

CYPRESS ELEMENTARY SCHOOL

351 W. CYPRESS ST. COVINA, CA 91723

COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT

100% CONSTRUCTION DOCUMENTS

05/05/2022

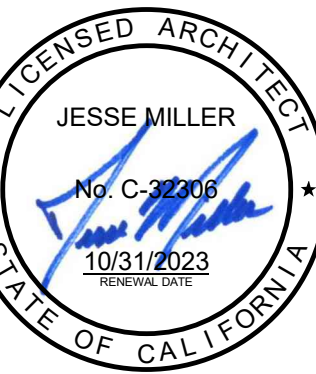
DLR GROUP PROJECT NUMBER: 75-22605-00

DSA APPLICATION #

A# 03-122230

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122230 INC:
REVIEWED FOR
SS FLS ACS
DATE: 02/16/2023

DLR Group
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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, INTENT, AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: [Signature] DATE: 05/05/2022
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
JESSE MILLER
PRINT NAME
C-32306
10/31/2023
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 1603A.1.5)
 - SEISMIC DESIGN CATEGORY: D
 - SITE CLASS: D
 - S₁ = 1.642
 - S₂ = 0.903
 - S₃ = 1.971
 - S₄ = 1.025
 - S₅ = 1.314
 - S₆ = 0.983
 - I_e (COMPONENT IMPORTANCE FACTOR) = 1.0
- DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A.1.6)
 - 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

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CFR
 - 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CFR
 - (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CFR
 - (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CFR
 - (2018 INTERNATIONAL MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CFR
 - (2018 INTERNATIONAL PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CFR
 - 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CFR
 - (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CFR
 - (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CFR
 - 2019 CALIFORNIA REFERENCED STANDARDS CODE (CEC), PART 12, TITLE 24 CFR
 - TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 - 2016 ASME A17.1/CSA B44-19 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 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) | 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/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-2 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 WHEN 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 WHEN 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>
- 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

STRUCTURAL ENGINEER
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700 FLOWER ST 22ND FLOOR
LOS ANGELES, CA 90017
CONTACT: DANIEL AHKHAM
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

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

G0.1

GENERAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like # NUMBER, @ AND, ADA AMERICANS WITH DISABILITY ACT, etc.

ARCHITECTURAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like A/E ARCHITECT/ENGINEER, AB AIR BARRIER, ABS ASBESTOS, etc.

Table with 2 columns: Abbreviation and Description. Includes entries like GL GLUE LAMINATED, GU GUARANTEED MAXIMUM PRICE, GR GUARD RAIL, etc.

Table with 2 columns: Abbreviation and Description. Includes entries like SD SOAP DISPENSER, SE SECRETARY, SF SQUARE FEET, etc.

GENERAL SYMBOLS

Table of general symbols including DETAIL NUMBER, BUILDING ELEVATION, INTERIOR ELEVATION, WALL SECTION, DETAIL REFERENCE, BUILDING SECTION, SHEET NOTE, REFERENCE KEYNOTE, COLUMN GRID LINE, ROOM NUMBER NAME, REVISION NUMBER, LEVEL ELEVATION, FINISH FLOOR ELEVATION, SPOT ELEVATION, EARTH, GRAVEL, SAND, CONCRETE, PRECAST CONCRETE, STEEL, STONE, CONCRETE MASONRY UNIT, BRICK VENEER, STEEL (LARGE SCALE), GYM FLOOR, WOOD (CONTINUOUS BLOCKING), WOOD (NON-CONTINUOUS BLOCKING), WOOD (TRIM/FINISH), GLASS, SHINGLES, PLYWOOD (LARGE SCALE), GYPSUM WALL BOARD, BLANKET INSULATION, RIGID INSULATION, SPRAY FOAM INSULATION, MINERAL WOOL INSULATION, PROTECTION BOARD, CARPET (LARGE SCALE), ACUSTIC TILE (LARGE SCALE), TILE (LARGE SCALE).

SITE SYMBOLS

Table of site symbols including PROPERTY LINE, LOT LINE, EASMENT LINE, BUILDING LINE, EXISTING, BUILDING LINE, NEW WOOD, OPENING AND STRUCTURAL STOOP, PRIMARY CONTOUR, EXISTING, PRIMARY CONTOUR, NEW, SECONDARY CONTOUR, EXISTING, SECONDARY CONTOUR, NEW, SLOPE, PAVEMENT, DRAINAGE DITCH OR SWALE, STREET CENTERLINE, CURB, THICKENED EDGE, CURB, EXISTING, CURB, NEW, PAVING CONTRACTION JOINT, PAVING KEVED CONSTRUCTION JOINT, PAVING TIED CONSTRUCTION JOINT, PAVING EXPANSION JOINT, FENCE, SECURITY, FENCE, BARBED WIRE, FENCE, CHAIN LINK, FENCE, WOOD, SEED LIMIT, SOD LIMIT, FOUNDATION DRAIN, NON-PERFORATED, FOUNDATION DRAIN, PERFORATED, SUBDRAIN, PERFORATED, SANITARY SEWER, FORCE MAIN, WATER, FIRE, GAS, HPS, MFS, LPS, UGE/UGT, HOT, LAT, AREA INLET, CURB INLET, MANHOLE, HEAD WALL, FLARED END, CLEAN OUT, CAP, THRUST BLOCK, VALVE, POST INDICATOR VALVE, REDUCER, FIRE HYDRANT, POWER POLE, LIGHT POLE, TELEPHONE MANHOLE, TELEPHONE BOX, SPRINKLER HEAD, 360°, SPRINKLER HEAD, 270°, SPRINKLER HEAD, 180°, SPRINKLER HEAD, 90°, QUICK COUPLING, TREE, EXISTING DECIDUOUS, TREE, EXISTING CONIFER, SHADE TREE, ORNAMENTAL TREE, DECIDUOUS TREE, SHRUB, CLIPPED SHRUB.

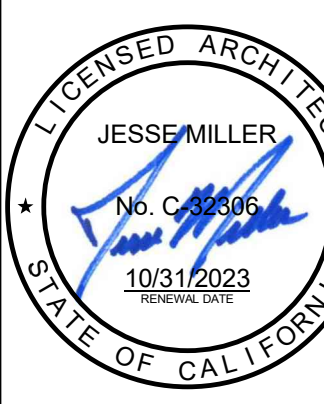
ARCHITECTURAL SYMBOLS

Table of architectural symbols including CASEWORK ELEVATION, DOOR NUMBER, INTERIOR WINDOW NUMBER, EXTERIOR WINDOW / CURTAIN WALL NUMBER, WALL TYPE, CEILING TYPE, CEILING HEIGHT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-12230 INC. REVIEWED FOR DATE: 02/16/2023

GENERAL NOTES

- A. GENERAL NOTES APPLY TO ALL SHEETS. B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. C. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. D. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR. E. SEE FLOOR PLANS FOR LOCATION OF (E) WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE. F. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 09413. G. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS. H. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK. I. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID. J. GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS. K. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT. L. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY. M. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.



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

100% CONSTRUCTION DOCUMENTS 05/05/2022 REVISIONS

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

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

G1.1

Autodesk Docs / 75-22605-00 CVUSD - District Wide HVAC Replacement / 75-22605-00 CVUSD_Cypress_ES_A#_2022.rvt 1/30/2023 5:20:47 PM

SITE LEGEND

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

DLR Group
 LICENSED ARCHITECT
 JESSE MILLER
 No. C 13436
 10/31/2023
 STATE OF CALIFORNIA

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

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75-22605-00
 DSA A#03-122230
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 ARCHITECTURAL
 SITE PLAN

A1.1

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A

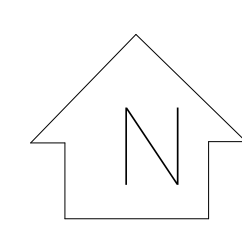
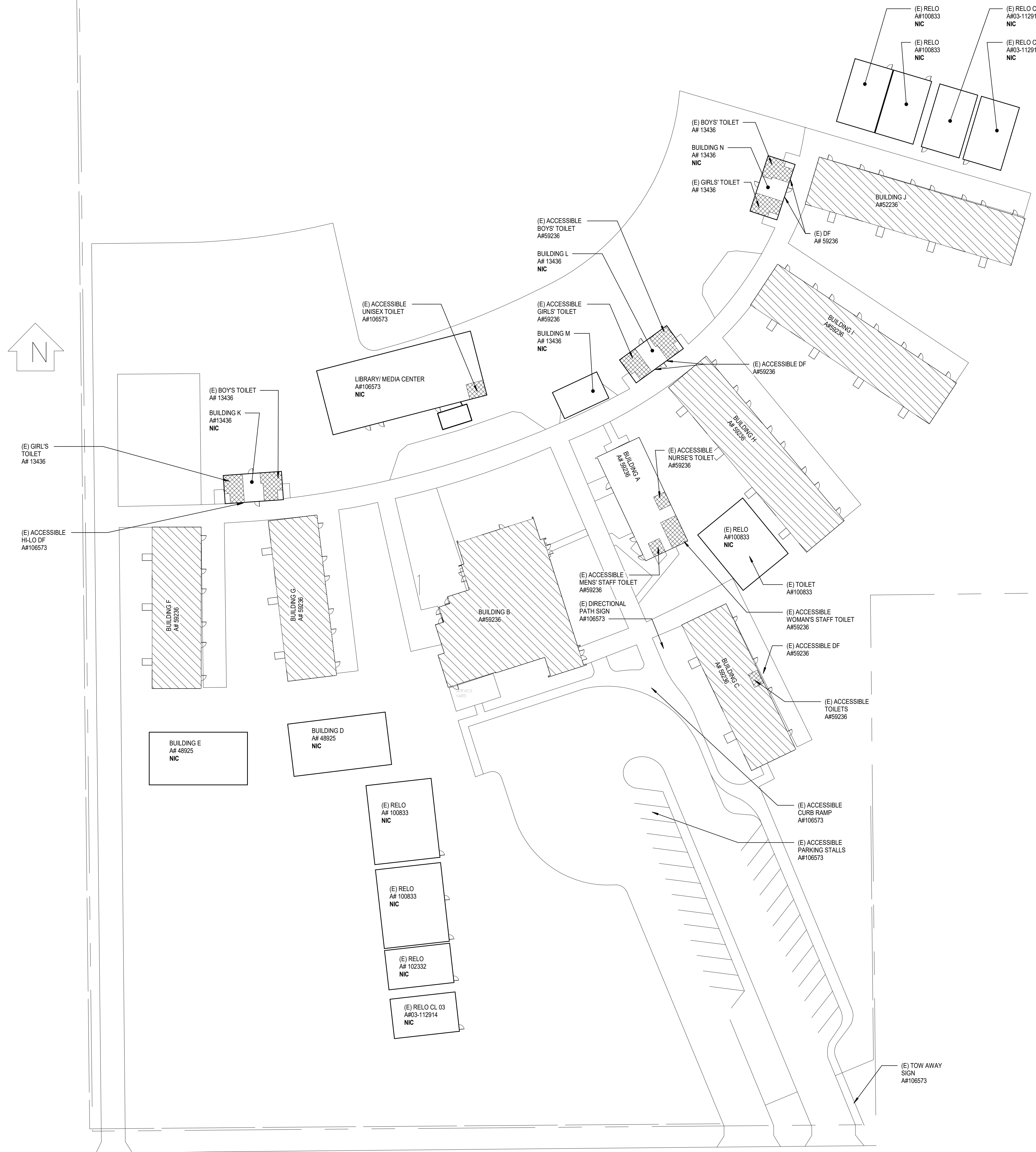
B

C

D

E

F



1
 A1.1 ARCHITECTURAL SITE PLAN
 SCALE: 1" = 30'-0"

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122230 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/16/2023

REFERENCE KEYNOTES

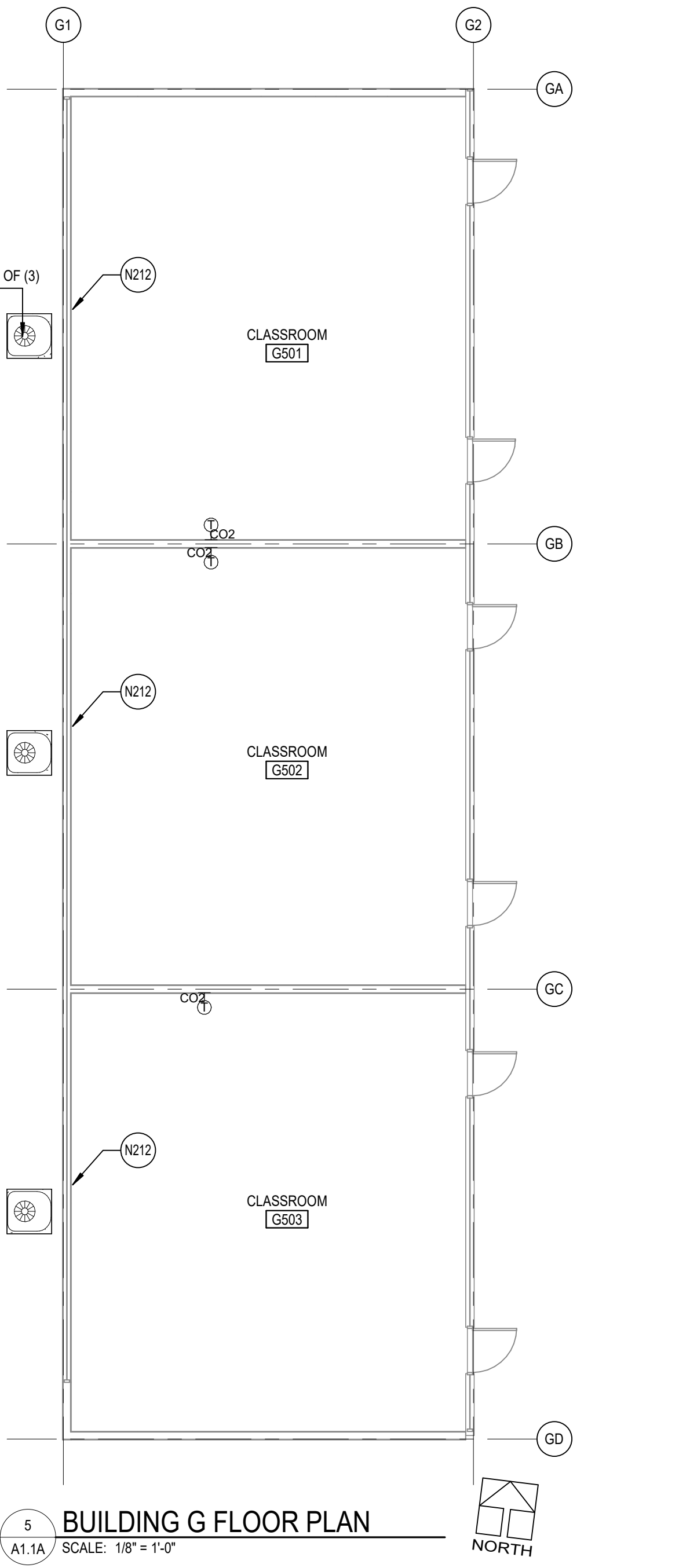
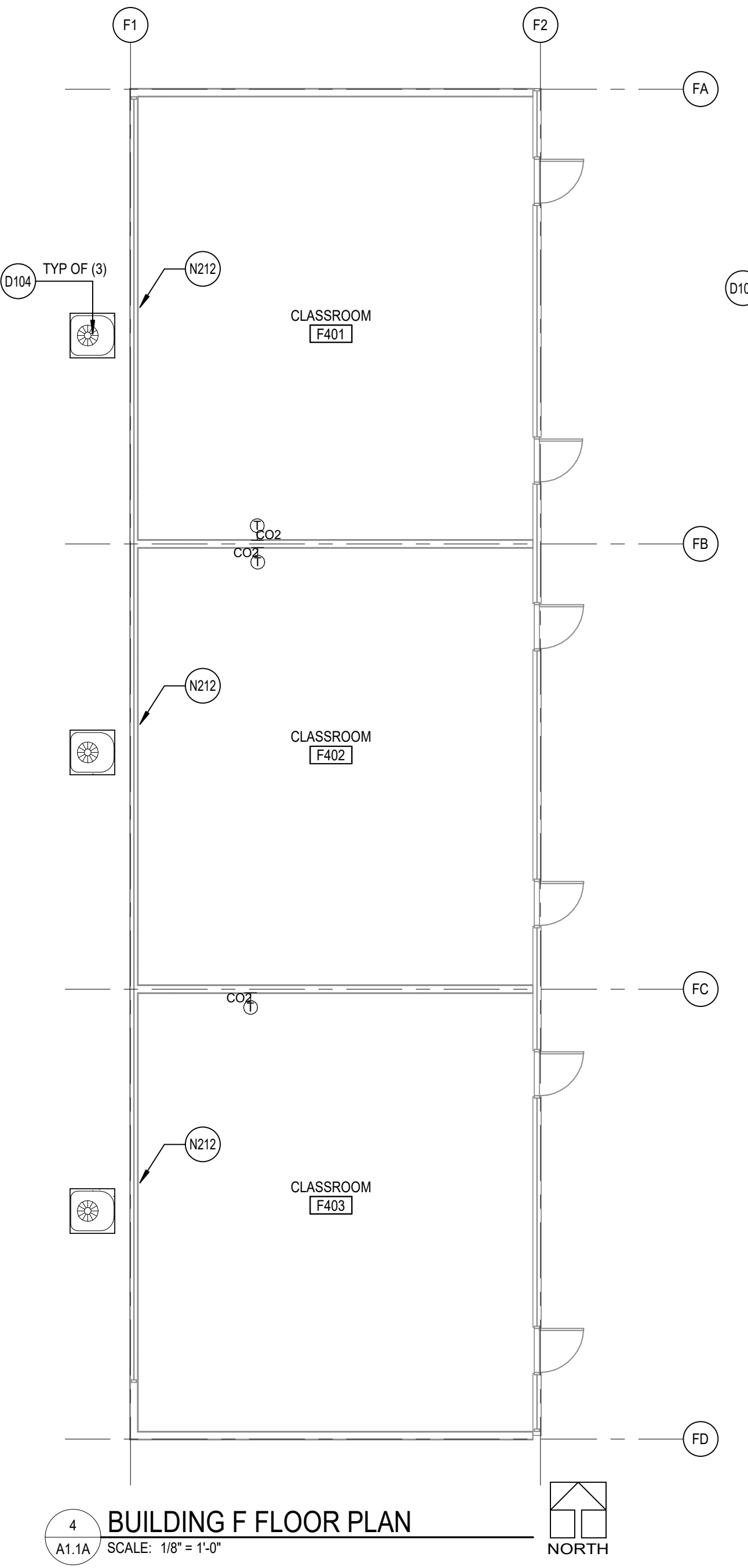
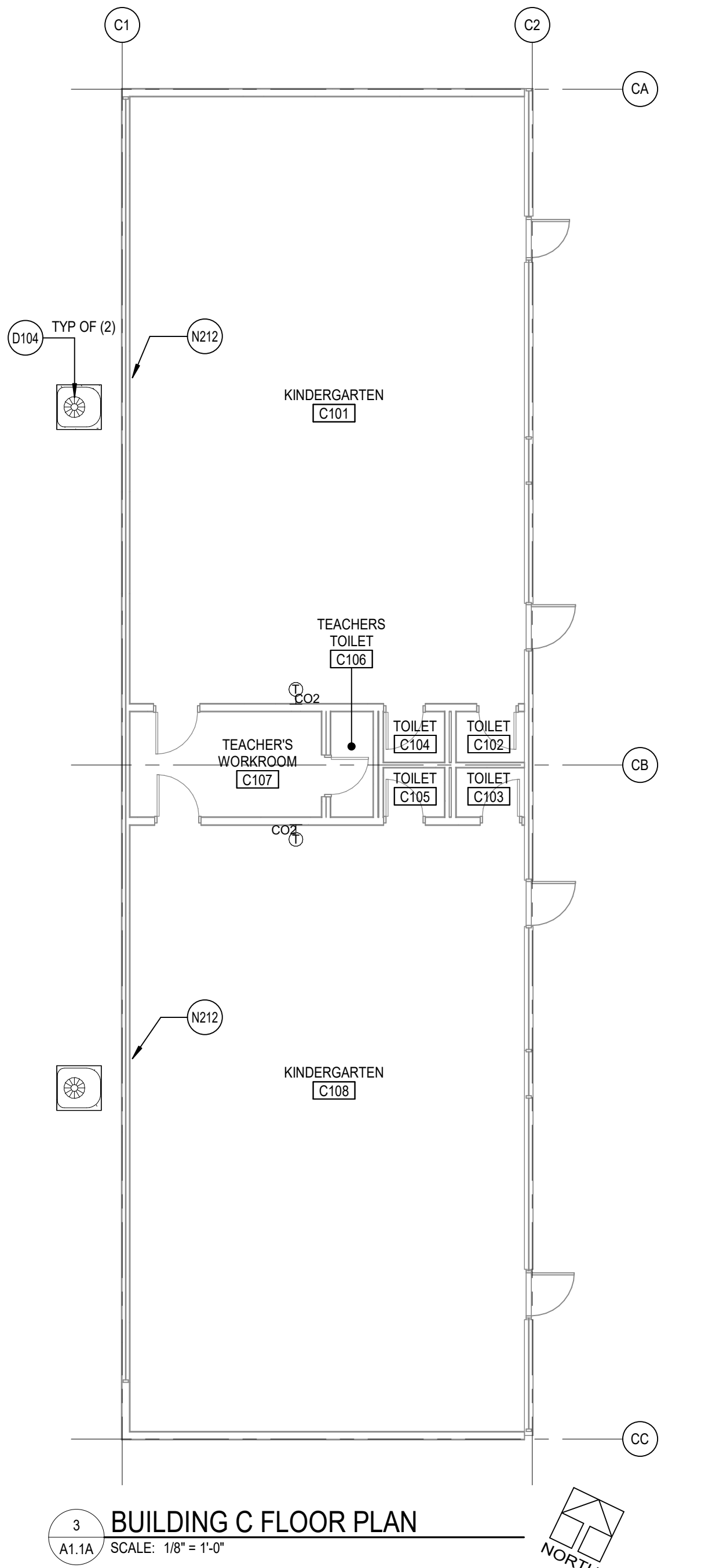
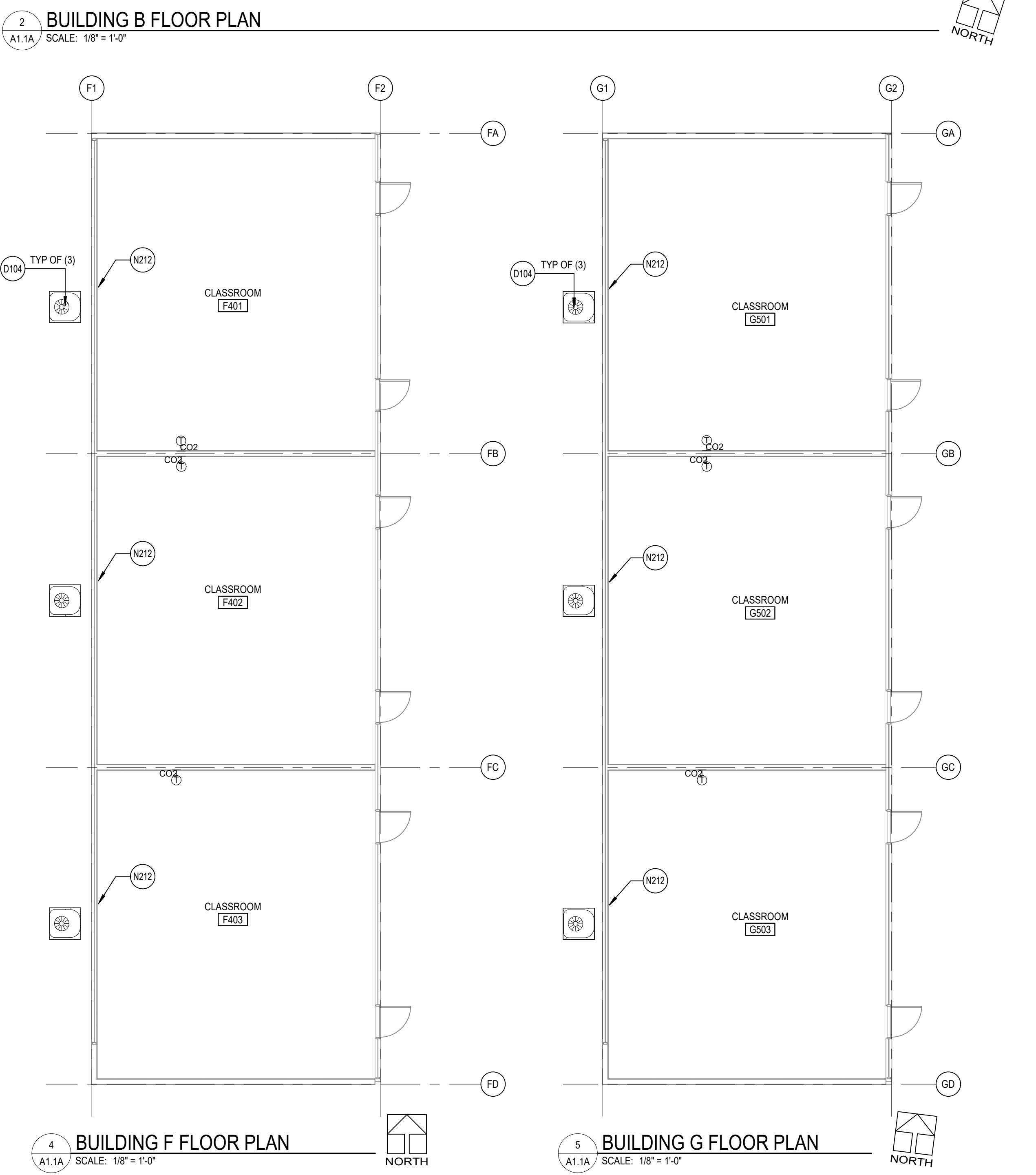
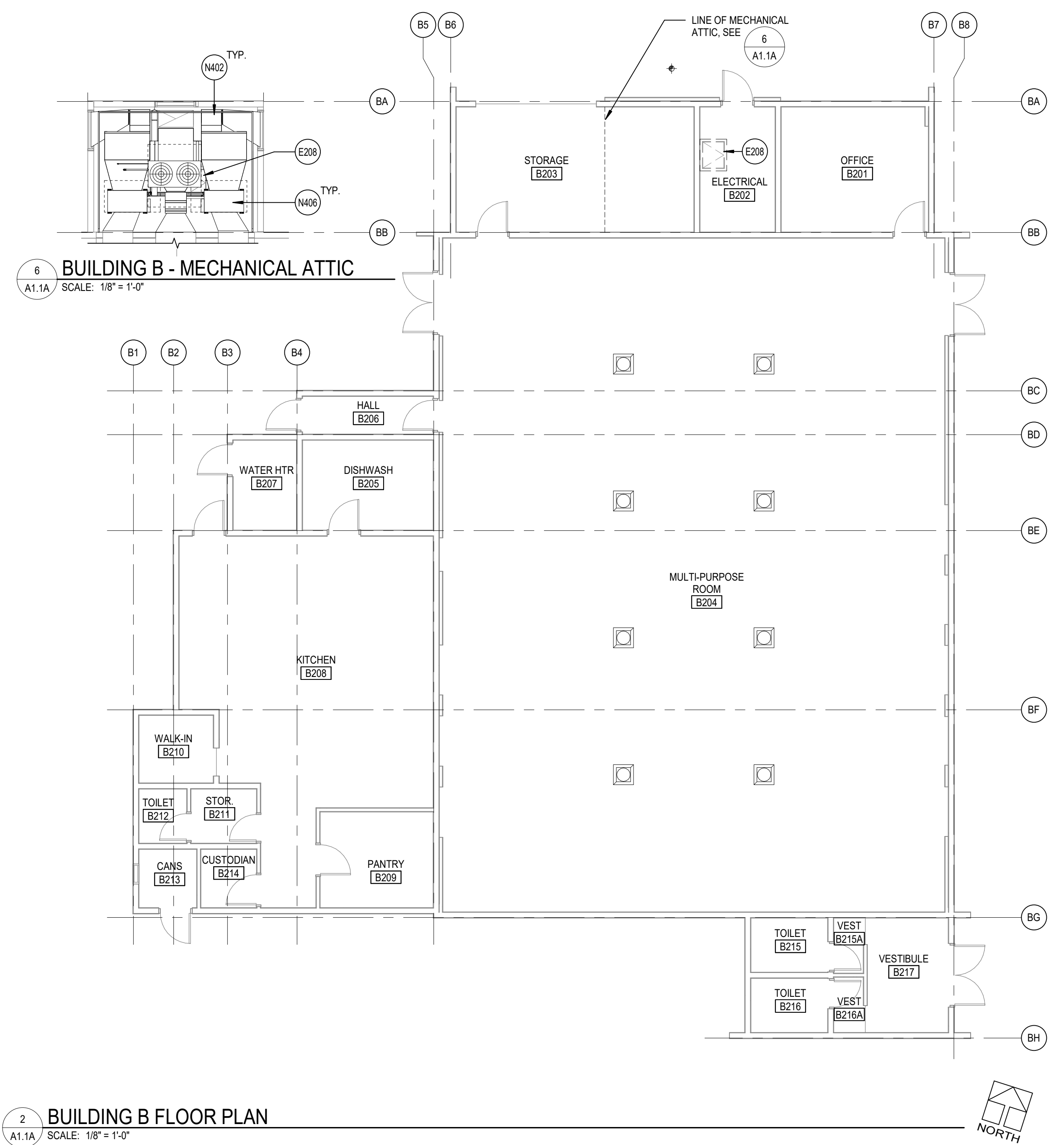
KEYNOTES
D104 REMOVE (E) MECHANICAL EQUIP., EQUIP. CONC. PAD, & ITS ASSOCIATED PARTS. SEE MECHANICAL & PLUMBING DWG. CONTRACTOR TO PATCH AND REPAIR AREA OF DEMO WITH (N) ASPHALT, (N) CONCRETE OR (N) LANDSCAPING TO MATCH ADJACENT SURFACE.
E208 (E) ACCESS DOOR TO REMAIN.
N212 REPLACE (E) INTELL. PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.
N402 NEW DUCTWORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
N406 (N) MECHANICAL UNITS ATTACHED TO THE (E) UNIT CURB. SEE MECHANICAL DRAWING SHEET M7.3, M7.4 AND M7.5.

GENERAL ARCHITECTURAL NOTES

- ALL (E) INTERIOR WALLS SHALL ARE TO 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.

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.



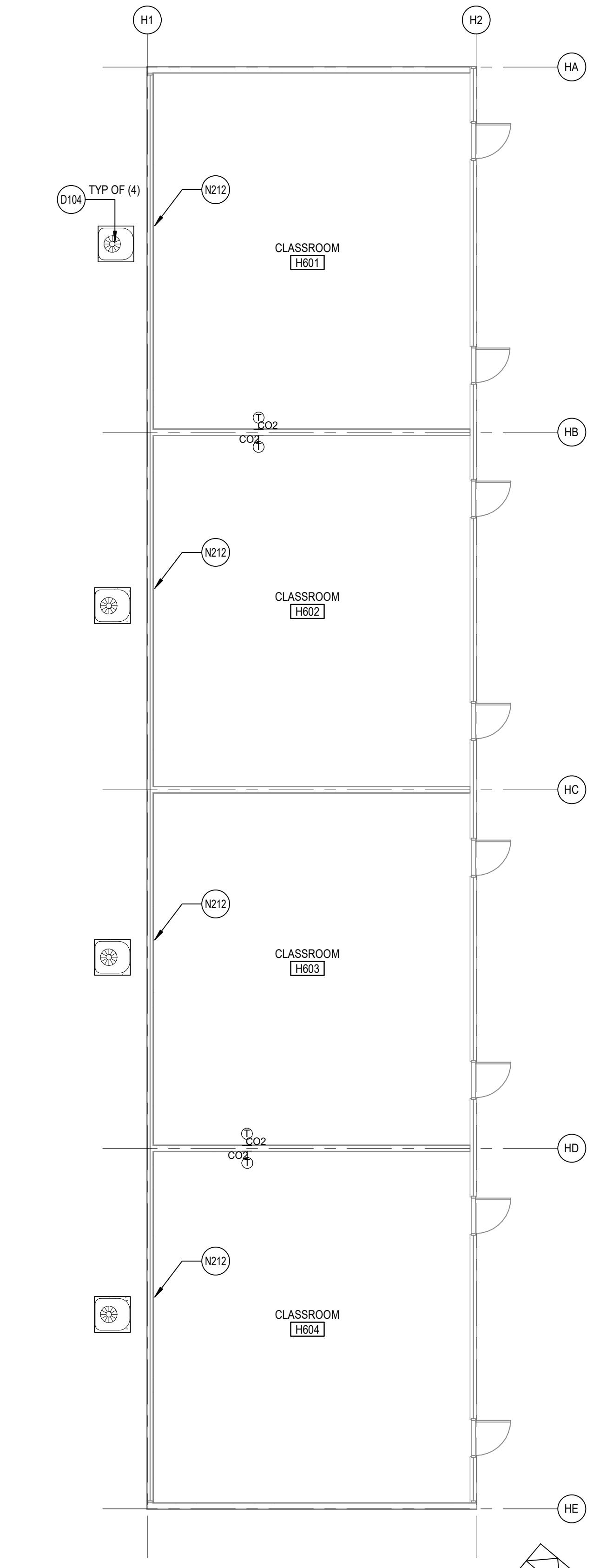
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 COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT
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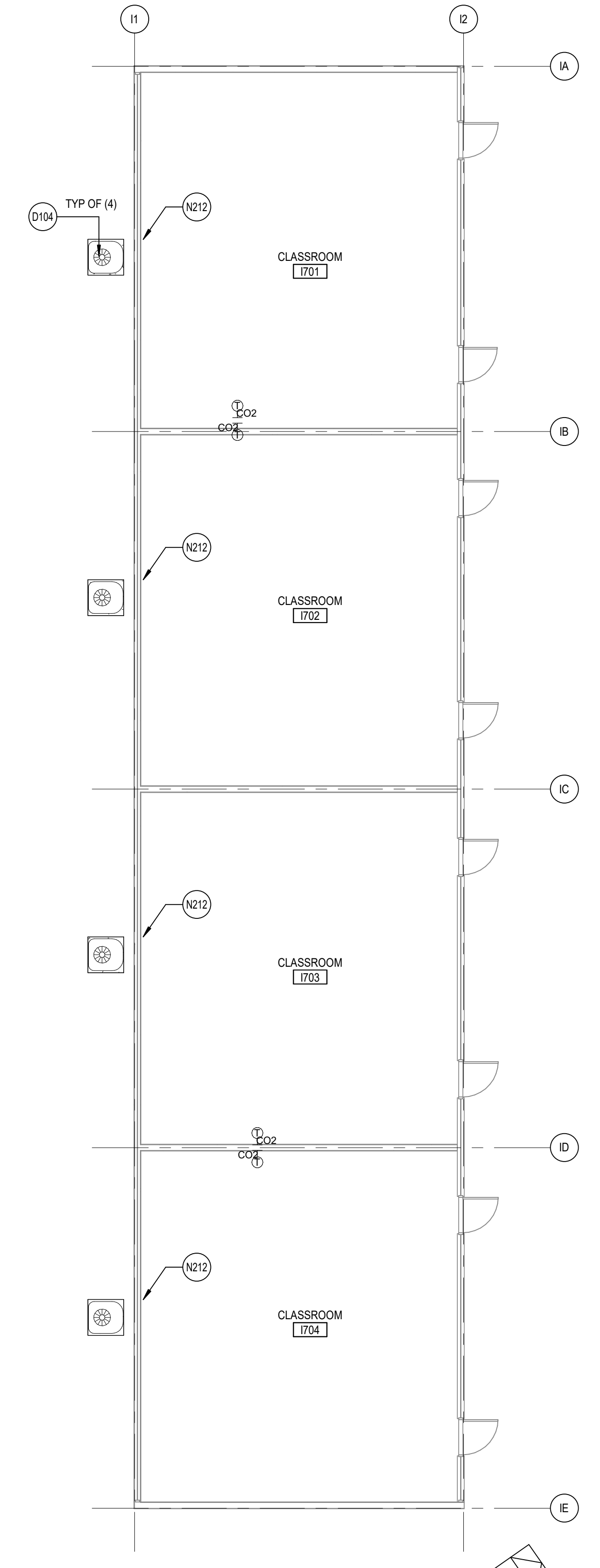
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**BUILDING ABCFG
 FLOOR PLANS**

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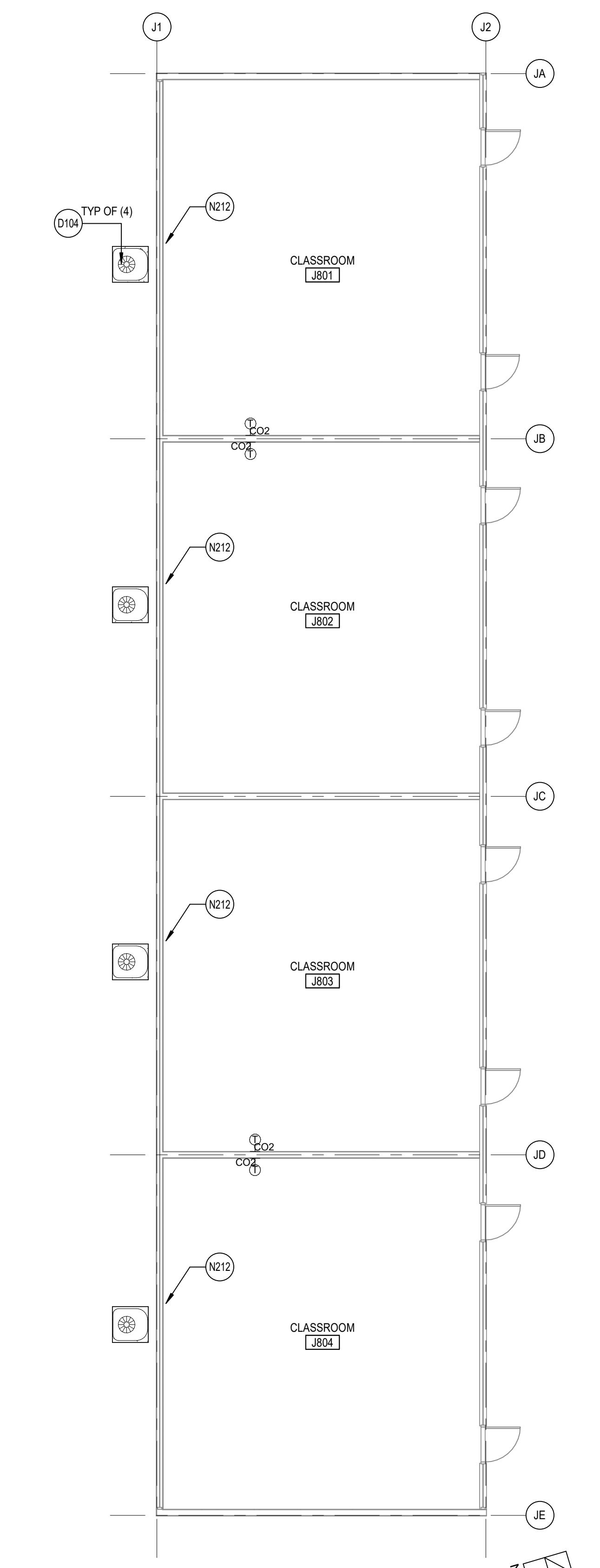
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2 BUILDING H FLOOR PLAN
 A1.1B / SCALE: 1/8" = 1'-0"



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.
 - N212 REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT. PAINT FRAME TO MATCH ADJACENT.

GENERAL ARCHITECTURAL NOTES

1. ALL (E) INTERIOR 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.
 - 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.

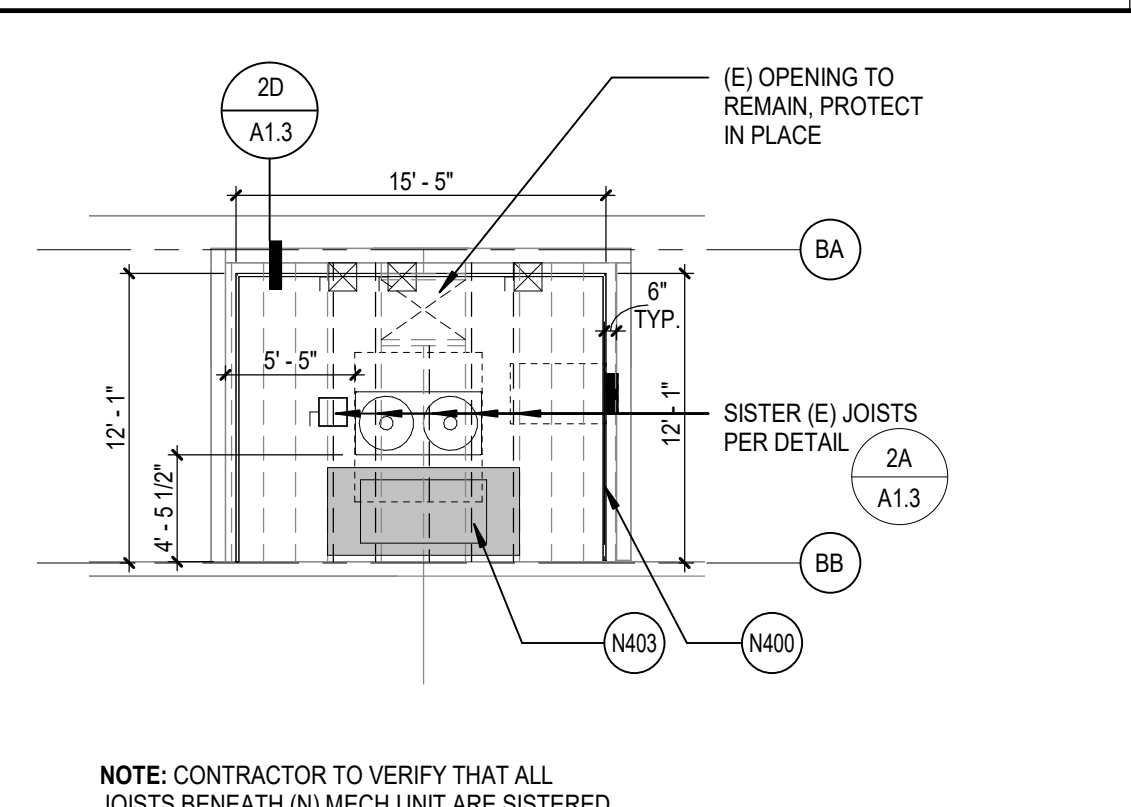
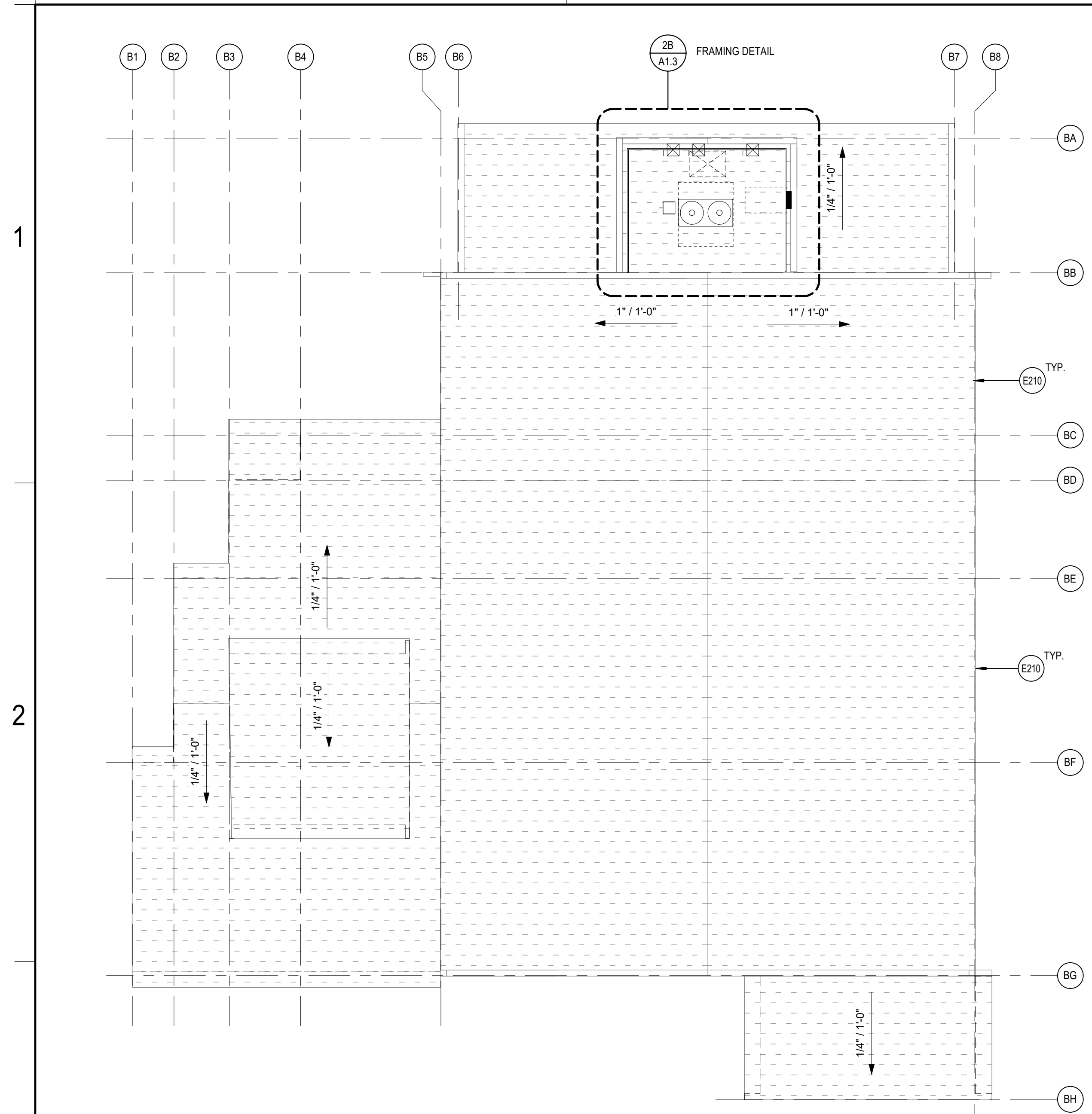


