPECTION PER ICC ESR-4266.

7 GA. PLATE

3/8" DIA. TAP

NEOPRENE GROMMET

1/4" THICK NEOPRENE

1/2 X 1" FLAT BAR (WELDED)

SIDE PLATE 7 GA. PLATE

LEVELLING BOLT 3/8 DIA.

STABILIZER BOLT 1/2" DIA.

10 GA. PLATE

1/4" THICK NEOPRENE

MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.

RMU-RQ-SH-1

DETAIL-2

VIEW A-A

VIEW B-B

ASTM A36, L 3 X 3 X 1/4

7/16" DIA. HOLE

APPROX OPER. HT. 3-3/4

1-1/2

ASTM A36, L 3 X 3 X 1/4

NOTCH @ EA. ISOLATOR LOCATION

TIE DOWN STRAP DETAIL

CONNECTION DETAIL

ATTACHMENT OF UNIT TO STEEL BASE

3 #12 TEK SCREWS TO UNIT BASE RAIL

3/16" DIA. PILOT HOLE FOR #12 TEK SCREWS

18 GA. GALV. SHEET METAL

(6) #12 TEK SCREWS TO STEEL SUPPORT FRAME

STRAP

M. W. SAUSSE & CO., INC. 28744 Whitherspoon Pkwy. Valencia, CA 91355 Phone: (661) 257-3311 Fax: (661) 257-7673 	JOB NAME: COVNA USD -- WORKMAN ES CUST. P.O.: MECH. ENGR.: DLRG MARK: FCU-B1 (HORIZONTAL)	REVISIONS: A: CALL OUT ALL ATTACHMENTS (9-2-22) B: SPECS ANGLE (9-20-22) C: D:	DRN: IDT DATE: 8-5-22 DRAWING NO.: <div style="border: 1px solid black; padding: 2px; text-align: center;">-2B</div>
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1 FCU-B1
M7.3 / NO SCALE

DETAIL-1

DETAIL-2

DETAIL-3

A	B	C	D	E	F	G	H	J	L	M		
36-15/16	67-1/8	40-7/16	70-5/8	20-1/4	13-11/16	13-7/8	15-3/16	32-1/16	42-15/16	73-1/8	71-1/8	40-15/16

NOTES:

- FOR ANCHOR REQUIREMENTS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
- ROOF SLOPE TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION & ROOF CURB HEIGHT ARE APPROXIMATE.
- NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

2. SUBMITTED ROOF CURBS ARE PITCHED TO MATCH ROOF SLOPE.

NOTES:

- L & M DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.
- FOR ANCHORAGE, USE 3/8\"/>

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Vibrex SRC

JOB NAME: COVINA USD - WORKMAN ES

DESIGN: 12/22

CUST. P.O.: DLR

MECH. ENGR.: DLR

MARK: RTU-C1,C2,C3,D1,RE1,E2,E3,G1,G2,G3,H1,H2,H3,I1,I2,I3,J1,J2,J3,K1,K2,K3

REVISIONS:

A: SPECIFIC TAGGING (12-18-22)

B:

C:

DRN: TDT

DATE: 8-5-22

DRAWING NO.:

-3A

1 RTU CURB
M7.5 NO SCALE



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COVINA VALLEY USD
1941 E WORKMAN AVE, WEST COVINA, CA 91791

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MECHANICAL
DETAILS

M7.5

1

WORKMAN AVE. AC UNIT REPLACEMENT																																														
WORKMAN AVE. E.S. EXISTING UNIT															NEW UNIT																															
TAGS	MAKE	MODEL	CAPACITY (TONS)	GAS INPUT/OUTPUT (BTU/HR)	ELECTRICAL (SINGLE CIRCUIT)			WEIGHT (LBS)	ECONOMIZER		POWER EXHAUST		OPERATING WEIGHT (LBS)	DIRECT REPLACE MENT? Y/N	CARRIER MODEL #	NET COOLING CAPACITY			AIRFLOW (CFM)		ESP (IN WG)	SEER	EER	HEATING CAPACITY (MBH)	NEW MERV RATING	FILTER QUANTITY & SIZE (W" X H" X D")	ELECTRICAL			WEIGHT (LBS)	OUTSIDE AIR HOOD WEIGHT (LBS)	ECONOMIZER			POWER EXHAUST			ROOF CURB WEIGHT (LBS)	TOTAL WEIGHT (LBS)	UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE					
					VPH	MCA	FLA		EXISTING	WEIGHT	EXISTING	WEIGHT				NOMINAL TON	TOTAL (BTUH)	SENSIBLE (BTUH)	SUPPLY	MIN OSA							V-PH	MCA	MOCOP			REQUIRED?	WEIGHT	REQUIRED?	MODEL #	MCA	MOCOP					WEIGHT				
RTU-C1 & RTU-C2 (BDLG. C)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-D1 (BDLG. D)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-J1 THRU RTU-J3 (BDLG. J)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-K1 THRU RTU-K3 (BDLG. K)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-E1 THRU RTU-E3 (BDLG. E)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-G1 THRU RTU-G3 (BDLG. G)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-H1 THRU RTU-H3 (BDLG. H)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
RTU-I1 THRU RTU-I3 (BDLG. I)	SANYO	CH3622 (36THS22)	3.0	36000	240/1	50	18.3	218	-	-	NO	-	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1	14.3	11.32	34.1	13	2 (16X25X2)	240/1	26	30	469	12	NO	NA	YES	PCD-SRT12CA	7.1	12.8	152	275	756	75 X 47 X 34	1/M7.5				
CU-B1 (BLDG. B)	N/A														MMY-AP24058HT6P-JUL	20																							1368		104x31x73	1/M7.4				
FCU-B1 (BLDG. B)	N/A														40RUGA25T3A6-0A0A0		234500	166000	7440	2000	1.2			234.5	13	4 (16X20X2)...	460/3	19	30	720		NO	NA	NO	NA	NA	NA	NA					720		89 X 29 X 57	1/M7.3

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- NOTES:
- PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE
 - ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET.
 - ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION, UNO. FIELD VERIFY PRIOR TO ORDERING.
 - PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
 - FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT AND OUTSIDE AIR HOOD, AS APPLICABLE.
 - SCCR RATING OF RTUs SHALL BE MINIMUM OF 10KA FOR CLASSROOM RTUs AND MPR FCU-B1, AND 25 KA FOR MPR CU-B1.

3

DIFFUSER AND GRILLE SCHEDULE								
MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES
CD-1	TITUS PAS	CEILING SUPPLY	24"x24"	6"Ø	0 - 110	25	0.1	1.2,3
				8"Ø	111 - 190	25	0.1	
				10"Ø	191 - 280	25	0.1	
				12"Ø	281 - 350	25	0.1	
				14"Ø	351 - 450	25	0.1	
				16"Ø	451 - 550	25	0.1	
RG-1	TITUS PAR	CEILING RETURN	24"x24"	6"Ø	0 - 100	20	0.1	1.2,3
				8"Ø	101 - 175	20	0.1	
				10"Ø	176 - 275	20	0.1	
				12"Ø	276 - 380	20	0.1	
				14"Ø	381 - 500	20	0.1	
				16"Ø	501 - 570	20	0.1	

- NOTES:
- OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.

