

777 Old Saw Mill River Road
Tarrytown, NY 10591-6707
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www.regeneron.com

Building #17
Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

Gensler

1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
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Structural Engineer

Thornton Tomasetti
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New York, NY 10271
(917) 661-7800 Phone
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MEP / IT / Security Engineer

Cosentini Associates

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Civil Engineer

JMC

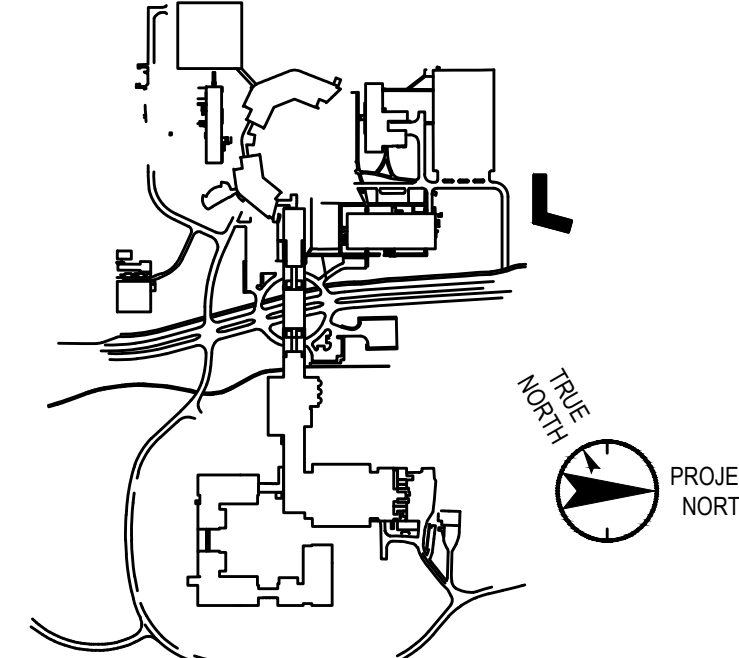
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Landscape Architect

Langan

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(212) 479-5400 Phone
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Key Plan



No. Date Description

0 05/20/2022 ISSUED FOR PERMIT
1 06/20/2022 100% CONSTRUCTION DOCUMENTS
2 07/31/2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07/01/2022

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Professional Seal and Signature

Vendor Name: COSENTINI

Vendor Project No.: 210104

Discipline: Mechanical Drawn By: BC

MECHANICAL
SYMBOLS,
ABBREVIATIONS, AND
DRAWING LIST

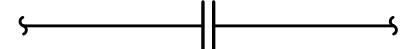




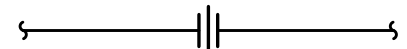









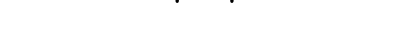














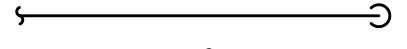



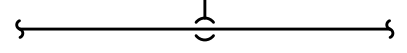






























































































Scale: NTS

Flow:

M-000

KEY OF SYMBOLS AND ABBREVIATIONS

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

 FLANGED CONNECTION	 SQUARE INCHES	 THERMOSTAT	 AIR CONDITIONING UNIT	 FLOOR DRAIN
 UNION FITTING	 SQUARE FEET	 DUCT MOUNTED SMOKE DETECTOR	 ACCESS DOOR	 GENERAL EXHAUST
 VALVED CAPPED OUTLET	 CAPPED OUTLET	 TEMPERATURE SENSOR	 AUTOMATIC LOUVER DAMPER	 GENERAL EXHAUST FAN
 REDUCER	 LEAK DETECTOR	 CARBON DIOXIDE SENSOR	 ABOVE FINISHED FLOOR	 UNLESS OTHERWISE NOTED
 PIPE UP	 SHEET NOTE	 UNDER-CUT DOOR	 AIR FLOW MEASURING STATION	 VOLUME DAMPER
 PIPE DN	 STATIC PRESSURE	 LOUVERED DOOR	 AIR HANDLING UNIT	 GALLONS PER MINUTE
 PIPE BOTTOM CONNECTION		 SEE DETAIL NO. 1 ON DRAWING M-101	 ACOUSTICAL LINING	 HEATING COIL
 PIPE TOP CONNECTION		 SEE SECTION NO. 1 ON DRAWING M-101	 AUTOMATIC LOUVERED DAMPER	 HORSEPOWER
 PIPE STUB UP			 ALUMINUM LOUVER AND ALUMINUM WIRE MESH SCREEN	 KILOWATT
 FLOW DIRECTION			 ACCESS PANEL	 LEAVING AIR TEMPERATURE
 PIPE PITCH UP OR DOWN			 BACKDRAFT DAMPER	 LINEAR DIFFUSER
 CONDENSATE DRAIN			 BLIND FLANGE	 LINEAR FEET
 REFRIGERANT LIQUID LINE			 BOTTOM GRILLE	 1000 BTU PER HOUR
 REFRIGERANT SUCTON LINE			 BREAK HORSEPOWER	 NORMALLY CLOSED
	 FLOOR DESIGNATION	 DUCT SIZE IN INCHES (FIRST FIGURE IS SIDE SHOW)	 BOTTOM GRILLE	 NET FREE AREA
	 TERMINAL NUMBER	 DUCT WITH ACOUSTICAL LINING (SIZE INDICATES CLEAR AREA INSIDE)	 BLANK OFF	 NORMALLY OPEN
	 CEILING DIFFUSER	 FLEXIBLE CONNECTION	 BOTTOM REGISTER	 OUTSIDE AIR
	 RETURN GRILLE /REGISTER	 FLEXIBLE DUCT	 BOTTOM OF STEEL	 OUTSIDE AIR INTAKE
	 SUPPLY AIR	 SQUARE VANED ELBOW	 BRITISH THERMAL UNIT	 OUTLET VELOCITY
	 RETURN/EXHAUST AIR	 RADIUS ELBOW	 COOLING COIL	 PRE-HEAT COIL
	 AIR QUANTITY (200 CFM)	 SUPPLY AIR DUCT	 CEILING DIFFUSER	 PHASE
		 RETURN/EXHAUST AIR DUCT	 CUBIC FEET PER MINUTE	 PRESSURE INDEPENDENT MODULE
		 VOLUME DAMPER	 CEILING GRILLE	 PLUGGED OUTLET
		 AUTOMATIC LOUVERED DAMPER	 CONDENSING UNIT	 RETURN AIR
		 TRANSFER OPENING ABOVE HUNG CEILING	 CABINET UNIT HEATER	 RETURN GRILLE
		 TRANSFER DUCT ABOVE HUNG CEILING WITH ACOUSTICAL LINING	 CAPPED OUTLET	 RE-HEAT COIL
		 OPEN END DUCT WITH WIRE MESH SCREEN	 CLEAN OUT DOOR	 RELATIVE HUMIDITY
		 RISE DUCT WITH WIRE MESH SCREEN	 CONDENSATE PUMP	 SPLITTER DAMPER
			 CEILING REGISTER	 SQUARE
			 DOWN	 SQUARE FEET
			 DIFFERENTIAL PRESSURE SWITCH	 STATIC PRESSURE
			 ELECTRIC HEATER	 SOUND TRAP
			 ENTERING AIR TEMPERATURE	 TRANSFER FAN
			 EXHAUST FAN	 TOP CONNECTION
			 FILTER	 TOP GRILLE
			 FACE AREA	 TOP REGISTER
			 FLEXIBLE CONNECTION	 TRANSFER OPENING
				 TRANSFER GRILLE
				 UNDERWRITER'S LABORATORY
				 UNIT HEATER
				 VIBRATION ISOLATOR
				 VERIFY IN FIELD
				 WIRE MESH SCREEN

HVAC GENERAL NOTES:

- CONTRACTOR, WITH OWNER, SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED BY LOCAL AND STATES CODES.
- WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL BE COORDINATED IN THE FIELD TO SUIT CONDITIONS.
- ALL DUCTWORK TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
- ACCESS IS REQUIRED BELOW ALL DAMPERS, VALVES, AND EQUIPMENT. ACCESS DOORS TO BE PROVIDED IN GYPSUM CEILINGS AS REQUIRED.
- FOR EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.
- FOR EXACT LOCATION AND ARRANGEMENT OF ROOM THERMOSTATS AND EXHAUST FAN SWITCHES, SEE THE ARCHITECT'S DRAWINGS. IF NONE IS SHOWN, THERMOSTAT/SWITCH SHALL BE NEXT TO THE LIGHT SWITCH, MAINTAINING A DISTANCE FROM THE LIGHT SWITCHES.
- DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
- DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER LATEST EDITION OF THE SMACNA DUCT CONSTRUCTION STANDARDS.
- MOUNT THERMOSTAT ABOVE FINISHED FLOOR PER ARCHITECT. PROVIDE THERMOSTAT WITH HEAVY GUARDS OR LOCKABLE COVER APPROVED BY ARCH-ENGINEER IN COMMON PUBLIC OR UNSUPERVISED AREA.
- FOR EXACT LOCATION OF THERMOSTATS, GRILLES, AND DIFFUSERS REFER TO ARCHITECT DRAWINGS. ALL GRILLES AND DIFFUSERS PAINTED TO MATCH ADJACENT COLORS. COLORS TO BE APPROVED BY ARCH-ENGINEER.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE GALV. SHEET METAL UNLESS OTHERWISE SPECIFIED IN THE SPECS OR DWGS. WHERE BRANCH DUCTS ARE SERVING "WET" AREAS, ALUMINUM DUCT MATERIAL SHALL BE PROVIDED.
- ALL STRAP HANGER & SUPPORTS FOR FLEXIBLE DUCTWORK SHALL BE SIZES & INSTALLED IN ACCORDANCE W/SMACNA STANDARDS, BUT NOT LESS THAN 1-1/2" WIDE.
- PROVIDE MINIMUM OF R-6 ON DUCTWORK ABOVE CEILING. ALL FLEXIBLE DUCTWORK SHALL BE ALL METAL CONSTRUCTION CONSISTING OF A CORE STANDARD TRIPLE LOCK METAL FLEXIBLE DUCTING FOR STRENGTH AND AIRTIGHTNESS.
- UNITS OVER 2,000 CFM SHALL HAVE SMOKE DETECTORS ON THE SUPPLY AND RETURN DUCTWORK PER MECHANICAL CODE SECTION 606.2
- ALL EXTERIOR INSULATED DUCTWORK SHALL HAVE POLYISOCYANURATE BOARD WITH EPDM COVER ON DUCTWORK.
- PROVIDE VOLUME DAMPERS IN LOW PRESSURE DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST OUTLETS. PROVIDE VOLUME DAMPERS (VD) AT EVERY DUCTWORK BRANCH, TAP AND SPLIT. DO NOT INSTALL VOLUME DAMPERS ON MEDIUM PRESSURE DUCTWORK.
- PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
A. AUTOMATIC DAMPERS
- PROVIDE INSULATED CONDENSATE DRAIN TO NEAREST FLOOR DRAIN FOR ALL AC UNITS. PROVIDE CONDENSATE PUMP WITH A MIN CAPACITY OF 20TODR200PH, 115/1/60, 60TFLUG IN, RESERVOIR, COMPLETE VALVE PACKAGE AND ACCESSORIES IF THE CONDENSATE CAN NOT BE DRAINED BY GRAVITY.
- ALL MOTOR STARTERS LOCATED OUTDOORS OR EXPOSED TO WET OR DAMP CONDITIONS SHALL BE NEMA TYPE 4.
- ALL COILS AND FILTERS SHALL BE INSTALLED ON TRACKS FOR EASY REMOVAL. INSTALLATIONS THAT REQUIRE DISASSEMBLY OF THE UNIT OR PLENUM FOR COIL REMOVAL ARE NOT ACCEPTABLE.

COMMISSIONING NOTES

OWNER SHALL ENGAGE A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY TO PROVIDE COMMISSIONING SERVICES IN COMPLIANCE WITH 2020 EECNYS. THE SPECIFICATIONS SHALL BE PROVIDED BY A COMMISSIONING AGENT TO BE SUBMITTED WITH DESIGN DOCUMENTS FOR BID.

- SYSTEMS AND ASSOCIATED CONTROLS TO BE COMMISSIONED:
- HEATING, COOLING, AIR HANDLING AND DISTRIBUTION, VENTILATION, EXHAUST SYSTEMS, AND THEIR RELATED AIR QUALITY MONITORING SYSTEMS.
 - AIR, WATER, AND OTHER ENERGY RECOVERY SYSTEMS.
 - MANUAL OR AUTOMATIC CONTROLS, WHETHER LOCAL OR REMOTE, ON ENERGY USING SYSTEMS INCLUDING BUT NOT LIMITED TO TEMPERATURE CONTROLS, SETBACK SEQUENCES, AND OCCUPANCY BASED CONTROL, INCLUDING ENERGY MANAGEMENT FUNCTIONS OF THE BUILDING MANAGEMENT SYSTEM.
 - PLUMBING, INCLUDING INSULATION OF PIPING AND ASSOCIATED VALVES, DOMESTIC AND PROCESS WATER PUMPING, AND MIXING SYSTEMS.
 - MECHANICAL HEATING SYSTEMS AND SERVICE WATER HEATING SYSTEMS.
 - REFRIGERATION SYSTEMS.
 - RENEWABLE ENERGY AND ENERGY STORAGE SYSTEMS.
 - OTHER SYSTEMS, EQUIPMENT AND COMPONENTS THAT ARE USED FOR HEATING, COOLING OR VENTILATION AND THAT AFFECT ENERGY USE.