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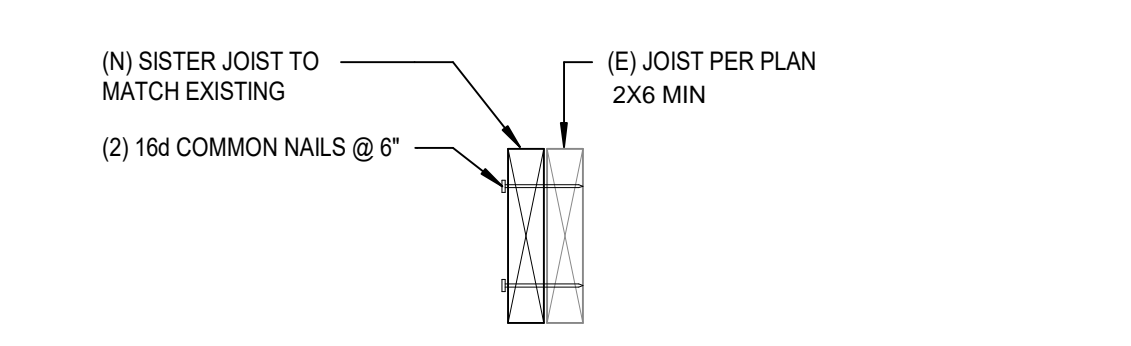
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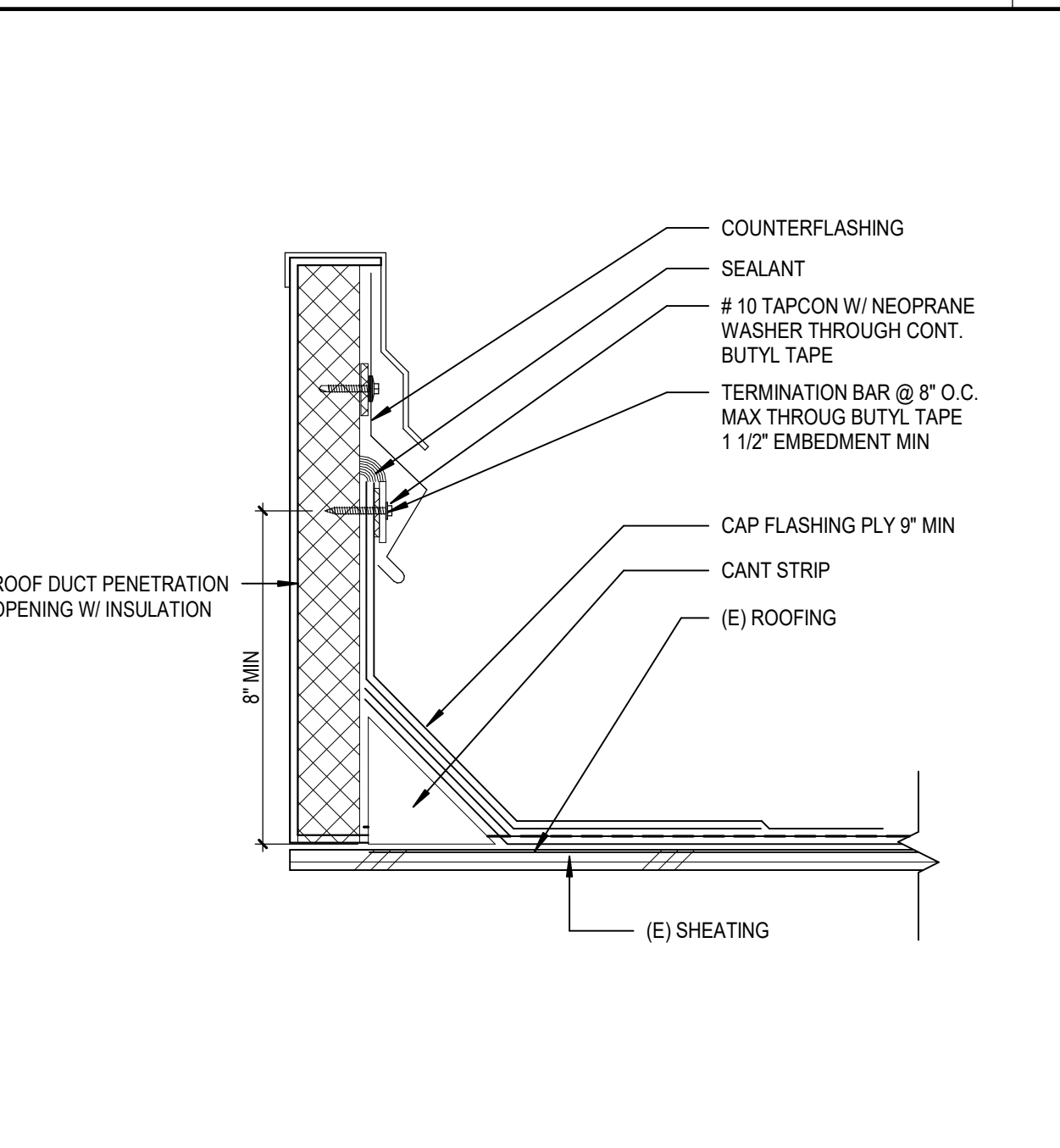
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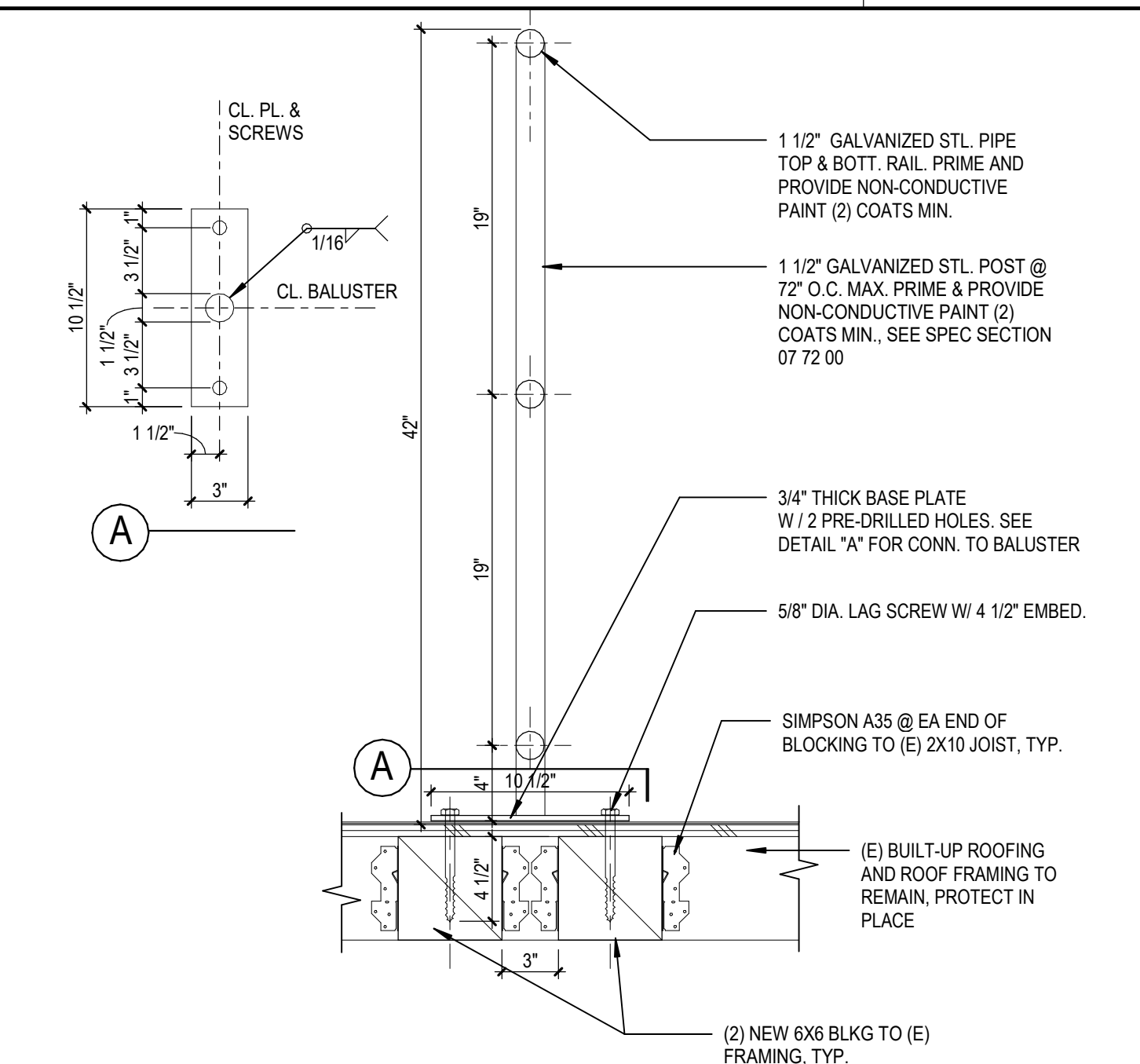
2B BUILDING B ROOF PLAN
SCALE: 1/8" = 1'-0"



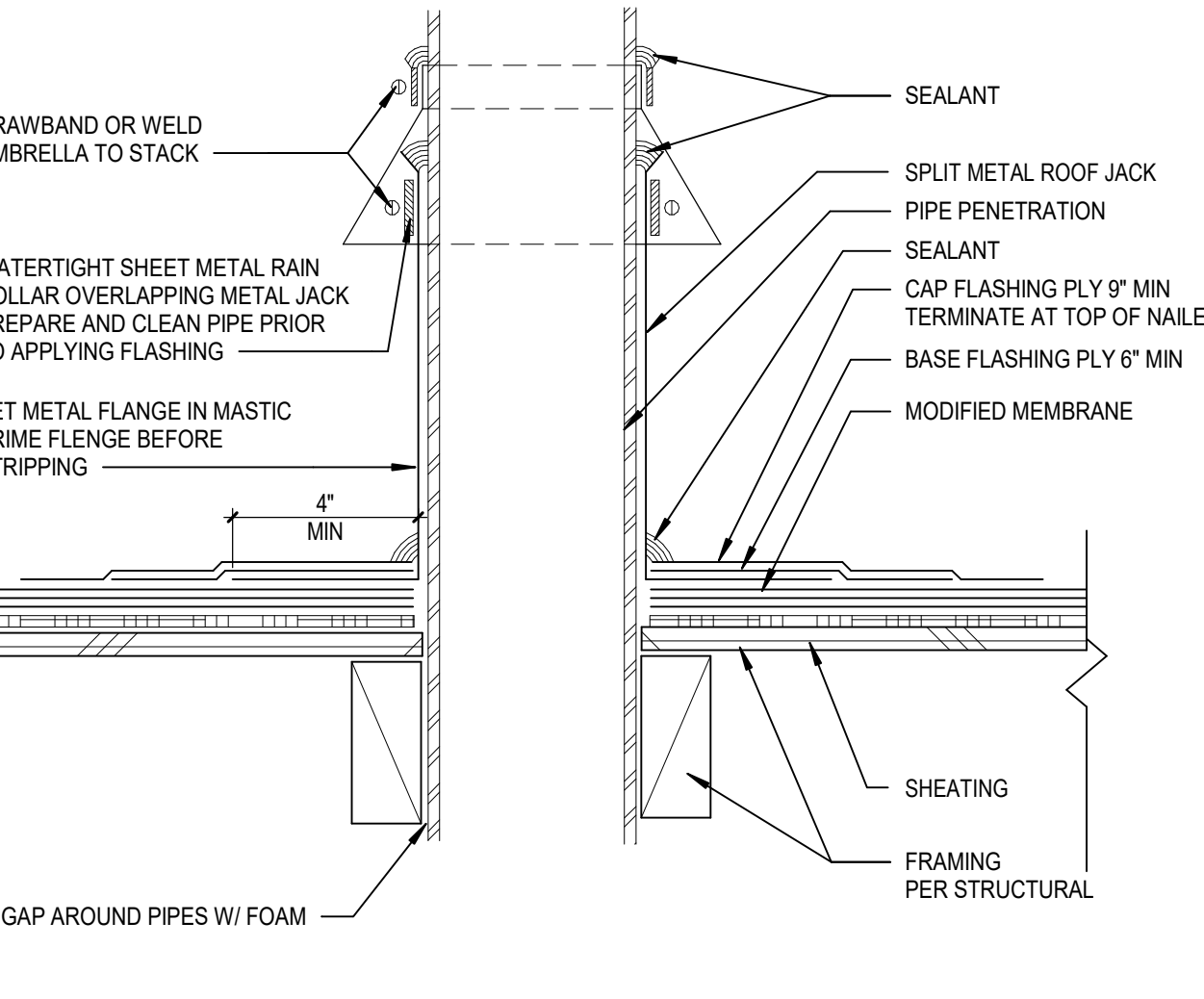
2A SISTER JOIST
SCALE: 1 1/2" = 1'-0"



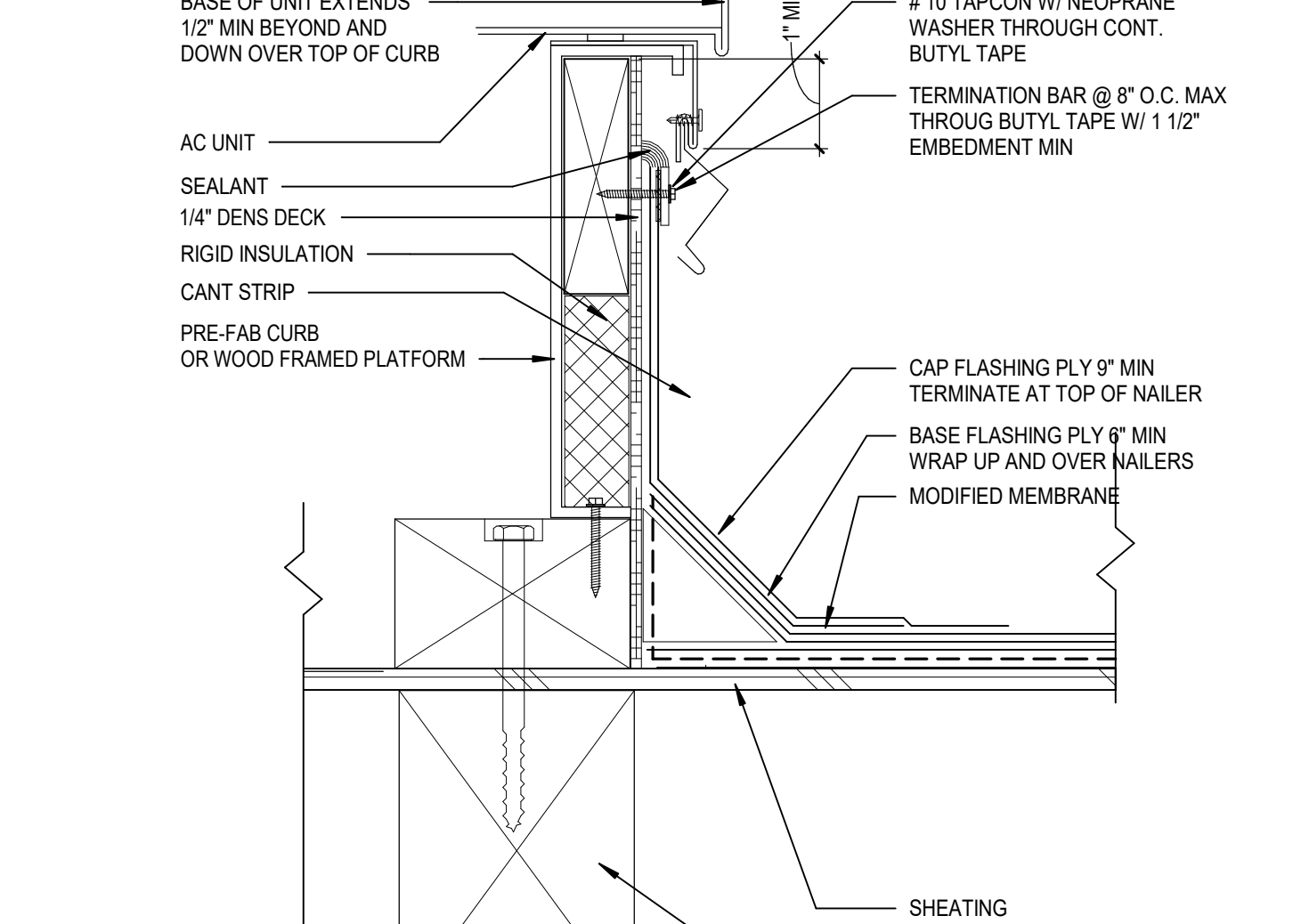
2C TYPICAL MECHANICAL DUCT PENETRATION FLASHING
SCALE: 3" = 1'-0"



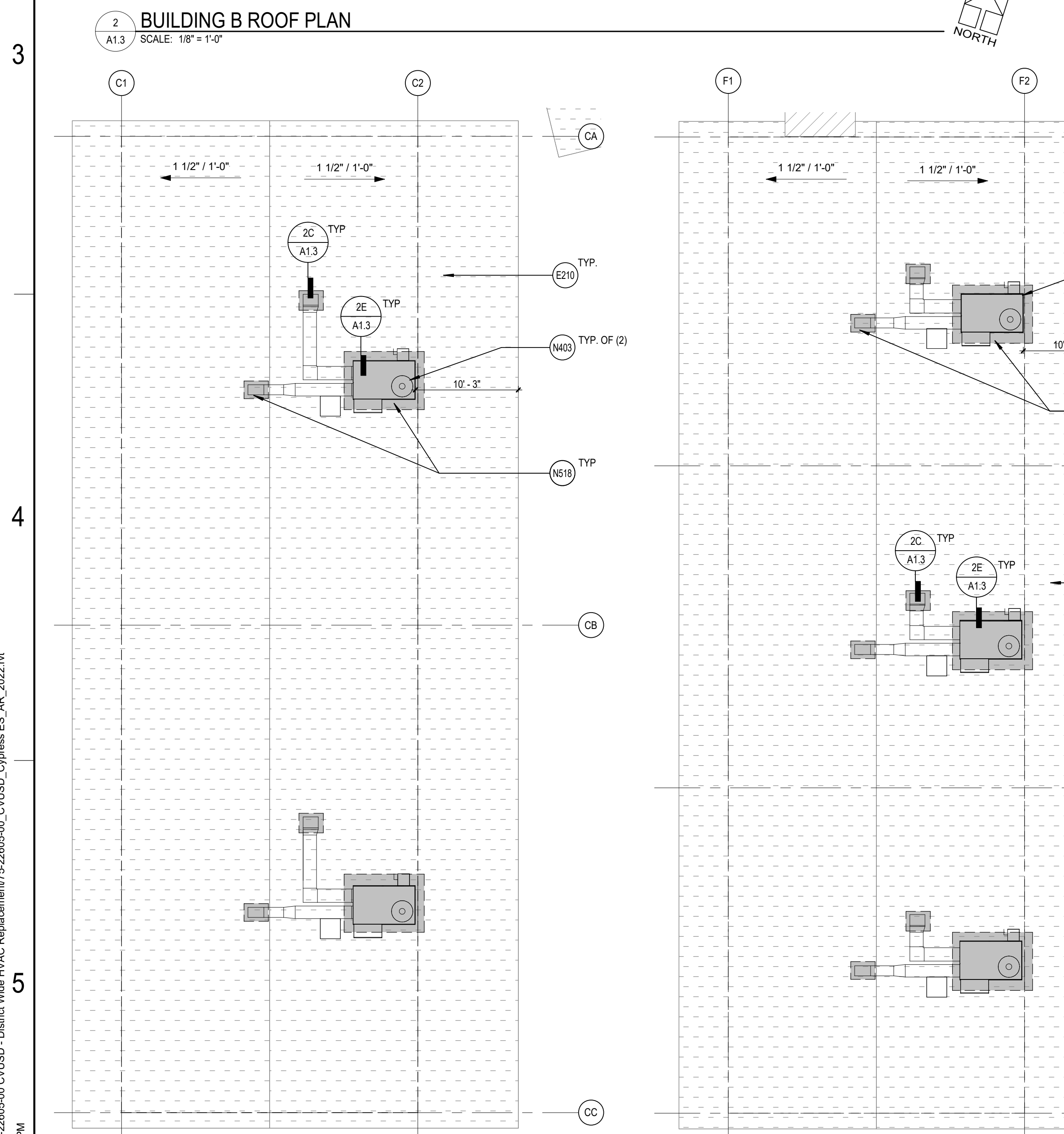
2D HVAC ROOF GUARDRAIL - WD FRAMING
SCALE: 1 1/2" = 1'-0"



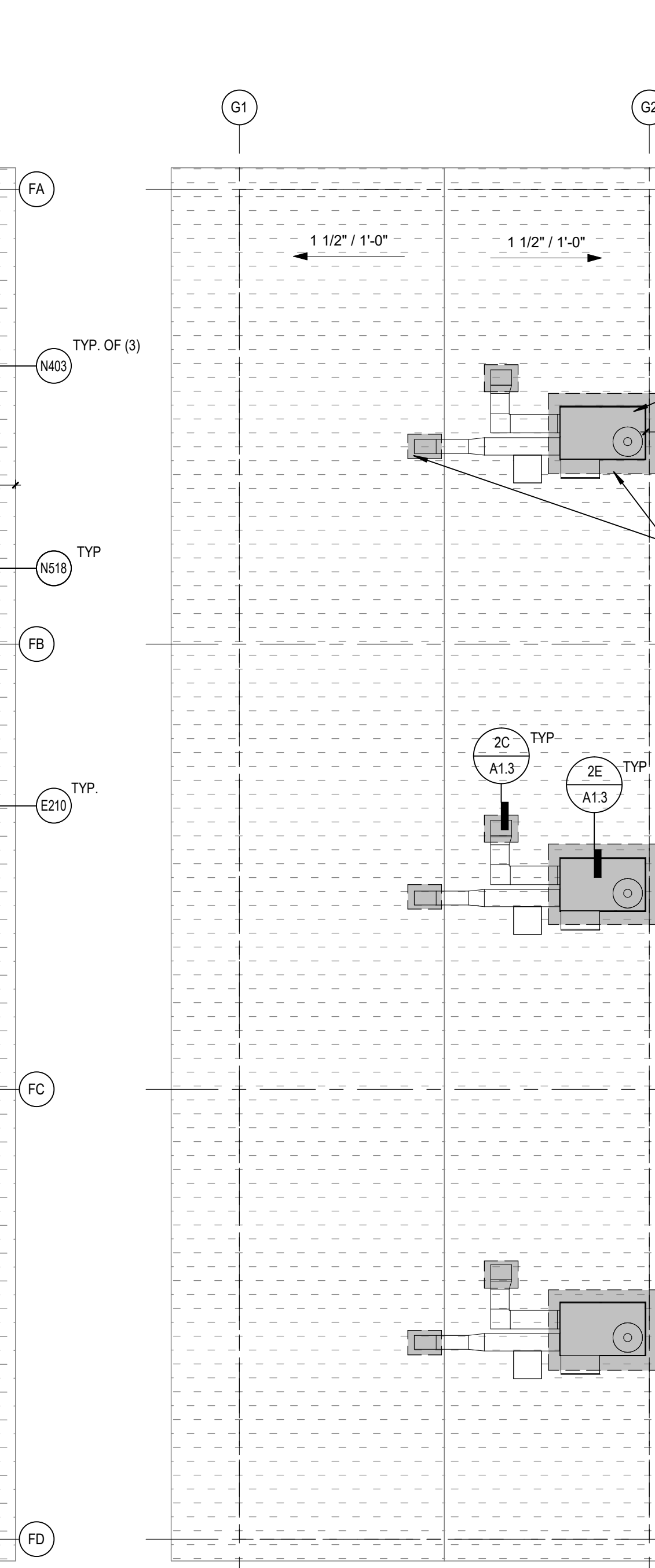
3B MOD BITUM - PIPE PENETRATION FLASHING
SCALE: 3" = 1'-0"



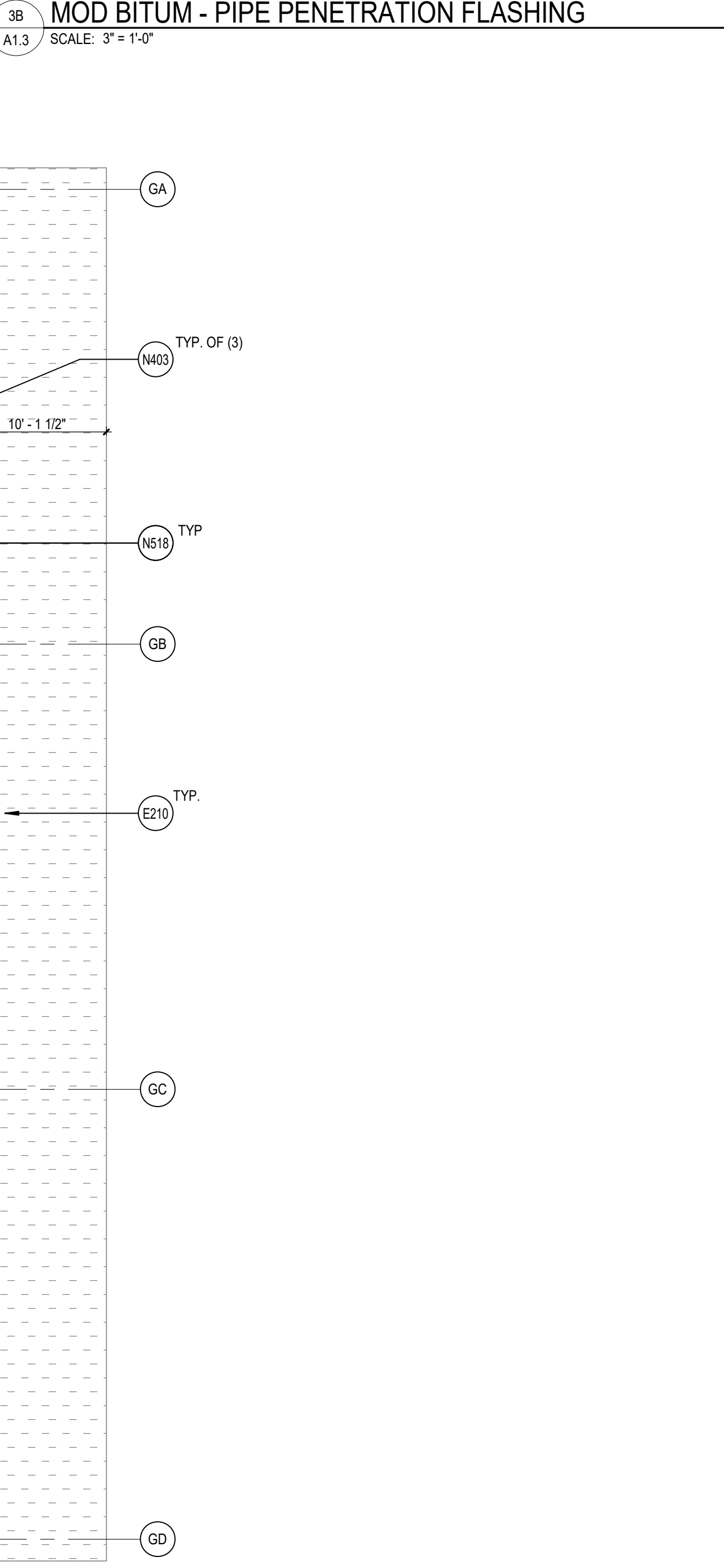
2E ACU CURB FLASHING
SCALE: 3" = 1'-0"



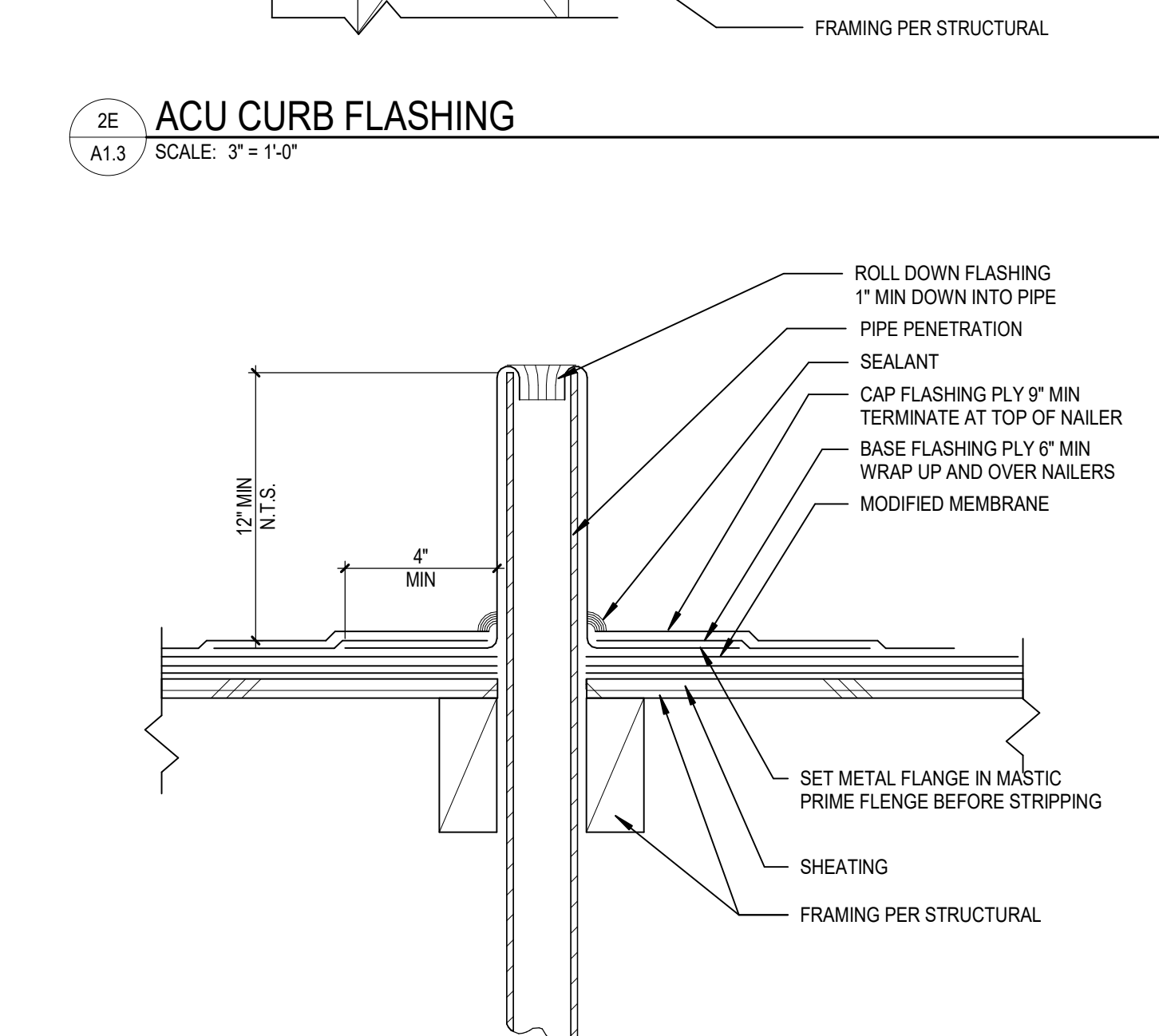
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SCALE: 1/8" = 1'-0"



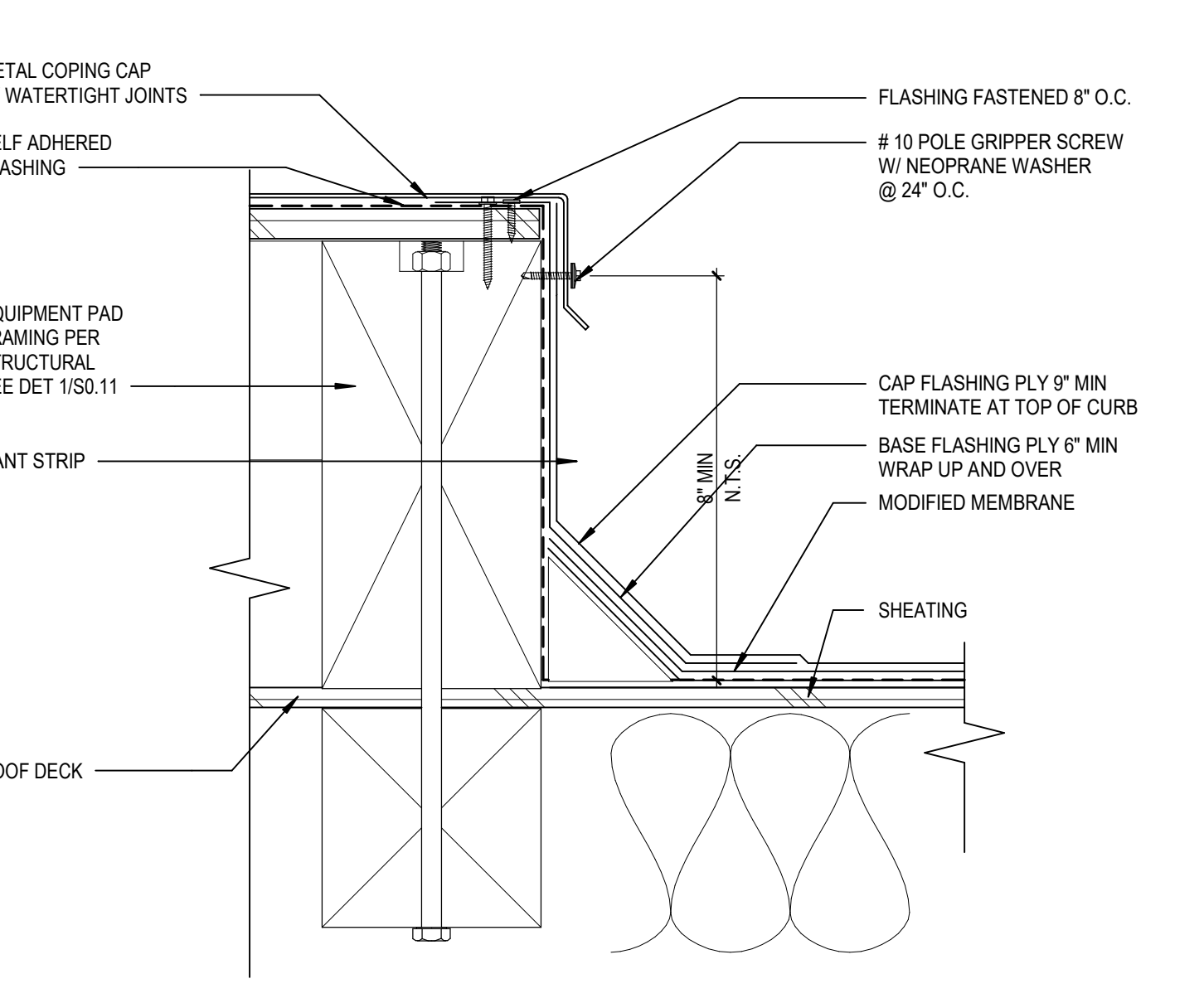
4 BUILDING F ROOF PLAN
SCALE: 1/8" = 1'-0"



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



2F MOD BITUM - VENT PIPE FLASHING
SCALE: 3" = 1'-0"



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

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
N518	(N) ROOF PATCHING IN AREA OF WORK

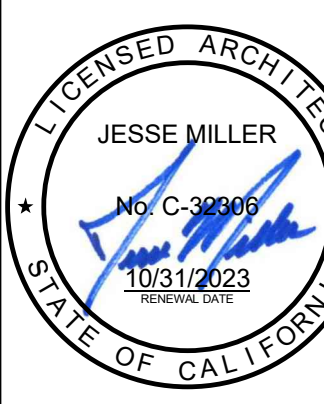
ROOF PLAN GENERAL NOTES

- 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:
- 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.
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 - 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.
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 - 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.
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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.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-12230 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/16/2023



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

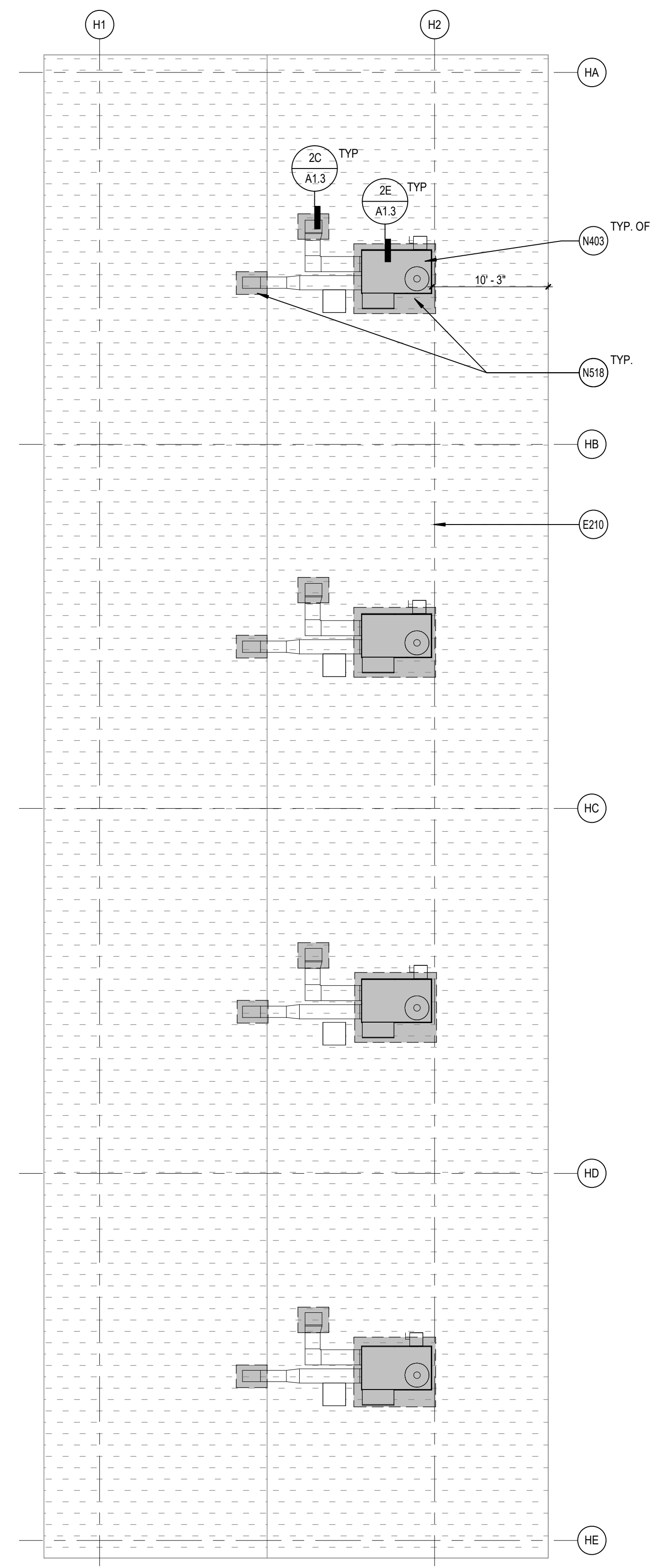
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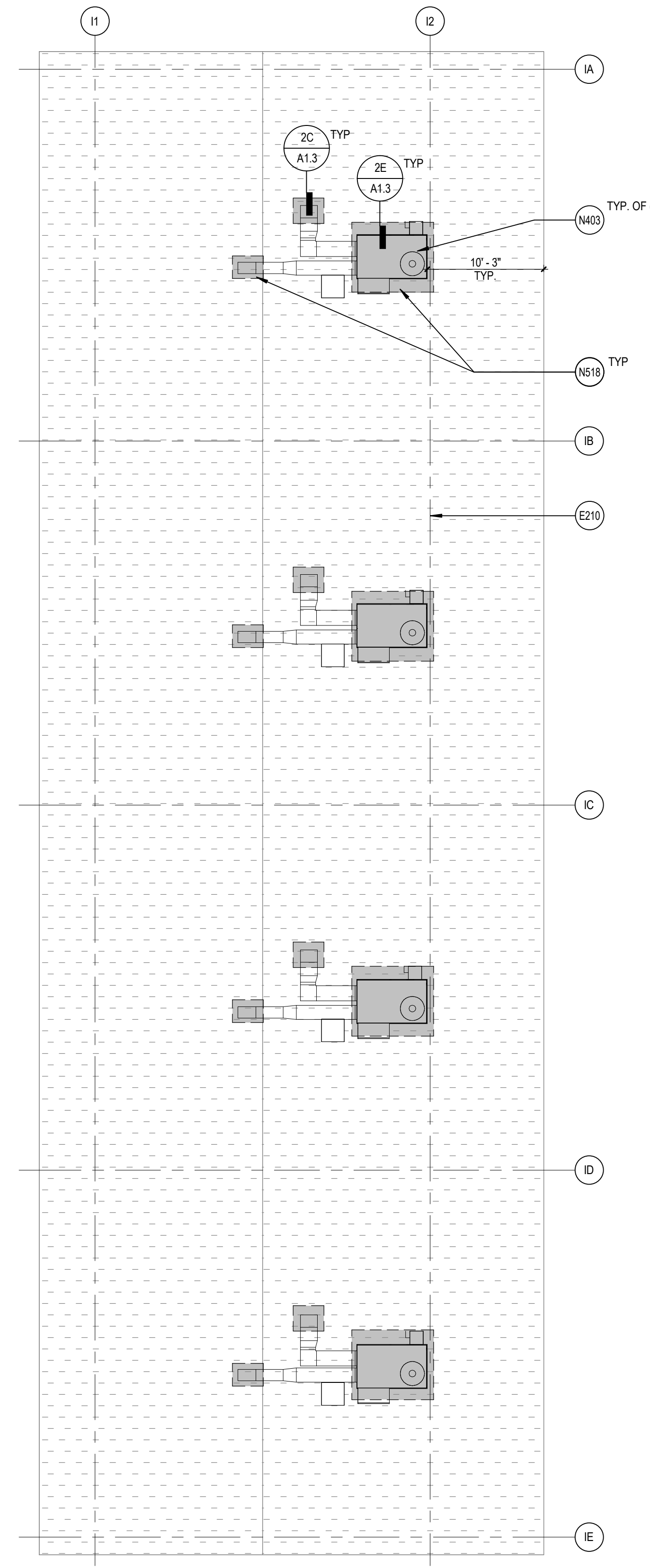
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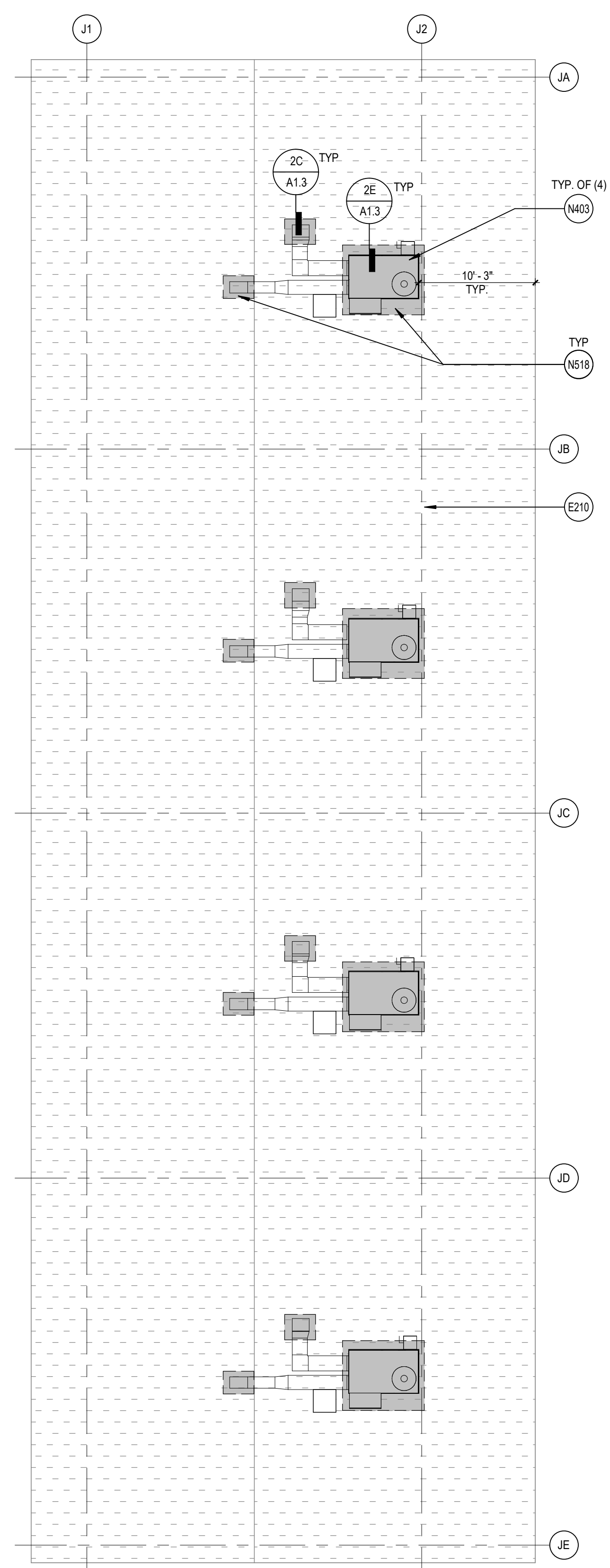
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 DIV. OF THE STATE ARCHITECT
 APP: 03-122230 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/16/2023



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. 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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REFERENCE KEYNOTES

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
E208	(E) ACCESS DOOR TO REMAIN
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.

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

- 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/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.
 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.