DUCT SIZING SCHEDULE *** FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST			
CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	26" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

VERIFY ALL DIMENSIONS AT THE SITE, MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

DUCT SIZING *** MEDIUM PRESSURE DUCTWORK						
CFM	ROUND DUCT (IN)	RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)				
		WX4	WX6	WX8	WX10	WX12
UP TO 150	6	8	6	X	X	X
151-280	8	10	10	8	X	X
281-500	10	X	16	12	10	X
501-800	12	X	X	16	12	X
801-1200	14	X	X	22	16	14

REMARKS:

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES.

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4

EXHAUST FAN SCHEDULE																						
ID	DESCRIPTION	LOCATION		TYPE	DESCRIPTION	FAN DATA					ELECTRICAL DATA					WEIGHT (LBS)	BASIS OF DESIGN		NOTES			
		NAME	MEZZANINE			AIR FLOW (CFM) DESIGN	ESP (IN WG)	RPM	DRIVE TYPE	MOTOR QTY	HP	RPM	ECM	FLA (A)	MCA (A)		MOCOP (A)	VOLT (V)		PH	MANUFACTURER	MODEL
EF-B1	EXHAUST FAN	BUILDING B	MEZZANINE	CENTRIFUGAL INLINE	CENTRIFUGAL	2,500	0.5	526	BELT	1	0.5	1725	No	9.8	12.3	15	115	1	428	LOREN COOK	270SQNH-P	

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MECHANICAL SCHEDULES

M8.1

A

B

C

D

E

F

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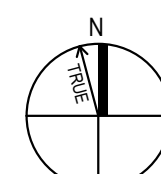
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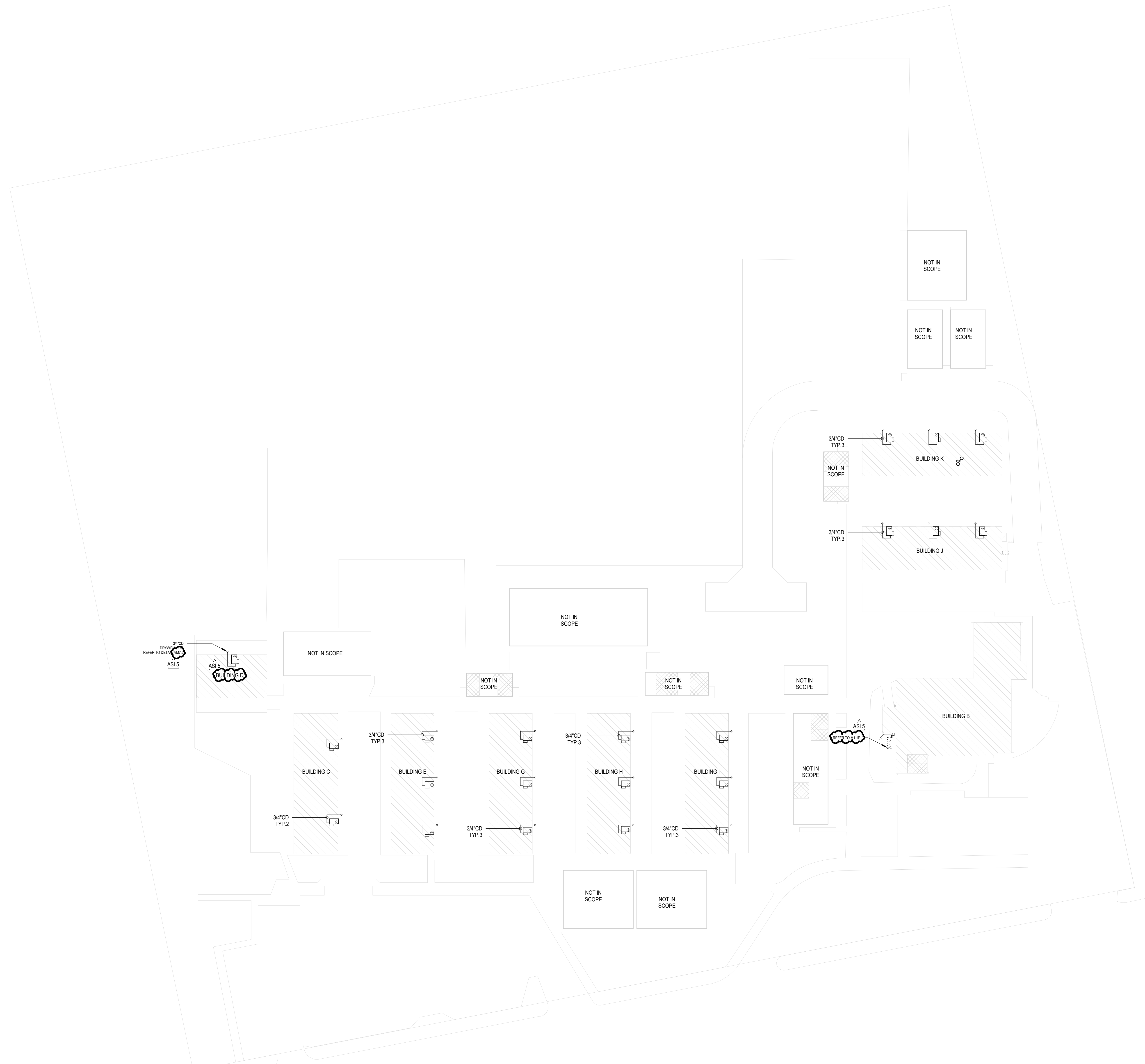
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MECHANICAL PLUMBING SITE PLAN

SCALE: 1" = 30'-0"



SITE LEGEND

- EXISTING BUILDING NOT IN SCOPE
- EXISTING BUILDING - SCOPE OF WORK UNDER THIS DSA APPLICATION
- (E) RESTROOMS - NOT IN SCOPE