COMMISSIONING PLAN SHALL FOLLOW ALL NECESSARY STEPS AS PER 2020 EECNYS.

TRAINING AND MANUALS:

UPON COMPLETION OF THE JOB, ALL APPLICABLE OPERATING AND SPECIFICATION MANUALS TO BE DELIVERED TO THE BUILDING STAFF. CONTRACTOR SHALL PROVIDE TRAINING FOR THE BUILDING MAINTENANCE STAFF TO ASSURE THAT THE SYSTEM IS MAINTAINED AND OPERATED PROPERLY.

ENERGY CODE NOTES

- THE MAXIMUM AIR LEAKAGE RATE FOR ALL TYPES OF FENESTRATION ASSEMBLIES AND THEIR TEST PROCEDURE, FROM AN INDEPENDENT AND ACCREDITED LABORATORY, SHALL FOLLOW SECTION C402.5.2 AND TABLE 402.5.2 OF THE EECNYS.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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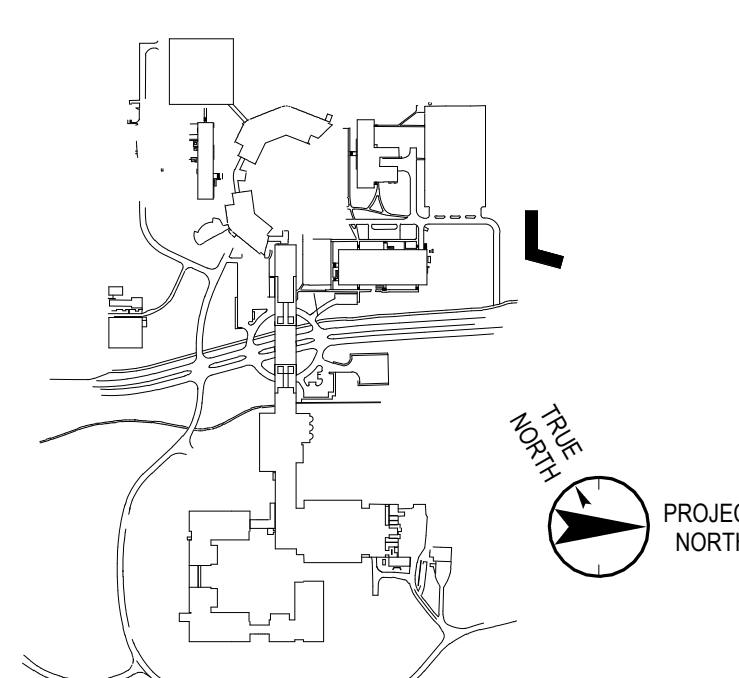
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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
**MECHANICAL 1ST FLOOR
DUCTWORK PLAN**

Scale: 1/8" = 1'-0" Floor: 1ST

M-100

AC UNIT RETURN AIR NOTES:
1. PROVIDE SPACE FOR MANUFACTURER PROVIDED FILTER KIT FOR MERV 14 FILTER.
2. PROVIDE THE FOLLOWING SIZES FOR RETURN PLENUM AND RETURN AIR DUCT THAT FACES ROOF. COORDINATE WITH EQUIPMENT MANUFACTURER.

0.5 TON: (899-AC-1-02F, 899-AC-1-03C)
20x8 PLENUM, 18x8 RETURN AIR DUCT

0.75 TON: (899-AC-1-01F, 899-AC-1-02G)
20x8 PLENUM, 18x8 RETURN AIR DUCT

1.0 TON: (899-AC-1-01G, 899-AC-1-02F, 899-AC-1-03E, 899-AC-1-04G, 899-AC-1-05E, 899-AC-1-05F)
24x8 PLENUM, 22x8 RETURN AIR DUCT