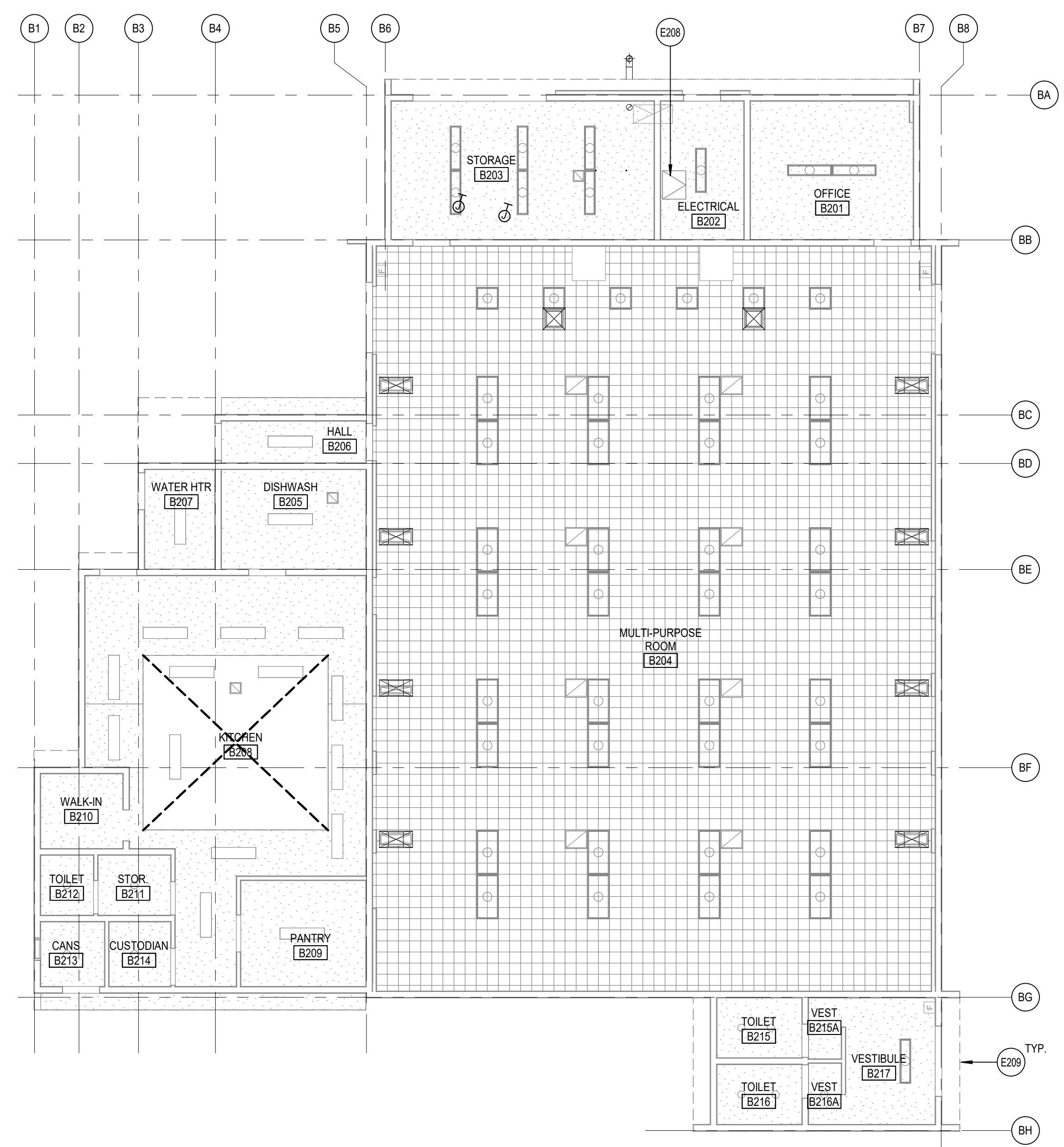


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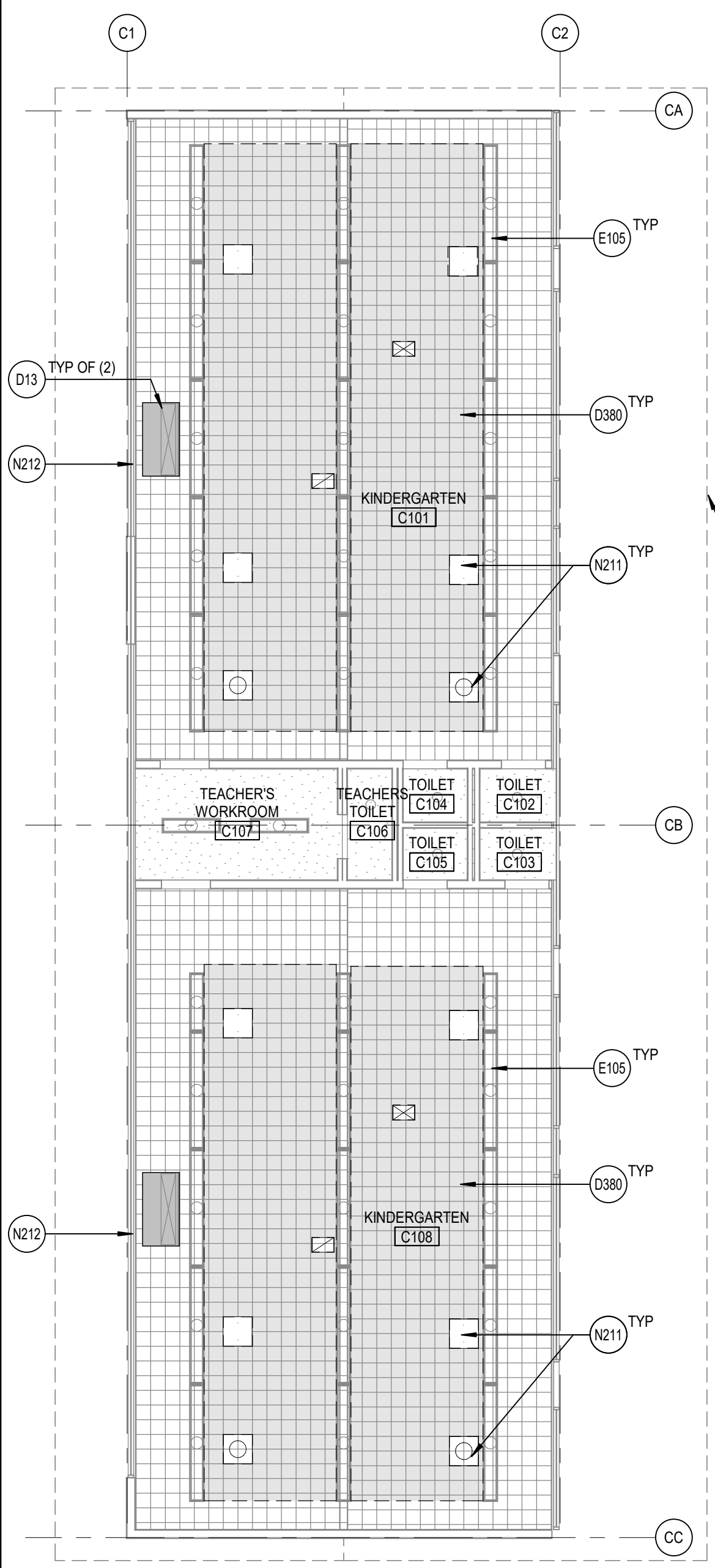
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 05/05/2022 REVISIONS

75-22605-00
 DSA AH03-122230
 DSA File #: 19-25
 BUILDING ABCFG
 REFLECTED CEILING PLANS

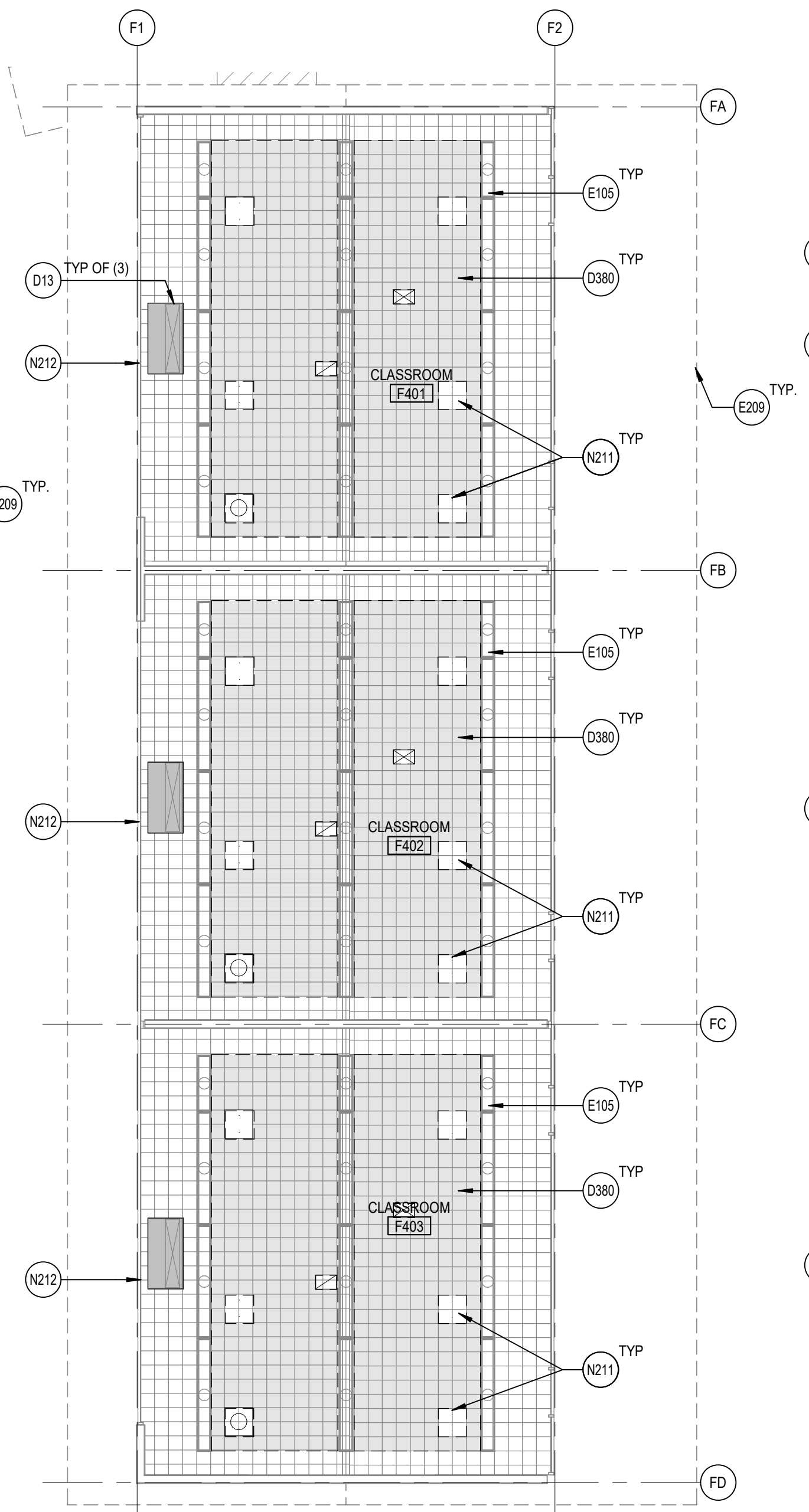
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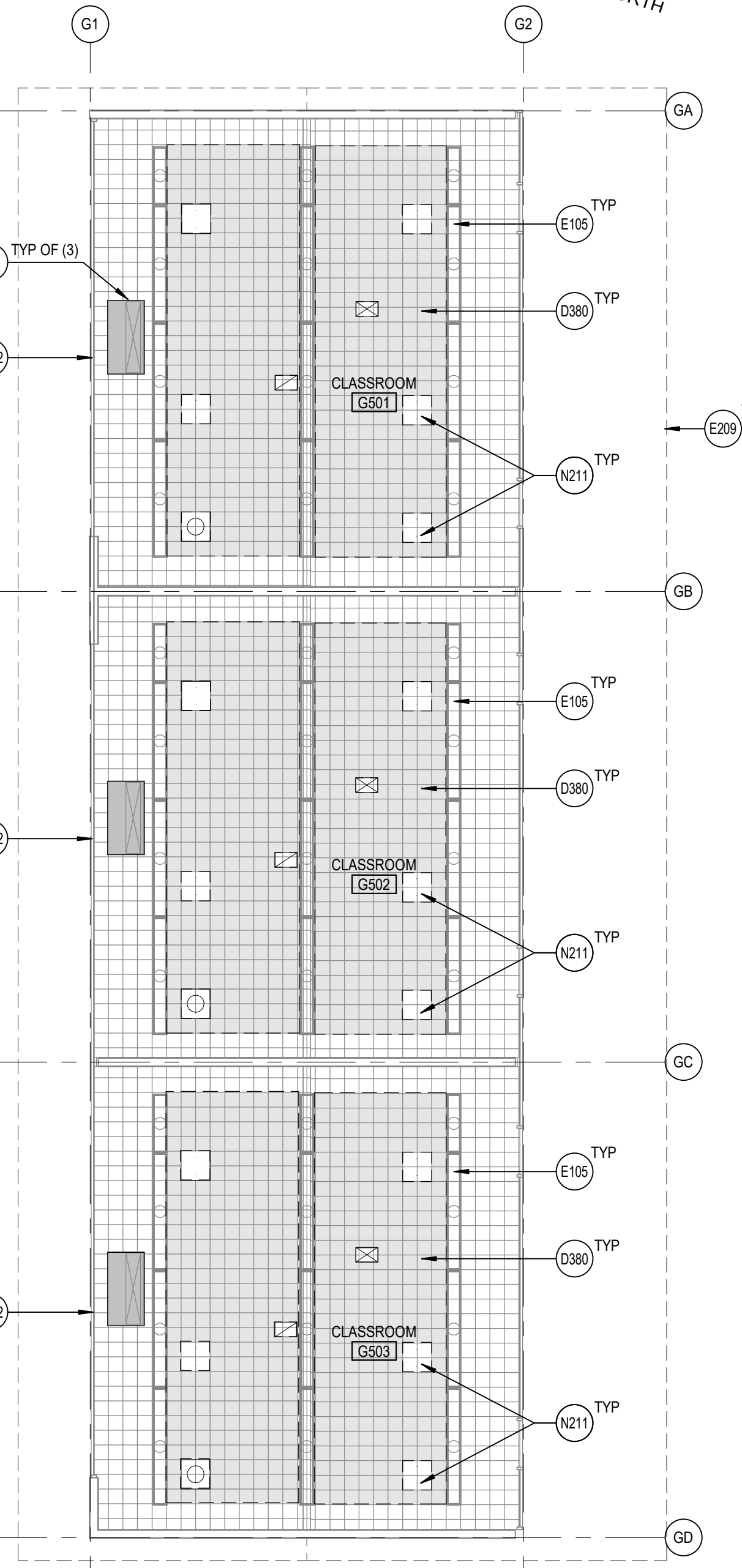
2 BUILDING B REFLECTED CEILING PLAN
 A3.1 SCALE: 1/8" = 1'-0"



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



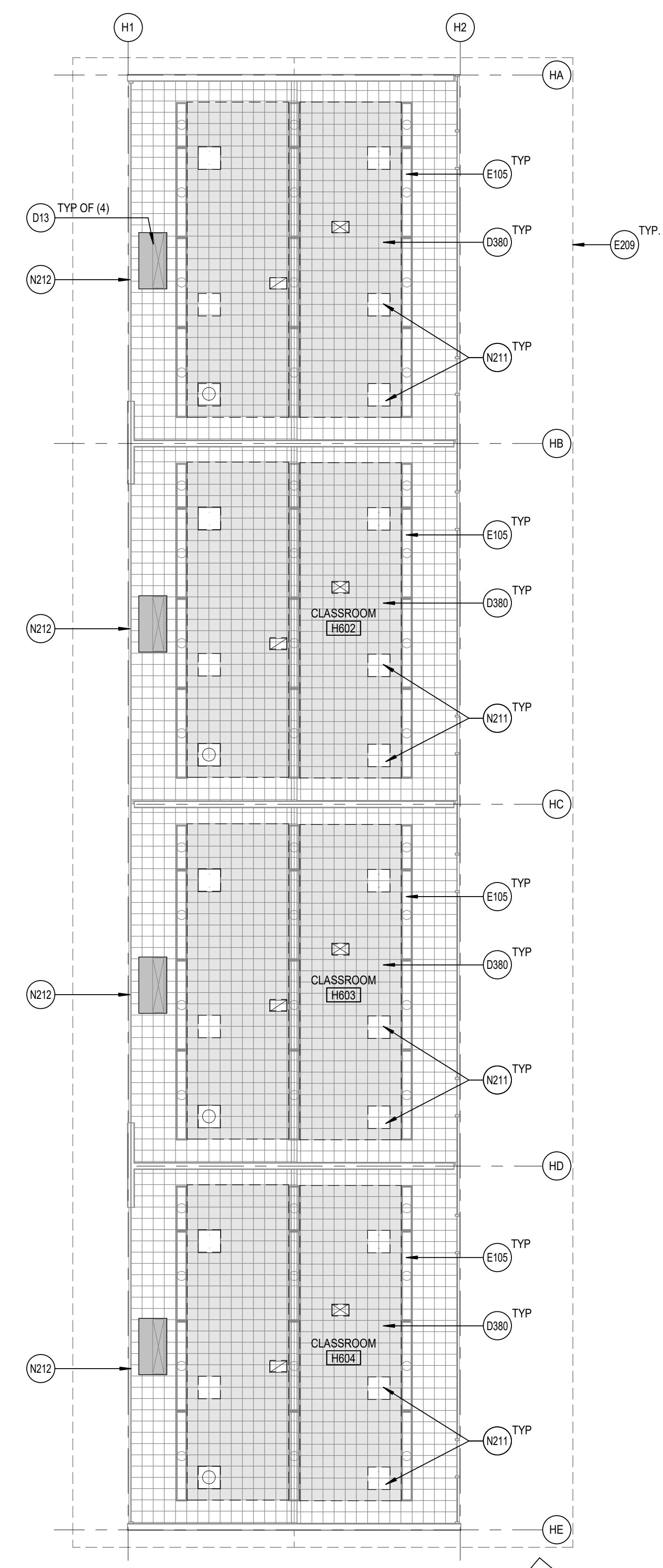
4 BUILDING F REFLECTED CEILING PLAN
 A3.1 SCALE: 1/8" = 1'-0"



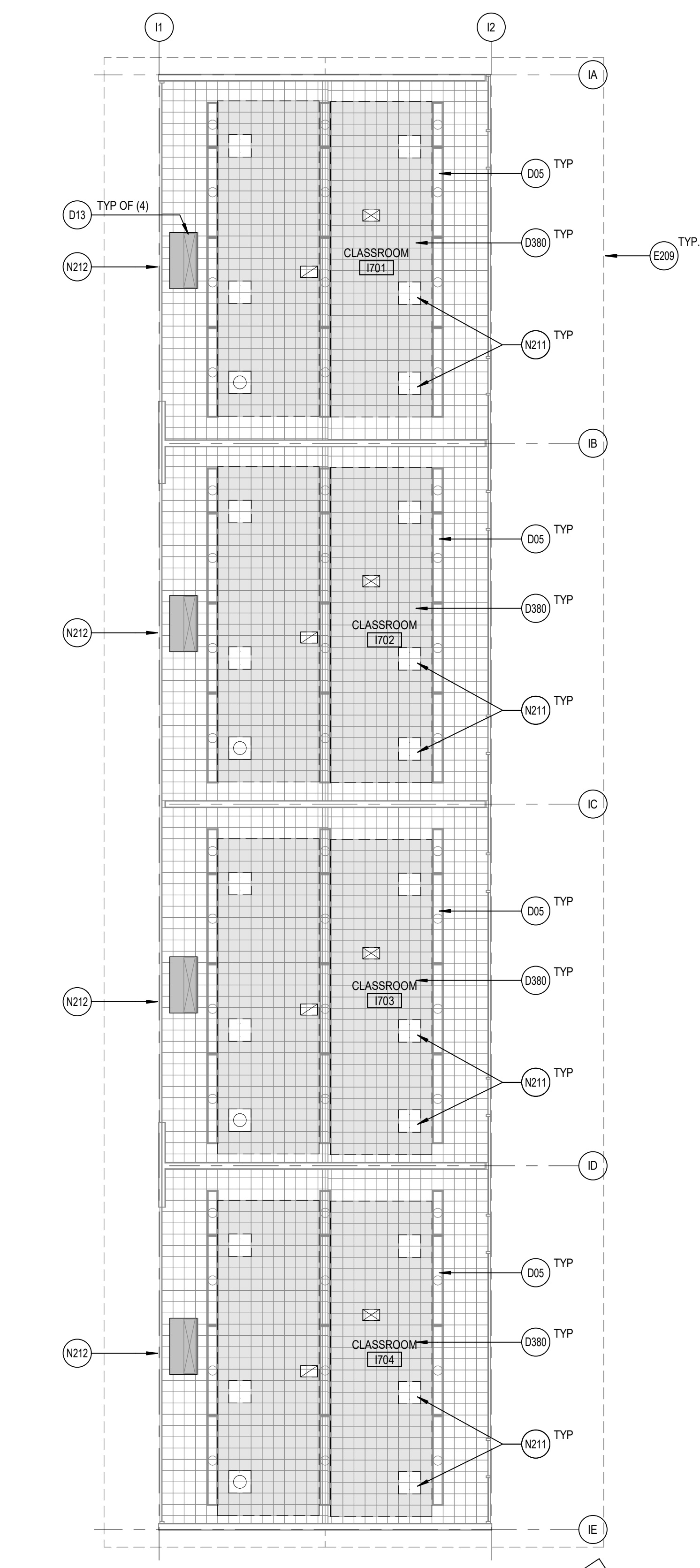
5 BUILDING G REFLECTED CEILING PLAN
 A3.1 SCALE: 1/8" = 1'-0"

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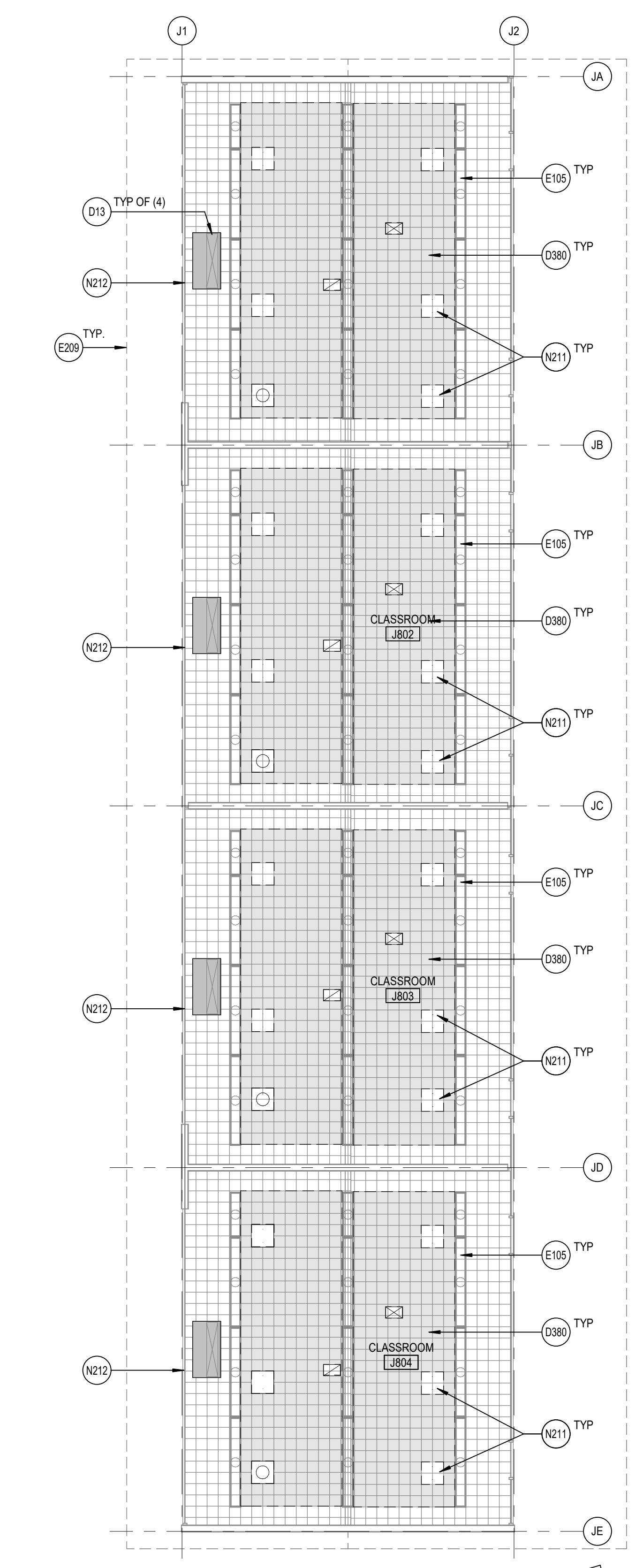
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2 BUILDING H REFLECTED CEILING PLAN
 A3.1B SCALE: 1/8" = 1'-0"



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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100% CONSTRUCTION DOCUMENTS
 05/05/2022 REVISIONS

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

BUILDING H/J REFLECTED CEILING PLANS

A3.1B

ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like (D) DEMOLISHED, (E) EXISTING, (R) RELOCATED, etc.

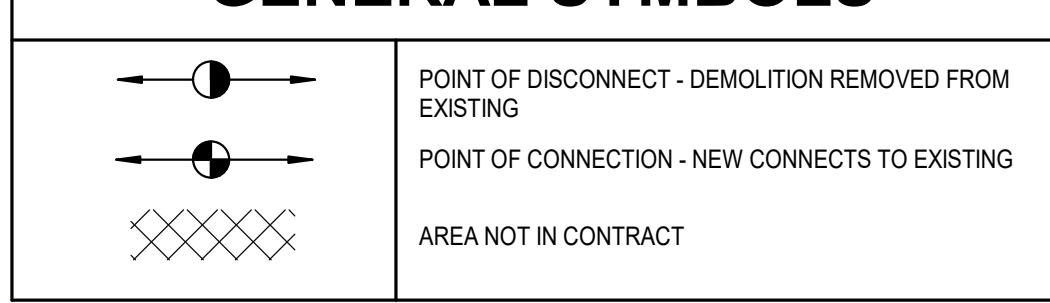
ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like HTWS HIGH TEMPERATURE HOT WATER SUPPLY, HUM HUMIDIFIER, etc.

SHEET INDEX

Table with 2 columns: Sheet Number and Description. Includes entries like M0.1 MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES, M1.1 OVERALL MECHANICAL SITE PLANS, etc.

GENERAL SYMBOLS



GENERAL NOTES

- 1 REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
2 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
3 THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS. REPLACE THE FILTERS AND BELTS. INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM.

GENERAL HVAC NOTES

- 1 SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
2 CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 48" AFF MAX. A MINIMUM OF 8" FROM LIGHT SWITCH.
3 REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
4 CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

MECHANICAL MANDATORY MEASURES

EQUIPMENT AND SYSTEMS EFFICIENCY
ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS SHALL COMPLY WITH THAT STANDARD.
PIPING, EXCEPT THOSE CONVEYING FLUIDS WITH A DESIGN OPERATING TEMPERATURE BETWEEN 60°F AND 105°F, OR WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER §110.1 OR §110.2, SHALL BE INSULATED IN ACCORDANCE WITH §120.3.
ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS ARE REQUIRED TO BE INSTALLED, SEALED, AND INSULATED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE (CMC) SECTIONS 601, 602, 603, 604, 605, AND ANSIS/MACH-008-2008 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE 3RD EDITION.
VENTILATION
CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE.
AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS.
GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
FANS USED FOR VENTILATION SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.
THE MINIMUM OUTDOOR AIR LISTED OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BLDG. DURING THE ONE HOUR PERIOD IMMEDIATELY BEFORE THE BLDG. IS NORMALLY OCCUPIED.
CONTROLS
EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO THE SUPPLY OF HEATING AND COOLING ENERGY WITHIN THAT ZONE §120.2(a). WHEN USED TO CONTROL HEATING, THE THERMOSTATIC CONTROL MUST BE ADJUSTABLE UP TO 55°F OR LOWER. FOR COOLING, THE THERMOSTATIC CONTROL MUST BE ADJUSTABLE UP TO 85°F OR HIGHER. WHEN USED TO CONTROL BOTH HEATING AND COOLING, THE THERMOSTATIC CONTROL MUST BE ADJUSTABLE FROM 55°F TO 85°F AND ALSO PROVIDE A DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS OR WEEKENDS, INCORPORATE AN AUTOMATIC HOLIDAY "SKIP" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION, AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICES PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.
SYSTEM WITH DDC TO THE §110.2(c) ARE ALSO REQUIRED TO HAVE AUTOMATIC DEMAND SHED CONTROLS.
EACH SPACE CONDITIONING SYSTEM MUST BE PROVIDED WITH CONTROLS THAT CAN AUTOMATICALLY SHUT OFF THE EQUIPMENT DURING UNOCCUPIED HOURS. WHEN SHUT DOWN, THE CONTROLS SHALL AUTOMATICALLY RESTART THE SYSTEM TO MAINTAIN A SETBACK THERMOSTAT SETPOINT. IF THE SYSTEM PROVIDES MECHANICAL HEATING AND SETPOINT COOLING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL COOLING.
THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (°F) AND ADJUSTABLE STOPS ACCESSIBLE ONLY BY AUTHORIZED PERSONNEL.

EQUIPMENT ANCHORAGE NOTE

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.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. 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.
A. 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.
B. 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 PRE-APPROVED INSTALLATION GUIDE (E.G., CSHPD 02M FOR 2019 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 CSHPD PRE-APPROVAL (OPM#) #043-13.

ACCEPTANCE TESTING

MANDATORY ACCEPTANCE TESTING PER TITLE 24, PART 8 SHALL BE AS FOLLOWS. AN AABC AGENCY SHALL ACT AS THE ACCEPTANCE AGENT AND PERFORM WORK REQUIRED IN THE FOLLOWING ACCEPTANCE TESTS AS DESCRIBED IN CHAPTER 13 OF THE 2019 NONRESIDENTIAL COMPLIANCE MANUAL. THIS SHALL INCLUDE FILLING OUT, SIGNING, AND SUBMITTING APPLICABLE FORMS LISTED HEREIN.
NRCA-MCH-02-A - OUTDOOR AIR ACCEPTANCE
NRCA-MCH-03-A - CONSTANT VOLUME, SINGLE ZONE, UNITARY AIR CONDITIONER AND HEAT PUMP SYSTEMS.
NRCA-MCH-04-A - AIR DISTRIBUTION SYSTEMS ACCEPTANCE
NRCA-MCH-05-A - AIR ECONOMIZER CONTROLS ACCEPTANCE
NRCA-MCH-06-A - DEMAND CONTROL VENTILATION SYSTEMS ACCEPTANCE
NRCA-MCH-07-A - SUPPLY FAN VFD ACCEPTANCE
NRCA-MCH-08-A - VALVE LEAKAGE TEST
NRCA-MCH-11-A - AUTOMATIC DEMAND SHED CONTROL ACCEPTANCE
NRCA-MCH-12-A - FAULT DETECTION & DIAGNOSTICS (FDD) FOR PACKAGED DIRECT EXPANSION UNITS
NRCA-MCH-13-A - AUTOMATIC FAULT DETECTION & DIAGNOSTICS (FDD) FOR AIR HANDLING UNITS & ZONE TERMINAL UNITS ACCEPTANCE
NRCA-MCH-16-A - SUPPLY AIR TEMPERATURE RESET CONTROLS ACCEPTANCE
NRCA-MCH-18-A - ENERGY MANAGEMENT CONTROL SYSTEM ACCEPTANCE

HVAC SYMBOLS

Table with 3 columns: Schematic, 3D, and Description. Lists symbols for various HVAC components like diffusers, grilles, registers, and dampers.

PIPING VALVES AND FITTINGS

Table with 3 columns: Schematic, 3D, and Description. Lists symbols for various piping components like valves, tees, elbows, and reducers.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-12230 INC.
REVIEWED FOR:
DATE: 02/16/2023



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

DSA Submitted Set
1/13/2023
REVISIONS

MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES

M0.1

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STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Table with columns for equipment tag, category, type, controls, and efficiency metrics (SEER, EER, COP).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

H. FAN SYSTEMS & AIR ECONOMIZERS Table with columns for system name, fan function, quantity, and design flow/pressure drop.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

C. COMPLIANCE RESULTS Table with columns for equipment tag, category, type, controls, and compliance status (COMPLIES).

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Table with columns for equipment tag, category, type, controls, and efficiency metrics (SEER, EER, COP).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

H. FAN SYSTEMS & AIR ECONOMIZERS Table with columns for system name, fan function, quantity, and design flow/pressure drop.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Table with columns for equipment tag, category, type, controls, and efficiency metrics (SEER, EER, COP).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Table with columns for equipment tag, category, type, controls, and efficiency metrics (SEER, EER, COP).

G. PUMPS This section does not apply to this project.

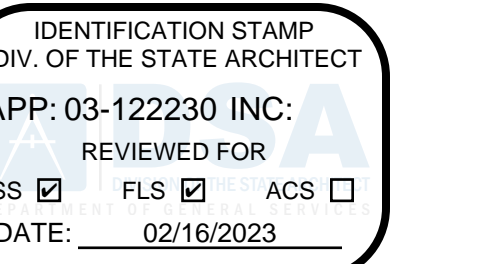
H. FAN SYSTEMS & AIR ECONOMIZERS Table with columns for system name, fan function, quantity, and design flow/pressure drop.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: 2019.1.003 Report Version: 2019.1.003 Registration Provider: Energysoft

STATE OF CALIFORNIA Mechanical Systems... CERTIFICATE OF COMPLIANCE... Project Name: CVUSD Cypress Report Page: 351 Cypress St Date Prepared: 8/1/2022

H. FAN SYSTEMS & AIR ECONOMIZERS Table with columns for system name, fan function, quantity, and design flow/pressure drop.

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

DSA Submitted Set 1/13/2023 REVISIONS

75-22605-00 TITLE 24 COMPLIANCE

M0.2

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Mechanical Systems
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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	RTU-H2	Economizer ¹	NA: <=54 kbtu/h cooling	Economizer Controls	Designed per §140.4(c) and (m)	System Fan Type	Constant Volume
O1	O2	O3	O4	O5	O6	O7	O8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1200	BHP	0.91		
Total System Design Supply Airflow (CFM):			1200	Total System Design (BHP):	0.91	Maximum System Fan Power (BHP):	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft Schema Version: rev 20200601
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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	RTU-J3	Economizer ¹	NA: <=54 kbtu/h cooling	Economizer Controls	Designed per §140.4(c) and (m)	System Fan Type	Constant Volume
O1	O2	O3	O4	O5	O6	O7	O8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1200	BHP	0.91		
Total System Design Supply Airflow (CFM):			1200	Total System Design (BHP):	0.91	Maximum System Fan Power (BHP):	

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.3(a) and will be documented on the NRCC-PRC-E document.
² The unit used for HP must be consistent for all fans within a system.

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Registration Provider: Energysoft Schema Version: rev 20200601
Report Generated: 2022-08-01 11:44:41

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

System Name	FCU/CU-B1	System Design OA CFM Airflow ¹	1500	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel)	
O1	O2	O3	O4	O5	O6	O7	
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/toilets	# of people	Required Min OA CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)3 ⁶
MPR	Assembly-multuse	3536		100	1500	0	DCV Provided per §120.1(d)(4) NA: Not required space type
Total System Required Min OA CFM			1500	18	18	Yes	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	RTU-I1	Economizer ¹	NA: <=54 kbtu/h cooling	Economizer Controls	Designed per §140.4(c) and (m)	System Fan Type	Constant Volume
O1	O2	O3	O4	O5	O6	O7	O8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1200	BHP	0.91		
Total System Design Supply Airflow (CFM):			1200	Total System Design (BHP):	0.91	Maximum System Fan Power (BHP):	

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §141.0(b)(2) for altered space conditioning systems.

System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b) & (c) ¹ §120.2(a)(b) & (c) ²	Shut-Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(l)
O1	O2	O3	O4	O5	O6	O7	O8	O9
FCU/CU-B1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-C1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-C2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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J. VENTILATION AND INDOOR AIR QUALITY

System Name	RTU-C2	System Design OA CFM Airflow ¹	225	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel)	
O1	O2	O3	O4	O5	O6	O7	
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/toilets	# of people	Required Min OA CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)3 ⁶
Classroom	Lecture/postsecondary classroom	1240		15	225	0	DCV Provided per §120.1(d)(4) NA: Not required space type
Total System Required Min OA CFM			225	18	18	Yes	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	RTU-I4	Economizer ¹	NA: <=54 kbtu/h cooling	Economizer Controls	Designed per §140.4(c) and (m)	System Fan Type	Constant Volume
O1	O2	O3	O4	O5	O6	O7	O8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1200	BHP	0.91		
Total System Design Supply Airflow (CFM):			1200	Total System Design (BHP):	0.91	Maximum System Fan Power (BHP):	

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L. SYSTEM CONTROLS

RTU-H4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
O1	O2	O3	O4	O5	O6	O7	O8	O9
RTU-H1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
² Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset. Exempt because zones compliant with §140.4(l); EXCEPTION 1 to §140.4(l).

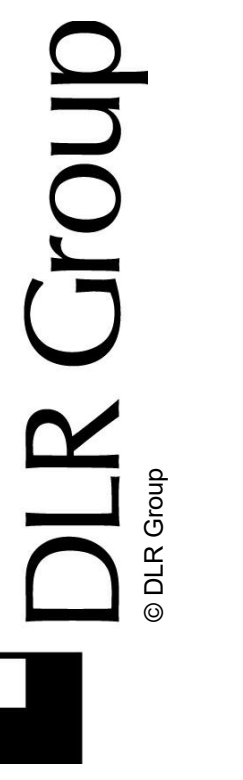
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft Schema Version: rev 20200601
Report Generated: 2022-08-01 11:44:41

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J. VENTILATION AND INDOOR AIR QUALITY

System Name	RTU-G2	System Design OA CFM Airflow ¹	225	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel)	
O1	O2	O3	O4	O5	O6	O7	
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/toilets	# of people	Required Min OA CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)3 ⁶
Classroom	Lecture/postsecondary classroom	905		15	225	0	DCV Provided per §120.1(d)(4) NA: Not required space type
Total System Required Min OA CFM			225	18	18	Yes	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft Schema Version: rev 20200601
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Cypress Elementary School
COVINA VALLEY USD
351 CYPRESS ST., COVINA, CA 91723

DSA Submitted Set
1/13/2023 REVISIONS

75-22605-00
TITLE 24 COMPLIANCE

M0.3

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Audodesk Docs / 75-22605-00 CVUSD - District Wide HVAC Replacement/75-22605-00 CVUSD - Cypress ES MEP 2022 v1

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5

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE NRC-MCH-E
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L. DISTRIBUTION (DUCTWORK and PIPING)
The answers to the questions below apply to the following duct systems: RTU-J3 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/ unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems: RTU-J4 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/ unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-11-A Automatic Demand Shed Controls	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
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M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Field Inspector	
	Pass	Fail
NRCA-MCH-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-05-A - Air Economizer Controls	RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRC-MCH-E
Project Name: CVUSD Cypress | Report Page: (Page 44 of 47)
Project Address: 351 Cypress St | Date Prepared: 8/1/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-16-A Supply Air Temperature Reset Controls	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRC-MCH-E
Project Name: CVUSD Cypress | Report Page: (Page 39 of 47)
Project Address: 351 Cypress St | Date Prepared: 8/1/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRC-MCH-E
Project Name: CVUSD Cypress | Report Page: (Page 42 of 47)
Project Address: 351 Cypress St | Date Prepared: 8/1/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.102.3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

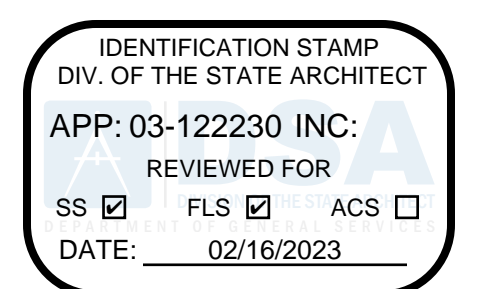
CERTIFICATE OF COMPLIANCE NRC-MCH-E
Project Name: CVUSD Cypress | Report Page: (Page 45 of 47)
Project Address: 351 Cypress St | Date Prepared: 8/1/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-18-A Energy Management Control Systems	FCU/CU-B1A & B1B; RTU-C1 CARRIER 3-TON; RTU-C2 CARRIER 3-TON; RTU-G1 CARRIER 3-TON; RTU-G2 CARRIER 3-TON; RTU-G3 CARRIER 3-TON; RTU-F1 CARRIER 3-TON; RTU-F2 CARRIER 3-TON; RTU-F3 CARRIER 3-TON; RTU-H1 CARRIER 3-TON; RTU-H2 CARRIER 3-TON; RTU-H3 CARRIER 3-TON; RTU-H4 CARRIER 3-TON; RTU-I1 CARRIER 3-TON; RTU-I2 CARRIER 3-TON; RTU-I3 CARRIER 3-TON; RTU-I4 CARRIER 3-TON; RTU-J1 CARRIER 3-TON; RTU-J2 CARRIER 3-TON; RTU-J3 CARRIER 3-TON; RTU-J4 CARRIER 3-TON;	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41
Schema Version: rev 20200601

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.



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

DSA Submitted Set
1/13/2023
REVISIONS

75-22605-00
TITLE 24
COMPLIANCE

M0.6

Audodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress_ES_MEP_2022.v4
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STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E	
Project Name:	CVUSD Cypress	Report Page:	(Page 46 of 47)
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	Yes
Mandatory Measures Note Block	M-Sheets

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003
 Schema Version: rev 20200601
 Registration Provider: Energysoft
 Report Generated: 2022-08-01 11:44:41

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E	
Project Name:	CVUSD Cypress	Report Page:	(Page 47 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Abhijit Rege	Documentation Author Signature: <i>[Signature]</i>
Company: DLR Group	Signature Date: 2022-08-01
Address: 930 SABB-E6C4-7653-2F72-AB2E-9671-A2D4-7AD7-DA3E-A59B-8F3B-18A3-B8BE-17FE	CEA/HERS Certification Identification (if applicable):
City/State/Zip: (949)-701-8533	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

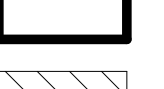
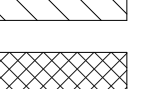

Responsible Designer Name: TONG FANG ZHAO	Responsible Designer Signature: <i>[Signature]</i>
Company: DLR GROUP	Date Signed: 2022-08-01
Address: 700 FLOWER STREET	License: M-34291
City/State/Zip: LOS ANGELES CA 90017	Phone: 213-444-0610

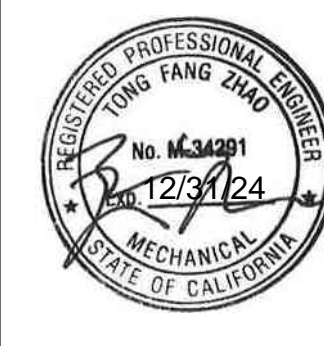
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003
 Schema Version: rev 20200601
 Registration Provider: Energysoft
 Report Generated: 2022-08-01 11:44:41

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

75-22605-00

OVERALL MECHANICAL SITE PLANS

M1.1

1
2
3
4
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A

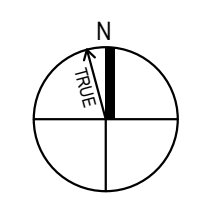
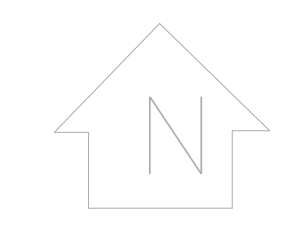
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C

D

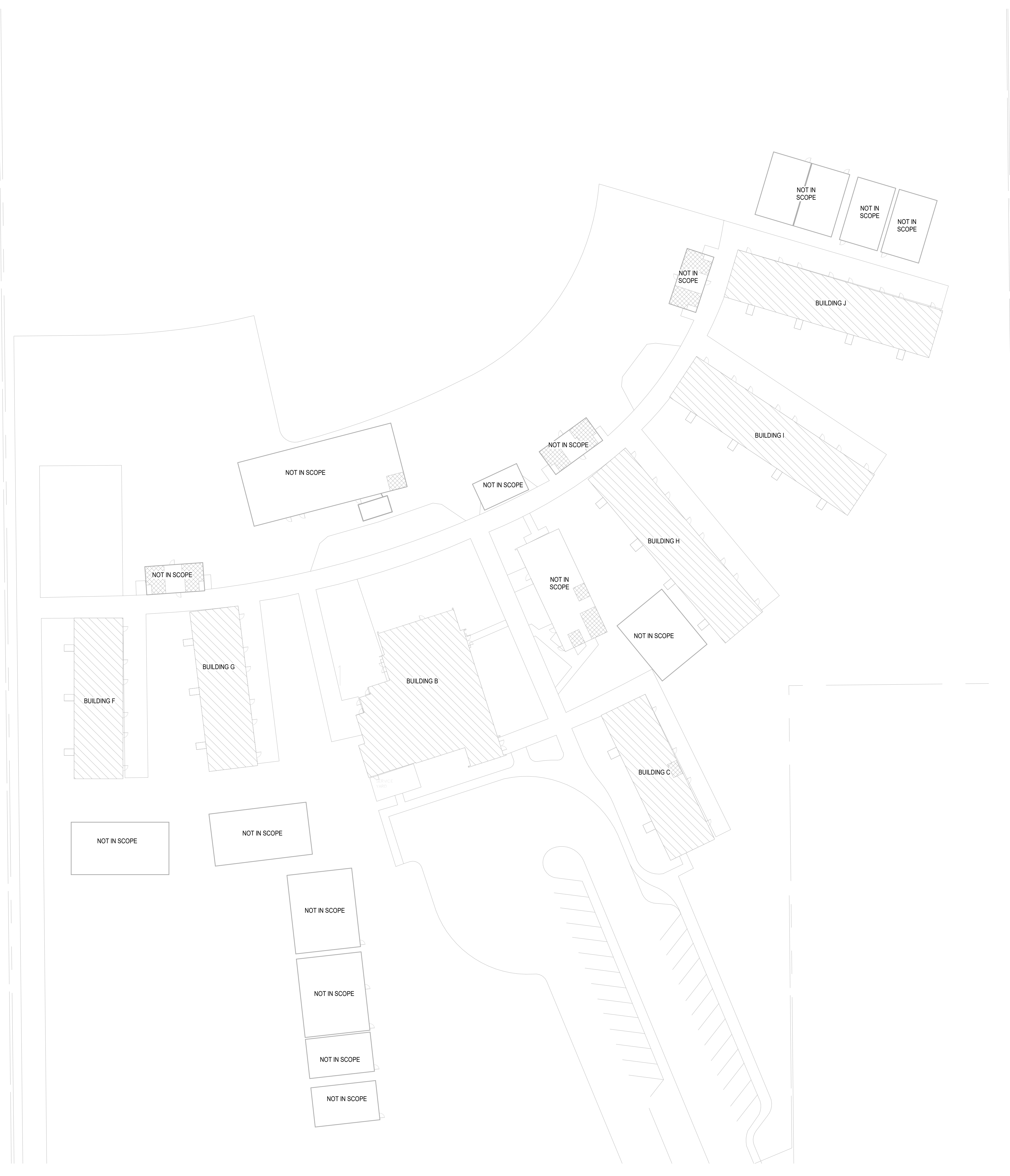
E

F



OVERALL MECHANICAL FLOOR PLANS

SCALE: 1" = 30'-0"