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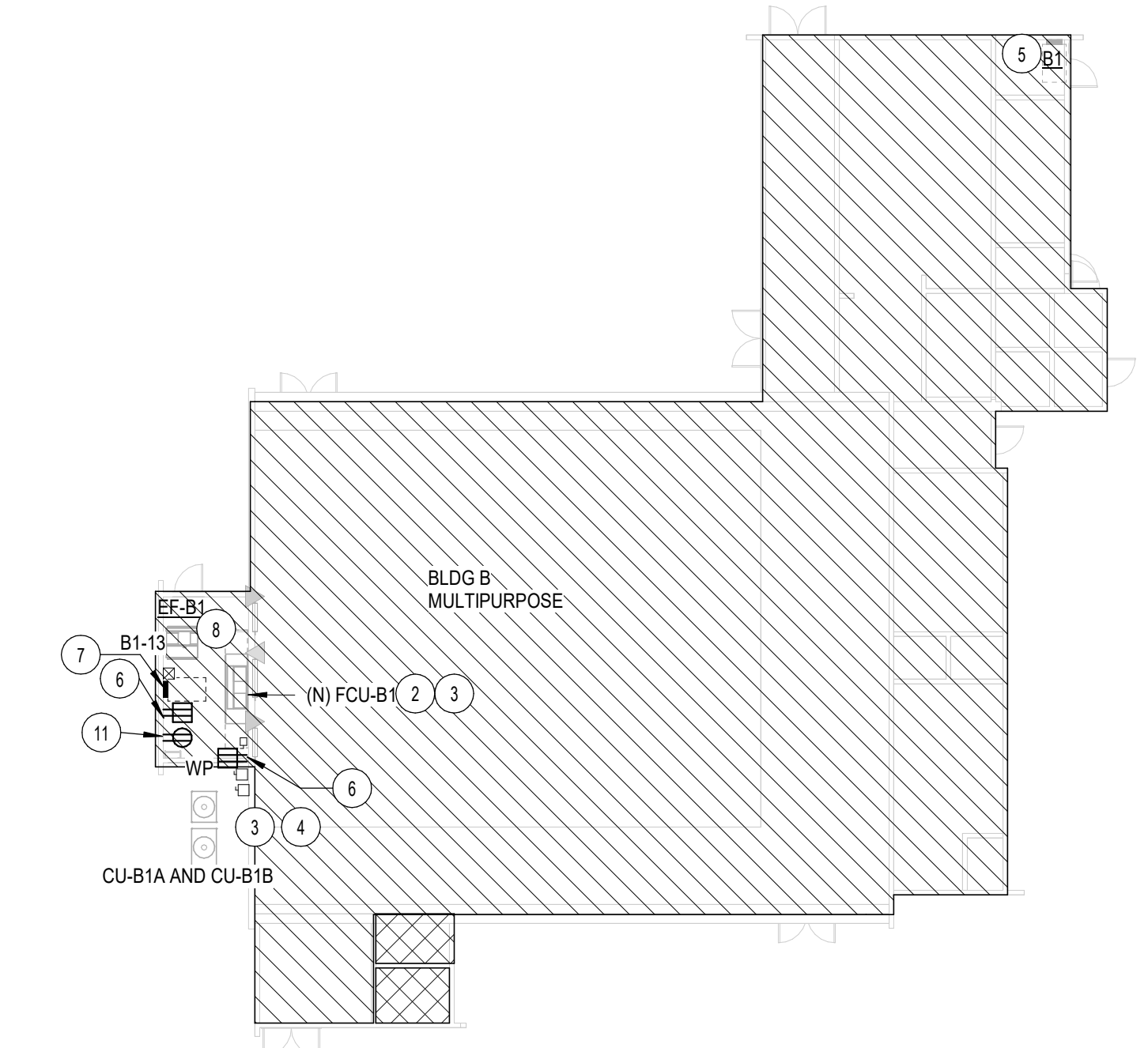
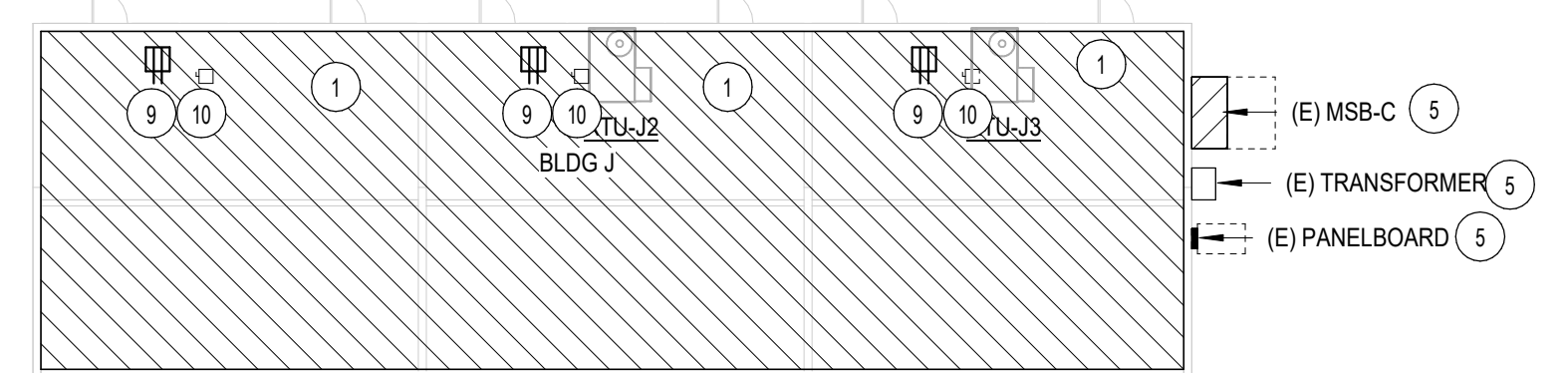
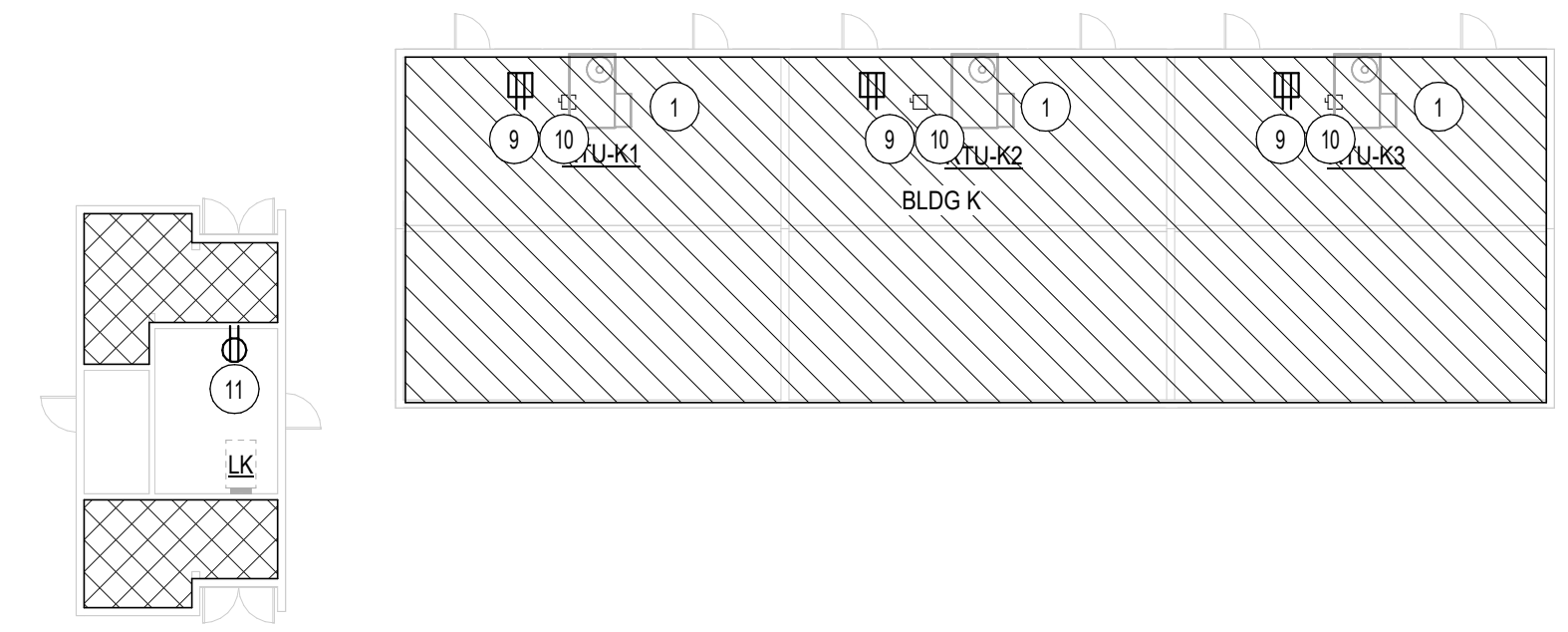
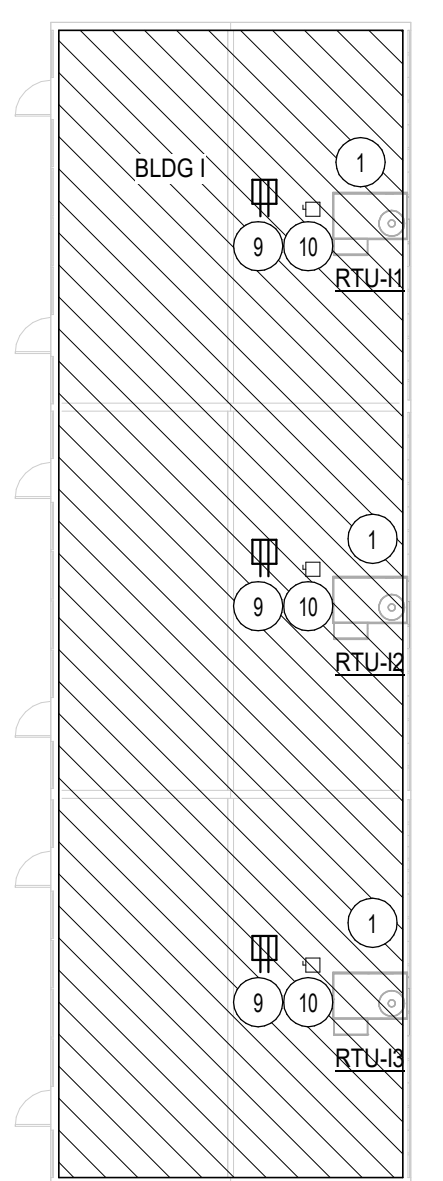
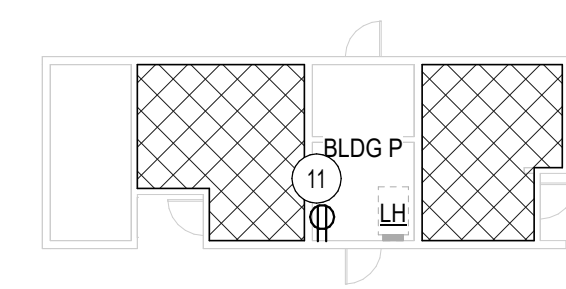
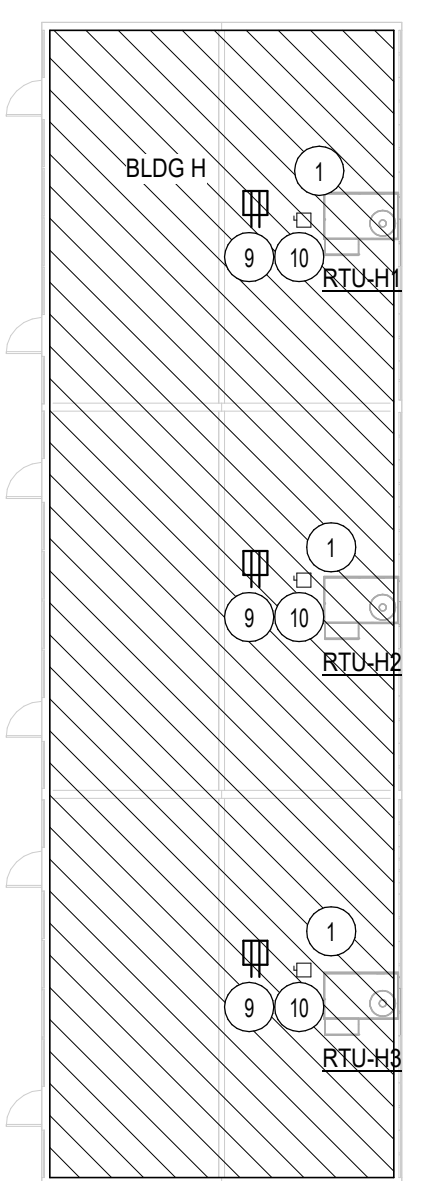