1.25 TON: (899-AC-1-01F)
36x10 PLENUM, 34x10 RETURN AIR DUCT

1.5 TON: (899-AC-1-01A, 899-AC-1-01B, 899-AC-1-02A, 899-AC-1-02B, 899-AC-1-04A)
38x12 PLENUM, 36x10 RETURN AIR DUCT

2.0 TON: (899-AC-1-01C, 899-AC-1-01D, 899-AC-1-02C, 899-AC-1-02D, 899-AC-1-03B, 899-AC-1-03D)
38x12 PLENUM, 36x10 RETURN AIR DUCT

2.5 TON: (899-AC-1-04B, 899-AC-1-04C, 899-AC-1-04F, 899-AC-1-05A, 899-AC-1-05C)
54x12 PLENUM, 52x12 RETURN AIR DUCT

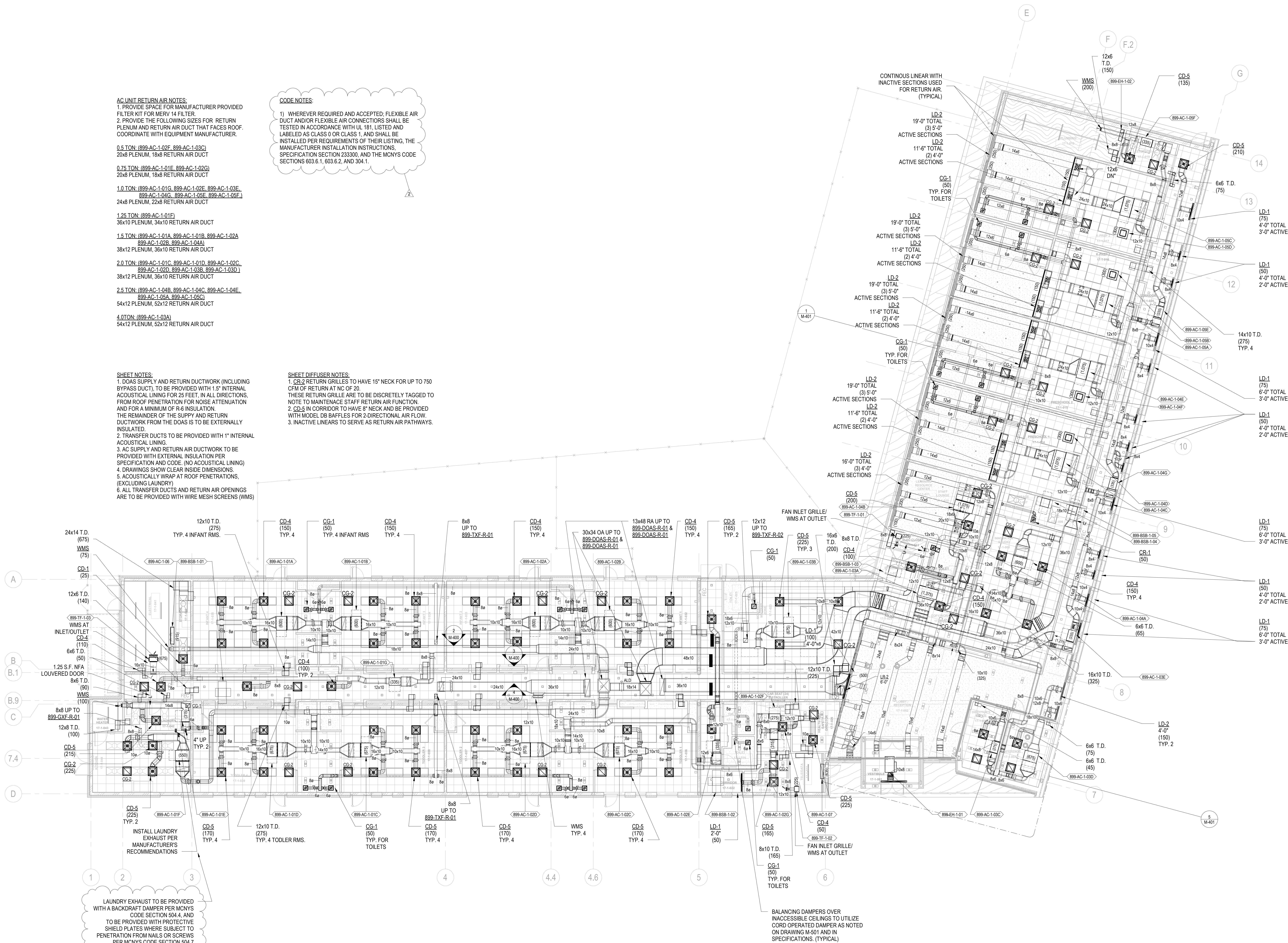
4.0 TON: (899-AC-1-03A)
54x12 PLENUM, 52x12 RETURN AIR DUCT