DEMO NOTES

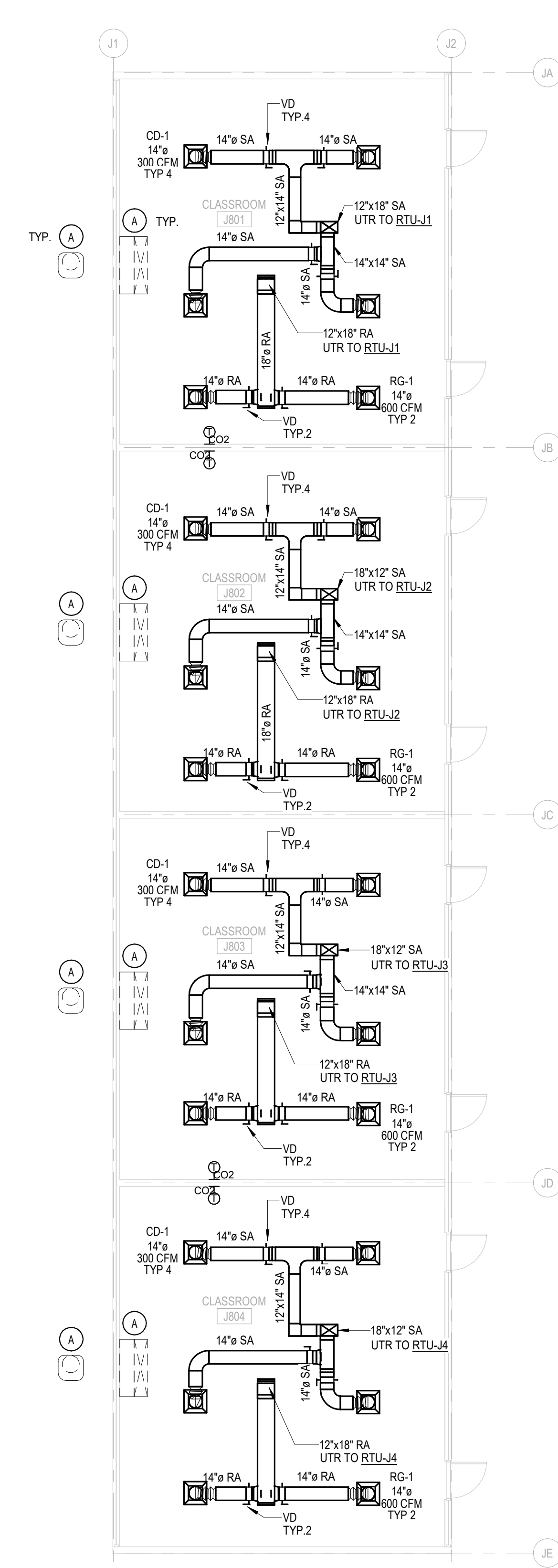
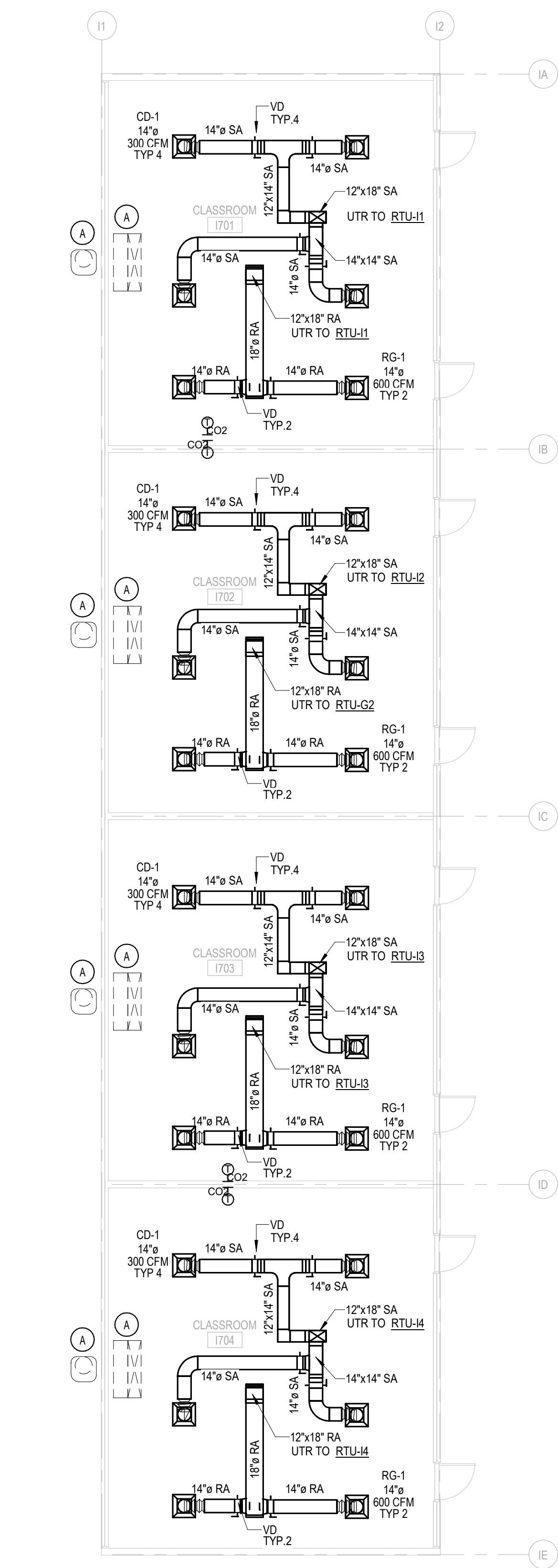
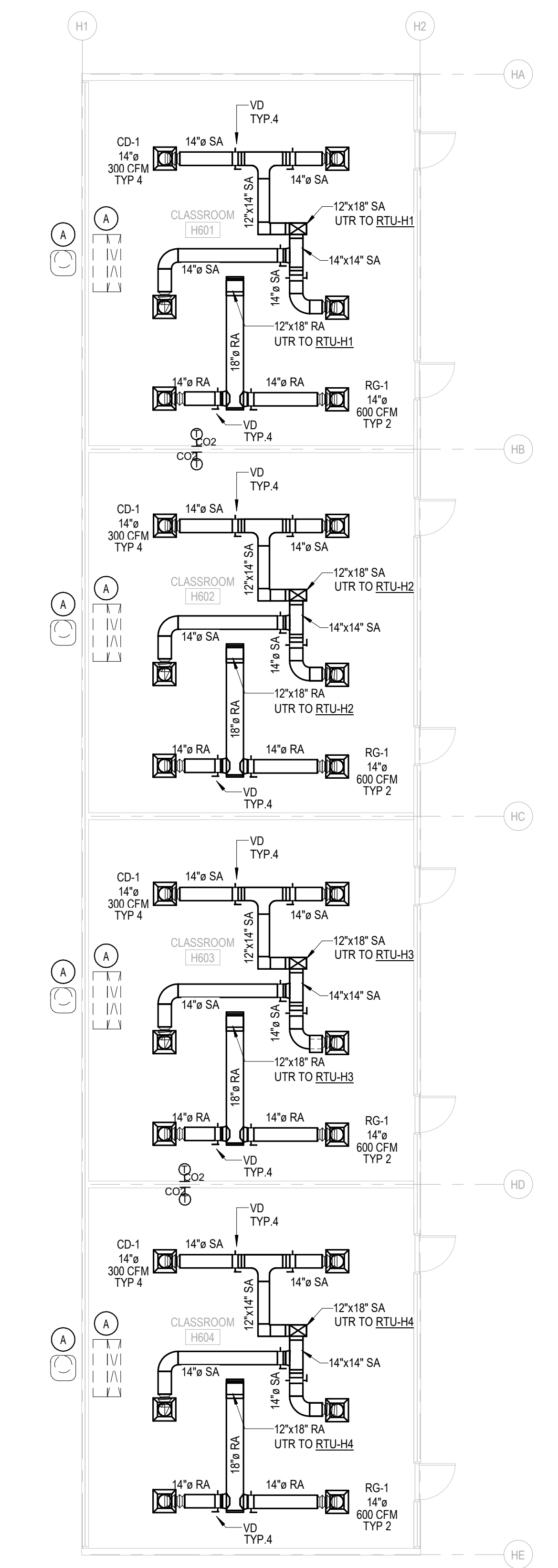
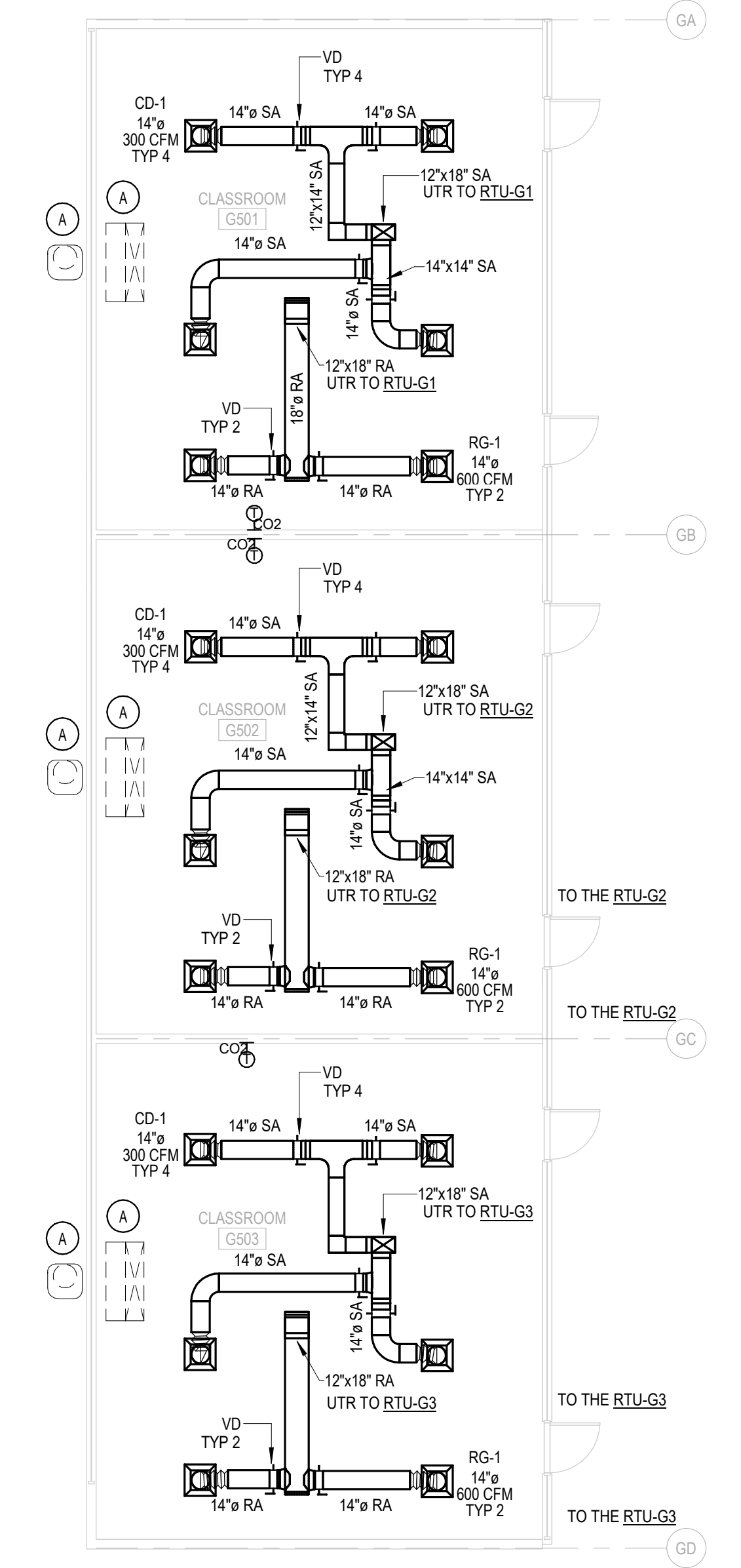
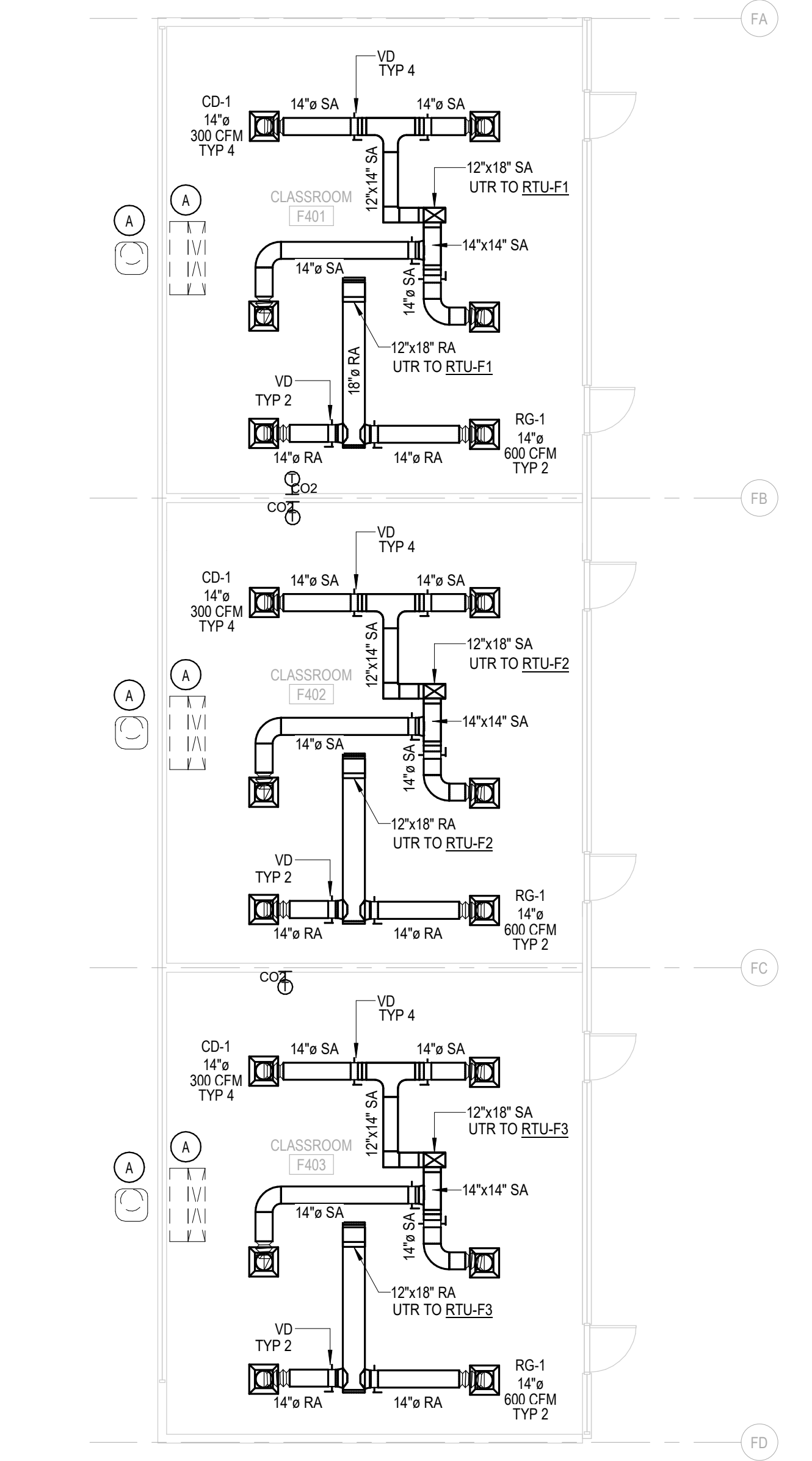
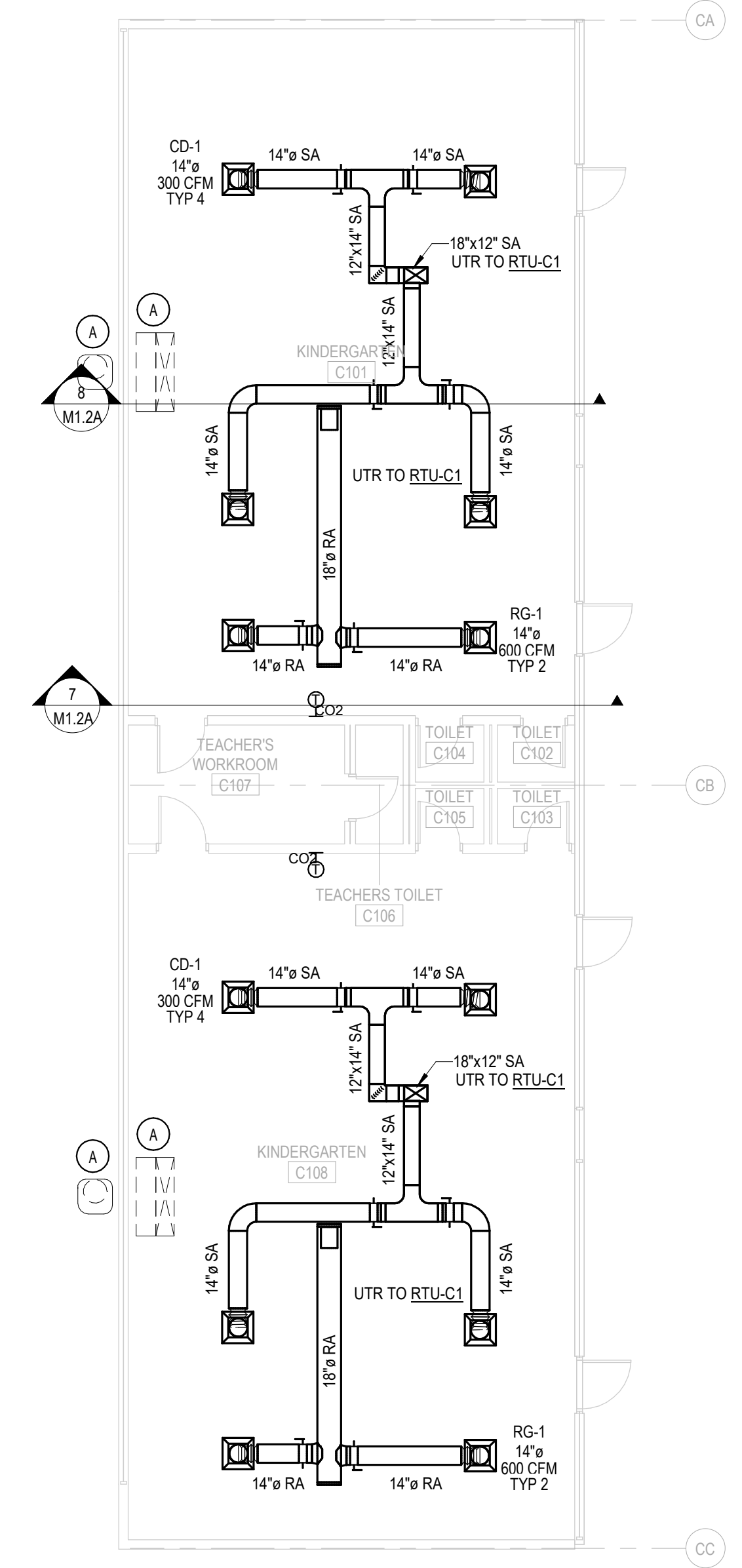
A. DEMOLISH EXISTING OUTDOOR CONDENSING UNIT AND INDOOR FANCOIL UNITS ALONG WITH RELATED CONCRETE PADS, PIPING, CONDUIT, FENCE, SUPPORTS AND OTHER APPURTENANCES. REFER TO ARCH PLANS OR SPECS FOR FILLING HOLES AND MATCHING WALL TYP.

GENERAL NOTES

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

IDENTIFICATION STAMP
APP: 03-122230 INC.
REVIEWED FOR
DATE: 02/16/2023

1
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4



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

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REVISIONS

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MECHANICAL FLOOR PLANS

M1.1A

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES MEP_2023.v1
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DEMO NOTES

A DEMO (E) EQUIPMENT AND SA & RA DUCTWORK IN THE SCOPE AREA UP TO POC, ALONG WITH ALL THE SUPPORTS, PIPING, AND OTHER COMPONENTS.

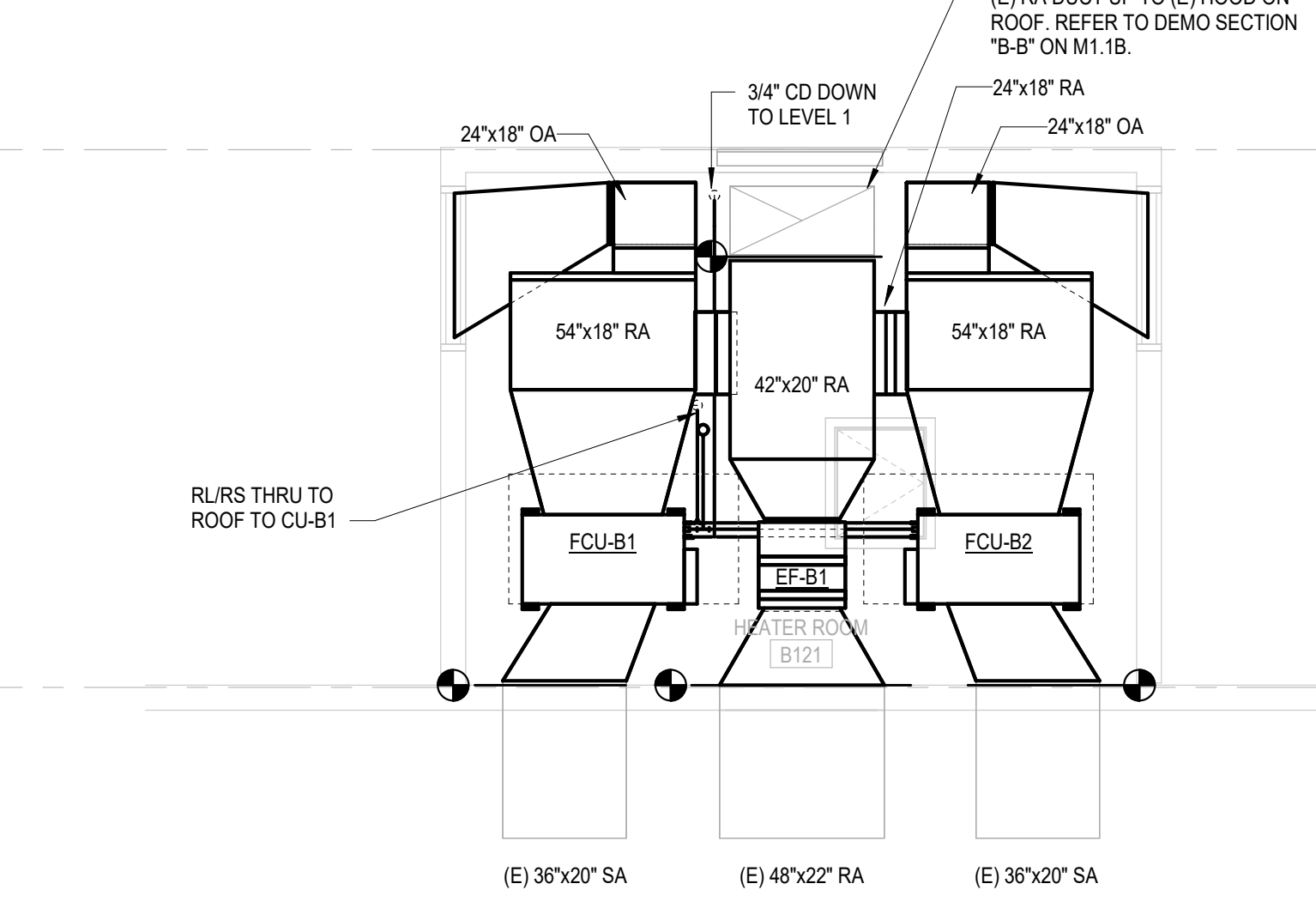
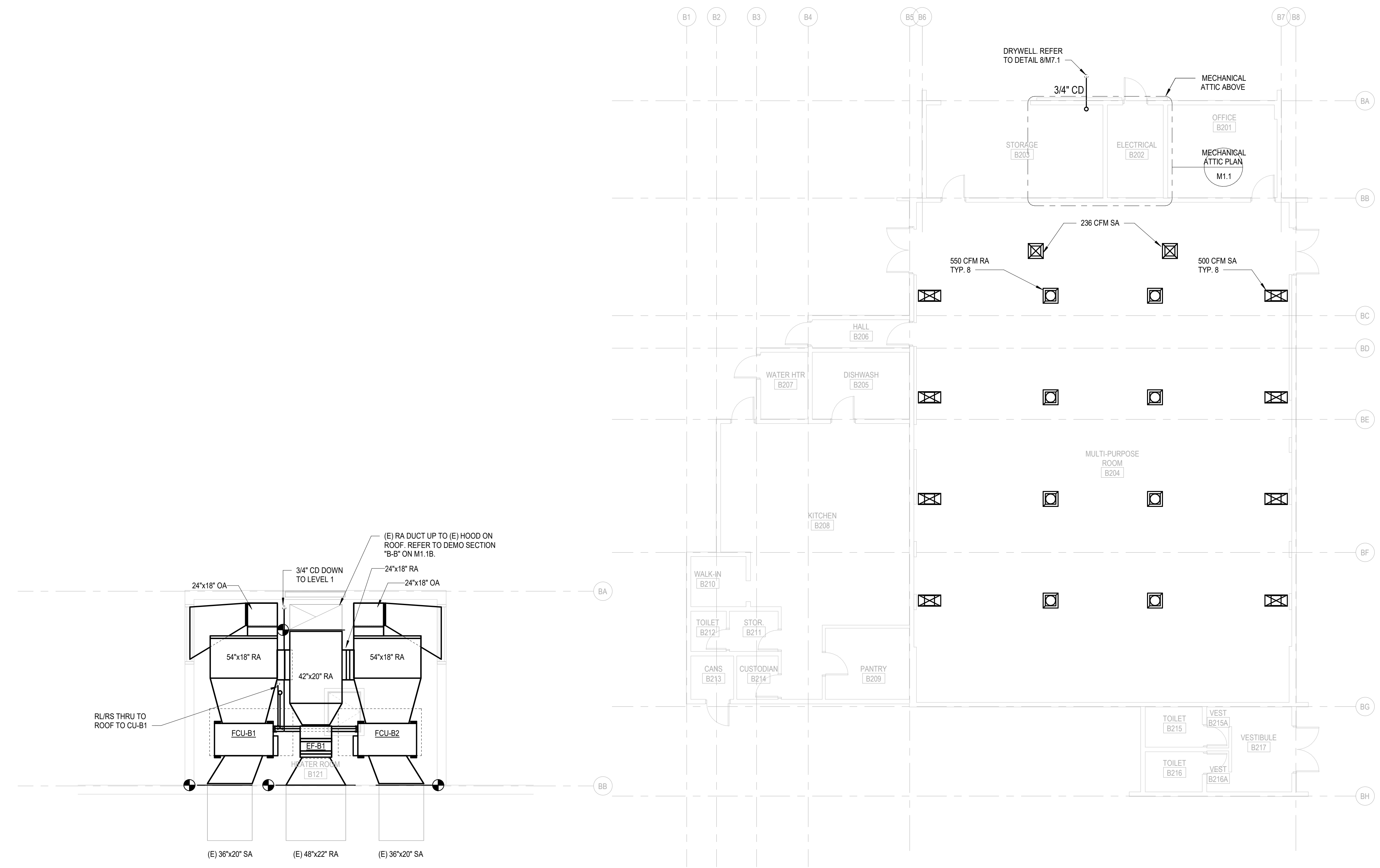


Cypress Elementary School
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 581 CYPRESS ST., COVINA, CA 91723

DSA Submitted Set
 1/13/2023
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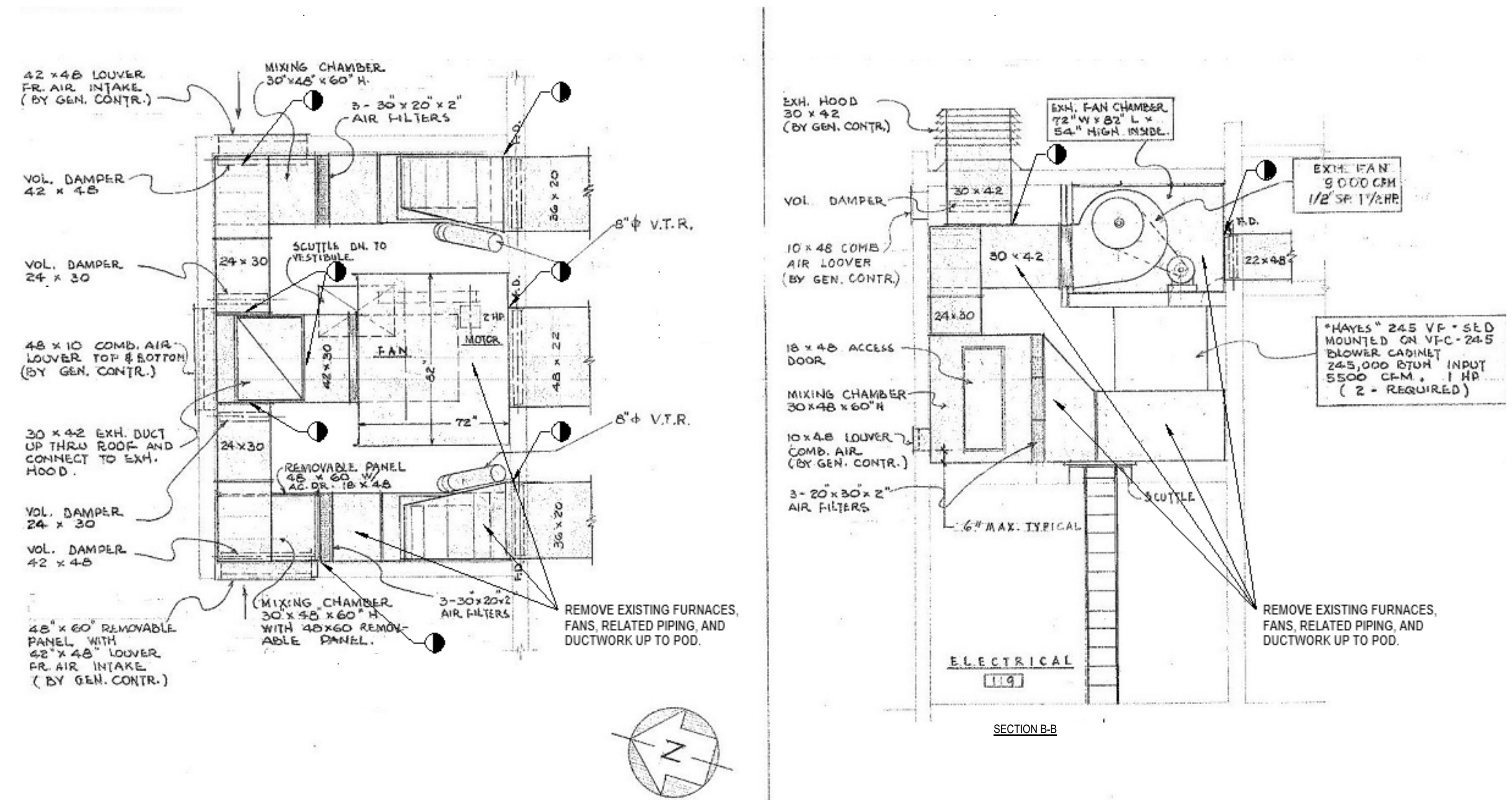
75-22605-00
 MECHANICAL FLOOR PLANS

M1.1B

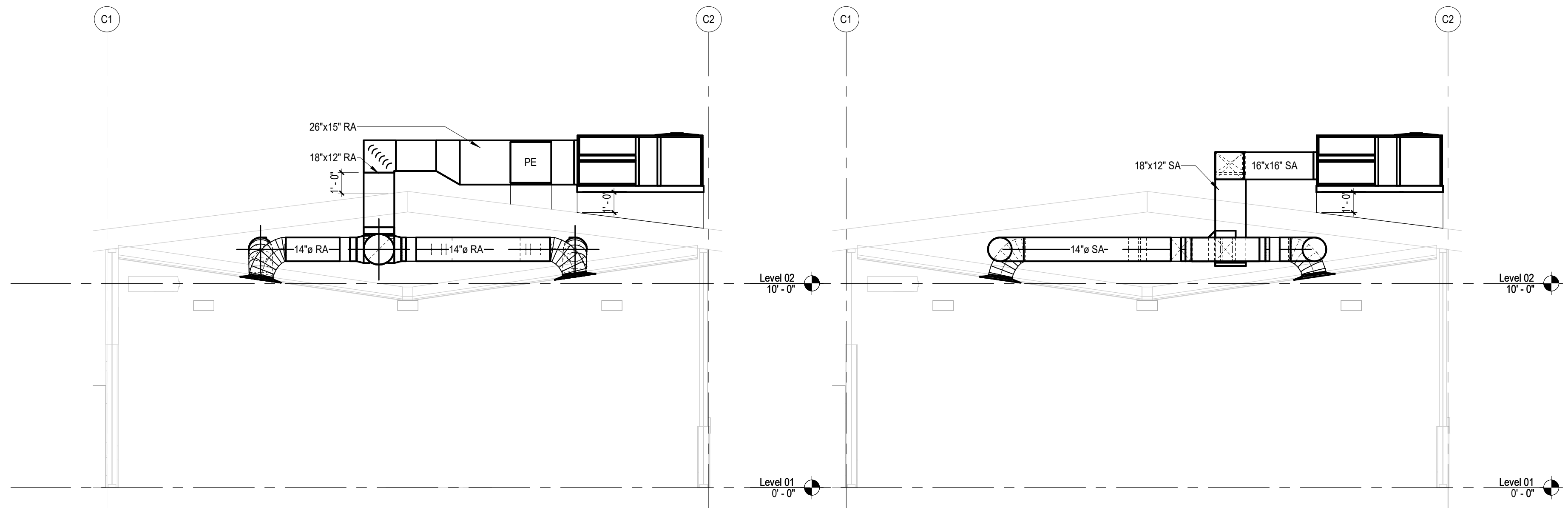


BUILDING B MECHANICAL ATTIC PLAN
 SCALE: 1/4" = 1'-0"

BUILDING B - MECHANICAL LEVEL 01 FLOOR PLAN
 SCALE: 1/8" = 1'-0"

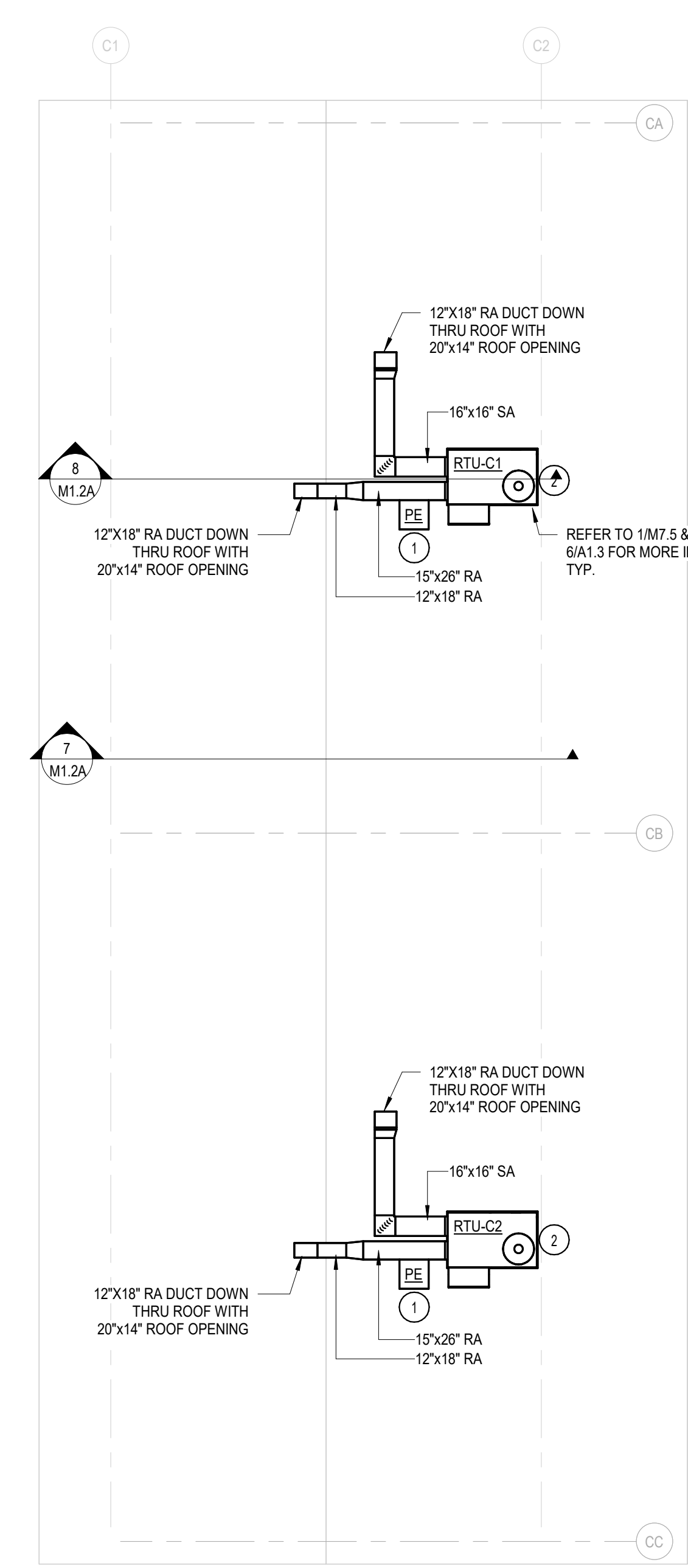


BUILDING B - MECHANICAL ATTIC DEMOLITION PLAN & SECTION
 SCALE: 1/4" = 1'-0"

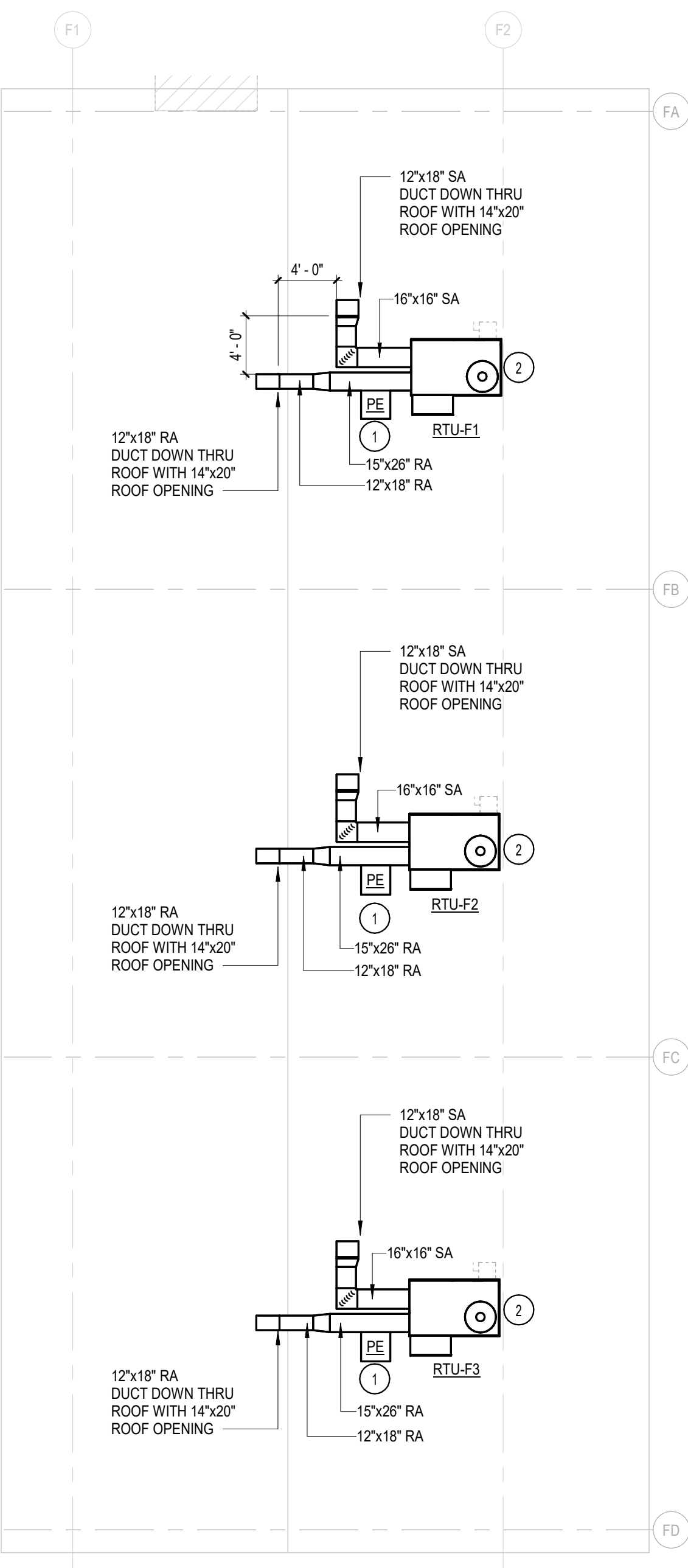


7 BUILDING SECTION 1
M1.2A SCALE: 1/4" = 1'-0"

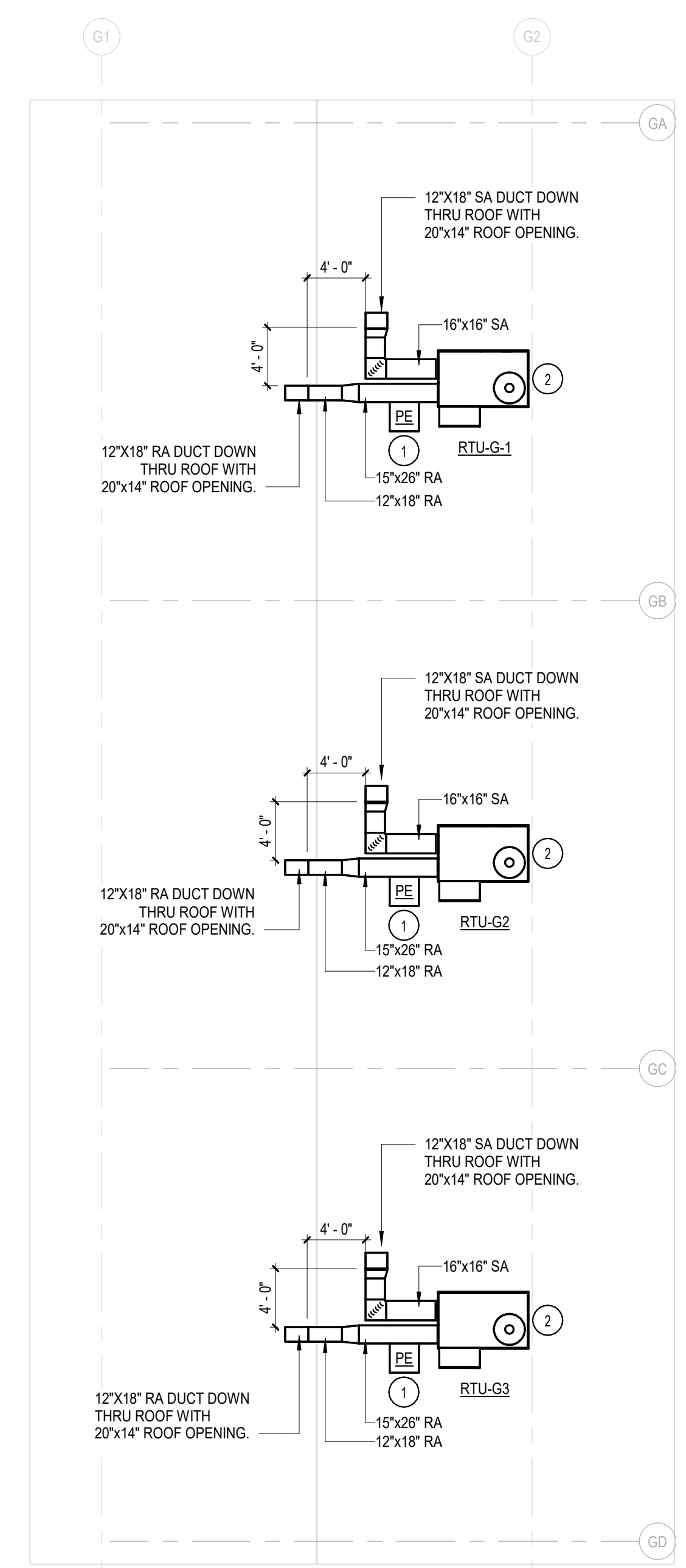
8 BUILDING SECTION 2
M1.2A SCALE: 1/4" = 1'-0"



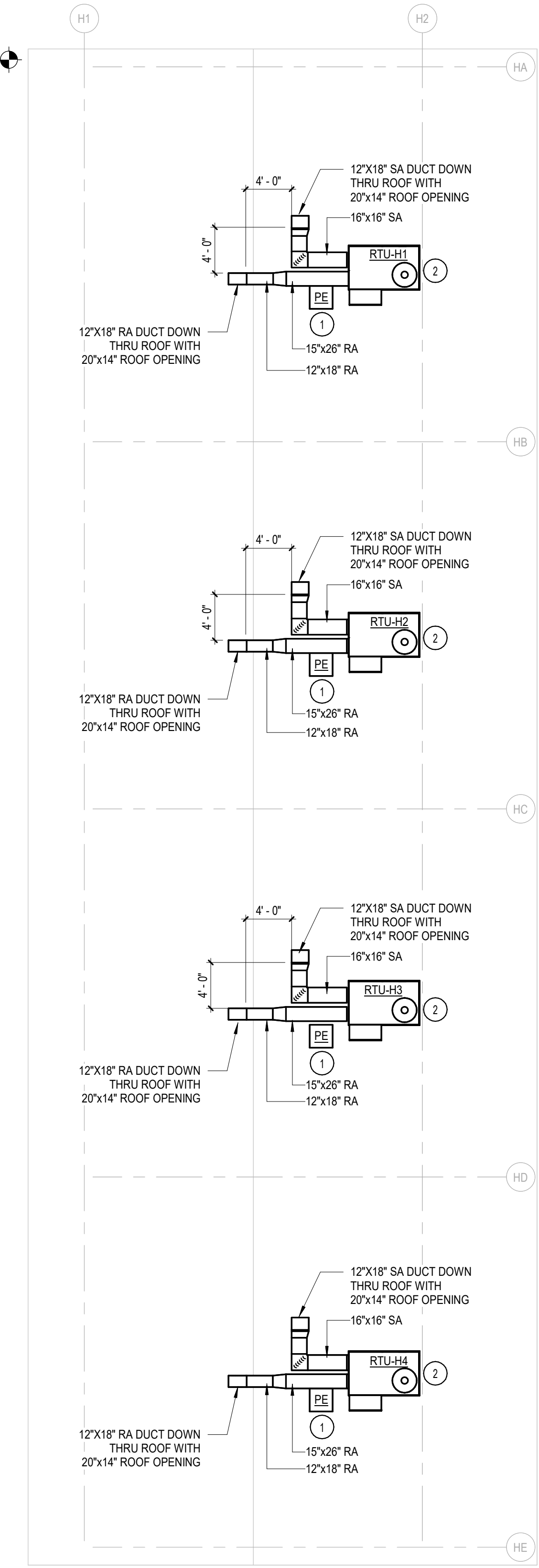
1 BUILDING C MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



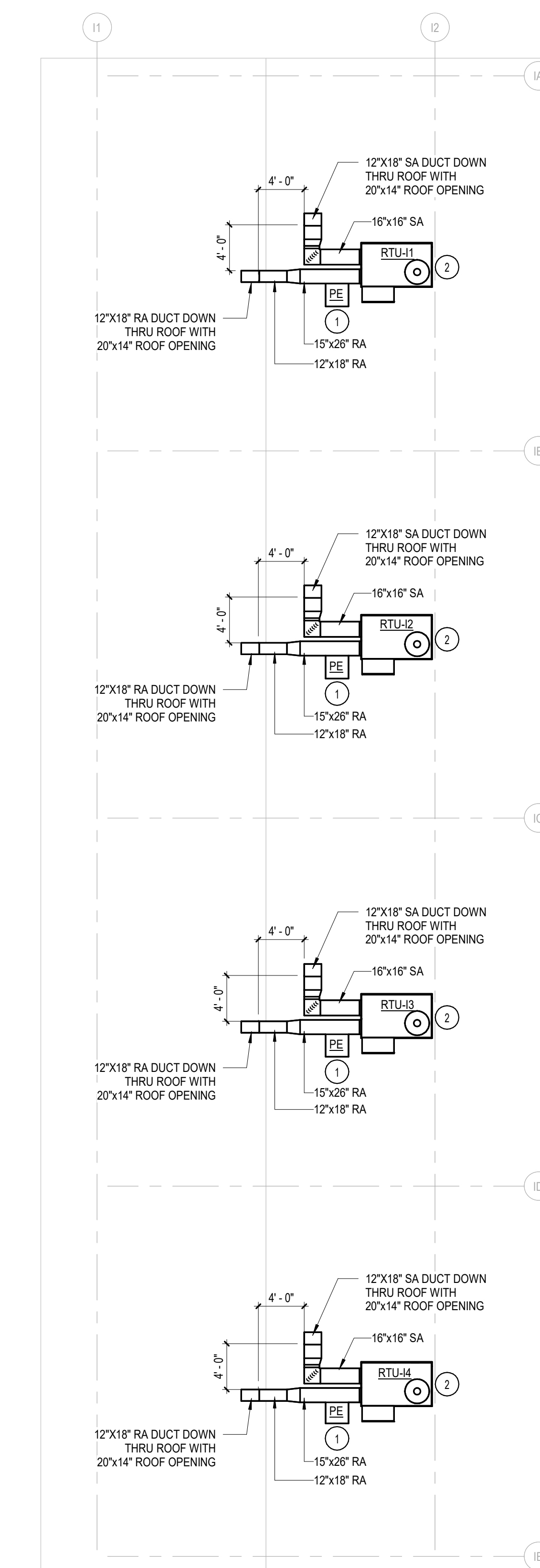
2 BUILDING F MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