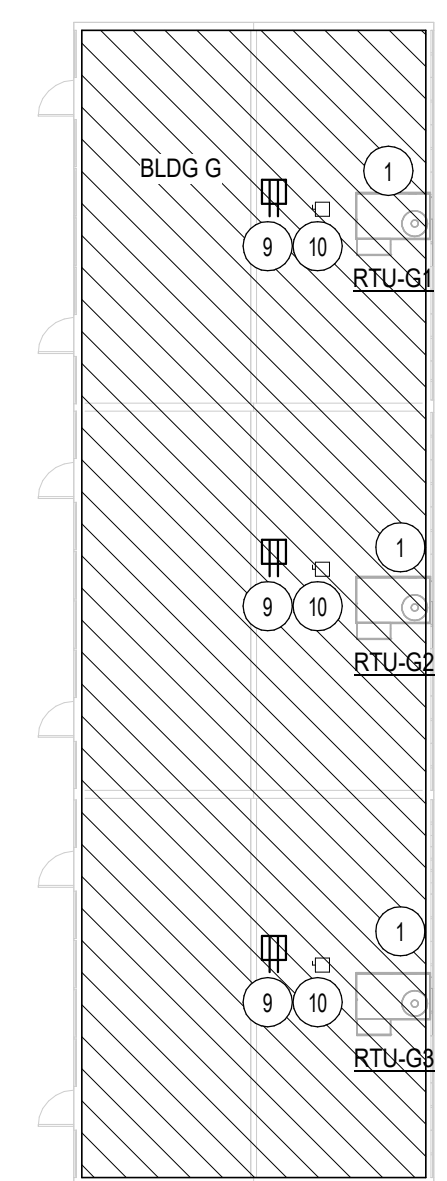
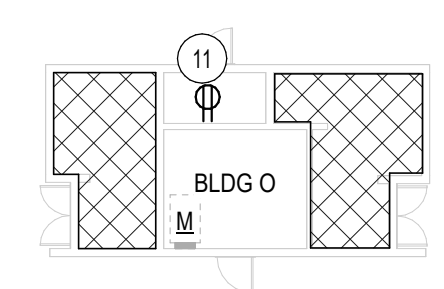
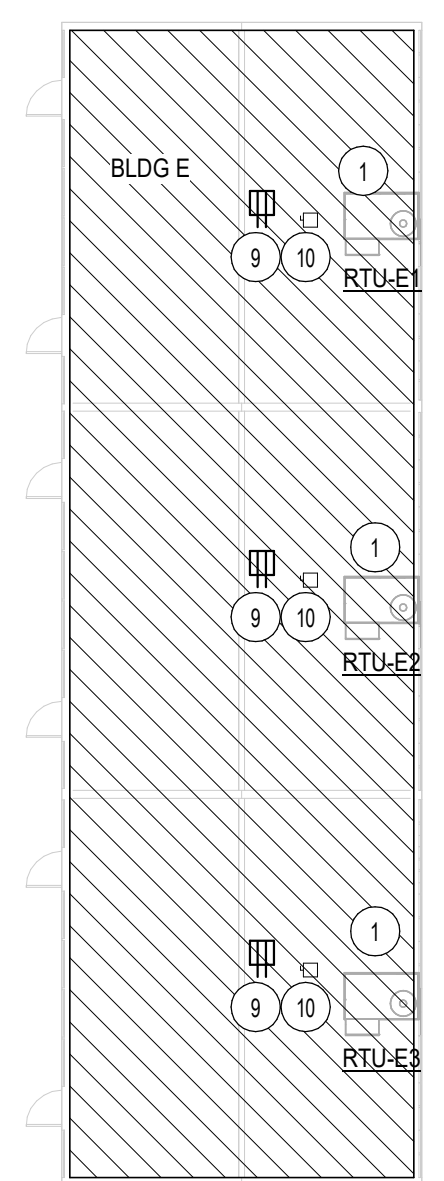
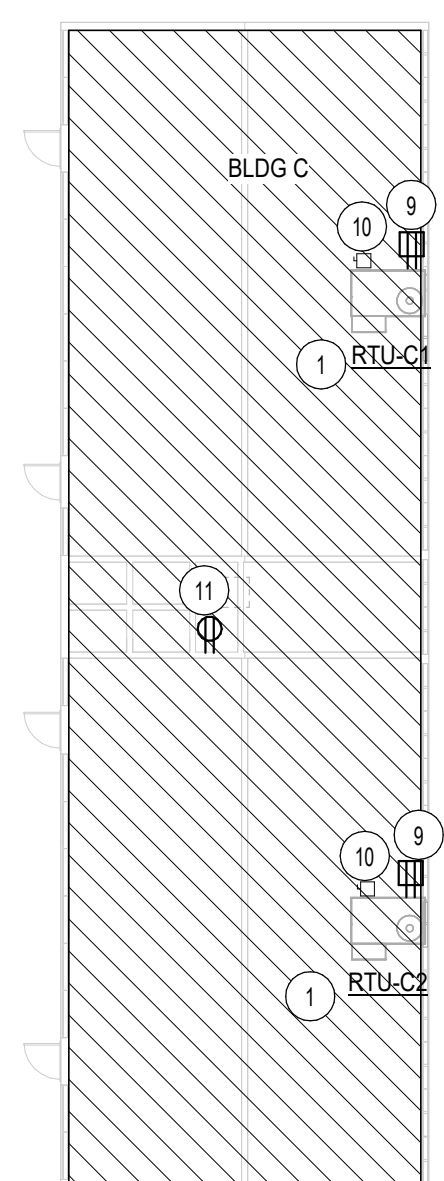
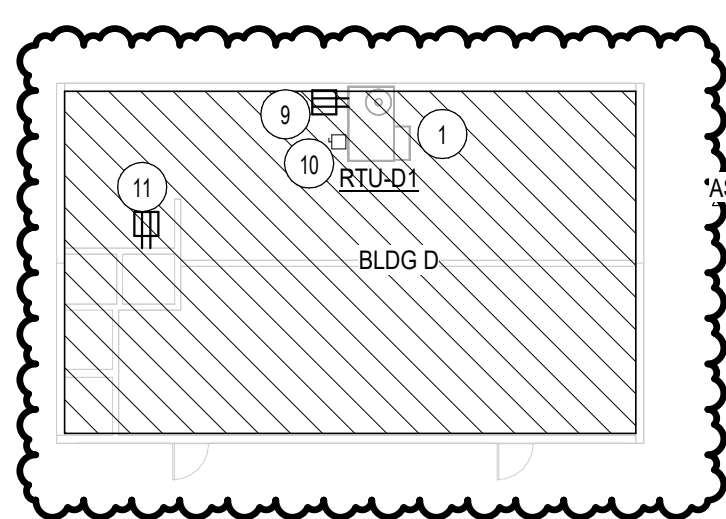
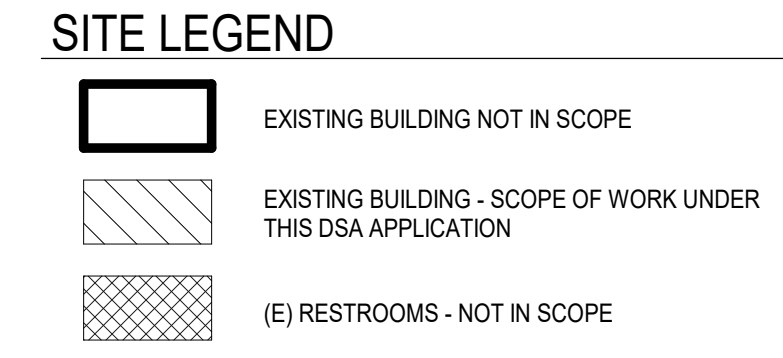
MECHANICAL PLUMBING SITE PLAN

MP1.1

GENERAL NOTES

- A WORK TO INCLUDE REMOVAL OF EXISTING FEEDER TO EXISTING HVAC EQUIPMENT THAT ARE TO BE REMOVED AND REPLACED. FEEDER TO EXISTING INDOOR FAN COIL UNIT TO BE REMOVED IN ITS ENTIRETY.
- B DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED AND INSTALLED BY DIVISION 26.
- C CARBON MONOXIDE DETECTION SYSTEM NOT REQUIRED. ELECTRIC HEATING IS BEING PROVIDED.
- D SEE SCHEDULE ON SHEET ES.1 FOR ADDITIONAL INFORMATION.
- E FUSES SHALL BE PROVIDED PER EQUIPMENT NAMEPLATE RATING.
- F ELECTRICAL PANELS LOCATED AT GRADE LEVEL DIRECTLY BELOW WHERE SHOWN.
- G ENERGY MANAGEMENT SYSTEM (EMS) / BUILDING AUTOMATION SYSTEM (BAS) IS A DELEGATED DESIGN SCOPE BY CONTRACTOR. CONTRACTOR TO FIELD COORDINATE WITH SCHOOL DISTRICT FOR LOCATIONS OF EMS ROUTER AND EMS PANEL AS WELL AS CONDUIT ROUTING.
- H CARBON MONOXIDE DETECTION SYSTEM WILL NOT BE PROVIDED AT THIS TIME UNDER CEBC 503.15.1:
EXCEPTION 2: THE GROUP BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.
EXISTING HVAC UNITS ARE BEING REPLACED IN KIND THROUGHOUT.
- J CONTRACTOR TO PROVIDE CONNECTION FROM LOAD SIDE OF HVAC EQUIPMENT DISCONNECT SWITCH TO FEED POWER EXHAUST DISCONNECT SWITCH. PROVIDE SAME SIZE FEEDER. PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.