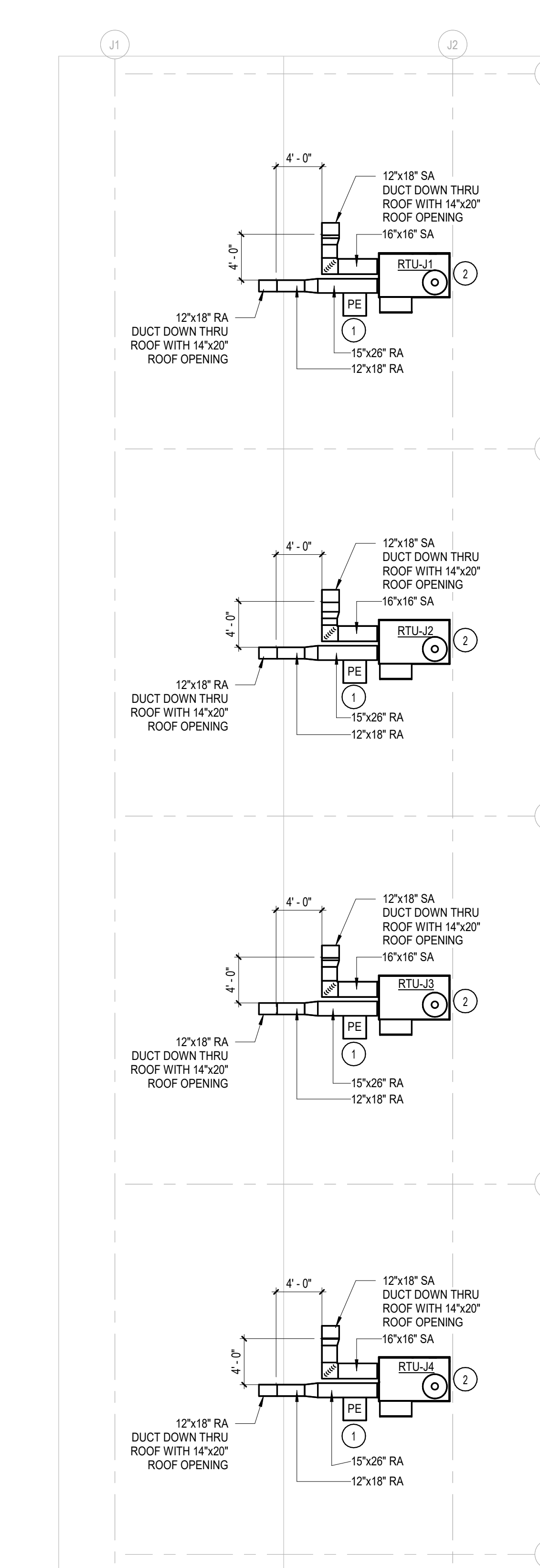
3 BUILDING G MECHANICAL ROOF PLAN
M1.2A SCALE: 1/8" = 1'-0"



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.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122230 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/16/2023



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

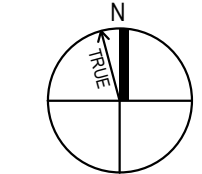
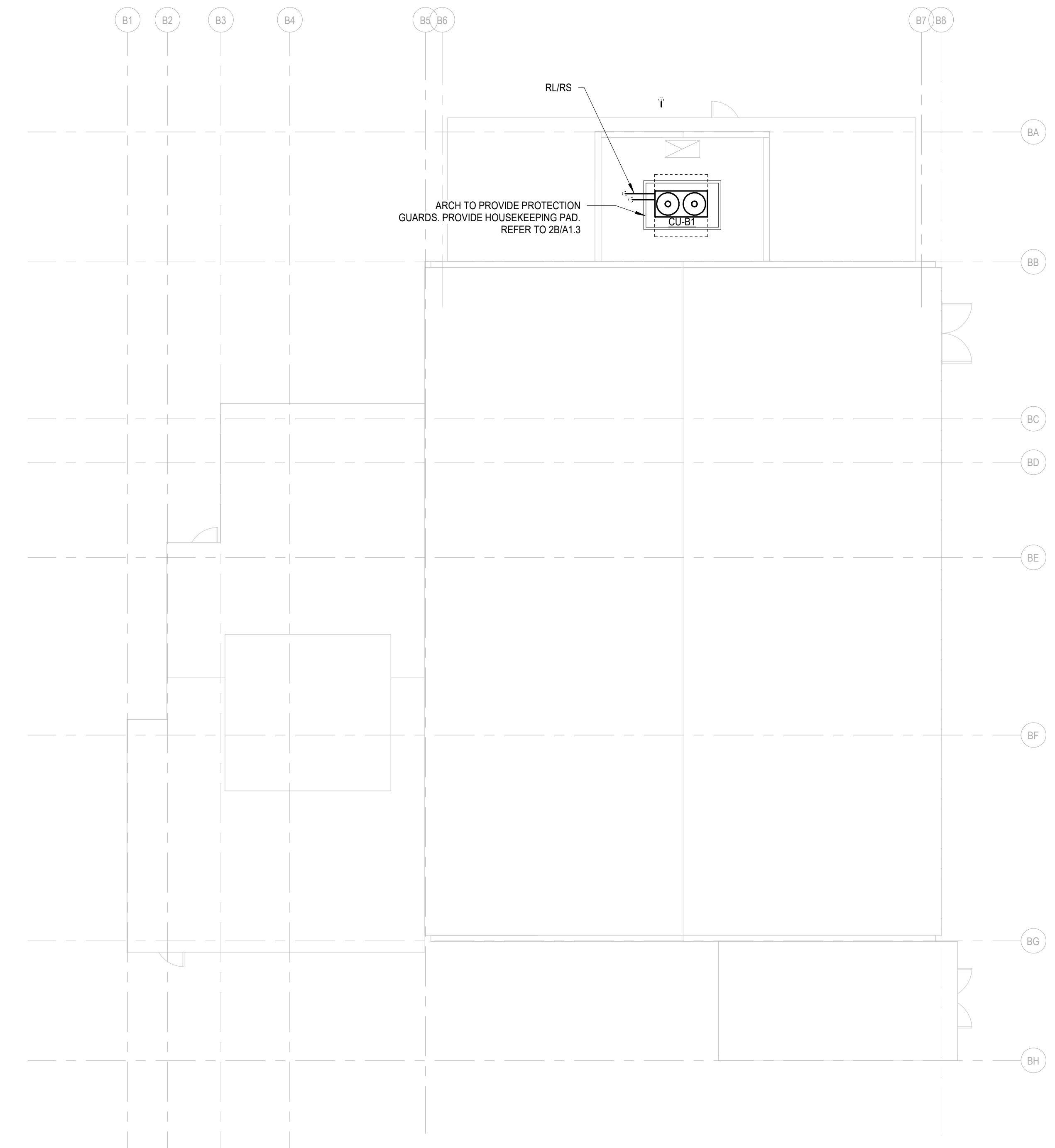
DSA Submitted Set
1/13/2023
REVISIONS

75-22605-00

MECHANICAL
ROOF PLANS

M1.2A

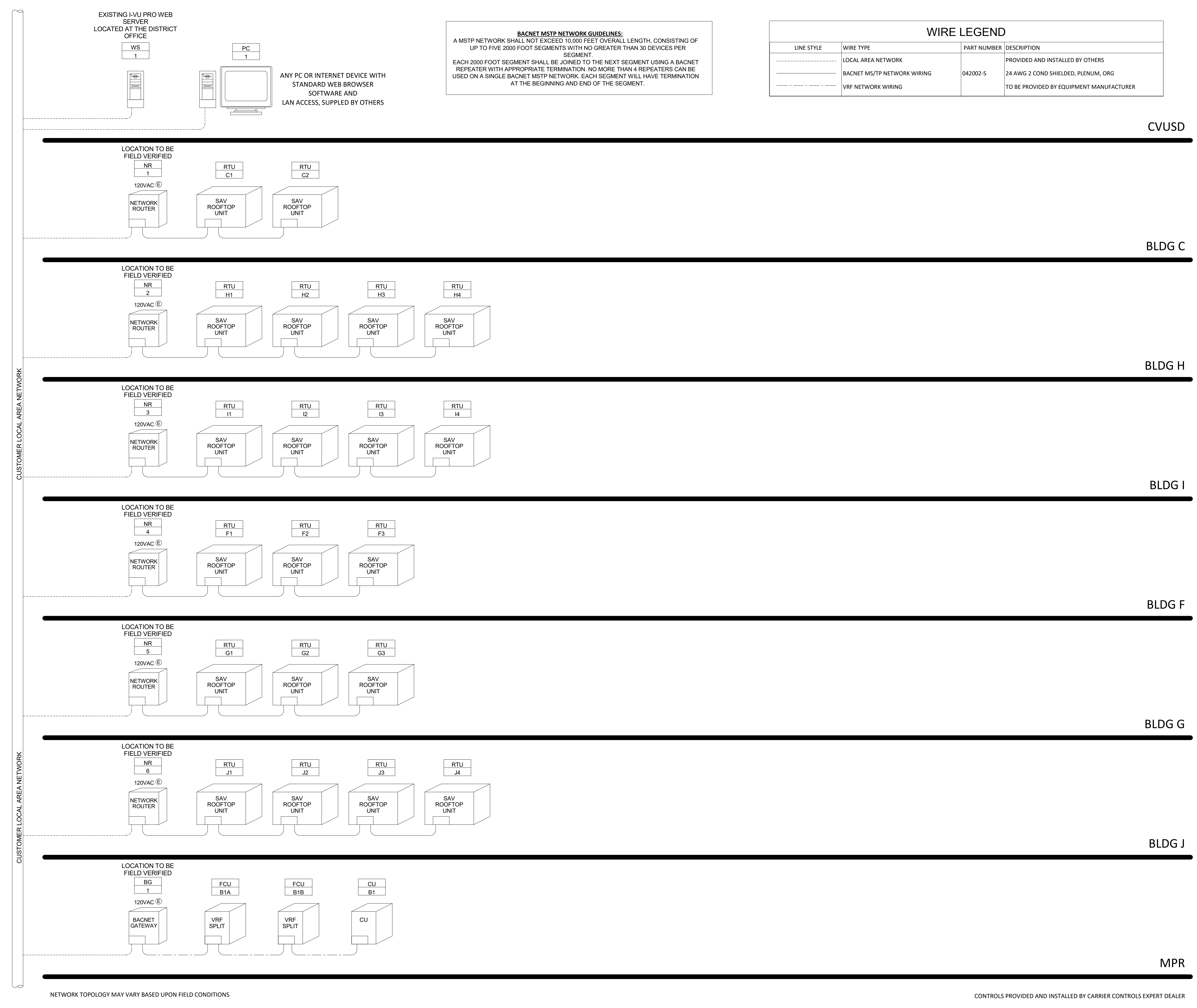
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1/25/2023 3:36:20 PM



LEVEL 02 - BUILDING B - ROOF MECHANICAL PLAN

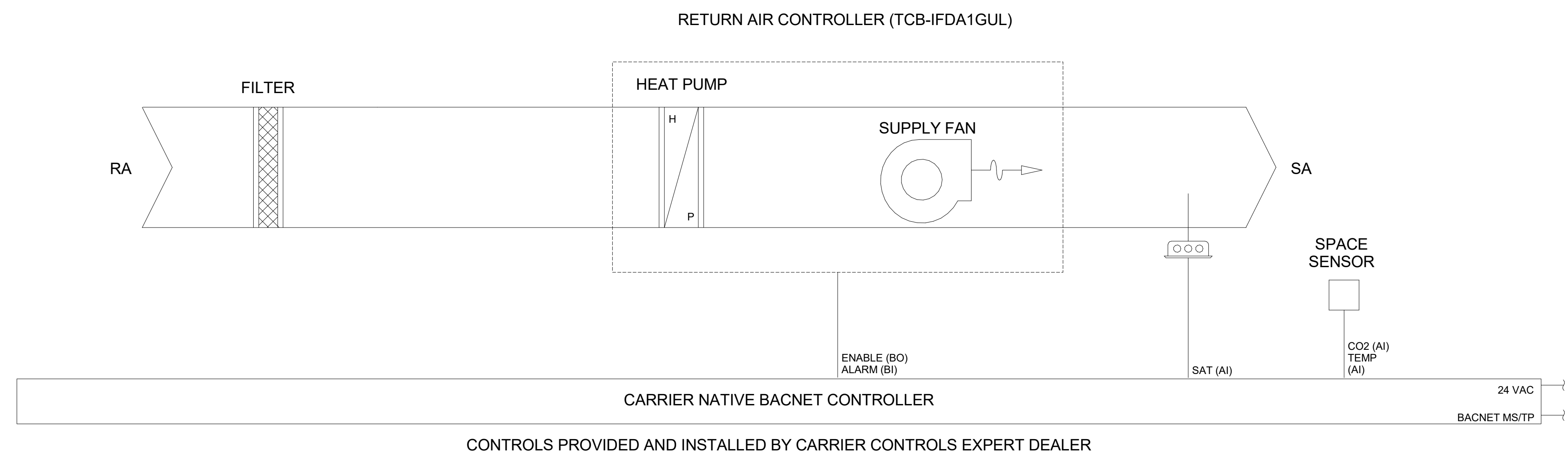
SCALE: 1/8" = 1'-0"

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1 BACS RISER DIAGRAM
 M5.1 NO SCALE

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES MEP_2022.rvt
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FAN COIL UNIT DETAIL (FCU-B1)

SCALE
NONE 1

3 MS.2 SPLIT FAN COIL UNIT DETAIL (FCU-B1)
NO SCALE

SEQUENCES OF OPERATION

SEQUENCE OF OPERATION FOR CVUSD BEN LOMOND ES
 HEAT PUMP RTU (RTU-C1, RTU-C2, RTU-G1 THRU RTU-G3, RTU-H1 THRU RTU-H4, RTU-I1 THRU RTU-I4, AND RTU-J1 THRU RTU-J4)

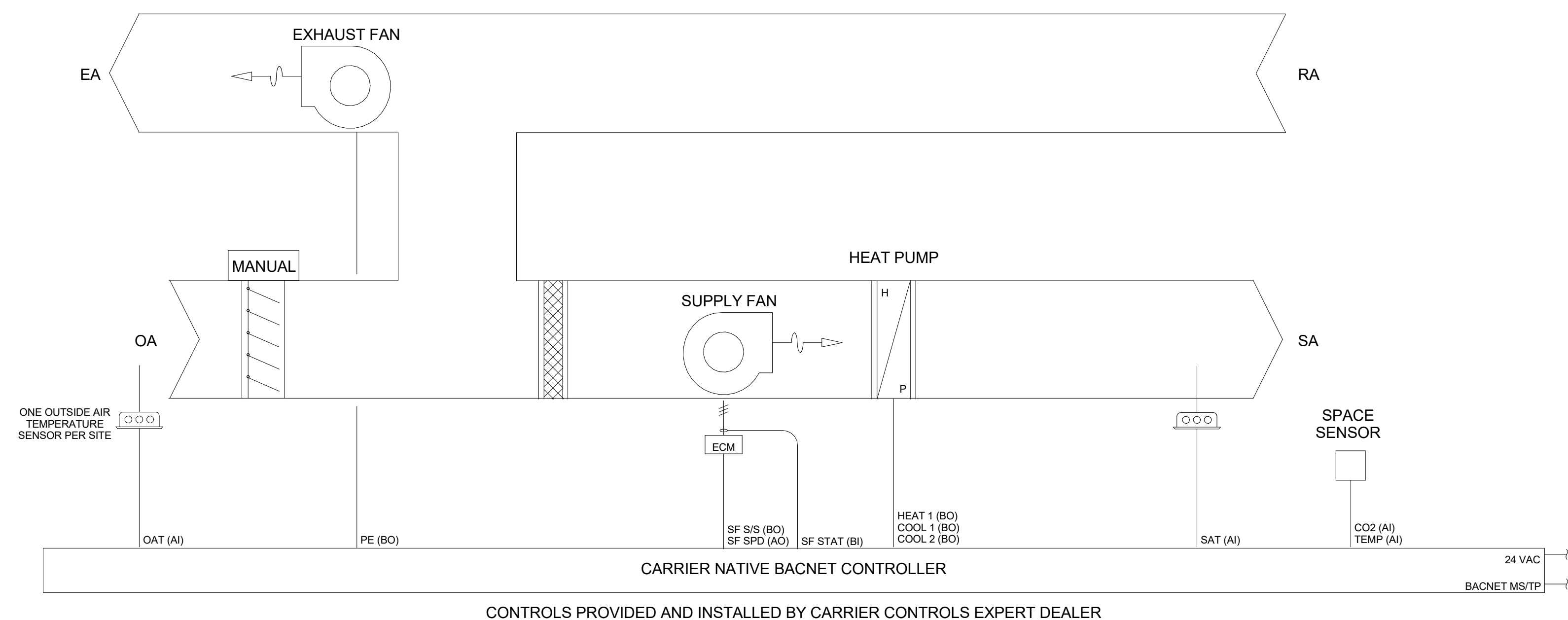
INDOOR FAN
 THE FAN OPERATES AT A VARIABLE SPEED TO MEET THE LOAD CONDITIONS AND SAT SAFETY REQUIREMENTS TO PROVIDE MAXIMUM ENERGY SAVINGS BY MINIMIZING FAN HORSEPOWER CONSUMPTION. FAN SPEED IS NOT CONTROLLED BY STATIC PRESSURE.

HEATING MODE
 WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE
 WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL
 UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, AN ALARM SHALL BE ENABLED THROUGH THE EMS.

POWER EXHAUST
 THE EXHAUST FAN SHALL RUN WHEN THE UNIT IS OCCUPIED.



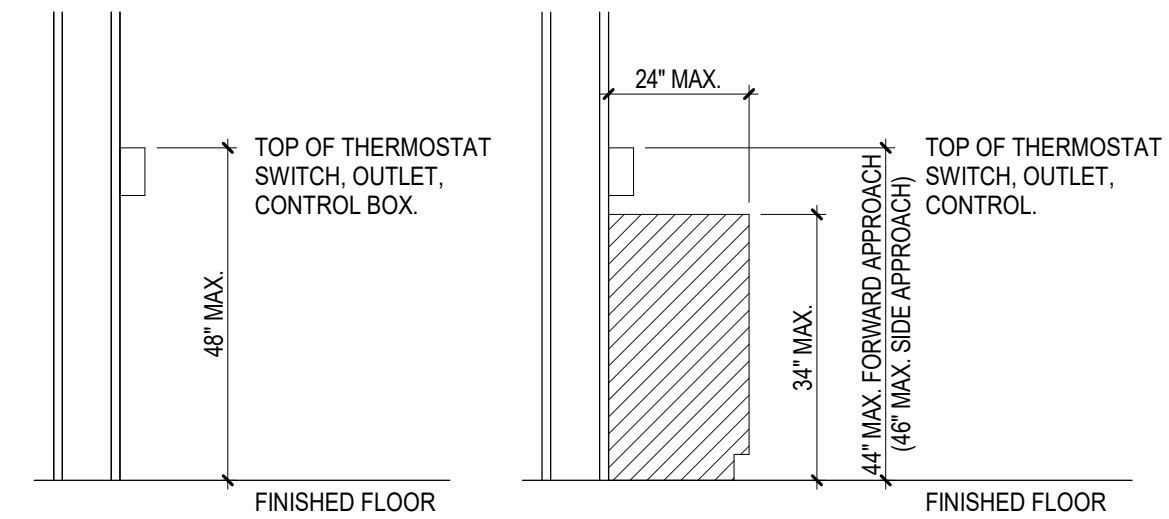
50FCQ HEAT PUMP RTU DETAIL (RTU-C1, C2, H1 THRU H4, I1 THRU I4, F1 THRU F3, G1 THRU G3, AND J1 THRU J4)

1 MS.2 SCALE: 12" = 1'-0"

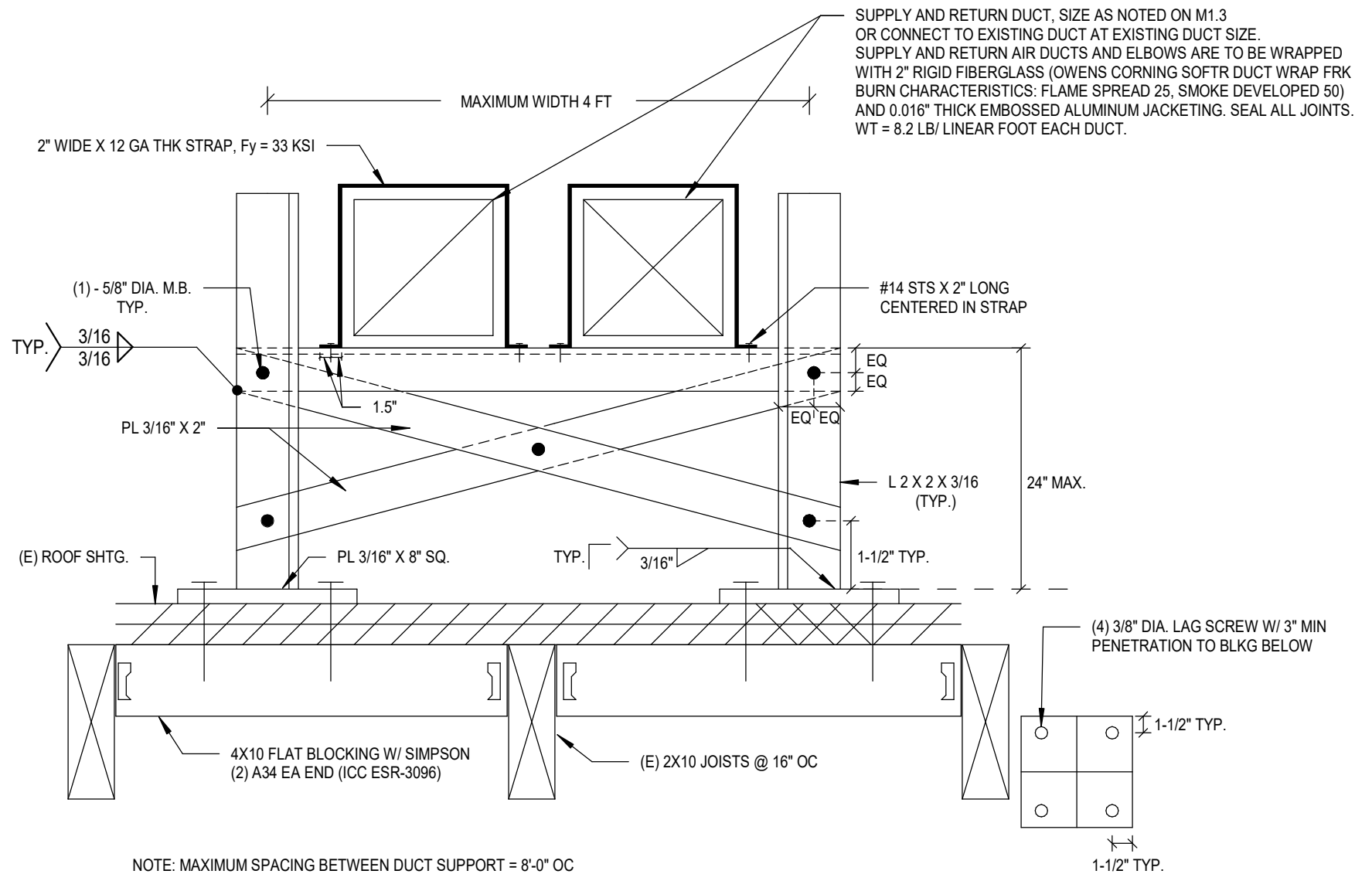
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC		
	AI	AO	BI	BO	AV	BV	SCHED	TREND		ALARM	
TEMPERATURE SETPOINT					x				x	x	
TEMPERATURE SETPOINT STATUS					x				x	x	
INDOOR UNIT MODE					x					x	
INDOOR UNIT MODE COMMAND					x					x	
SPACE TEMPERATURE					x			x	x	x	
SUPPLY FAN COMMAND					x					x	
SUPPLY FAN SPEED STATUS					x				x	x	
INDOOR UNIT MALFUNCTION CODE					x				x	x	
OUTDOOR UNIT MODE STATUS					x					x	
OUTDOOR UNIT COMPRESSOR SPEED					x			x		x	
OUTDOOR UNIT MALFUNCTION CODE					x				x	x	
SCHEDULE							x			x	
TOTALS	0	0	0	0	11	0	1	2	6	12	
TOTAL HARDWARE (0)					TOTAL SOFTWARE (20)						

2 MS.2 VRF POINTS LIST
NO SCALE

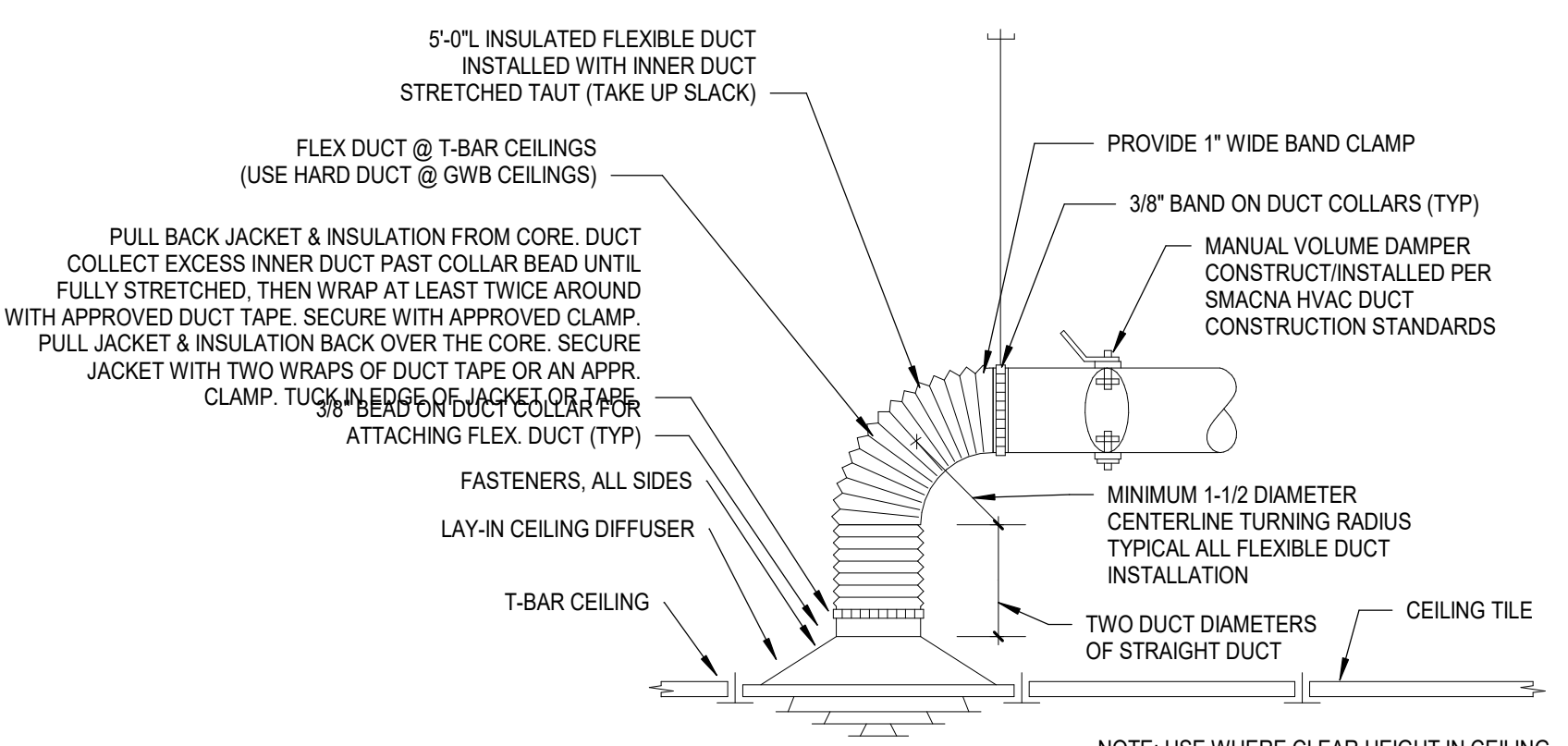
1
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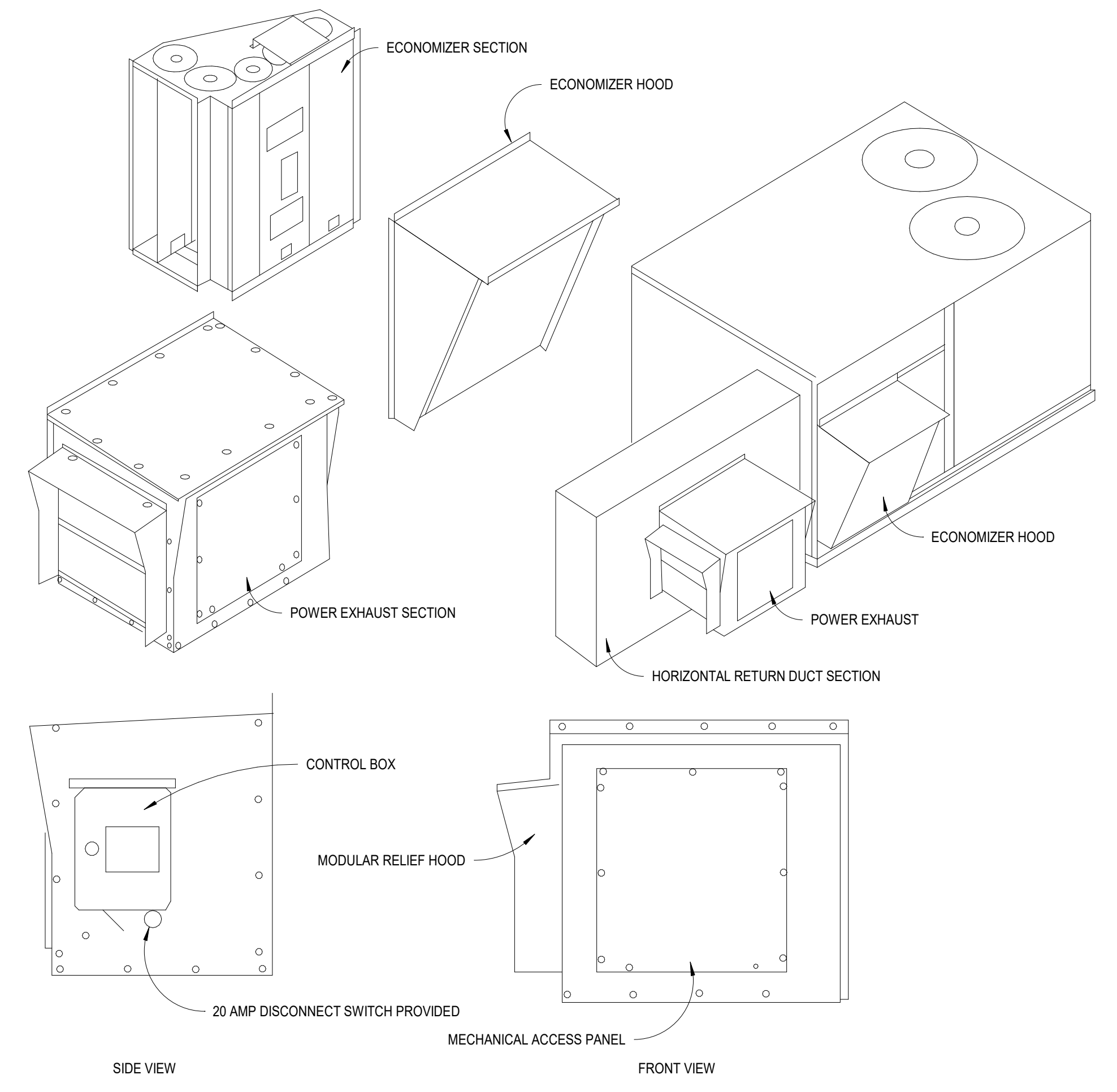
1 THERMOSTAT MOUNTING
 M7.1 NO SCALE



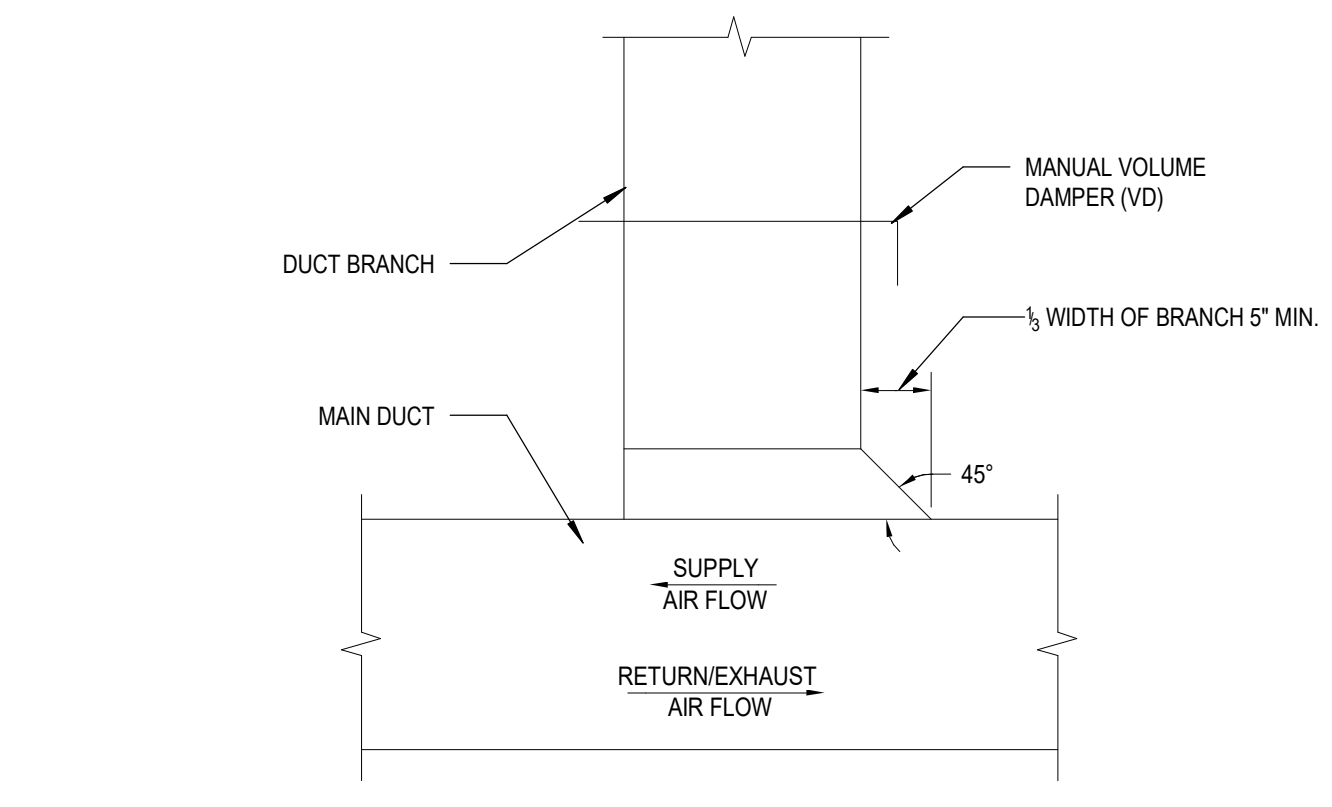
2 DUCT SUPPORT ON ROOF DETAIL
 M7.1 NO SCALE



3 CEILING SUPPLY DIFFUSER CONNECTION DETAIL
 M7.1 NO SCALE

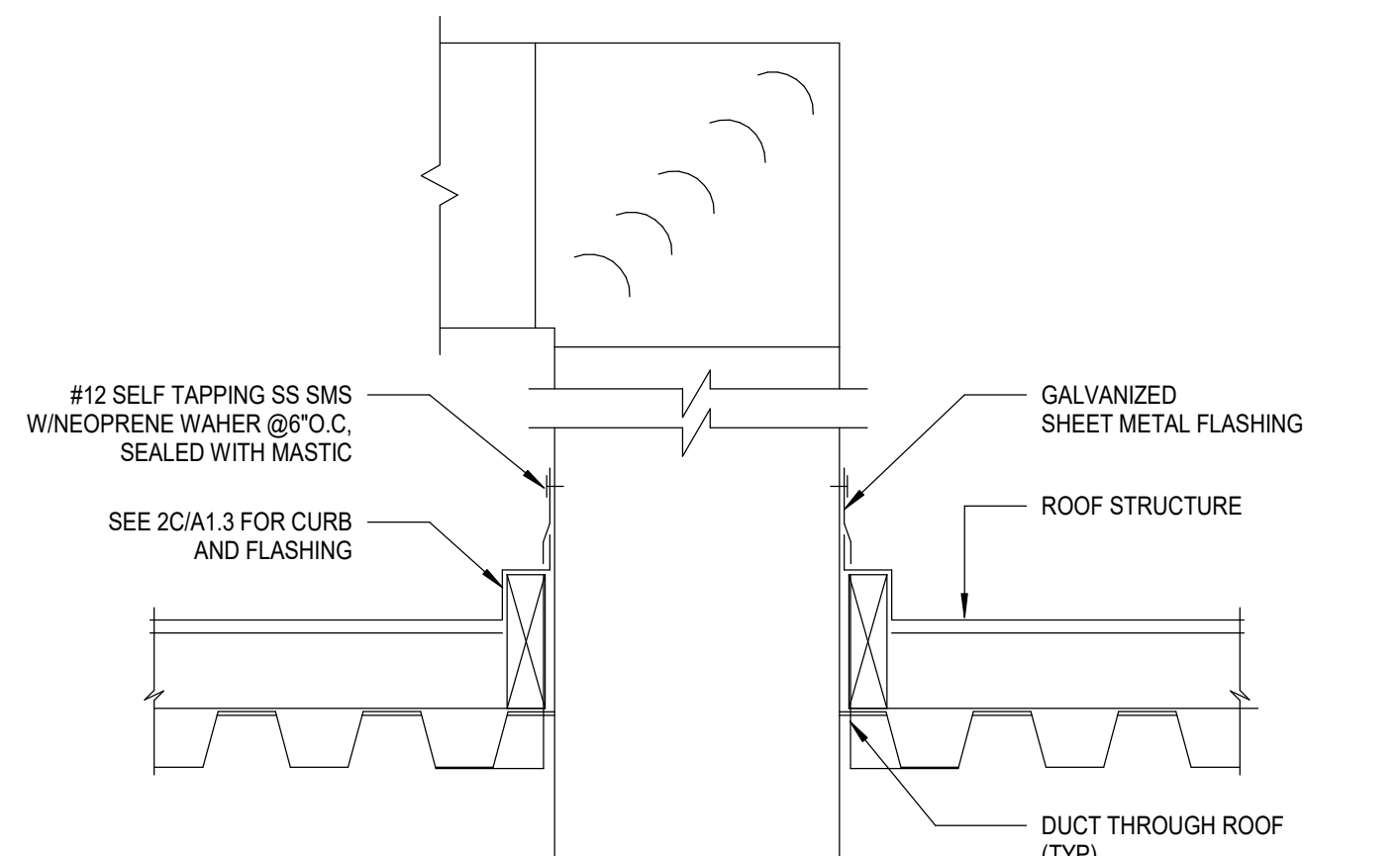


4 ECONOMIZER AND POWER EXHAUST DETAIL - HORIZONTAL DISCHARGE RTU (LESS THAN 15 TONS)
 M7.1 NO SCALE

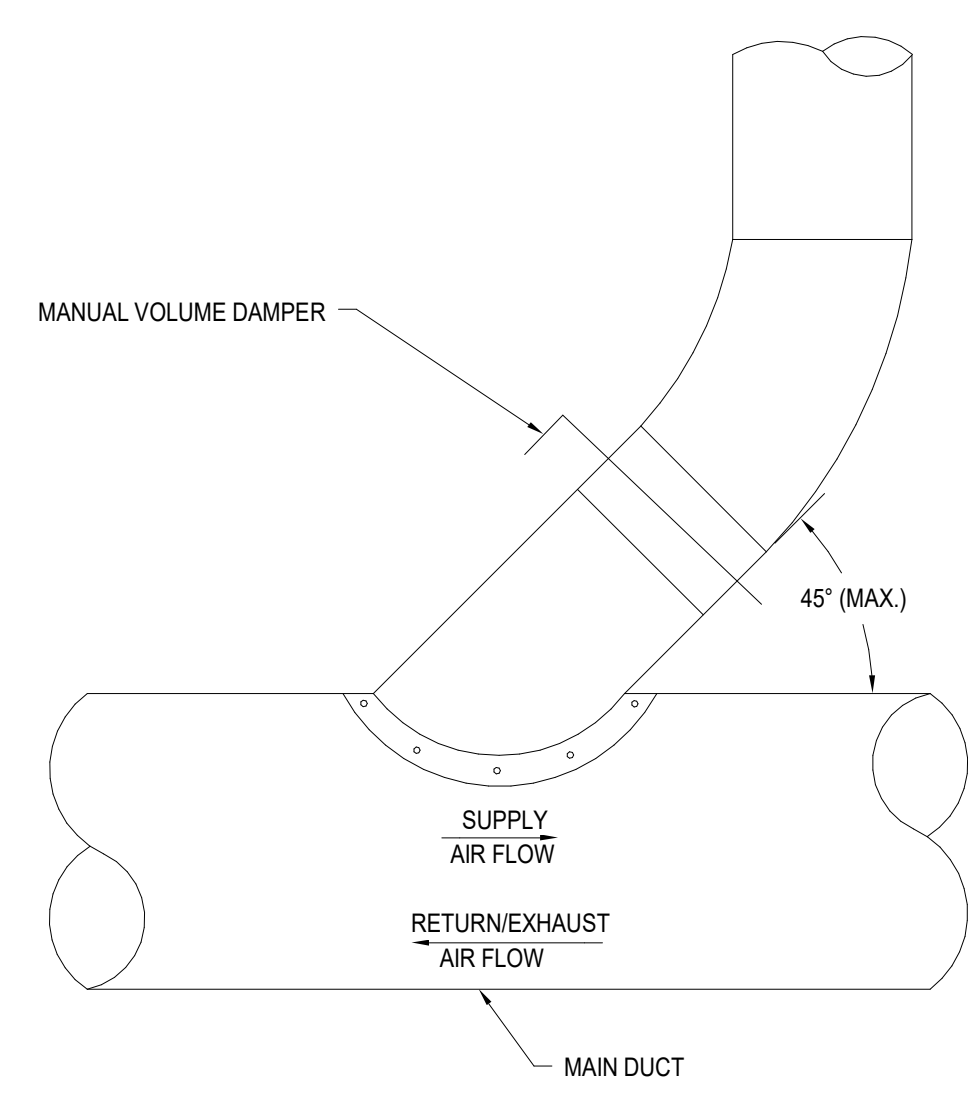


- NOTES:**
- FURNISH THIS TYPE OF CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW, OR WHERE INDICATED ON DRAWINGS.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 24MS.1.
 - SUP-VOLUME DAMPER HOUSING WILL NOT BE ALLOWED.