KEYNOTES	
No.	DESCRIPTION
1	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK WITH ROOF TOP EQUIPMENT. EXTEND EXISTING FEEDER AS REQUIRED. SEE TABLE ON SHEET ES.1 FOR OTHER INFORMATION. PROVIDE ALL REQUIRED CONNECTIONS.
2	EXISTING HVAC EQUIPMENT AT GRADE TO BE DISCONNECTED AND REPLACED AS PART OF THIS SCOPE OF WORK. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTIONS.
3	NEW HVAC EQUIPMENT AT GRADE. PROVIDE NEW FEEDER PER TABLE ON SHEET ES.1. PROVIDE ALL REQUIRED CONNECTIONS.
4	DUCT SMOKE DETECTOR FOR COMPLIANCE TO CALIFORNIA MECHANICAL CODE SECTION 608 IS NOT REQUIRED PER CODE EXCEPTION NO.2. ROOM HAVE DIRECT EXIT TO EXTERIOR AND TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
5	EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND TO BE PROTECTED IN PLACE.
6	PROVIDE 120 VOLT CIRCUIT FROM NEAREST PANEL. PROVIDE TANDDEM BREAKER IF REQUIRED. FIELD COORDINATE.
8	SIZE 1 MOTOR STARTER FOR EXHAUST FAN. PROVIDE ALL REQUIRED CONNECTIONS.
9	GFCI TYPE RECEPTACLE PROVIDED BY HVAC EQUIPMENT MANUFACTURER. FOR CIRCUITING, SEE TABLE PROVIDED ON SHEET ES.1. GENERAL NOTE NO.2. PROVIDE WEATHERPROOF COVER.
11	PROVIDE 120V CIRCUIT TO EMS ROUTER AND EMS PANEL. FIELD VERIFY EXACT LOCATION OF EMS ROUTER AND EMS PANEL.



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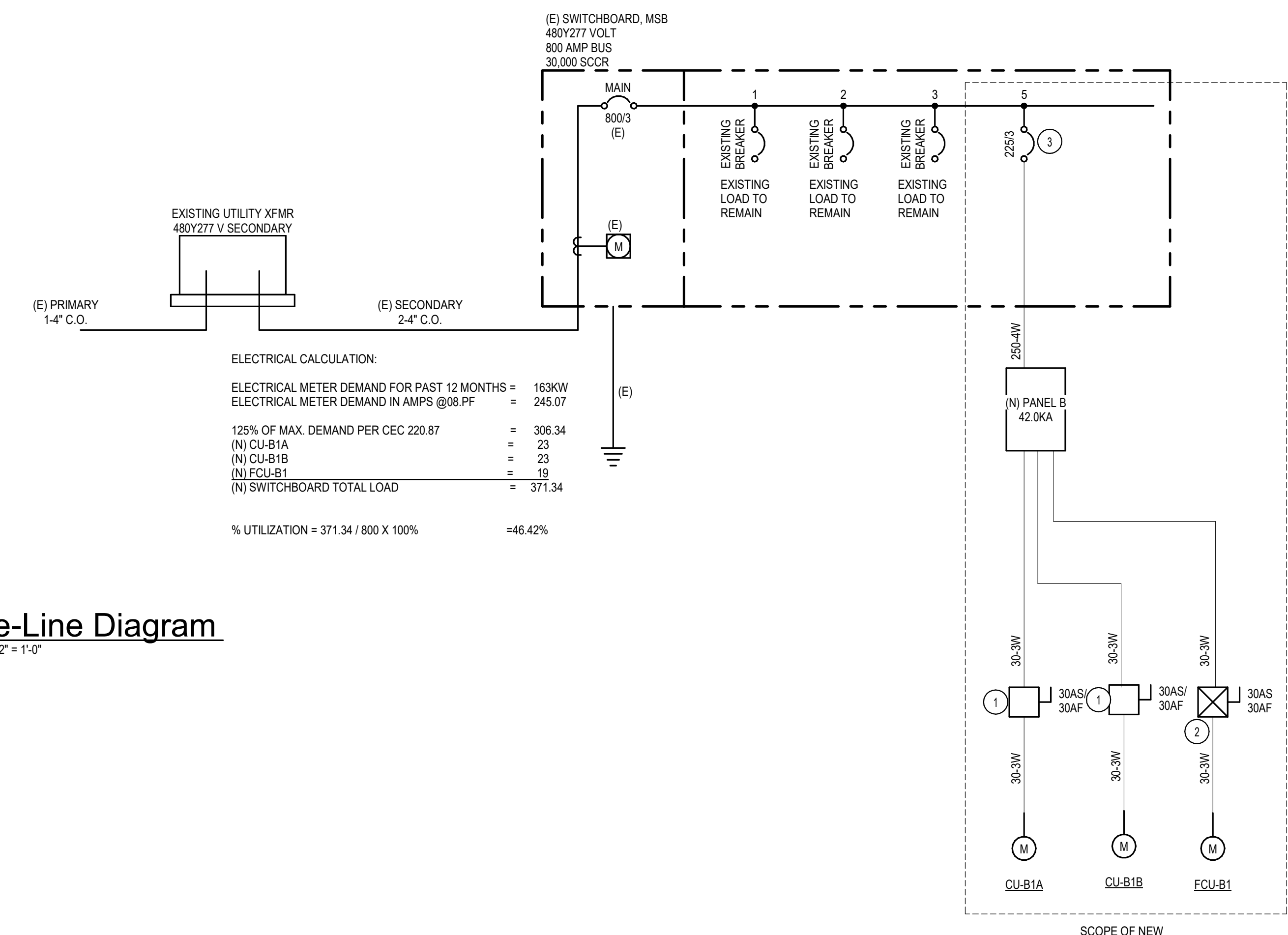
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GENERAL SINGLE LINE NOTES

- OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
- CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
- REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EO".
- GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM ARE. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

KEYNOTES

No.	DESCRIPTION
1	FUSED DISCONNECT TO BE PROVIDED BY CONTRACTOR.
2	VARIABLE FREQUENCY DRIVE WITH ON/OFF SWITCH TO BE PROVIDED UNDER DIVISION 23.
3	CONTRACTOR TO MATCH EXISTING BREAKER.



ELECTRICAL CALCULATION:
 ELECTRICAL METER DEMAND FOR PAST 12 MONTHS = 163KW
 ELECTRICAL METER DEMAND IN AMPS @0.8 PF = 245.07
 125% OF MAX. DEMAND PER CEC 220.87 = 306.34
 (N) CU-B1A = 23
 (N) CU-B1B = 23
 (N) FCU-B1 = 19
 (N) SWITCHBOARD TOTAL LOAD = 371.34
 % UTILIZATION = 371.34 / 800 X 100% = 46.42%

One-Line Diagram
 SCALE: 12" = 1'-0"