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

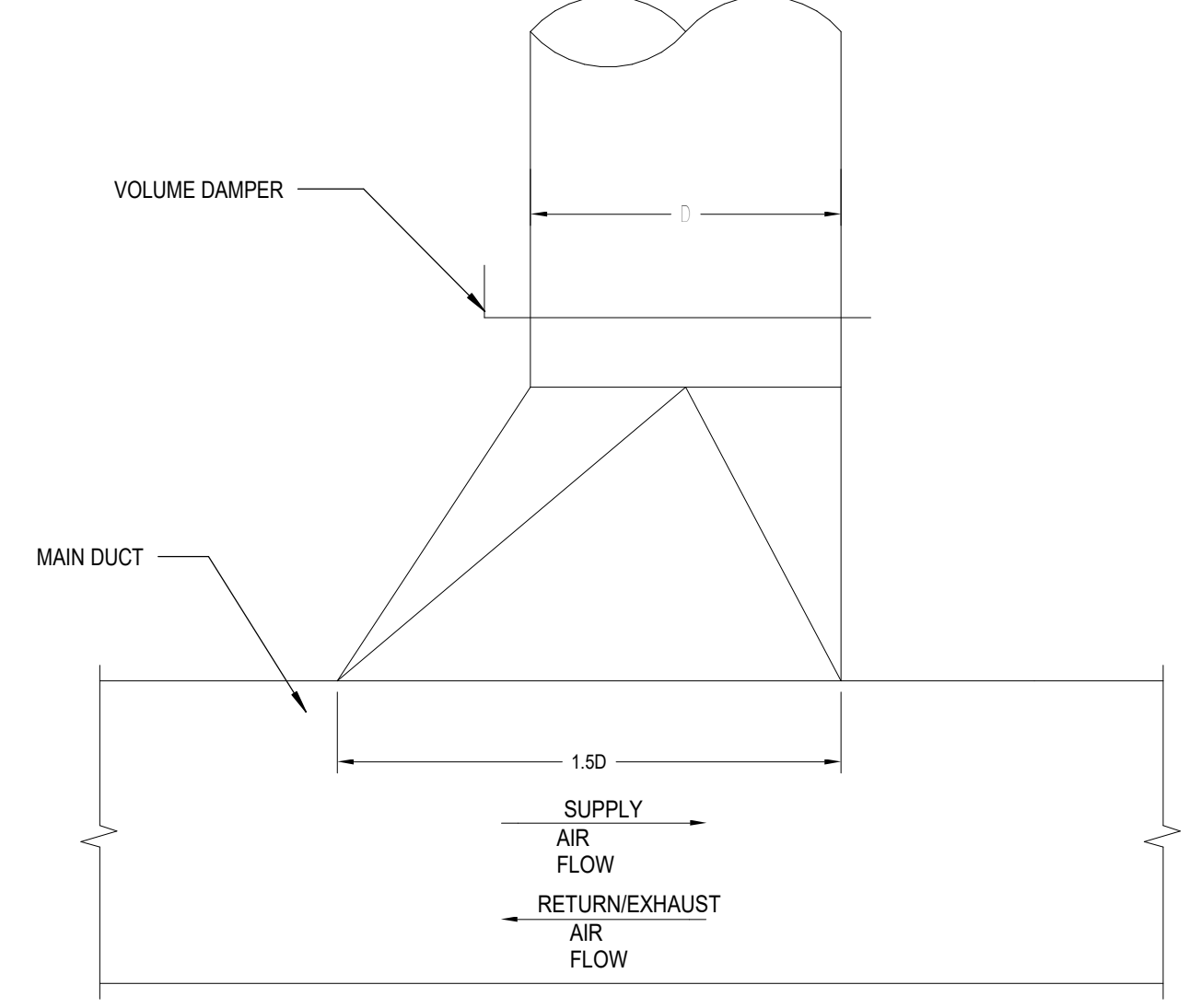


5 DUCT THRU ROOF PENETRATION
 M7.1 NO SCALE



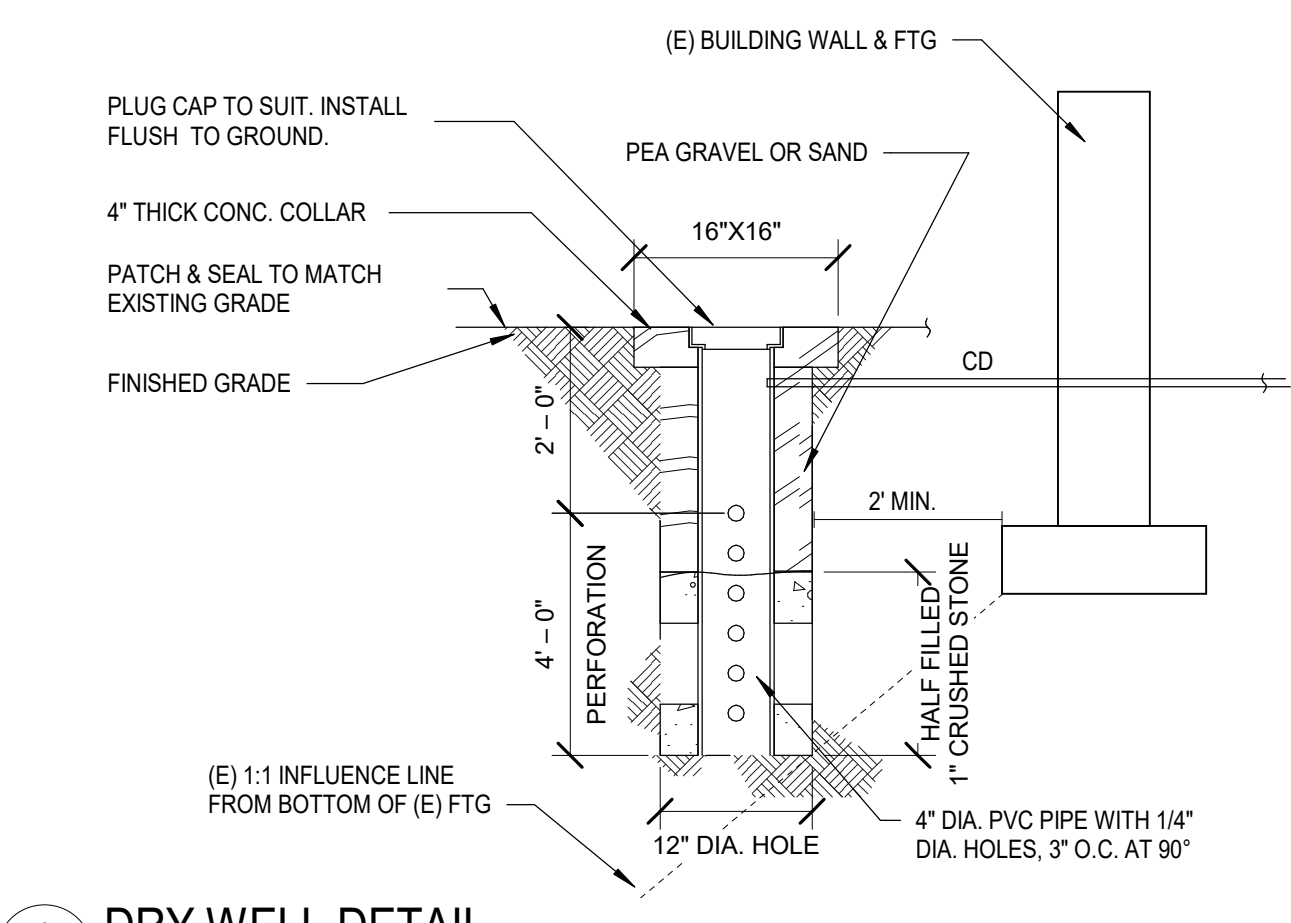
- NOTES:**
- FURNISH LATERAL TEE CONNECTION FOR BRANCHES WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS .
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 24MS.2.

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

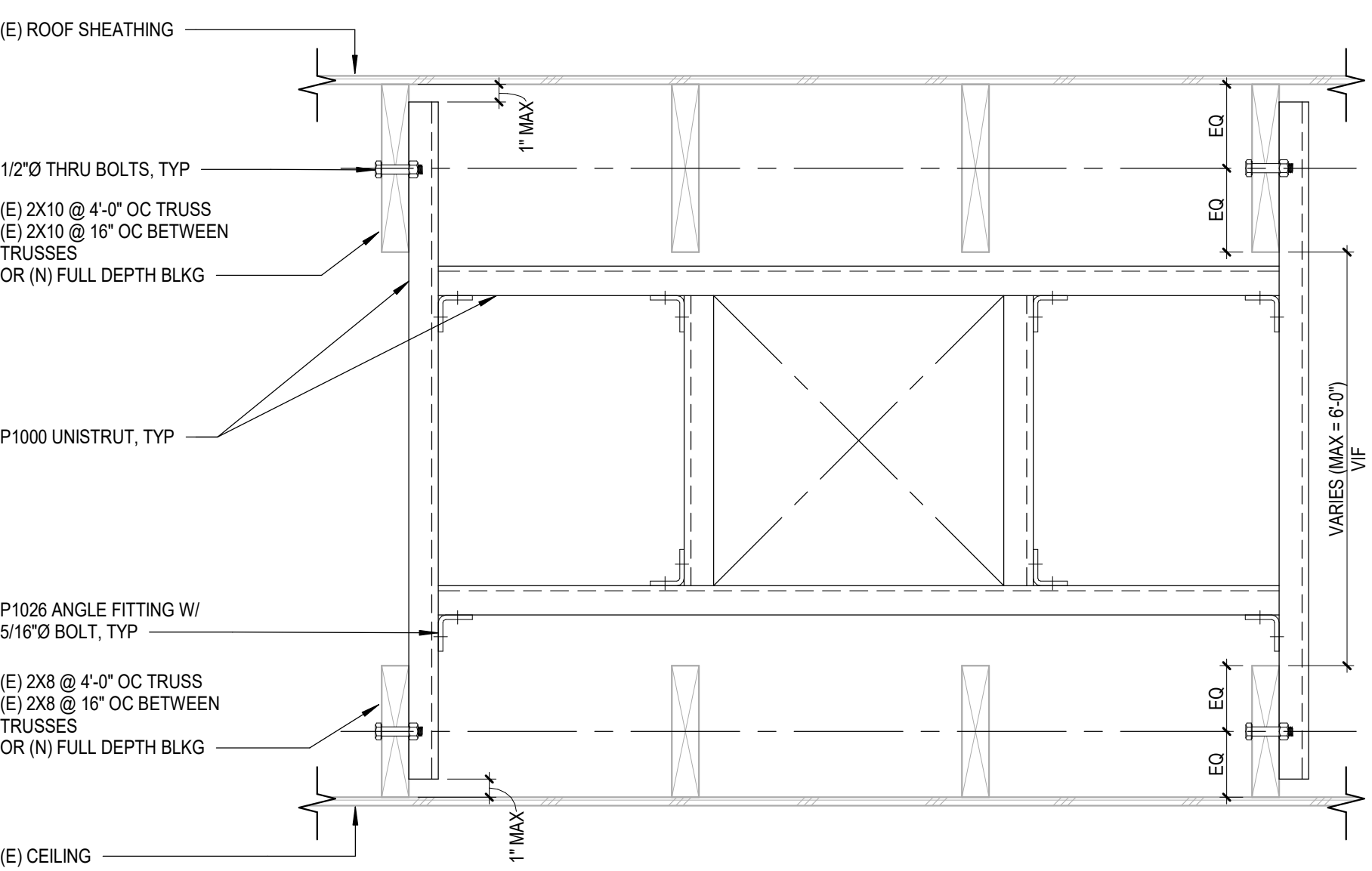


- NOTES:**
- FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF TOTAL AIR FLOW.
 - PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL MANUAL VOLUME DAMPER LOCATION.

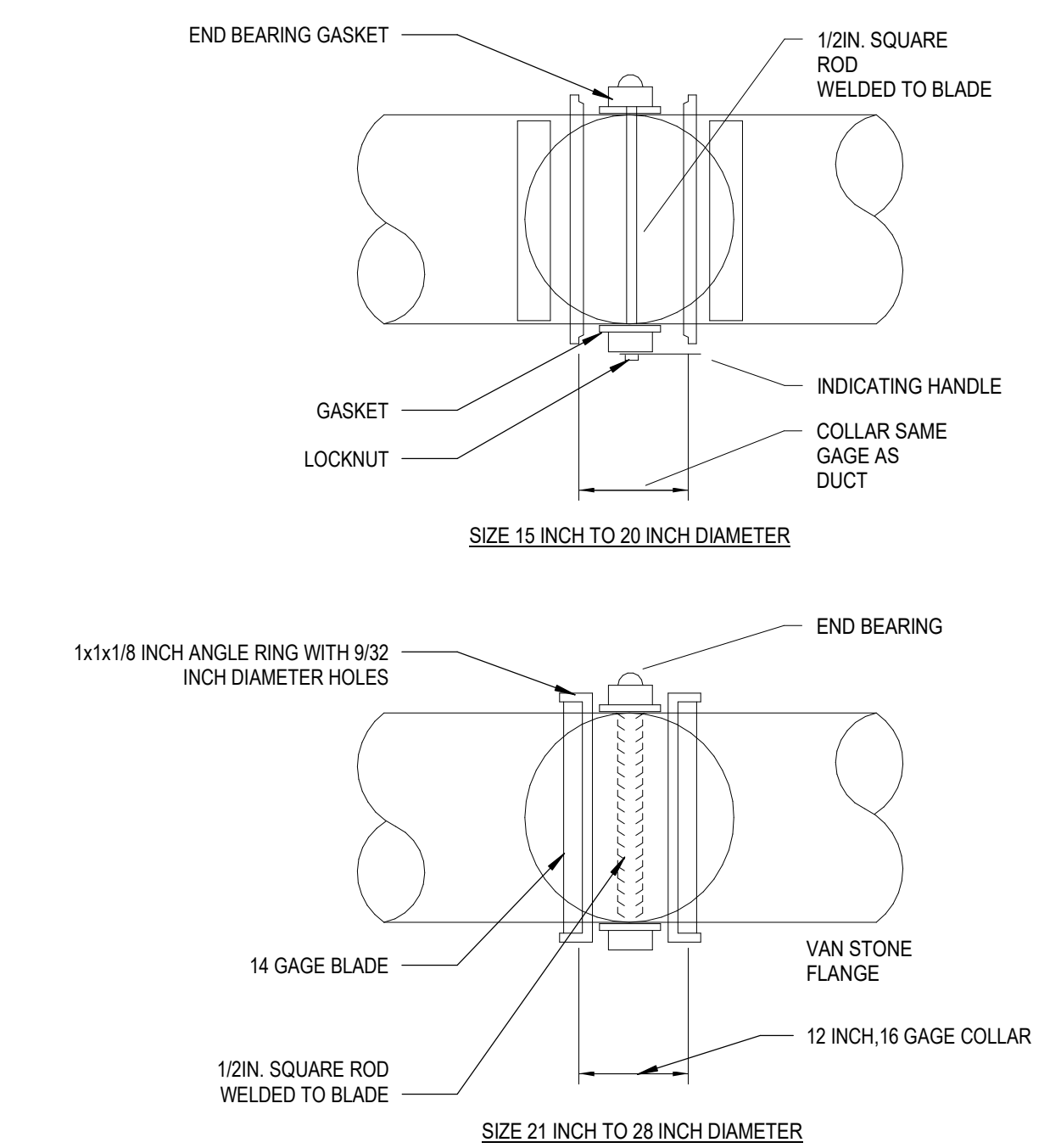
6 ROUND DUCT BRANCH TO MAIN RECT. CONNECTION
 M7.1 NO SCALE



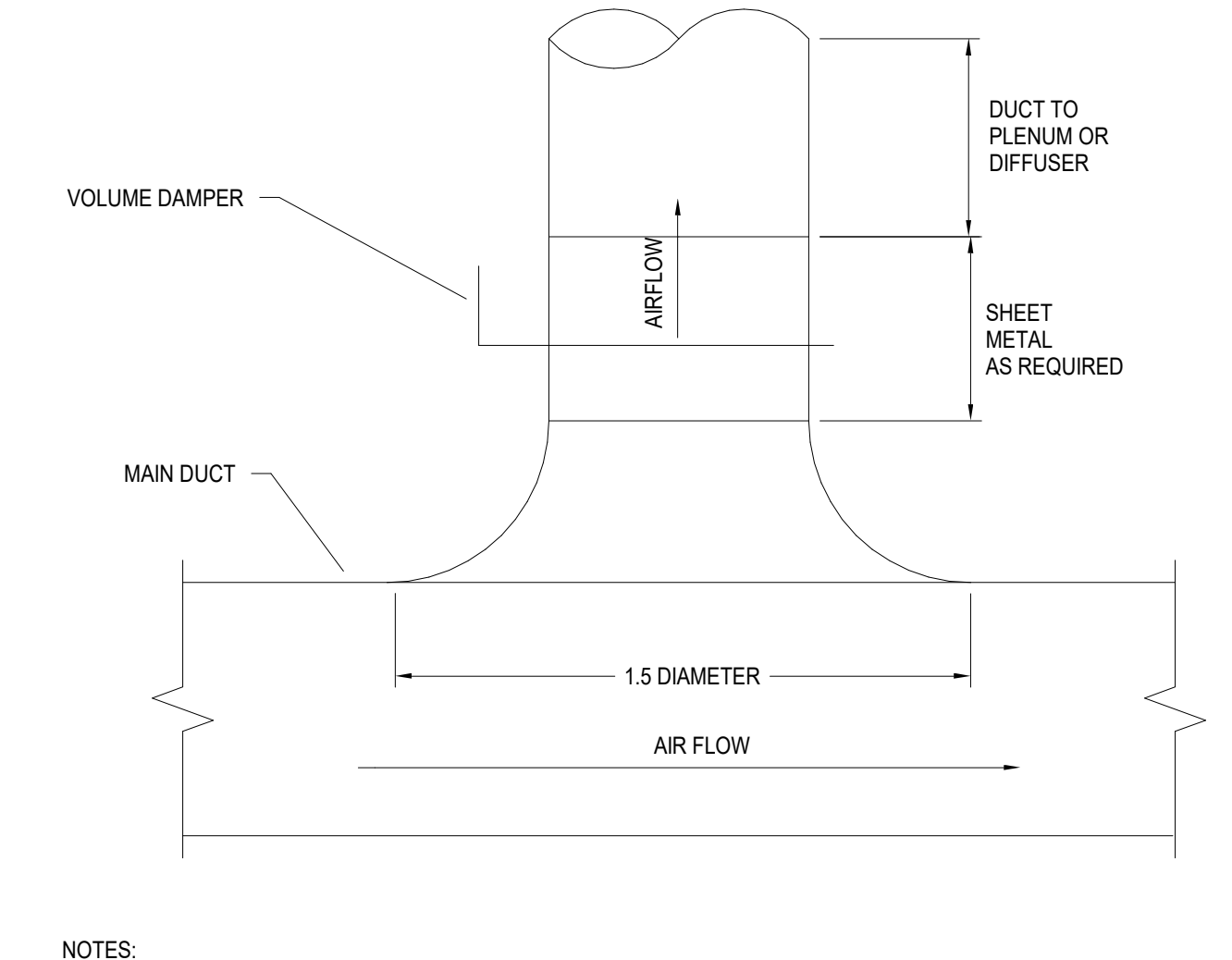
8 DRY WELL DETAIL
 M7.1 NO SCALE



11 DUCT SUPPORT IN CEILING SPACE
 M7.1 NO SCALE

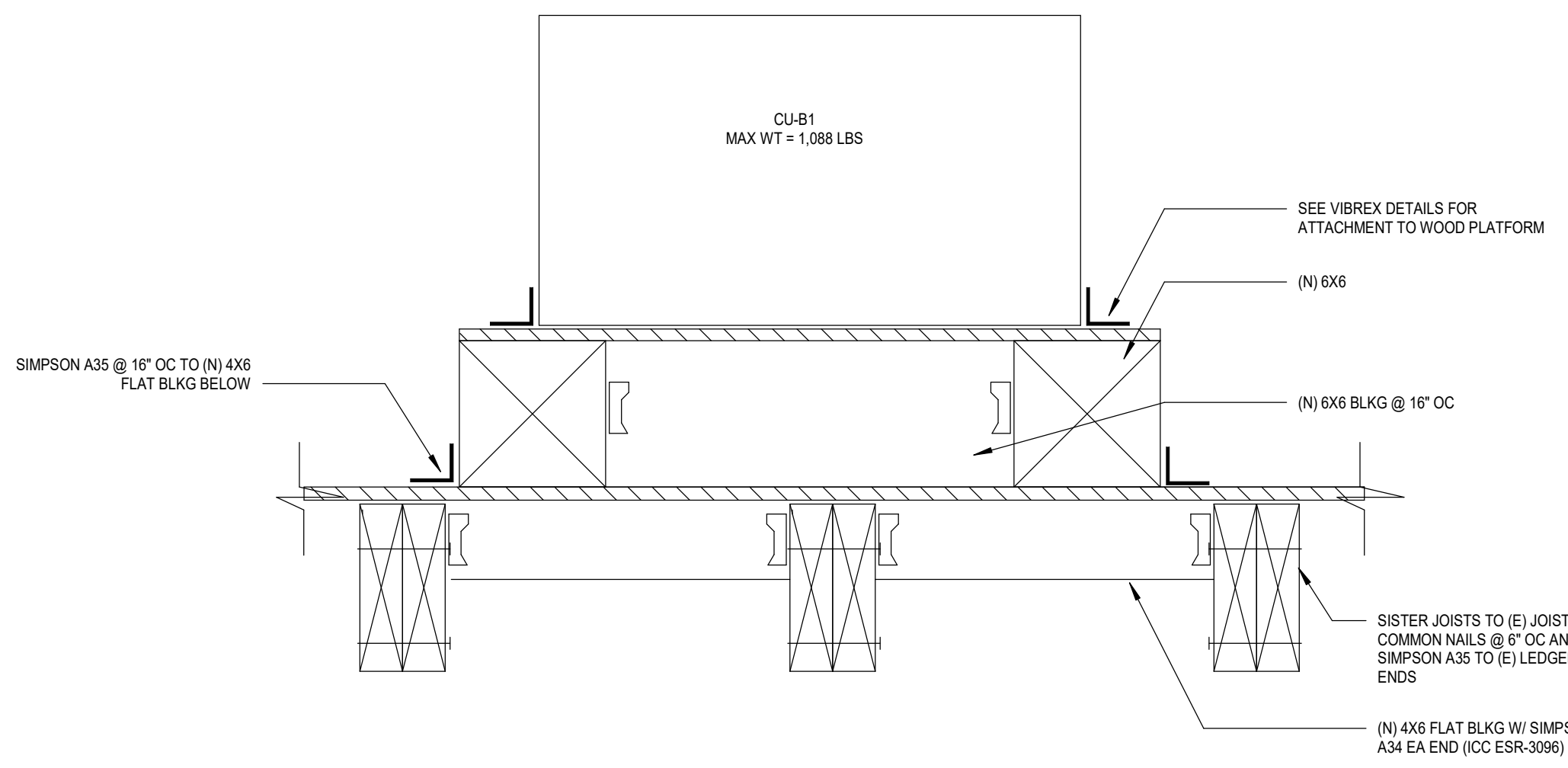


10 ROUND VOLUME DAMPER (LARGER THAN 14" DIA.)
 M7.1 NO SCALE



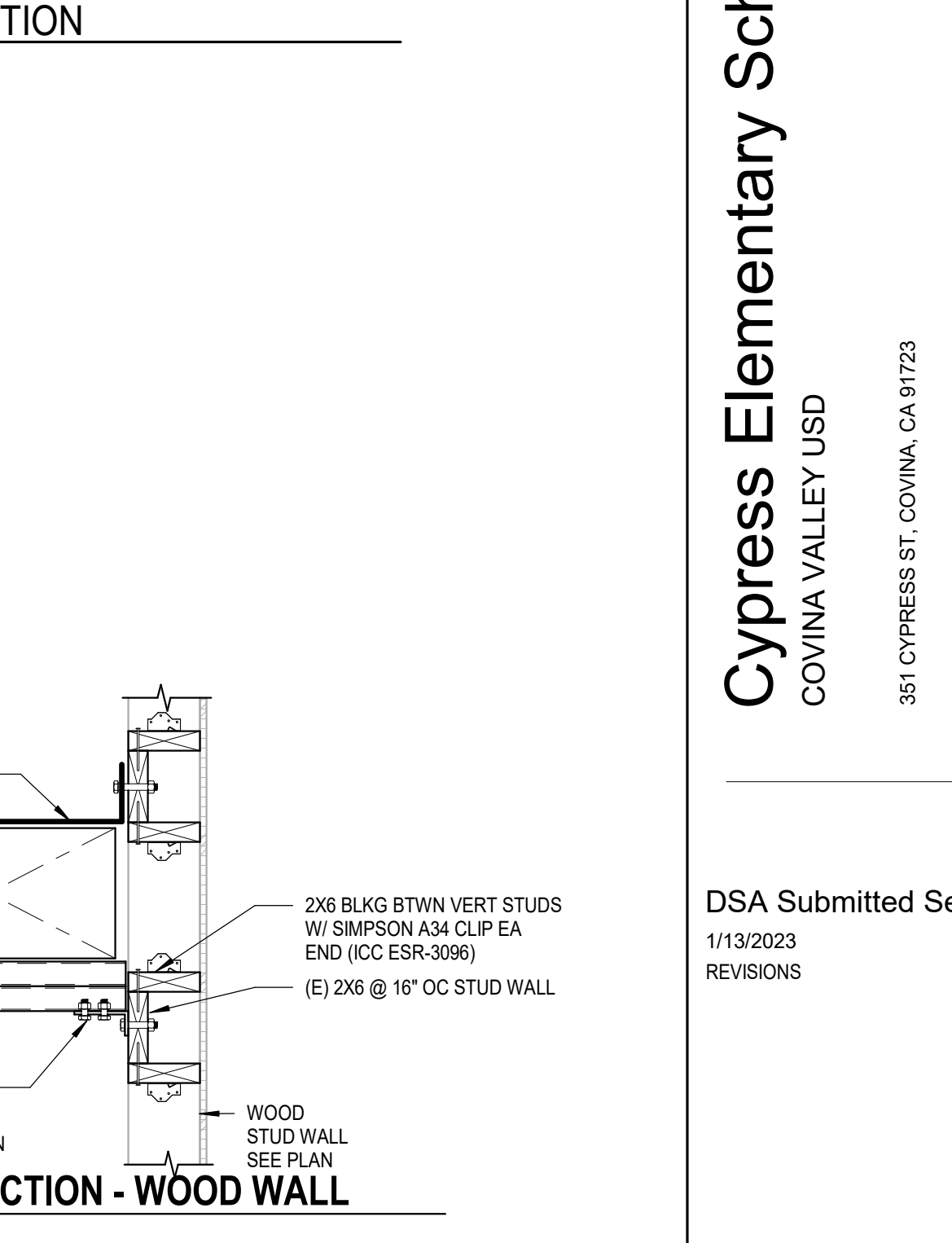
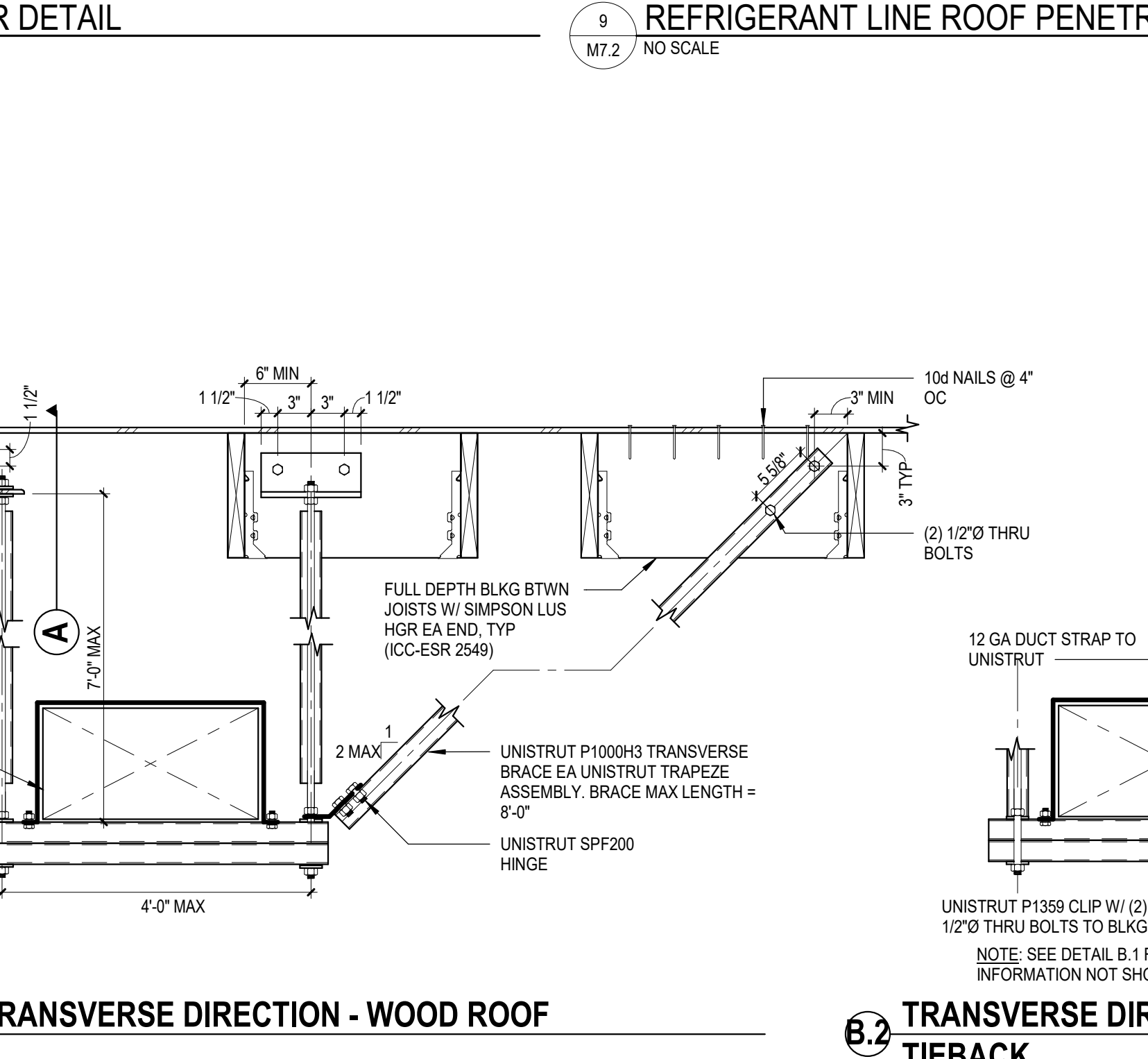
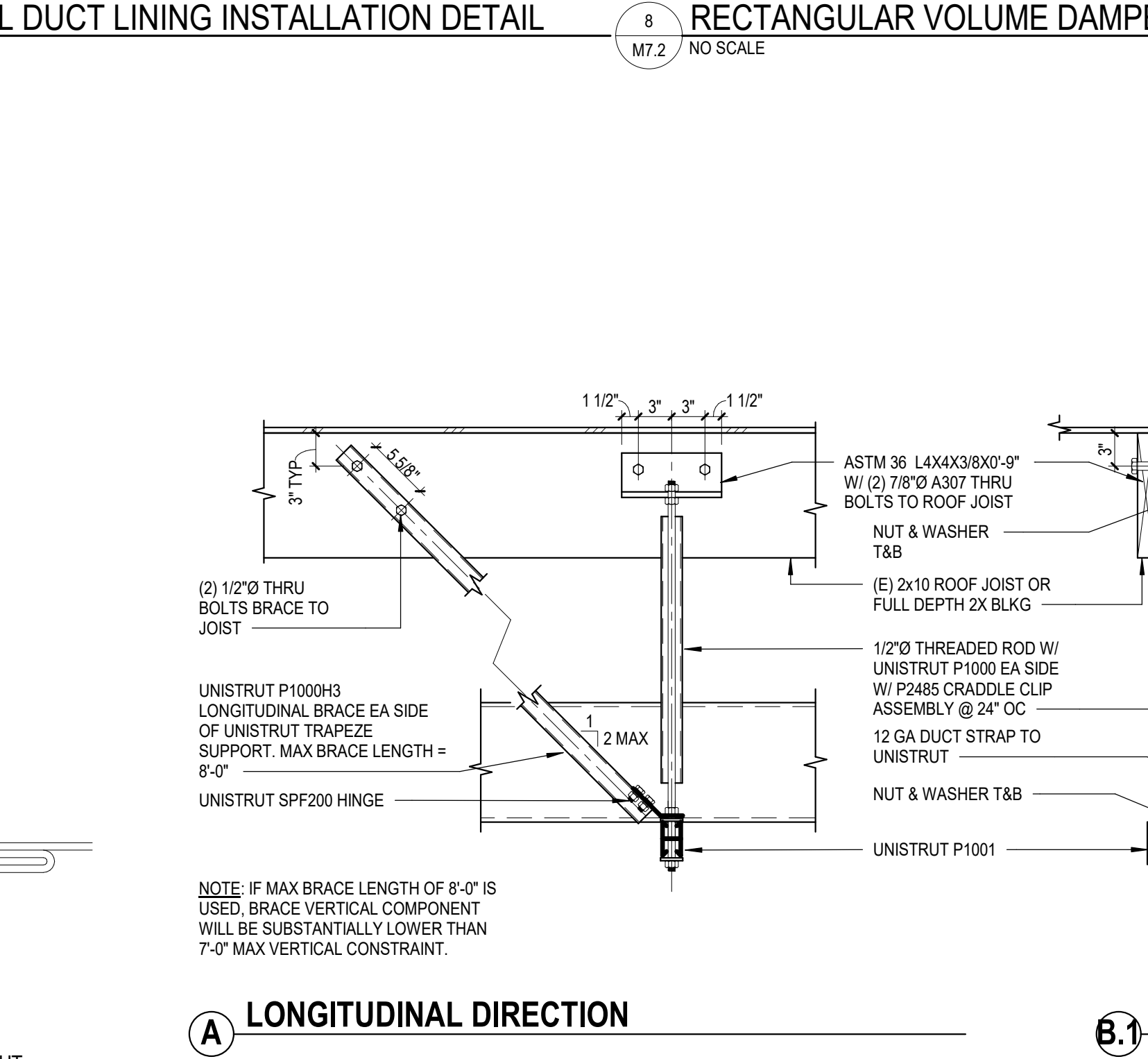
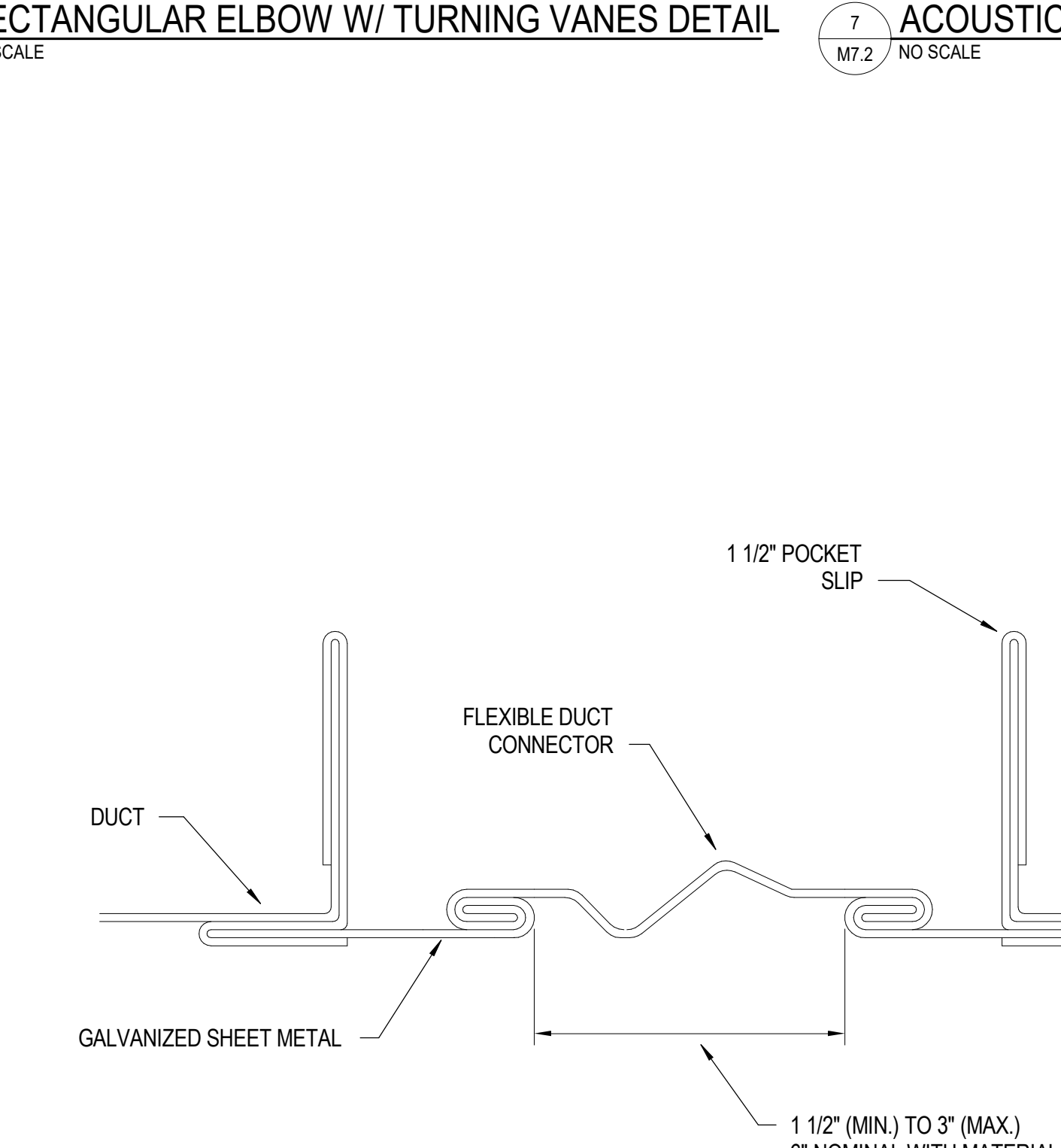
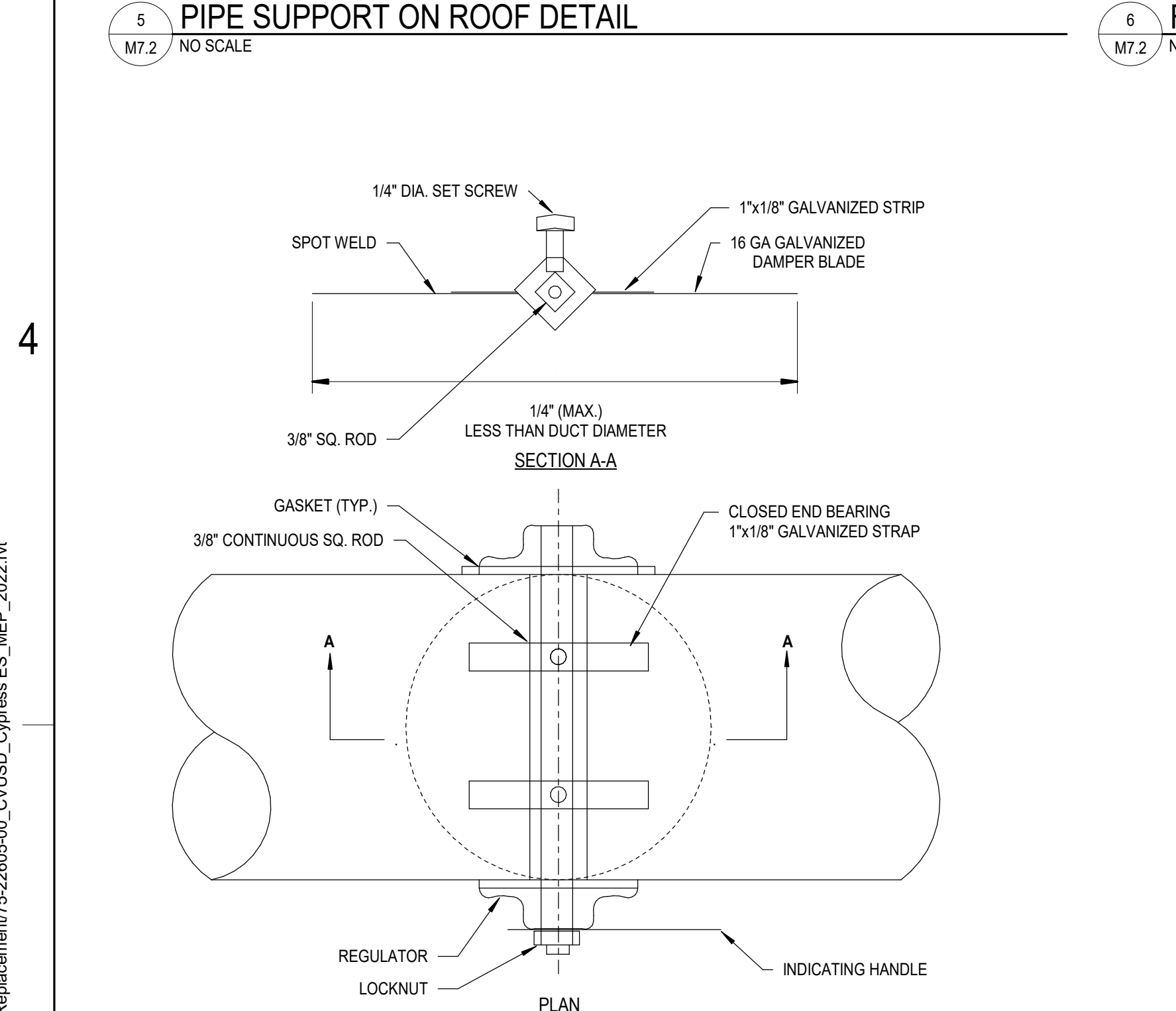
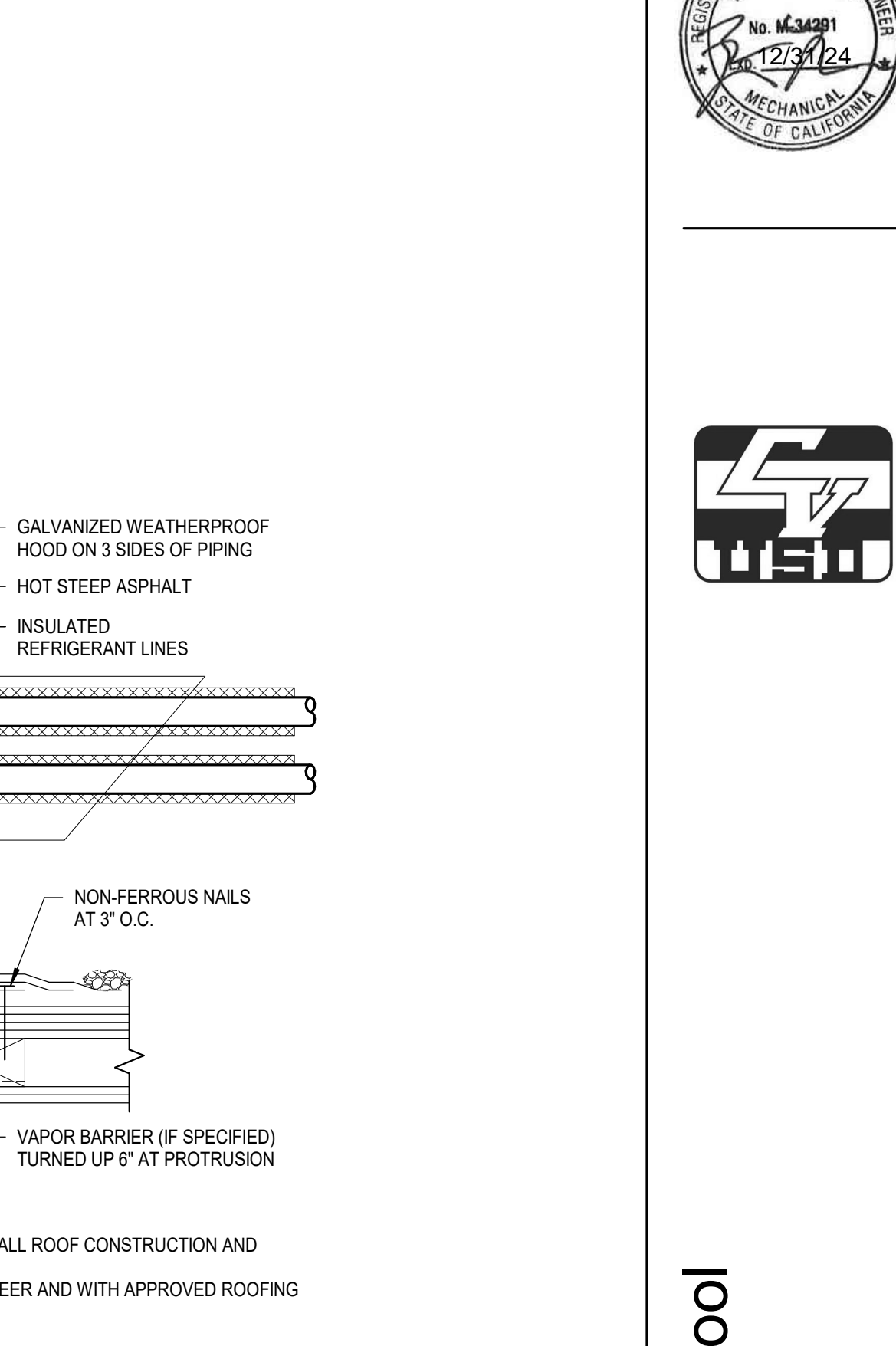
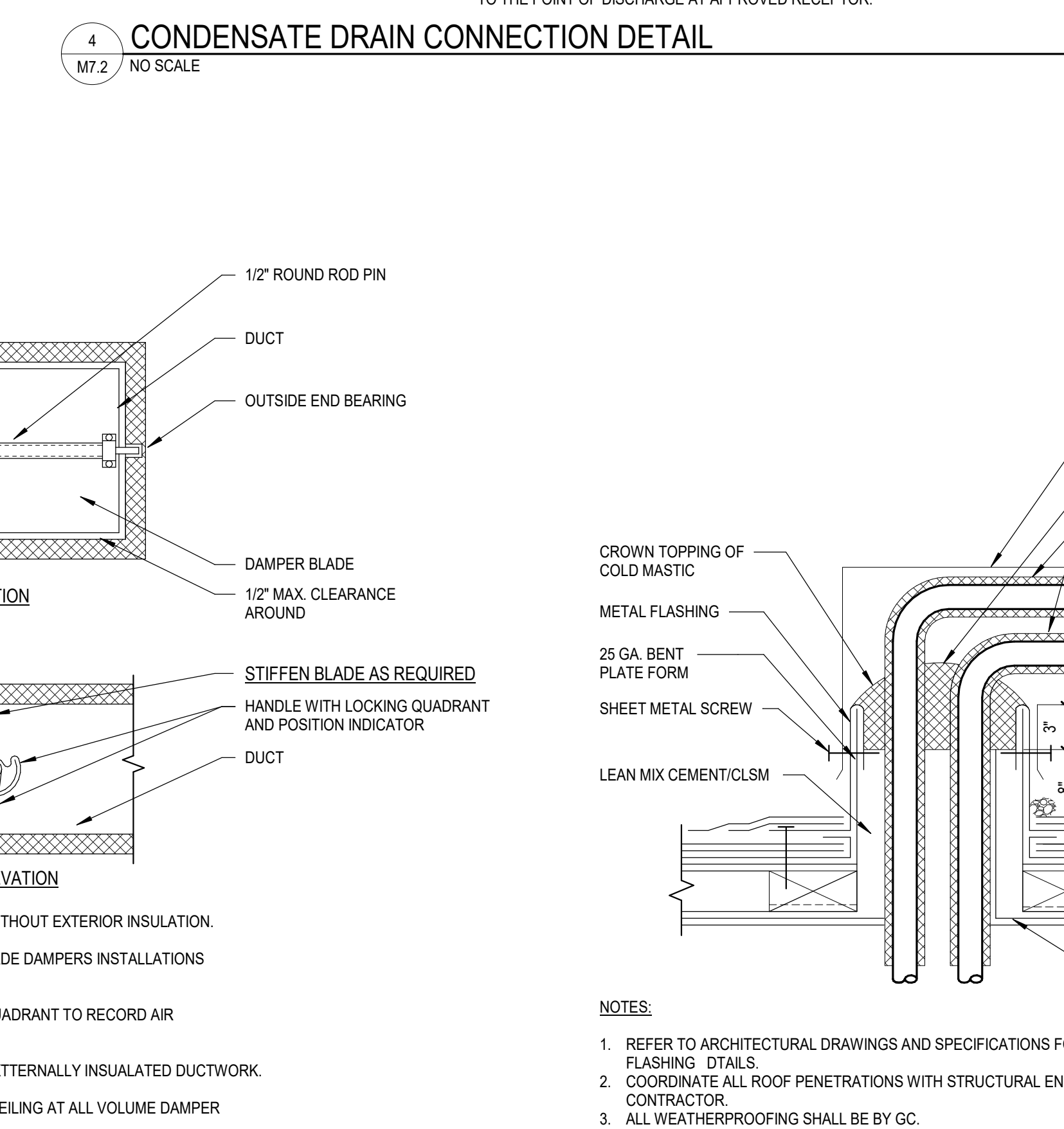
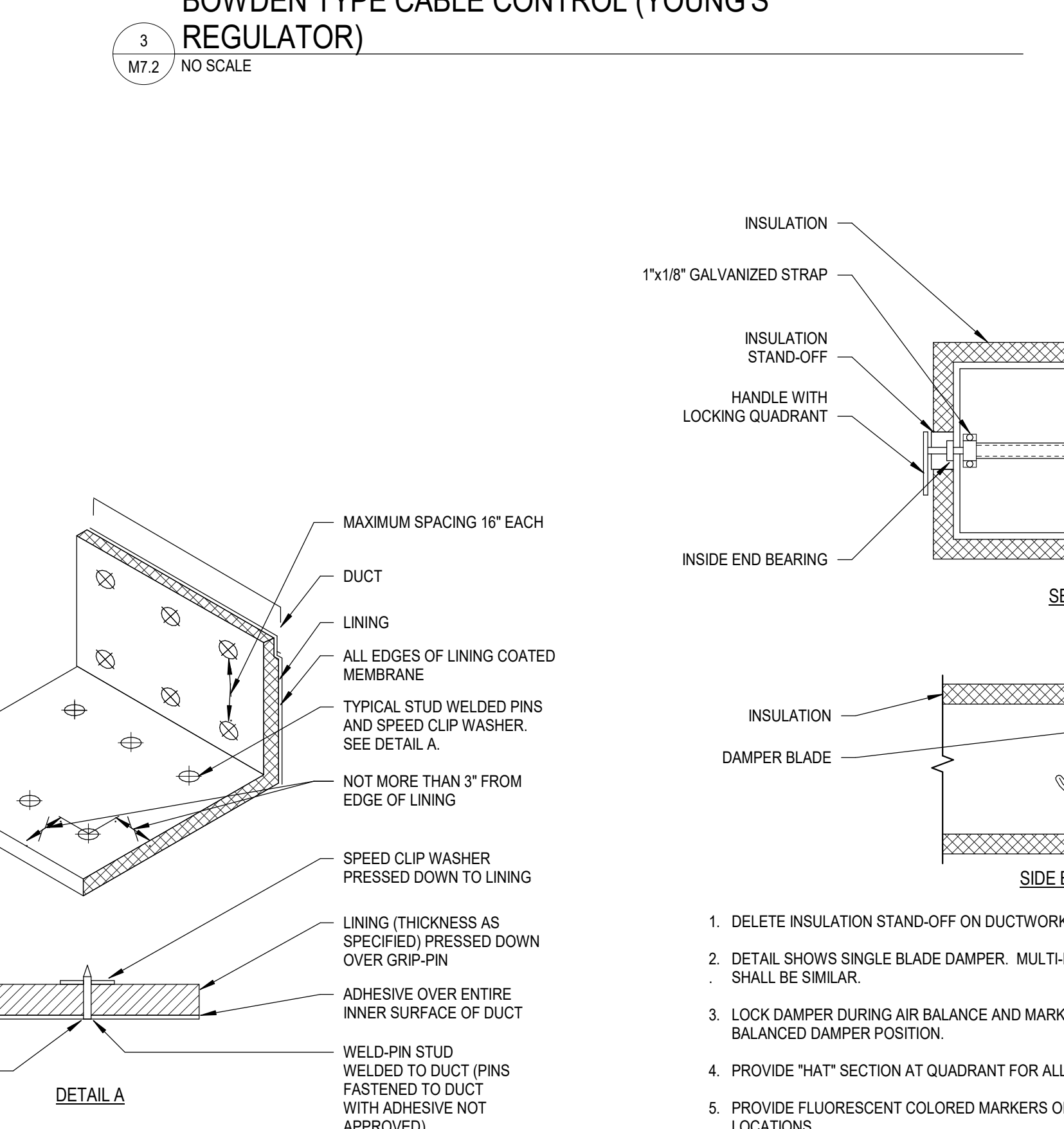
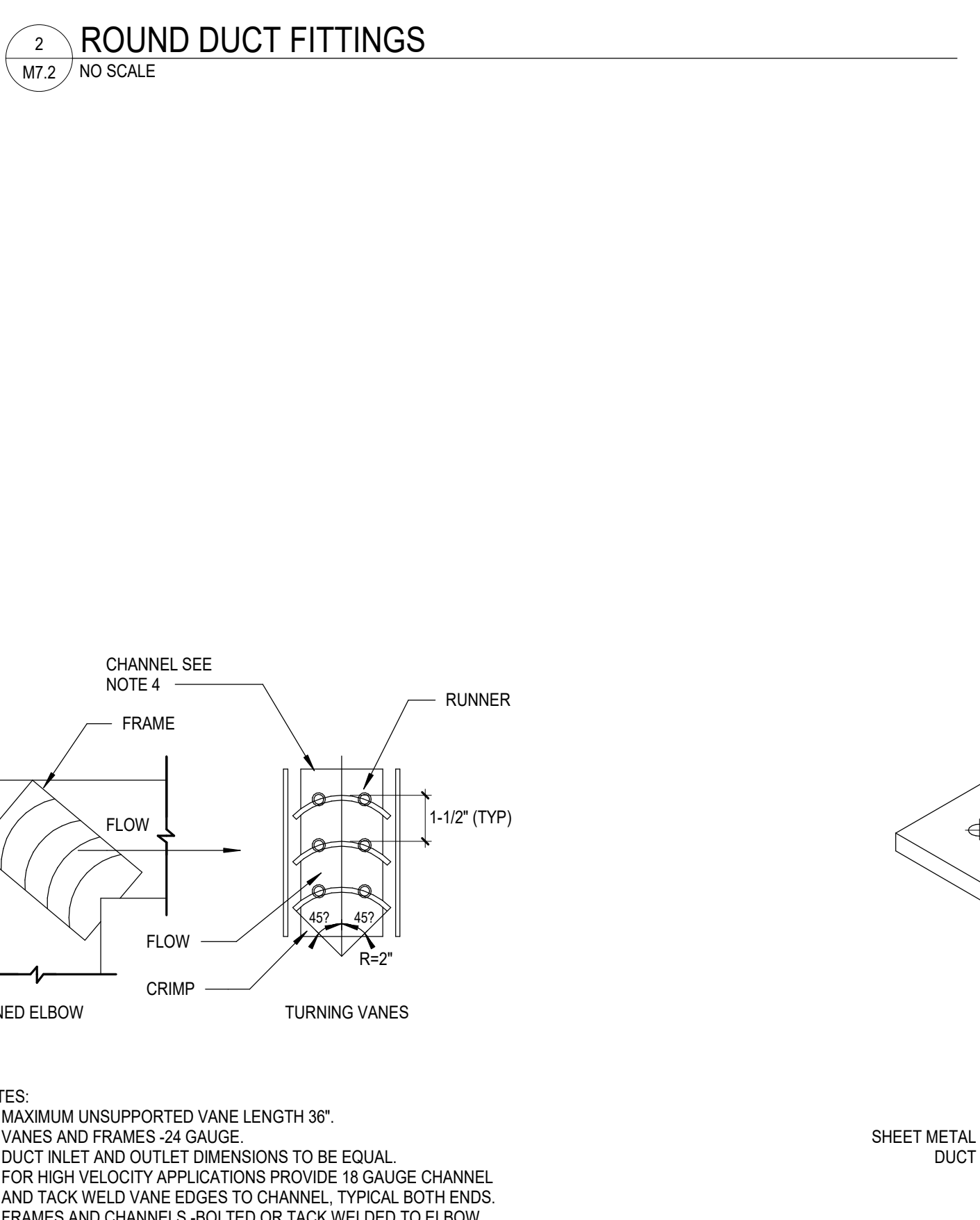
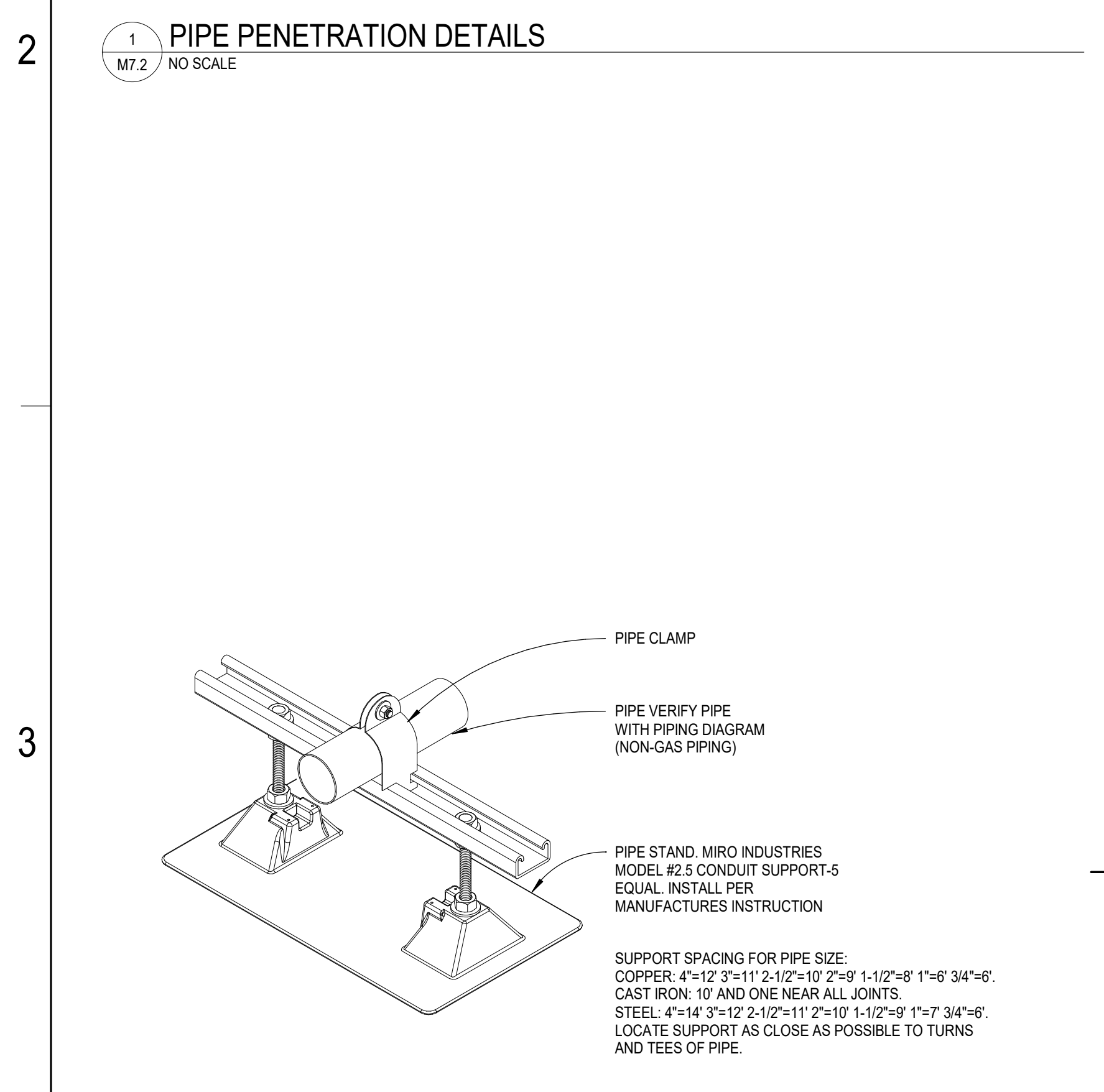
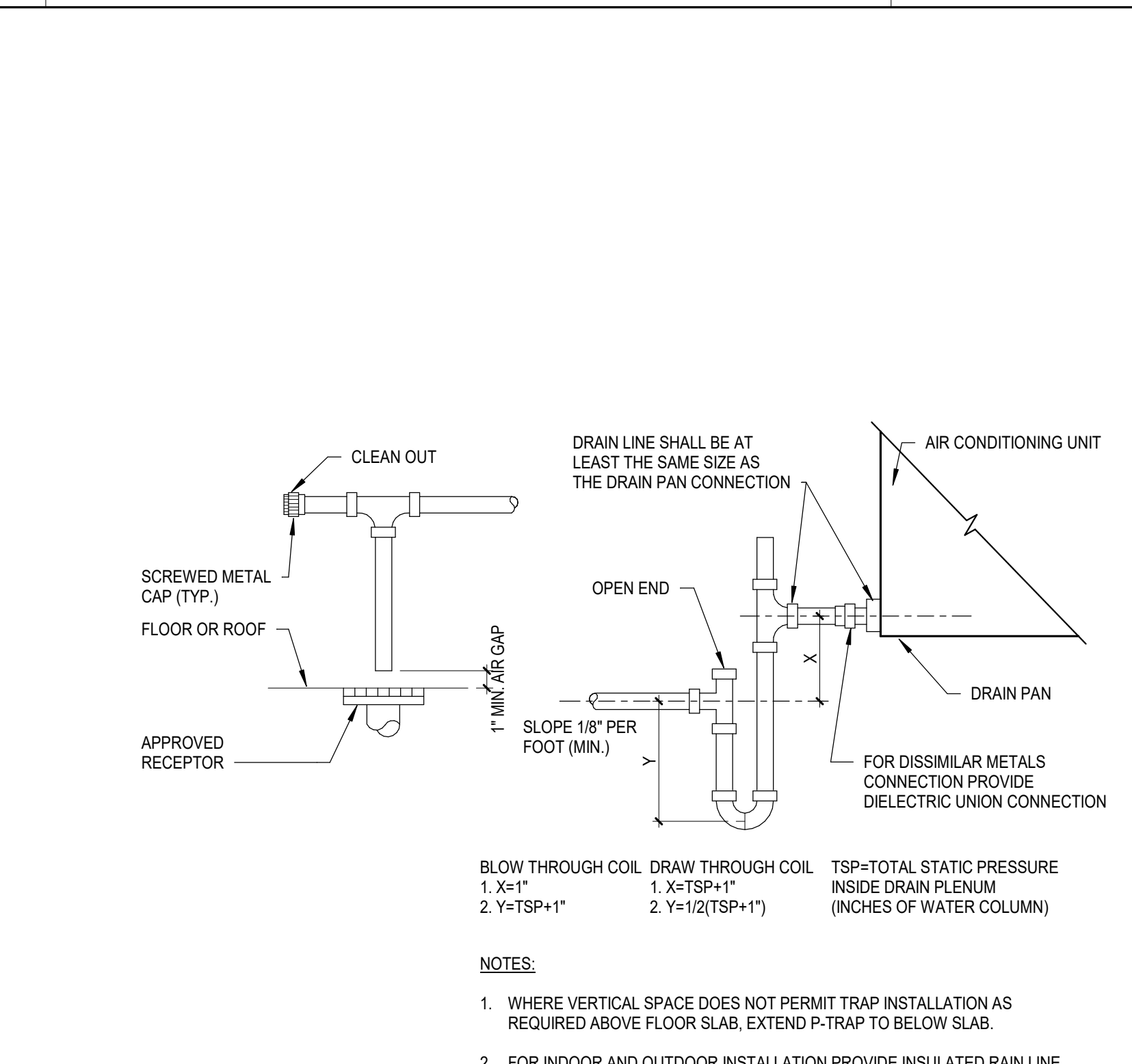
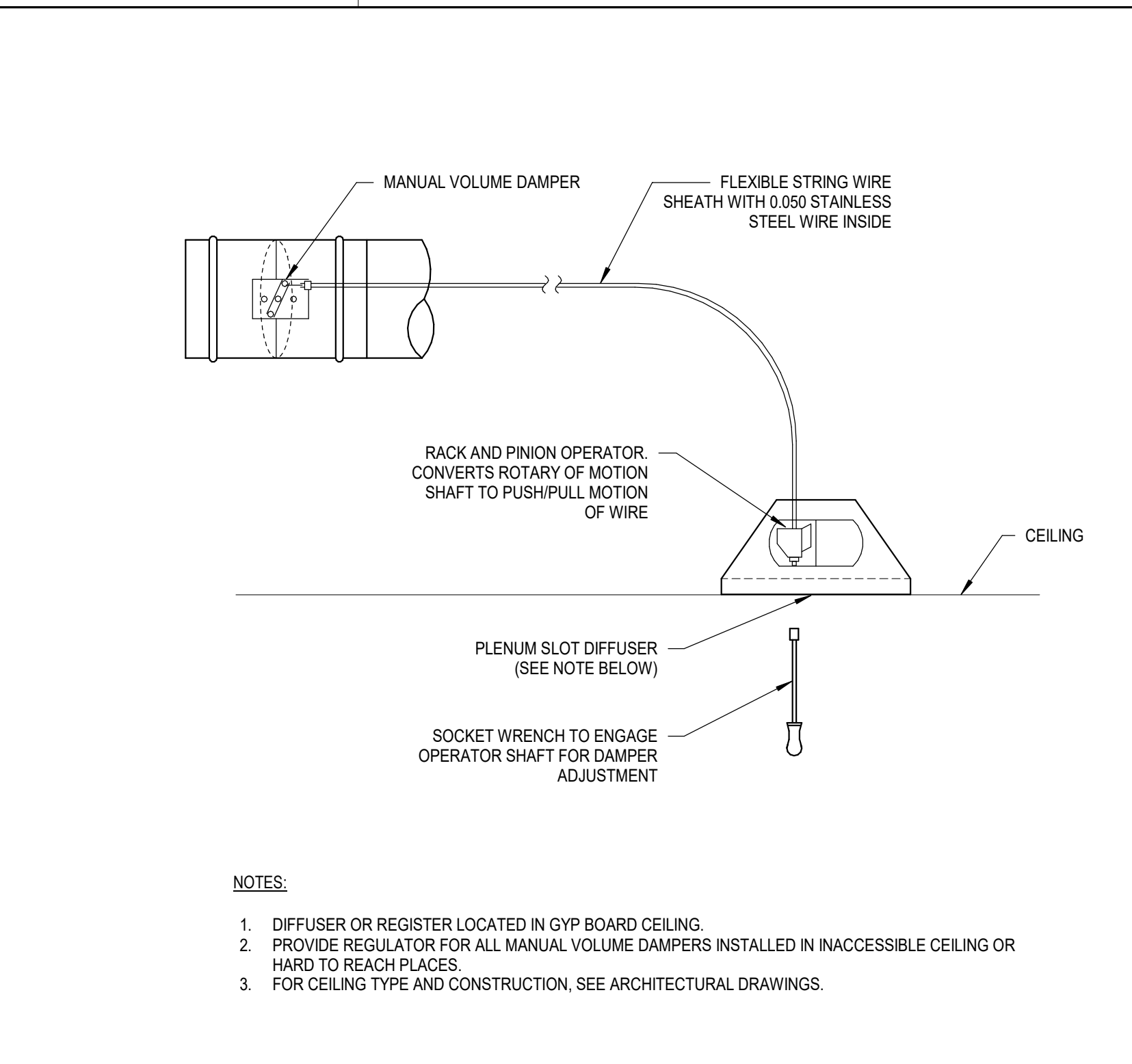
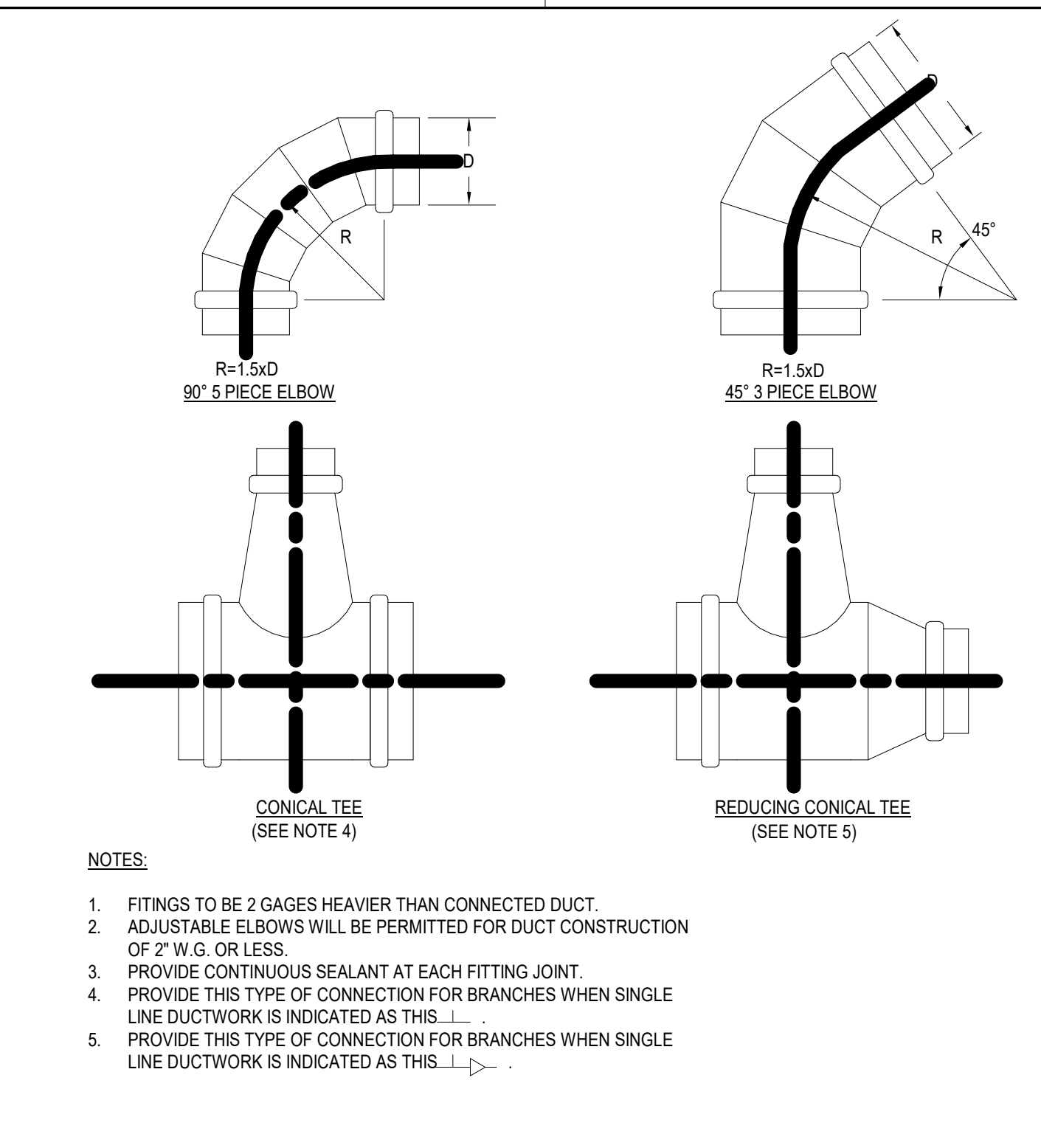
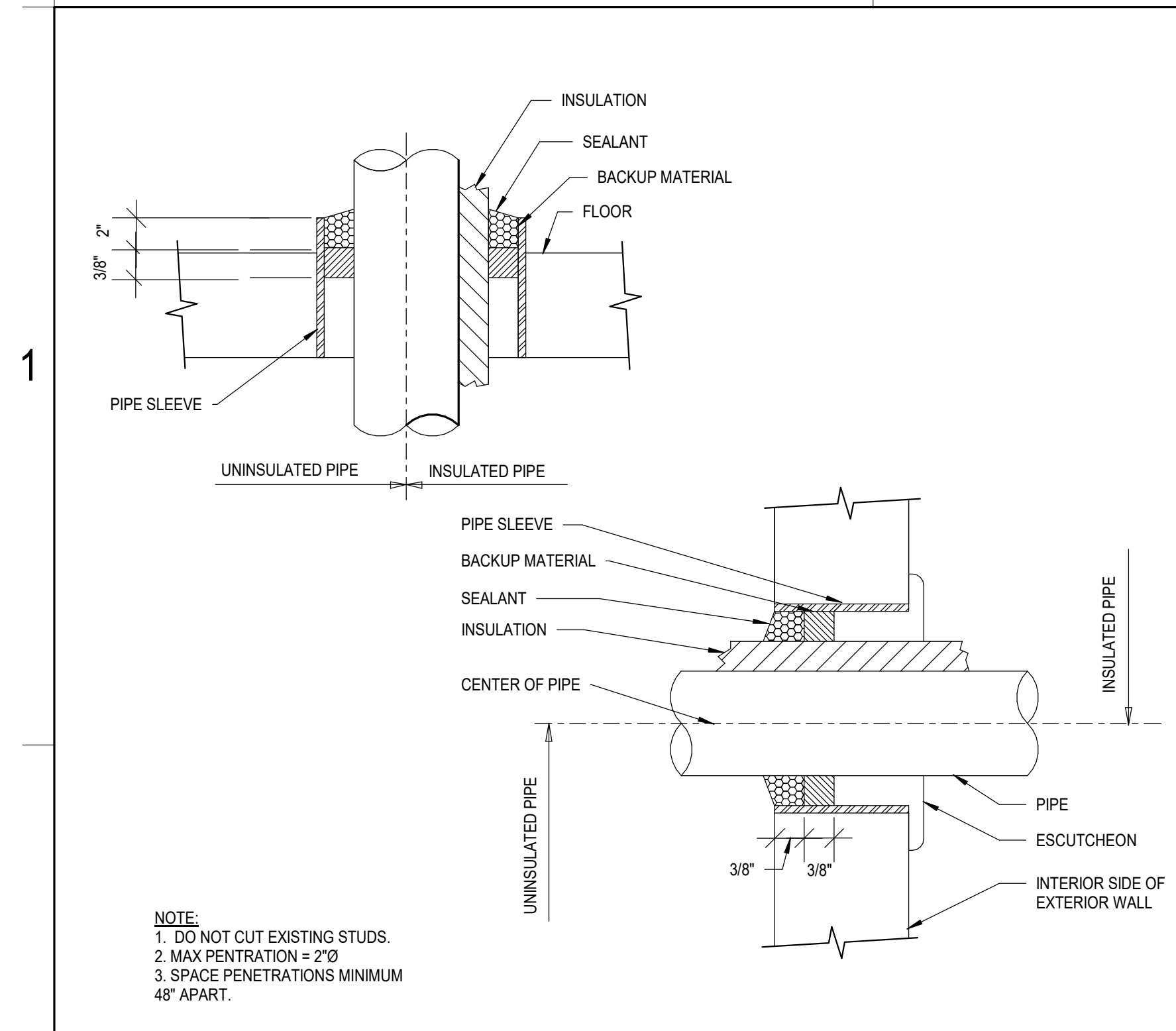
- NOTES:**
- FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH MORE THAN 25% OF TOTAL AIR FLOW