EXISTING UNIT										NEW UNIT										NOTES		
TAGS	V/PH	MCA	FLA	PANEL/CKT#	FEEDER SIZE	DISCONNECT	TAGS	DIRECT REPLACEMENT? Y/N	CFM	V/PH	MCA	MOCP	PANEL/CKT#	FEEDER SIZE	DISCONNECT	REQUIRED?	Model#	MCA	MOCP		FEEDER SIZE	DISCONNECT
NA	NA	NA	NA	NA	NA	NA	CU-B1A (BLDG B)	N		460/3	23	30	B-1.3.5	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	CU-B1B (BLDG B)	N		460/3	23	30	B-7.9.11	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	FCU-B1 (BLDG C)	N	8000	460/3	19	30	B-13.15.17	NA	30A (30A FUSE)	NO	NA	NA	NA	NA	NA	NA
CU/FCU-C1 (BLDG C)	240/1	30	18.3	D-1.3	2#10, 1#10GND-0.75°C	30	RTU-C1 (BLDG C)	Y	1,200	240/1	26	30	D-1.3	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-C2 (BLDG C)	240/1	30	18.3	D-5.7	2#10, 1#10GND-0.75°C	30	RTU-C2 (BLDG C)	Y	1,200	240/1	26	30	D-5.7	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-D1 (BLDG D)	240/1	30	18.3	M-13.15	2#10, 1#10GND-0.75°C	30	RTU-D1 (BLDG D)	Y	1,200	240/1	26	30	M-13.15	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-E1 (BLDG E)	240/1	30	18.3	M-1.3	2#10, 1#10GND-0.75°C	30	RTU-E1 (BLDG E)	Y	1,200	240/1	26	30	M-1.3	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-E2 (BLDG E)	240/1	30	18.3	M-5.7	2#10, 1#10GND-0.75°C	30	RTU-E2 (BLDG E)	Y	1,200	240/1	26	30	M-5.7	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-E3 (BLDG E)	240/1	30	18.3	M-9.11	2#10, 1#10GND-0.75°C	30	RTU-E3 (BLDG E)	Y	1,200	240/1	26	30	M-9.11	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-G1 (BLDG G)	240/1	30	18.3	M-2.4	2#10, 1#10GND-0.75°C	30	RTU-G1 (BLDG G)	Y	1,200	240/1	26	30	M-2.4	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-G2 (BLDG G)	240/1	30	18.3	M-6.8	2#10, 1#10GND-0.75°C	30	RTU-G2 (BLDG G)	Y	1,200	240/1	26	30	M-6.8	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-G3 (BLDG G)	240/1	30	18.3	M-10.12	2#10, 1#10GND-0.75°C	30	RTU-G3 (BLDG G)	Y	1,200	240/1	26	30	M-10.12	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-H1 (BLDG H)	240/1	30	18.3	GH-1.3	2#10, 1#10GND-0.75°C	30	RTU-H1 (BLDG H)	Y	1,200	240/1	26	30	GH-1.3	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-H2 (BLDG H)	240/1	30	18.3	GH-5.7	2#10, 1#10GND-0.75°C	30	RTU-H2 (BLDG H)	Y	1,200	240/1	26	30	GH-5.7	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-H3 (BLDG H)	240/1	30	18.3	GH-9.11	2#10, 1#10GND-0.75°C	30	RTU-H3 (BLDG H)	Y	1,200	240/1	26	30	GH-9.11	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-I1 (BLDG I)	240/1	30	18.3	GH-2.4	2#10, 1#10GND-0.75°C	30	RTU-I1 (BLDG I)	Y	1,200	240/1	26	30	GH-2.4	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-I2 (BLDG I)	240/1	30	18.3	GH-6.8	2#10, 1#10GND-0.75°C	30	RTU-I2 (BLDG I)	Y	1,200	240/1	26	30	GH-6.8	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-I3 (BLDG I)	240/1	30	18.3	GH-10.12	2#10, 1#10GND-0.75°C	30	RTU-I3 (BLDG I)	Y	1,200	240/1	26	30	GH-10.12	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-J1 (BLDG J)	240/1	30	18.3	LK-2.4	2#10, 1#10GND-0.75°C	30	RTU-J1 (BLDG J)	Y	1,200	240/1	26	30	LK-2.4	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-J2 (BLDG J)	240/1	30	18.3	LK-6.8	2#10, 1#10GND-0.75°C	30	RTU-J2 (BLDG J)	Y	1,200	240/1	26	30	LK-6.8	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-J3 (BLDG J)	240/1	30	18.3	LK-10.12	2#10, 1#10GND-0.75°C	30	RTU-J3 (BLDG J)	Y	1,200	240/1	26	30	LK-10.12	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-K1 (BLDG K)	240/1	30	18.3	LK-1.3	2#10, 1#10GND-0.75°C	30	RTU-K1 (BLDG K)	Y	1,200	240/1	26	30	LK-1.3	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-K2 (BLDG K)	240/1	30	18.3	LK-5.7	2#10, 1#10GND-0.75°C	30	RTU-K2 (BLDG K)	Y	1,200	240/1	26	30	LK-5.7	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
CU/FCU-K3 (BLDG K)	240/1	30	18.3	LK-9.11	2#10, 1#10GND-0.75°C	30	RTU-K3 (BLDG K)	Y	1,200	240/1	26	30	LK-9.11	2#10, 1#10GND-0.75°C	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)	
EF-B1								N		120	12.25	30	BI-13	2#10, 1#10GND-0.75°C	30A (15A FUSE)							

- GENERAL NOTES:
- CONTRACTOR TO FIELD VERIFY CIRCUITING AND FEEDER INFORMATION PRIOR TO EQUIPMENT REMOVAL. CONTRACTOR TO PROVIDE REQUIRED ADJUSTMENTS AS NEEDED.
 - PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE. FEED FROM SPARE 20A/1P BREAKER IN NEAREST PANEL. ROUTE 2#12+1#12GND IN 1/2" EMT CONDUIT FROM PANEL TO RECEPTACLE.
 - POWER NO MORE THAN 10 RECEPTACLES ON ONE CIRCUIT. FIELD VERIFY EXACT LOCATION OF NEAREST PANEL AND ROUTE OF NEW CIRCUIT FROM PANEL TO UNIT RECEPTACLE.
 - CONTRACTOR TO DEMOLISH POWER CONNECTION FROM CONDENSING UNITS, FAN COIL UNITS AND CONDENSATE PUMPS. DEMOLITION TO CONSIST OF REMOVAL OF POWER CONNECTION, CABLING, AND CONDUIT BACK TO SOURCE UNLESS NOTED OTHERWISE.
 - FIELD COORDINATE EQUIPMENT MANUFACTURER FOR FAULT CURRENT LIMITING FUSE TYPES

FEEDER SCHEDULE - COPPER									
MARK (AMPS)	# SETS	Ø & N	GND	CONDUIT SIZE			MARK SUFFIX		
				-4W	-3W	-2W			
15	1	12	12	3/4"	3/4"	3/4"	3/4"		
20	1	12	12	3/4"	3/4"	3/4"	3/4"		
25	1	10	10	3/4"	3/4"	3/4"	3/4"		
30	1	10	10	3/4"	3/4"	3/4"	3/4"		
35	1	8	10	3/4"	3/4"	3/4"	3/4"		
40	1	8	10	3/4"	3/4"	3/4"	3/4"		
45	1	6	10	1"	3/4"	3/4"	3/4"		
50	1	6	10	1"	3/4"	3/4"	3/4"		
60	1	4	10	1-1/4"	1"	3/4"	3/4"		
70	1	4	8	1-1/4"	1"	3/4"	3/4"		
80	1	3	8	1-1/4"	1-1/4"	1"	1"		
90	1	2	8	1-1/4"	1-1/4"	1"	1"		
100	1	1	8	1-1/2"	1-1/2"	1-1/4"	1-1/4"		
110	1	1	6	1-1/2"	1-1/2"	1-1/4"	1-1/4"		
125	1	1	6	1-1/2"	1-1/2"	1-1/4"	1-1/4"		
150	1	1	6	2"	1-1/2"	1-1/4"	1-1/4"		
175	1	2	6	2"	1-1/2"	1-1/4"	1-1/4"		
200	1	3	6	2"	2"	1-1/2"	1-1/2"		
225	1	4	4	2-1/2"	2"	1-1/2"	1-1/2"		
250	1	250	4	2-1/2"	2"	1-1/2"	1-1/2"		
300	1	360	4	3"	2-1/2"	2"	2"		
350	1	500	3	3-1/2"	3"	2-1/2"	2-1/2"		
400	1	600	3	3-1/2"	3"	2-1/2"	2-1/2"		
400	2	30	3	2"	2"	1-1/2"	1-1/2"		
450	2	40	2	2-1/2"	2"	1-1/2"	1-1/2"		
500	2	250	2	2-1/2"	2-1/2"	2"	2"		
600	2	350	1	3"	2-1/2"	2"	2"		
700	2	500	1	3-1/2"	3"	2-1/2"	2-1/2"		
800	2	600	1	3-1/2"	3"	2-1/2"	2-1/2"		
1000	3	400	2	3"	3"	2-1/2"	2-1/2"		
1200	3	600	3	3-1/2"	3-1/2"	3"	3"		
1600	4	600	4	3-1/2"	3-1/2"	3"	3"		
2000	5	600	250	4"	3-1/2"	3"	3"		
2500	6	600	350	4"	3-1/2"	3"	3"		
3000	8	500	400	3-1/2"	3"	2-1/2"	2-1/2"		
4000	10	600	500	4"	3-1/2"	3"	3"		

ABBREVIATIONS:
 Ø PHASE
 N NEUTRAL
 GND EQUIPMENT GROUNDING CONDUCTOR
 -4W FOUR WIRE + GROUND (3Ø N GND)
 -3W THREE WIRE + GROUND (3Ø GND + 2Ø N GND)
 -2W TWO WIRE + GROUND

- NOTES:
- CONDUCTOR AMPACITIES ARE BASED ON NEC TABLE 310.15(B)(16).
 - CONDUIT SIZES ARE BASED ON A MAXIMUM FILL RATIO OF 40%.
 - SCHEDULE SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS WHERE APPLICABLE.
 - ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR. SCHEDULE IS VALID FOR TYPE THHN, THWN-2, AND XHHW-2 CONDUCTORS. SEE SPECIFICATIONS FOR CONDUCTOR TYPES REQUIRED.
 - SCHEDULE IS VALID FOR TYPE EMT, IMC, FMC, LFMC, HOPE, AND RNC-40 RACEWAYS. SEE SPECIFICATIONS FOR RACEWAY APPLICATIONS.
 - OPTIONAL CONFIGURATIONS (1 OR 2 SETS) ARE GIVEN FOR SOME SIZES.
 - NOT ALL SIZES USED.



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 5/5/2022
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ELECTRICAL DIAGRAMS AND SCHEDULES

E5.1

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR CONDUITS ON TRAPEZE

BRACE ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD, Fp, LBS	MAX BRACE RANGE, ft	DIA. INCH
38A TO 38D	250	30'-45"	1/2
38A TO 38B	150	46'-60"	1/2
50A TO 50D	300	30'-45"	1/2
50A TO 50B	170	46'-60"	1/2
63A TO 63D	340	30'-45"	1/2
63A TO 63C	200	46'-60"	1/2

NOTES:
1) REFER TO APPROPRIATE DETAIL F PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.

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PAGE **A25.1**

SEISMIC BRACKET ATTACHMENT TO STRUCTURAL TIMBER WITH (1) THRU BOLT OR THREADED ROD

BRACE ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD, Fp, LBS	MAX BRACE RANGE, ft	DIA. INCH
38A TO 38D	250	30'-45"	1/2
38A TO 38B	150	46'-60"	1/2
50A TO 50D	300	30'-45"	1/2
50A TO 50B	170	46'-60"	1/2
63A TO 63D	340	30'-45"	1/2
63A TO 63C	200	46'-60"	1/2

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PAGE **N4.10**

SEISMIC BRACKET ATTACHMENT TO WOOD I-JOISTS WITH (1) THRU BOLT OR THREADED ROD

BRACE ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD, Fp, LBS	MAX BRACE RANGE, ft	DIA. INCH
38A TO 38B	150	30'-45"	1/2
38A TO 38A	80	46'-60"	1/2
50A TO 50C	180	30'-45"	1/2
50A TO 50A	100	46'-60"	1/2
63A TO 63C	210	30'-45"	1/2
63A TO 63A	120	46'-60"	1/2

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PAGE **N4.11**

SEISMIC BRACKET ATTACHMENT TO WOOD JOIST

BRACE ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD, Fp, LBS	MAX BRACE RANGE, ft	DIA. INCH
38A TO 38E	420	30'-45"	1/2
38A TO 38D	300	46'-60"	1/2
50A TO 50E	420	30'-45"	1/2
50A TO 50D	300	46'-60"	1/2
63A TO 63E	420	30'-45"	1/2
63A TO 63D	300	46'-60"	1/2

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PAGE **N4.13**

CONDUIT ELECTRICAL METALLIC TUBING (EMT) MAXIMUM SEISMIC BRACE SPACINGS

TRADE SIZE	MAX WEIGHT PER FOOT (LBS/FT)	MAX GRAVITY SUPPORT SPACING (FT)	MAX TRANSVERSE BRACE SPACING BASED ON TRADE SIZE AND g FORCE (FT)
3	8.26	10	43
3.5	10.98	10	44
4	13.64	10	45

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PAGE **S2.0**

ELECTRICAL CONDUIT WEIGHT TABLES

CONDUIT DIAMETER (IN)	PIPE TYPE	PIPE WEIGHT PER FOOT (LBS)		
		PIPE	CONDUCTORS	TOTAL
1/2	ELECTRICAL METAL TUBING (EMT) WEIGHT	0.29	0.22	0.51
		0.44	0.40	0.84
		0.64	0.66	1.30
		0.98	1.17	2.15
		1.10	1.60	2.70
		1.40	2.62	4.02
3/4	ELECTRICAL METAL TUBING (EMT) WEIGHT	2.85	3.74	6.59
		2.90	5.79	8.69
		3.25	7.73	10.98
		3.70	9.94	13.64
		—	—	—
		—	—	—
1	ROD METAL CONDUIT (RMC) WEIGHT	0.79	0.22	1.01
		1.05	0.41	1.46
		1.53	0.66	2.19
		2.01	1.17	3.18
		2.48	1.61	4.09
		3.32	2.62	5.94
1 1/2	ROD METAL CONDUIT (RMC) WEIGHT	5.27	3.74	9.01
		6.82	5.77	12.59
		8.31	7.73	16.04
		9.72	9.85	19.57
		13.14	15.82	28.96
		17.45	22.58	40.03

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PAGE **APP3.0**

TOLCO UL Listed Fastener Table

Pipe Size	Qty	Fastener Type	Material
1/2 - 2	2	#14 x 1 1/4" A-point hex-washer-head sheet metal screw	Wood
2 1/2 - 4	2	1 1/4" x 1 1/4" wood screws*	Wood
1/2 - 2	2	1/4" x 1" tek screws	Metal (18 gauge)
1/2 - 2	2	#14 x 1 1/4" A-point hex-washer-head sheet metal screw	Wood
1/2 - 2	2	#14 x 2" A-point hex-washer-head sheet metal screw	Wood thru 5/8" gyp board

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PAGE **APP3.0**

ROOF PENETRATION DETAIL

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PAGE **E6.1**

TYP WALL EQUIPMENT BACKING

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PAGE **E6.1**

DLR Group
REGISTERED PROFESSIONAL ENGINEER
WORKMAN E. PLACEMENT
REG. #15960
EXPIRES 06/30/23
STATE OF CALIFORNIA

USG

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ELECTRICAL DETAILS
E6.1