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



13 WOOD PLATFORM DETAIL
 M7.1 NO SCALE

Autodesk Docs/75-22605-00_CVUSD - District Wide HVAC Replacement/75-22605-00_CVUSD_Cypress ES MEP_2022.rvt
 1/25/2023 3:36:30 PM



Autodesk Docs/175-22605-00_CVUSD - District Wide HVAC Replacement/175-22605-00_CVUSD_Cypress_ES MEP_2022.rvt
 1/25/2023 3:36:31 PM

MARK	MAKE	MODEL	M/T/S	SPRING Q.D.	DEFL.
FCU-B1	CARRIER	40RUQA25	1-4	3"	1"

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

VIBREX TYPE **RMXA-3-VLS**

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.

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

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

O.S.H.P.D. PRE-APPROVED
 No. OPM-0203-13

RS-1 - ROD STIFFENER REQUIREMENTS FOR EQUIPMENT CABLE BRACING

TABLE 1. (L MAX. W/O ROD STIFFENER)	
ROD DIA.	3/8" 1/2" 5/8" 3/4" 7/8"
L MAX.	15" 21" 28" 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" 28" 32" 38"

NOTES: 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) (00) ROD STIFFENER CLAMPS PROVIDED IN A KIT. IF ADDITIONAL CLIPS ARE REQUIRED, CONTACT M. W. SAUSSE & CO., INC.

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

Vibrex CABLE RESTRAINTS

JOB NAME: COVINA USD - CYPRUS ELEMENTARY SCHOOL
 CUST.: M.W. SAUSSE & CO., INC.
 CUST. P.O.: 28744 WHITHERSPOON PKWY., VALENCIA, CA 91355
 MECH. ENGR.: DLR 10/05/2022
 MARK: FCU-B1

REVISIONS:
 A: BASE TO HUNG (8-2-22)
 B: ADDED TRANSFORMER WT (8-3-22)
 C:
 D:

DRN: TDT
 DATE: 8-1-22
 DRAWING NO.: -2B

1 FCU STRUCTURAL DETAILS
 M7.3 NO SCALE

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
---------------	-----------------	--------------------	--	----------	----------	------------	----------------	------------

61 1/2, 59 1/2, 1" TYP., 4 3/16, 3 3/4, 29 3/8, 38", 4 3/16, 3/16 TYP., 13/16" DIA UNIT MTG HOLE (8) USE 3/4" DIA. MB, A-307, 3/16 TYP., 1/4" X 3/4" X 1/4" TYP., #1, #2, #3, #4, A, B

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.

7-1/2, 1 1/2, 5, 1 1/2, 4 1/2, 13, 15

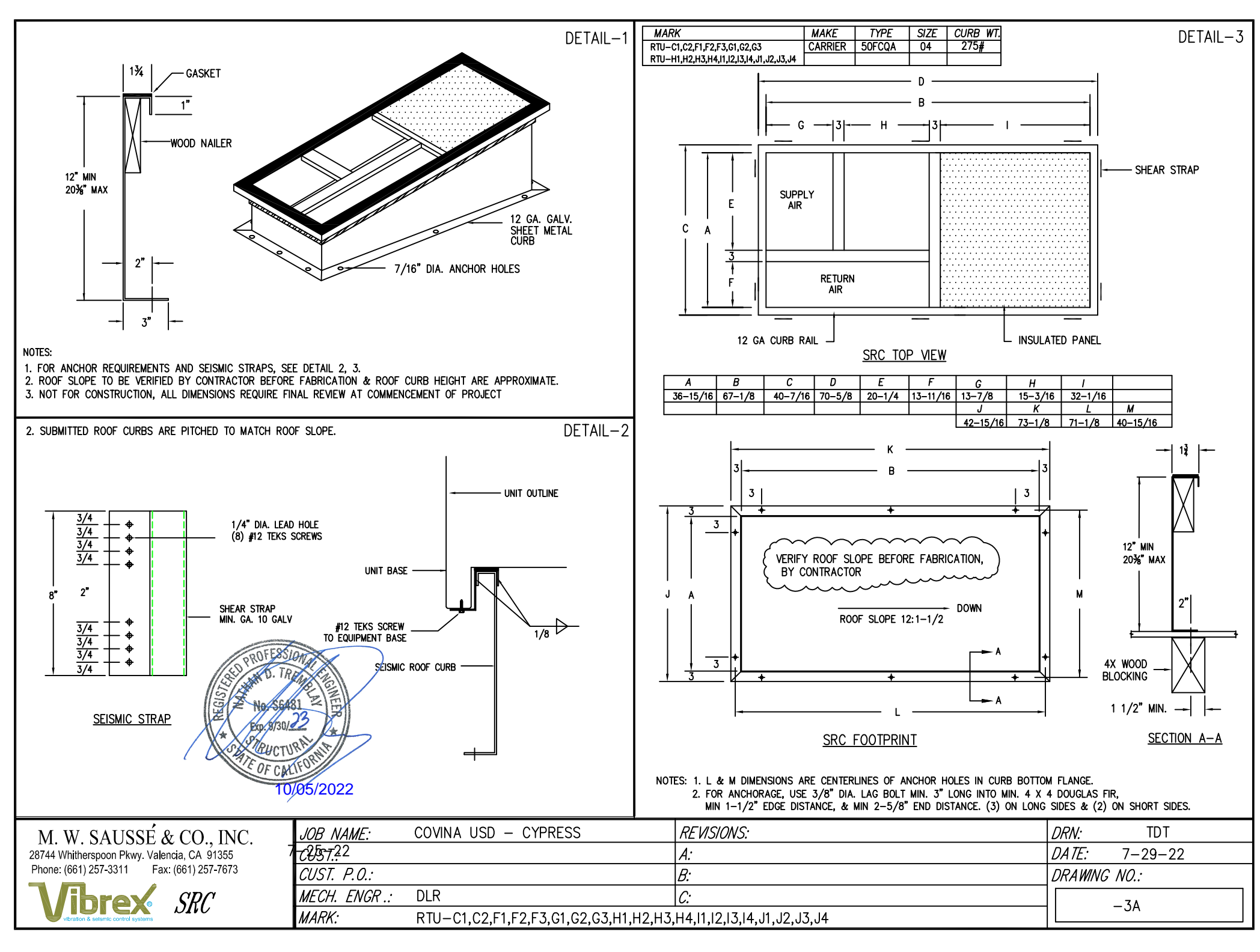
1, 3, 9/16" DIA. HOLE, 2-1/2, 1/2" LEVELING BOLT FOR ISOLATOR ATTACHMENT TO STEEL BASE, 5-7/8 OPER. HT., 5-1/2, VIEW B-B, VIEW A-A

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

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 CUST.: CUST. P.O.: MECH. ENGR.: DLR MARK: CU-B1	REVISIONS: A: CALL OUT ALL ATTACHMENTS ((-2-22)) B: C: D:	DRN: TDT DATE: 08-01-22 DRAWING NO.: -1A
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1 CU-B1
 M7.4 NO SCALE



1 3-TON
 M7.5 NO SCALE

SITE LEGEND

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



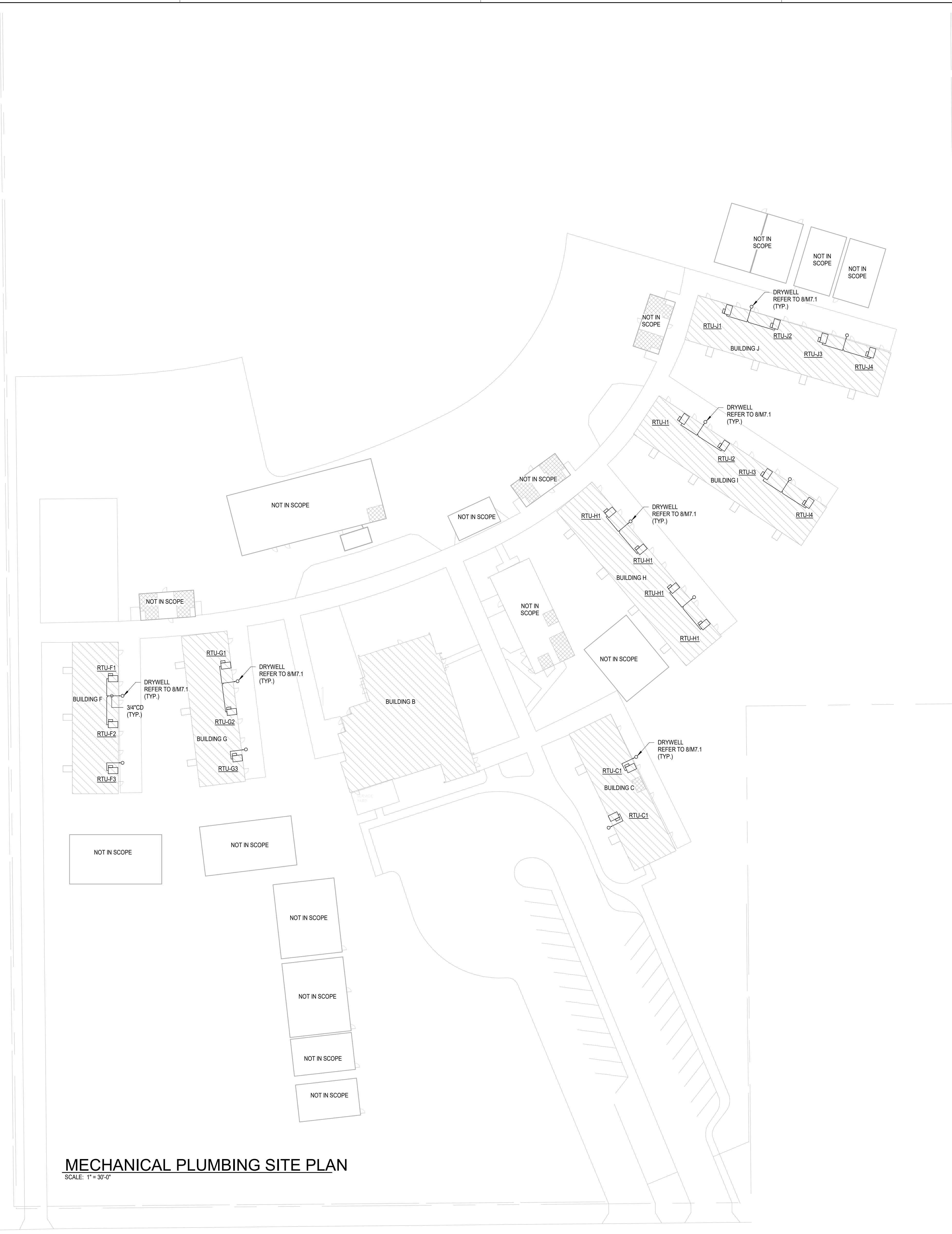
Cypress Elementary School
 COVINA VALLEY USD
 581 CYPRESS ST., COVINA, CA 91723

DSA Submitted Set
 1/13/2023
 REVISIONS

75-22605-00

MECHANICAL PLUMBING SITE PLAN

MP1.1



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

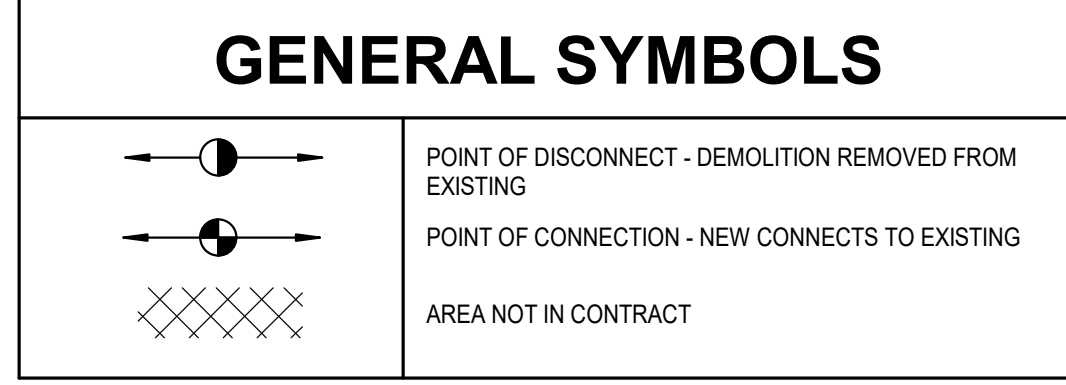
1
2
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4
5

SHEET INDEX

Table with 2 columns: Sheet ID and Description. Includes E0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES; E2.1 ROOF ELECTRICAL PLAN; E5.1 ELECTRICAL DIAGRAMS AND SCHEDULE; E6.1 ELECTRICAL DETAILS.

GENERAL NOTES

- 1. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
2. 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:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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.
3. 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:

- A. 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.
B. 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 PRE-APPROVED 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):

Table with columns for MP, MD, PP, E and corresponding notes for OPTION 1 and OPTION 2.

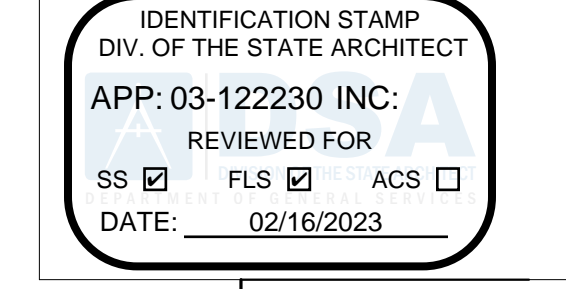
POWER

- 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 6-INCHES ABOVE TOP OF BACKSPLASH OR 8-INCHES ABOVE COUNTER TOP IF NO BACKSPLASH EXISTS.
LABELS SHALL BE MACHINE PRINTED, UNO
SIMPLEX RECEPTACLE
DUPLICATION RECEPTACLE
DUPLICATION RECEPTACLE, GFI TYPE
DUPLICATION RECEPTACLE, MOUNT ABOVE COUNTER
DUPLICATION RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
FOURPLEX RECEPTACLE
FOURPLEX RECEPTACLE, GFI TYPE
FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER
FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
DUPLICATION RECEPTACLE, FLUSH IN CEILING
FOURPLEX RECEPTACLE, FLUSH IN CEILING
DUPLICATION RECEPTACLE, HORIZONTAL MOUNTED
DUPLICATION RECEPTACLE, HORIZ. MTD, GFI TYPE
DUPLICATION RECEPTACLE, HORIZ. MTD, ABOVE COUNTER
DUPLICATION RECEPTACLE, HORIZ. MTD, GFI TYPE, MOUNT ABOVE COUNTER
WEATHER RESISTANT GFI DUPLICATION RECEPTACLE, ROOF MOUNT 18-INCHES ABOVE ADJACENT STRUCTURE WITH A WEATHERPROOF, IN-USE COVER
WEATHER RESISTANT GFI DUPLICATION RECEPTACLE, MOUNT 18-INCHES AFF WITH A WEATHERPROOF, IN-USE COVER
STD DUPLICATION RECEPTACLE TO SERVE ELECTRIC WATER COOLER, MOUNT AT HEIGHT PER ENEC EQUIPMENT MANUFACTURERS INSTALLATION GUIDELINES. WIRE TO GFCI BKR IN PANELBOARD.
DUPLICATION RECEPTACLE TO SERVE TELEVISION, MOUNT AT SAME HEIGHT AND WITHIN 8-INCHES OF ADJACENT TV OUTLET
DUPLICATION RECEPTACLE, EMERGENCY
FOURPLEX RECEPTACLE, EMERGENCY
DUPLICATION RECEPTACLE, LOWER SWITCH
DUPLICATION RECEPTACLE, SWITCHED
RANGE RECEPTACLE, MOUNT 8-INCHES AFF
SPECIAL RECEPTACLE, DEEP WELL BOX
FLUSH FLOOR OUTLET BOX UNO
FLUSH FLOOR BOX WITH DUPLICATION RECEPTACLE UNO
MULTI-DEVICE FLOOR BOX WITH DUPLICATION RECEPTACLE AND TELECOMMUNICATIONS OUTLETS
USB 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

Table listing abbreviations and their full names. Includes DEMOLISHED, ABOVE COUNTER, AMPERE INTERRUPTING CAPACITY, AMPERE, WIRELESS ACCESS POINT, AMP TRIP (CIRCUIT BREAKER OR FUSE), AUTOMATIC TRANSFER SWITCH, AUDIO-VISUAL, AMERICAN WIRE GAUGE, BUILDING AUTOMATION SYSTEM, BUILDING JUMPER, BUILDING MANAGEMENT SYSTEM, CONDUIT, CABLE TELEVISION, CATV, CIRCUIT BREAKER, CLOSED CIRCUIT TELEVISION, CONTRACTOR FURNISHED CONTRACTOR INSTALLED, CIRCUIT, CONTROL, COPPER, DECIBEL, DIRECT CURRENT, DISCONNECT, DISTRIBUTION PANELBOARD, DISHWASHER, EMERGENCY COMMUNICATION SYSTEM, ELECTRICAL GROUNDING BUSBAR, ESTIMATED MAXIMUM DEMAND, ELECTRICAL MAIN GROUNDING BUSBAR, EXPLOSION PROOF, EXISTING TO BE RELOCATED, ENERGY REDUCTION MAINTENANCE SWITCH, ELECTRIC WATER COOLER, FIRE ALARM, FIRE ALARM ANNUNCIATOR, FIRE ALARM CONTROL PANEL, FOOT CANDLE, FULL LOAD AMPS, FLOW SWITCH, FIRE SMOKE DAMPER, EQUIPMENT GROUNDING CONDUCTOR, GENERATOR, GFI, GFCI, GROUND FAULT CIRCUIT INTERRUPTER, GROUND FAULT PROTECTION OF EQUIPMENT, EQUIPMENT GROUNDING CONDUCTOR, HANDHOLE, HAND-OFF-AUTOMATIC, HORSE POWER, INTERCOM, ISOLATED GROUND, JUNCTION BOX, THOUSAND AMPERE INTERRUPTING CIRCUIT, KILOWATT, KILOWATT AMPERES, KILOWATT, LIGHT, LIGHTING, MINIMUM CIRCUIT AMPACITY, MAIN CIRCUIT BREAKER, MOTOR CONTROL CENTER, MANHOLE, MAIN LUGS ONLY, MAXIMUM OVERCURRENT PROTECTION, MOTOR RATED TOGGLE SWITCH, MAIN SWITCHBOARD, MOUNTED, MOUNTING, MAIN TRANSFER SWITCH, NEUTRAL, NORMALLY CLOSED, NORMALLY OPEN, NON-FUSED, NIGHT LIGHT, OWNER FURNISHED CONTRACTOR INSTALLED, OUTSIDE SCREW AND YOKE, POLE(S), PUBLIC ADDRESS, PULL BOX, PHASE, POST INDICATOR VALVE, PANEL, POWER, REFLECTED CEILING PLAN, RECEPTACLE, REFERENCE, RESPONSIVE, SHORT CIRCUIT CURRENT RATING, SMOKE DAMPER, SECONDARY, SURGE PROTECTION DEVICE, SWITCHBOARD, TELECOMMUNICATIONS BONDING BACKBONE, TIME CLOCK, TELECOMMUNICATIONS GROUNDING BUSBAR, TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, TELECOMMUNICATIONS OUTLET, TELECOMMUNICATIONS ROOM, TAMPER SWITCH, TELEVISION, UNDERGROUND, UNINTERRUPTABLE POWER SUPPLY, VOLT, VOLT-AMPERE, VARIABLE FREQUENCY DRIVE, WIRE, TELECOMMUNICATIONS WORK AREA, WIRE GUARD, WEATHER-PROOF (NEMA 3R), TRANSFORMER.



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ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E0.1

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.

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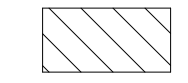
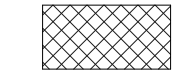
GENERAL NOTES

- 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 COORDINATE AND VERIFY.
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	FUSED DISCONNECT SIZE PER TABLE SHOWN ON ES.1.
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-B1 AT GRADE.

SITE LEGEND

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

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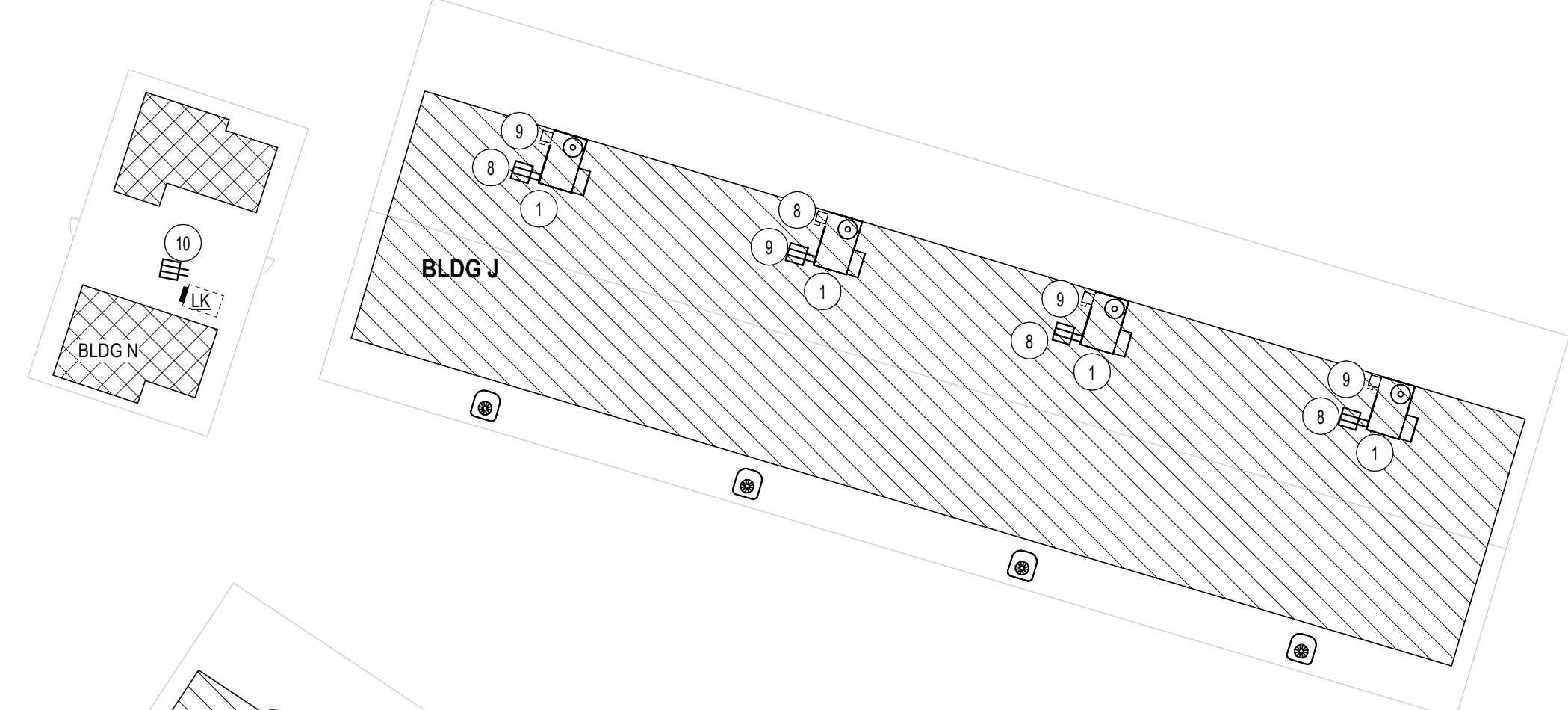
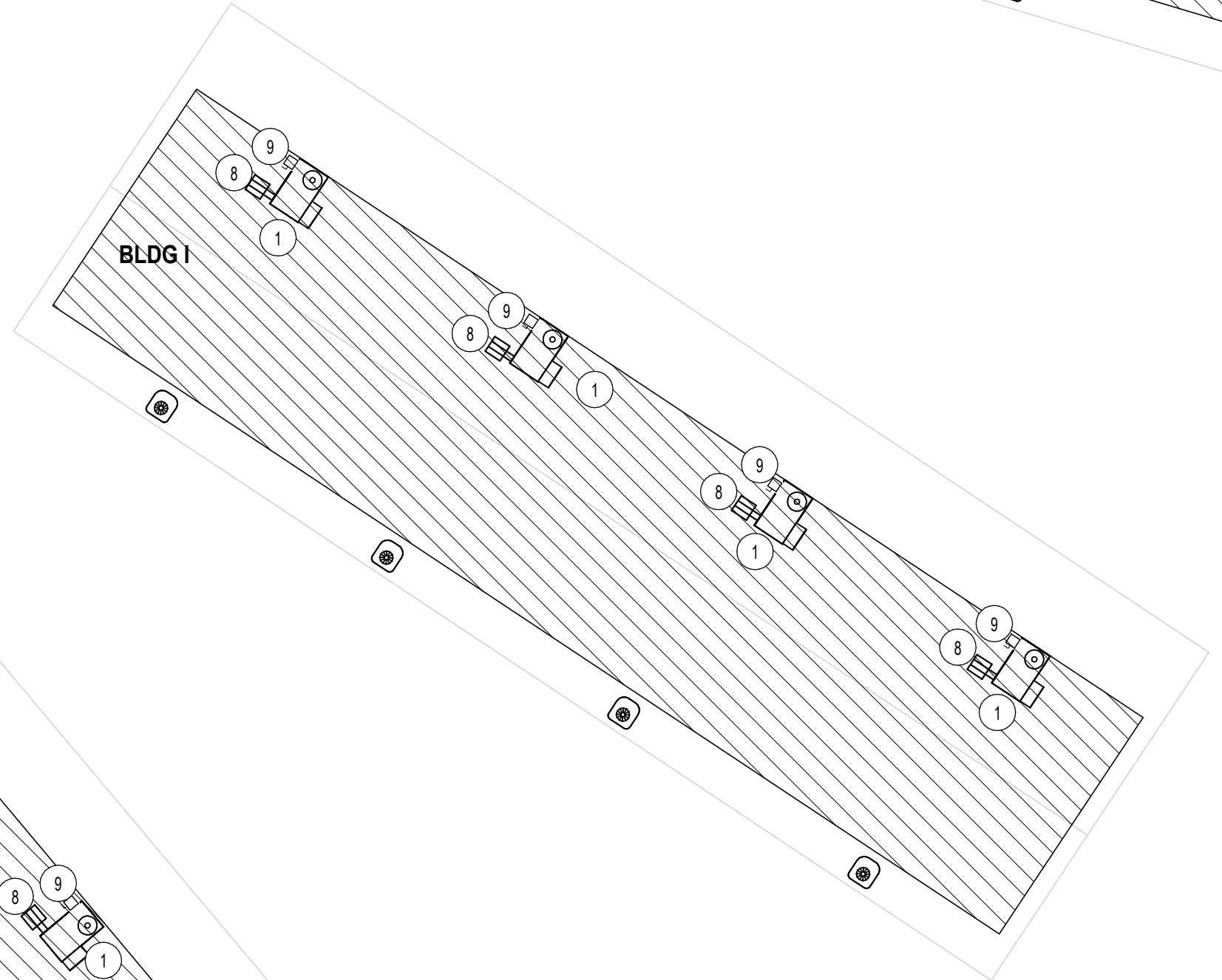
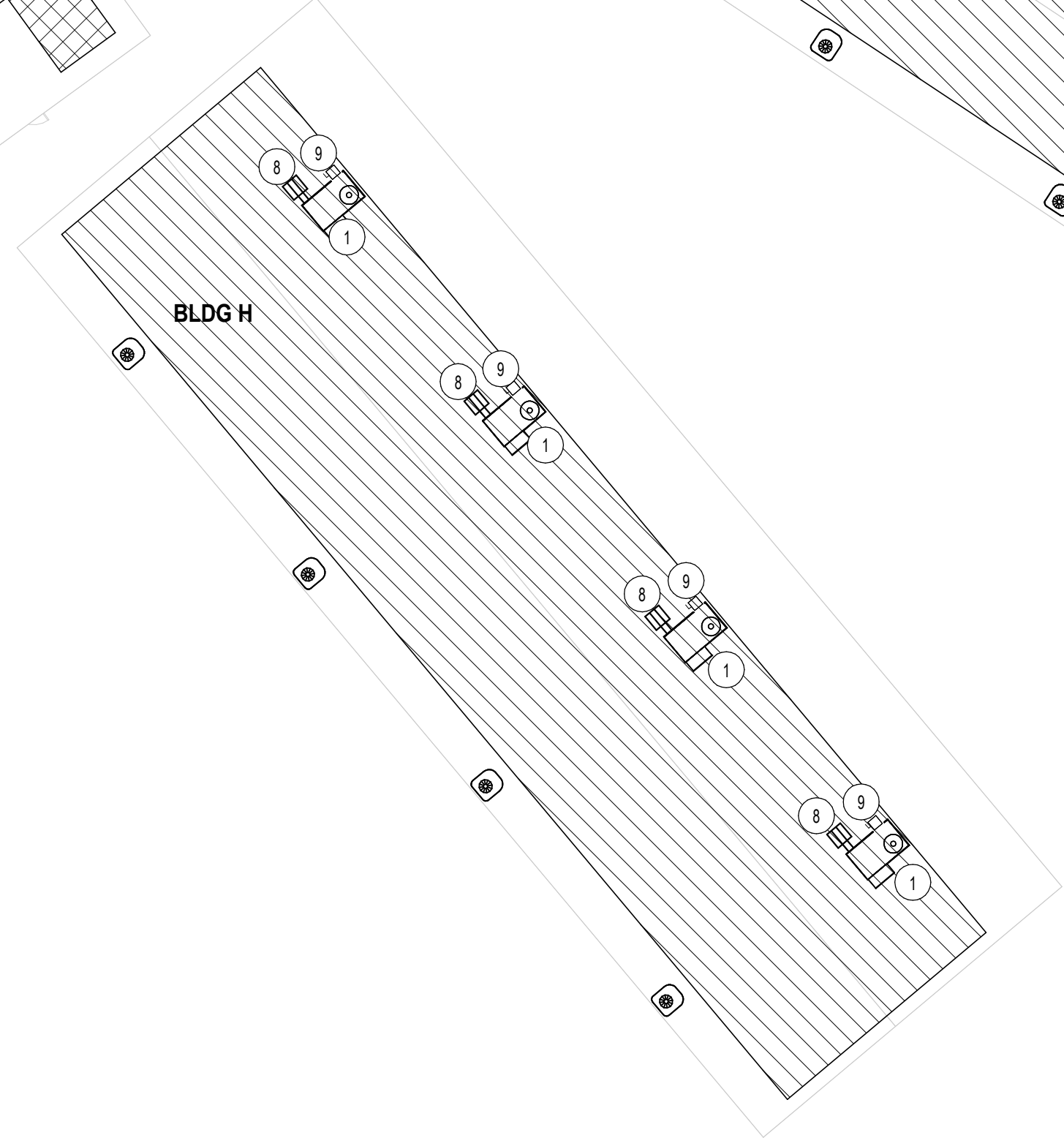
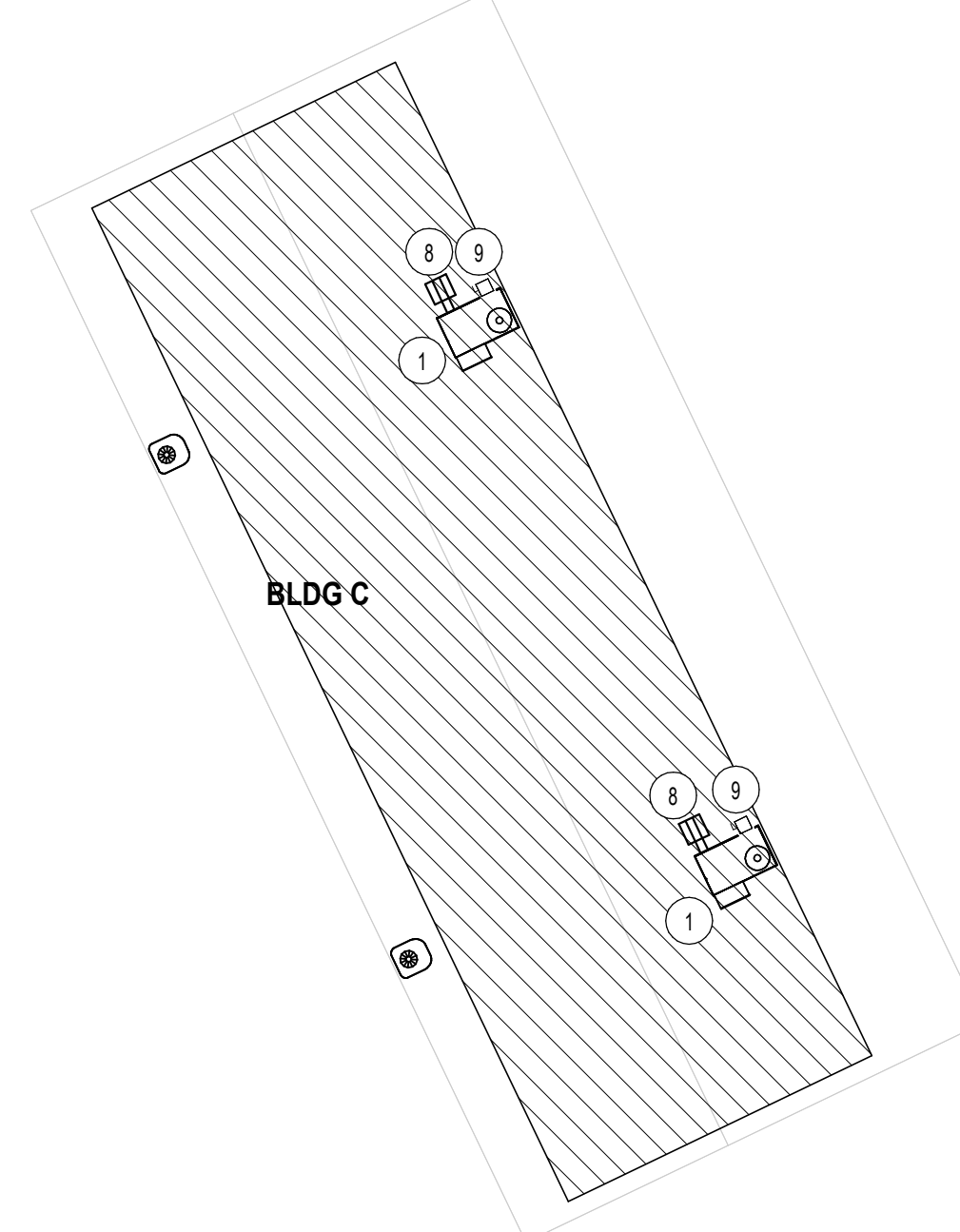
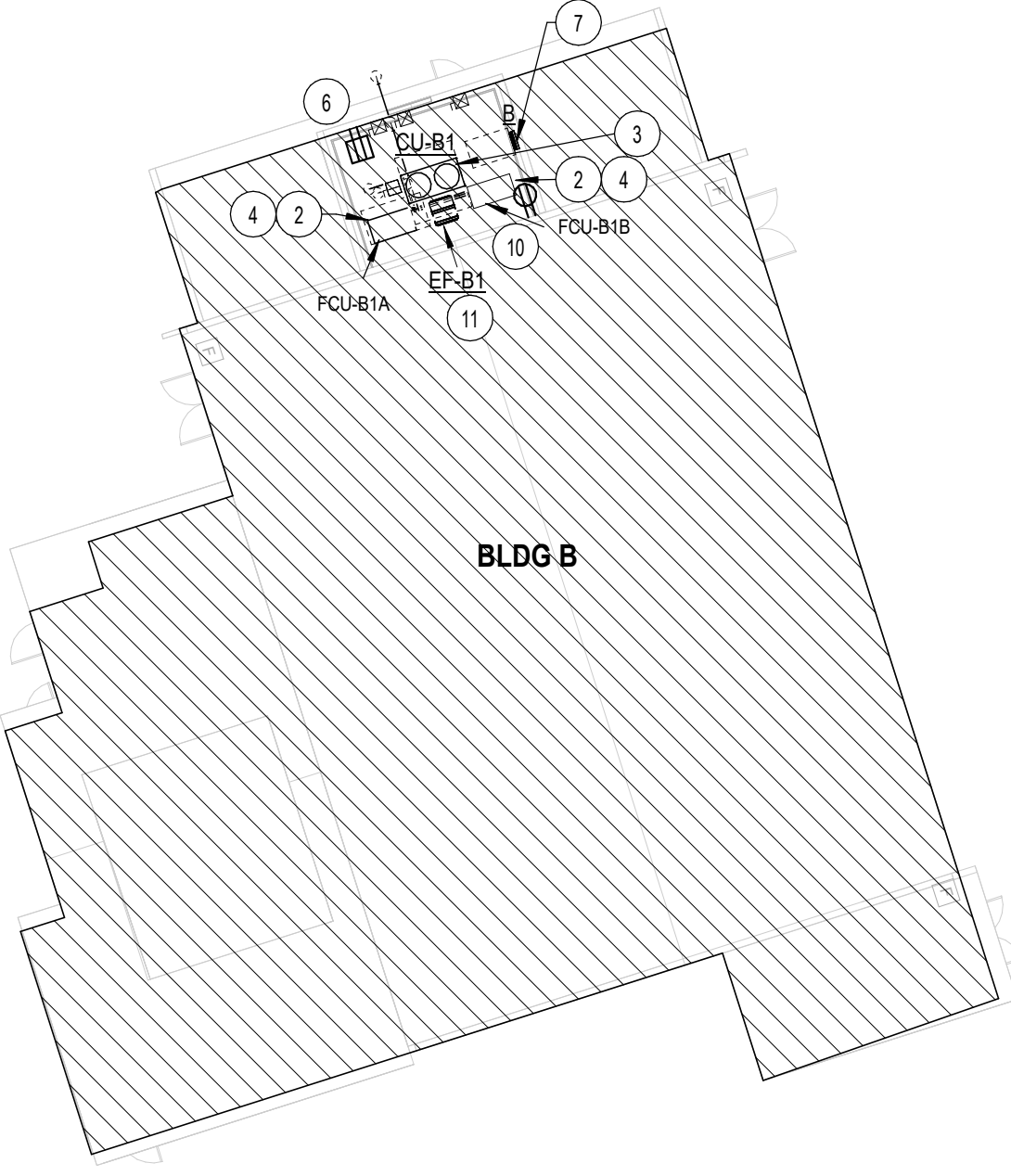
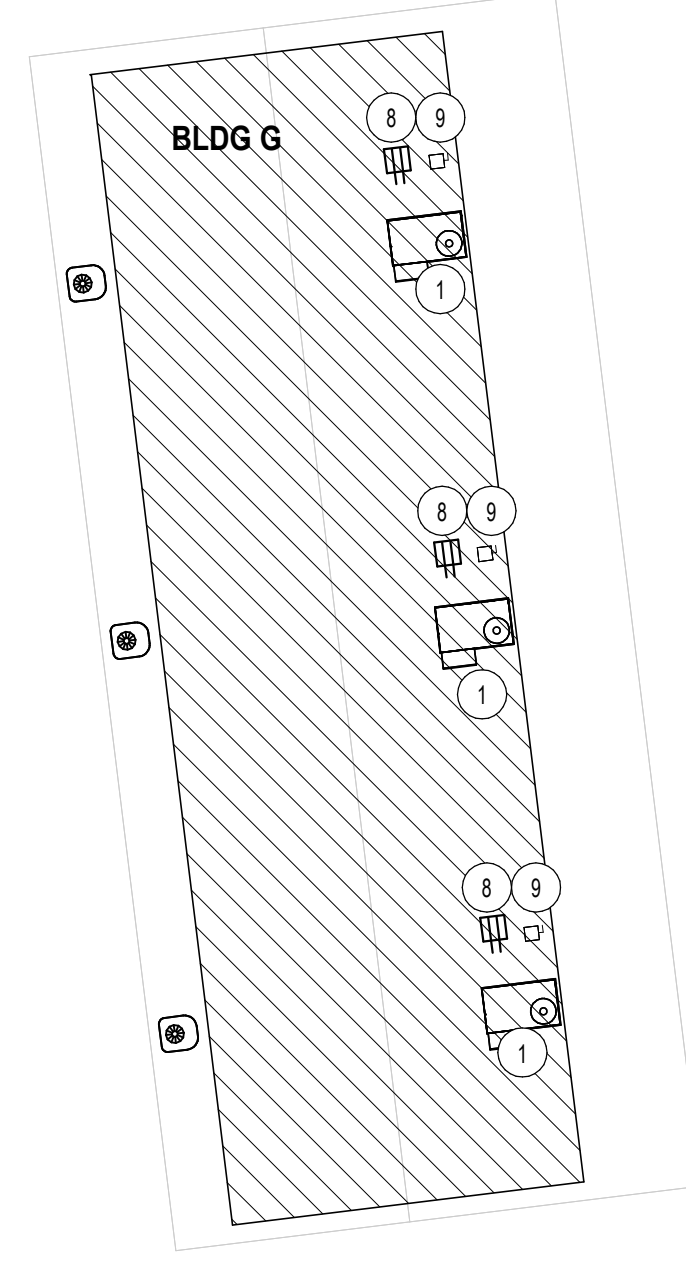
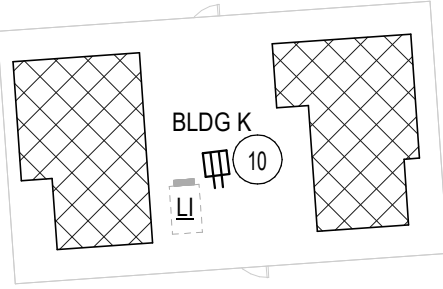
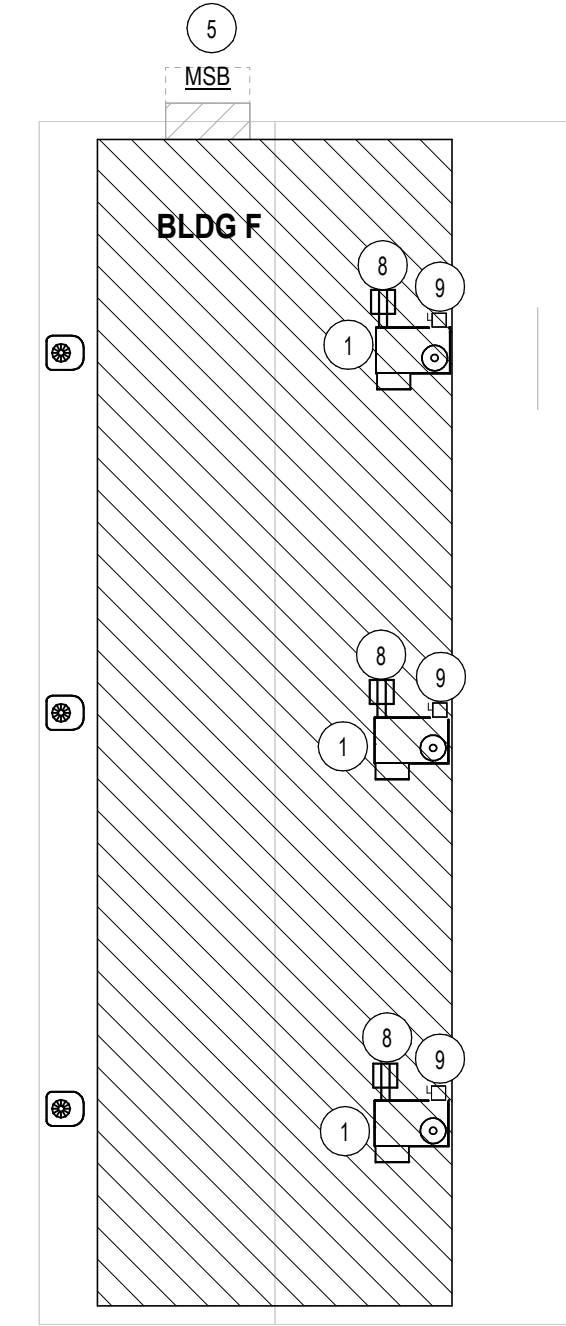
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ROOF
ELECTRICAL
PLAN

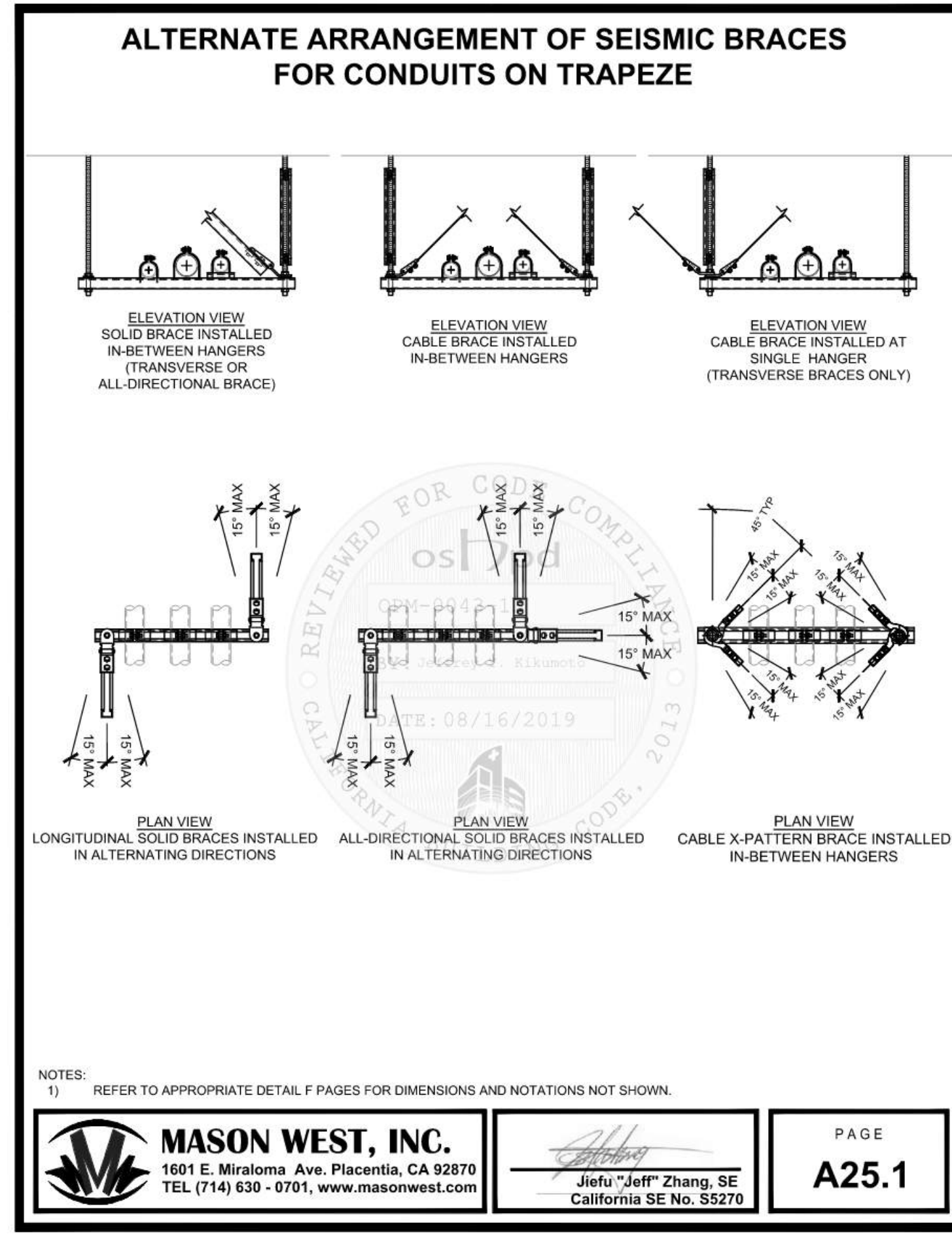
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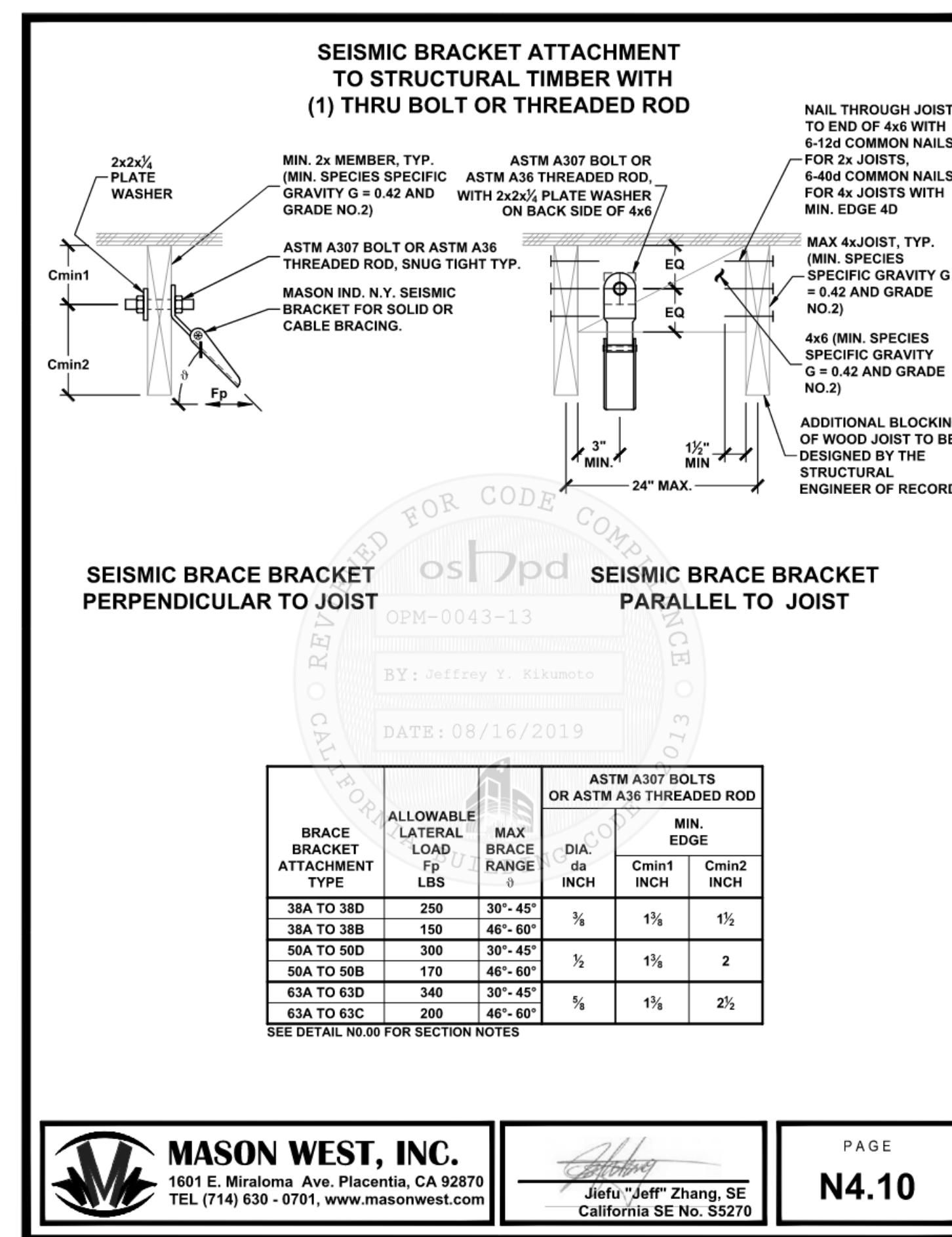
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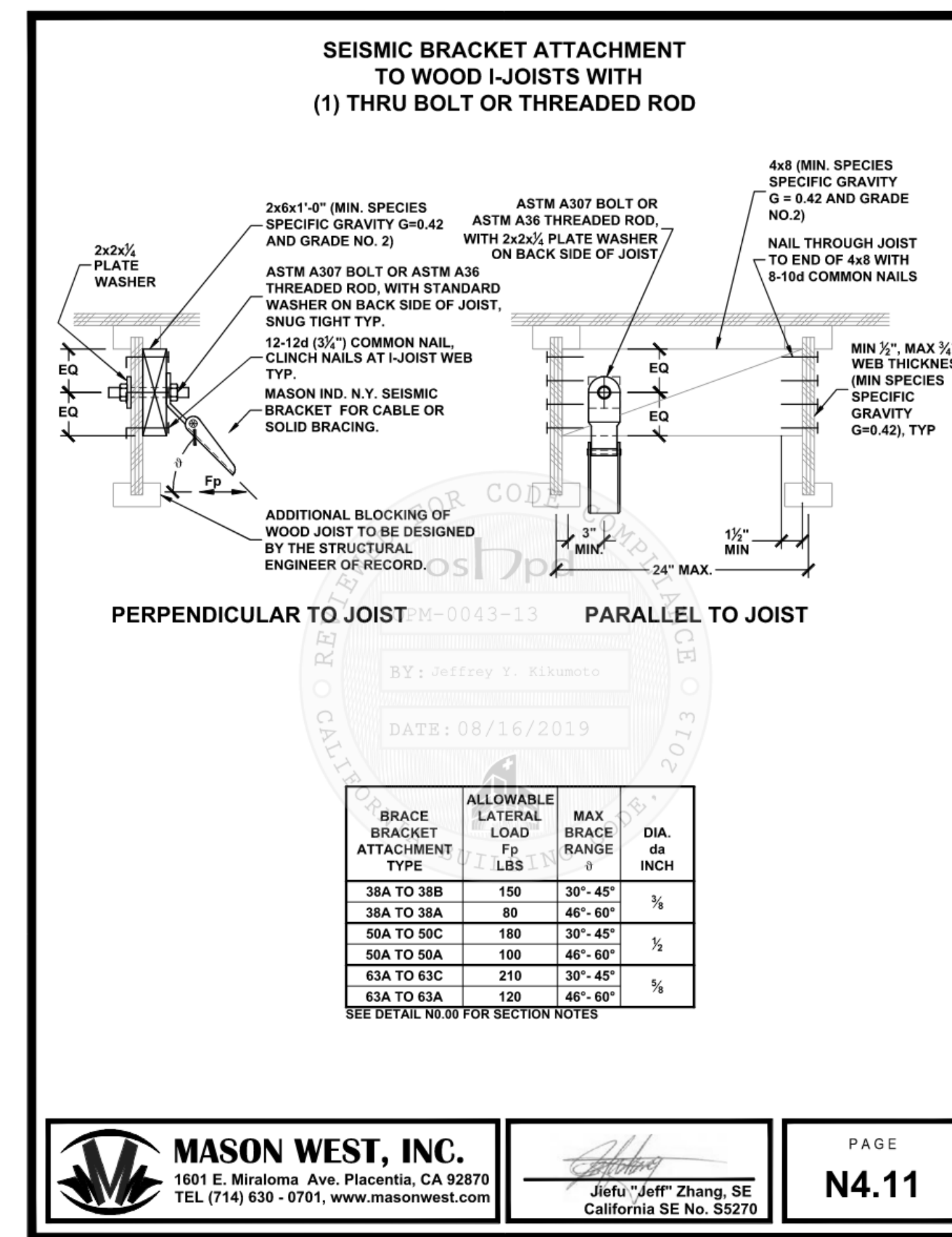
OVERALL ELECTRICAL POWER PLAN
SCALE: 1/16" = 1'-0"



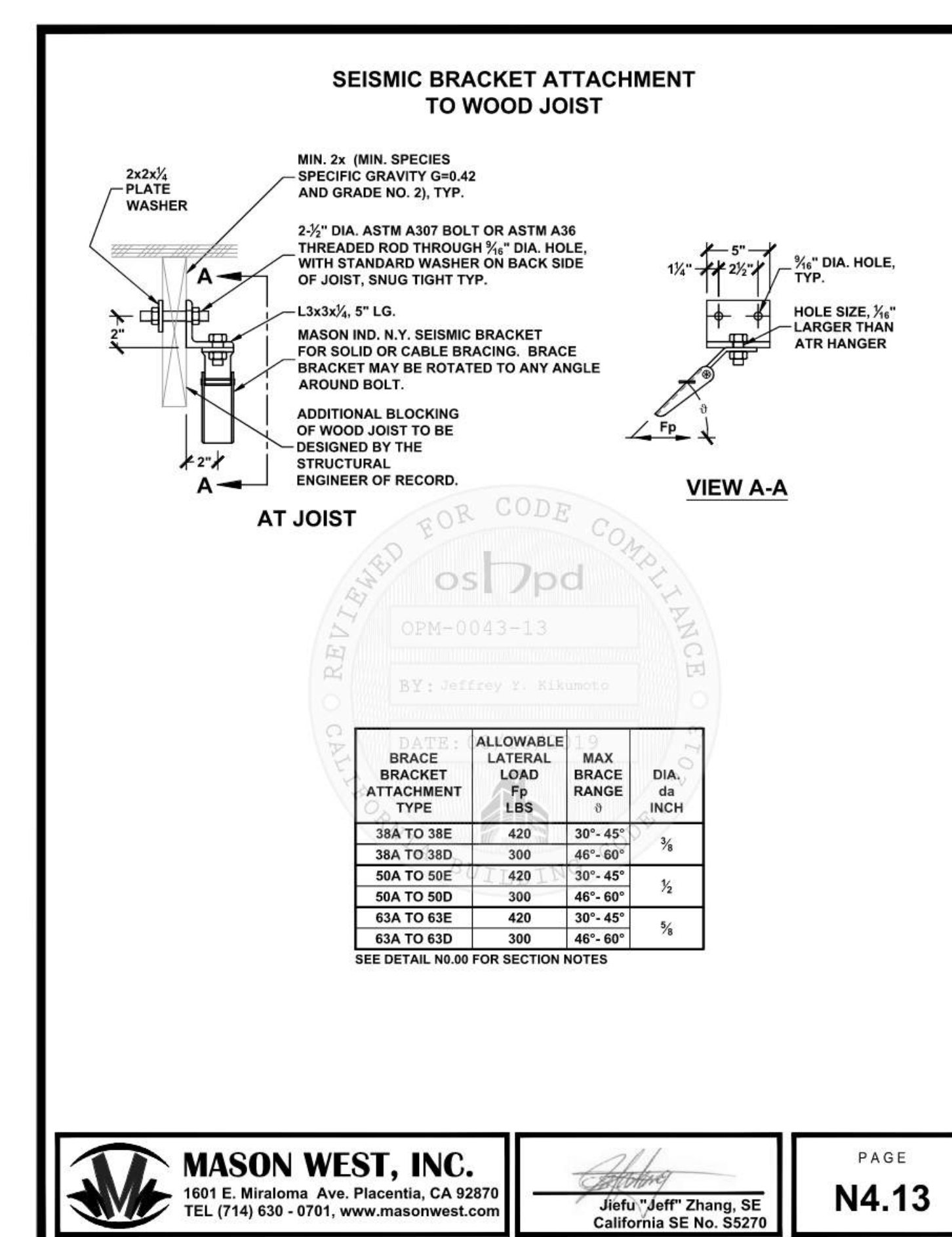
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CONDUIT ELECTRICAL METALLIC TUBING (EMT) MAXIMUM SEISMIC BRACE SPACINGS

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)					
			0.25	0.375	0.5	0.625	0.75	0.875
3	8.26	10	43	41	38	36	35	33
3.5	10.98	10	48	44	41	39	37	35
4	13.64	10	50	45	42	40	38	36

NOTES:
1. MAXIMUM BRACE SPACING IS BASED ON ASCE 7-10 SECTION 13.6.1. NOTE g: 75 PERCENT OF THE MATERIAL MINIMUM SPECIFIED TENSILE STRENGTH FOR STEEL TUBING.
2. EMT CONSIDERED FULL OF CONDUCTORS WHEN DETERMINING WEIGHT (REFER TO APPENDIX).
3. FOR LONGITUDINAL AND ALL-DIRECTIONAL BRACE SPACING, MULTIPLY THE TABULATED VALUES BY 3. BRACE AND OR CONNECTION CAPACITY MAY GOVERN MAXIMUM SPACING IN SOME CASES.
4. BRACE SPACINGS ARE BASED ON EMT STEEL TUBING CONSTRUCTED TO UL-997 OR ANSI C-80.3 WITH A MINIMUM YIELD STRENGTH OF 30,000 PSI.
5. COUPLERS FOR UP TO 2½" EMT TO MEET PROJECT SPECIFICATIONS. HOWEVER, COMPRESSION COUPLINGS OR COUPLINGS WITH MIN. 3 SCREWS AT EACH END. g. CONDUIT CAN BE PUSHED INTO COUPLING - 2" AND SET WITH MIN. (2) SCREWS. SHALL BE USED FOR 2", 3", AND 4" EMT.

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ELECTRICAL CONDUIT WEIGHT TABLES

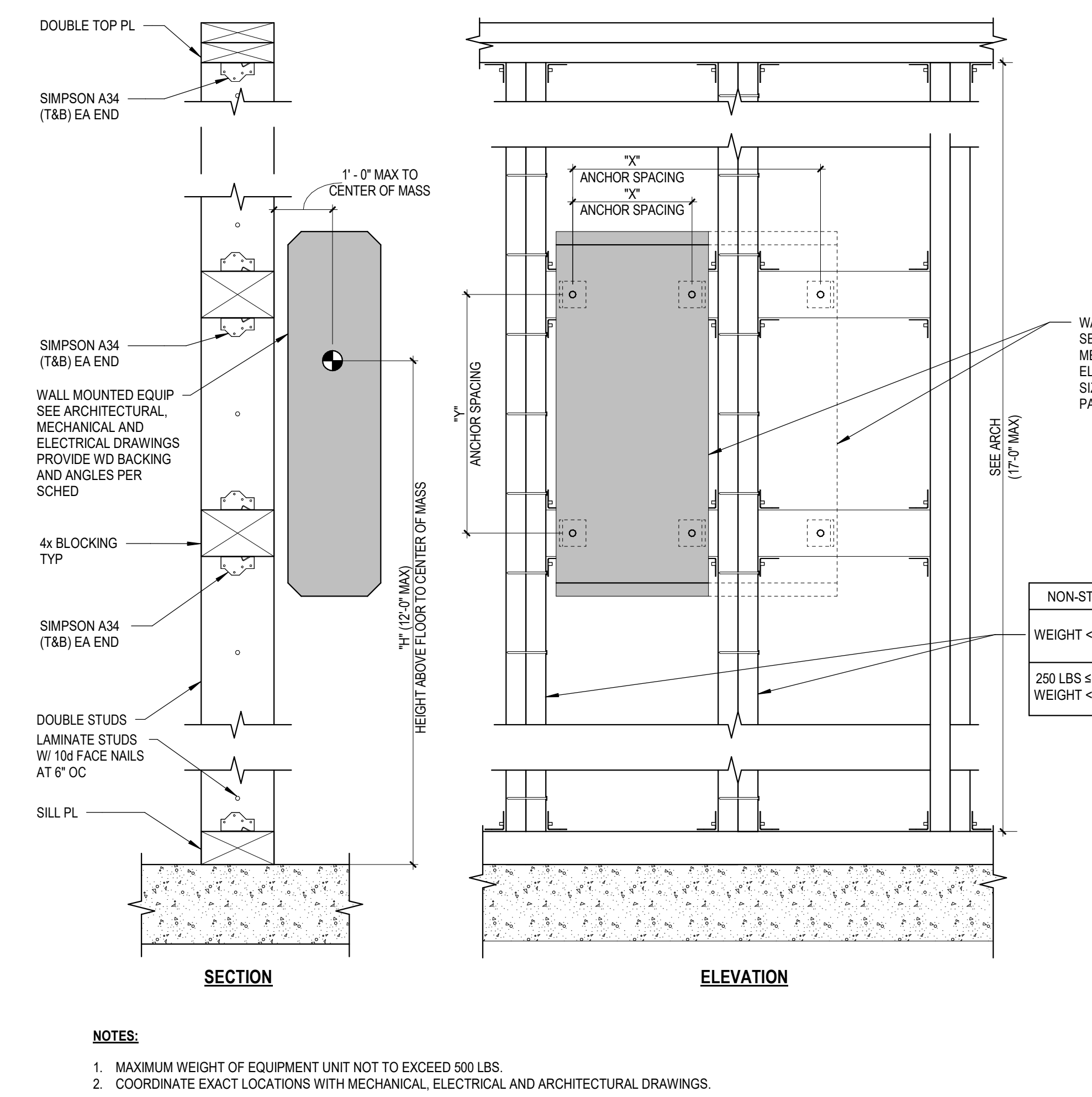
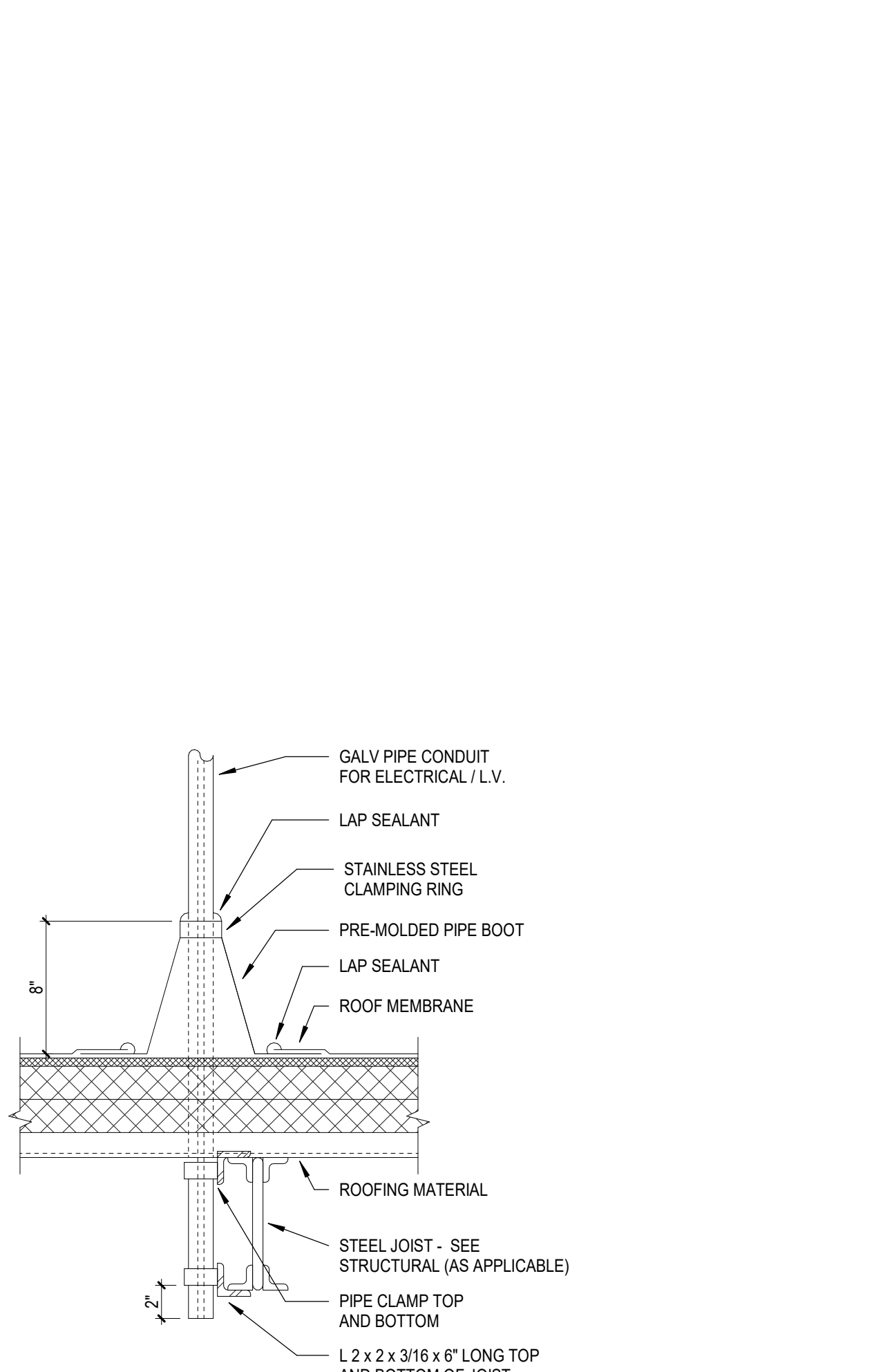
CONDUIT DIAMETER (IN)	CONDUIT WEIGHTS		
	PIPE TYPE	PIPE WEIGHT PER FOOT (LBS)	TOTAL WEIGHT PER FOOT (LBS)
ELECTRICAL METAL TUBING (EMT) WEIGHT	1/2	0.29	0.22
	3/4	0.44	0.40
	1	0.64	0.66
	1 1/4	0.95	1.17
	1 1/2	1.10	1.60
	2	1.40	2.62
INTERMEDIATE METAL CONDUIT (IMC) WEIGHT	1	0.80	0.22
	1 1/4	0.82	0.41
	1 1/2	1.16	0.66
	1 3/4	1.50	1.17
	2	1.82	1.60
	2 1/2	2.42	2.62
RIGID METAL CONDUIT (RMC) WEIGHT	1	1.28	3.47
	1 1/4	1.62	5.43
	1 1/2	2.12	7.34
	1 3/4	2.62	9.94
	2	3.12	13.64
	2 1/2	4.12	18.32

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1 E6.1 NO SCALE

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ELECTRICAL DETAILS

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