SHEET NOTES:
1. DOAS SUPPLY AND RETURN DUCTWORK (INCLUDING BYPASS DUCT), TO BE PROVIDED WITH 1.5" INTERNAL ACOUSTICAL LINING FOR 25 FEET, IN ALL DIRECTIONS, FROM ROOF PENETRATION FOR NOISE ATTENUATION AND FOR A MINIMUM OF R-6 INSULATION. THE REMAINDER OF THE SUPPLY AND RETURN DUCTWORK FROM THE DOAS IS TO BE EXTERNALLY INSULATED.
2. TRANSFER DUCTS TO BE PROVIDED WITH 1" INTERNAL ACOUSTICAL LINING.
3. AC SUPPLY AND RETURN AIR DUCTWORK TO BE PROVIDED WITH EXTERNAL INSULATION PER SPECIFICATION AND CODE. (NO ACOUSTICAL LINING)
4. DRAWINGS SHOW CLEAR INSIDE DIMENSIONS.
5. ACOUSTICALLY WRAP AT ROOF PENETRATIONS, (EXCLUDING LAUNDRY).
6. ALL TRANSFER DUCTS AND RETURN AIR OPENINGS ARE TO BE PROVIDED WITH WIRE MESH SCREENS (WMS)

CODE NOTES:

1) WHEREVER REQUIRED AND ACCEPTED, FLEXIBLE AIR DUCT AND/OR FLEXIBLE AIR CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181, LISTED AND LABELED AS CLASS 0 OR CLASS 1, AND SHALL BE INSTALLED PER REQUIREMENTS OF THEIR LISTING, THE MANUFACTURER INSTALLATION INSTRUCTIONS, SPECIFICATION SECTION 233300, AND THE MCNYS CODE SECTIONS 603.6.1, 603.6.2, AND 304.1.

SHEET DIFFUSER NOTES:
1. CR-2 RETURN GRILLES TO HAVE 15" NECK FOR UP TO 750 CFM OF RETURN AT NC OF 20.
THESE RETURN GRILLE ARE TO BE DISCRETELY TAGGED TO NOTE TO MAINTENANCE STAFF RETURN AIR FUNCTION.
2. CD-5 IN CORRIDOR TO HAVE 8" NECK AND BE PROVIDED WITH MODEL DB BAFFLES FOR 2-DIRECTIONAL AIR FLOW.
3. INACTIVE LINEARS TO SERVE AS RETURN AIR PATHWAYS.



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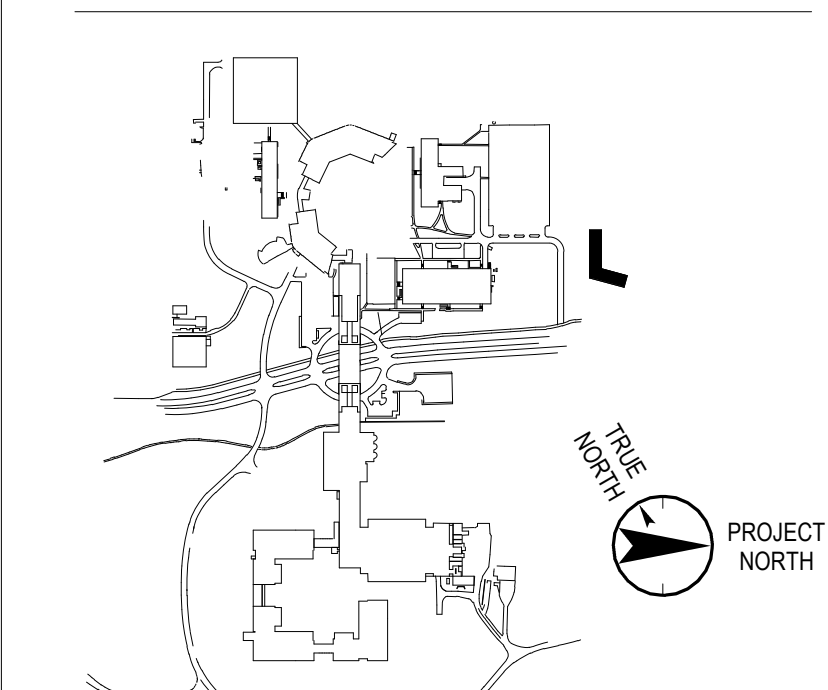
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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
**MECHANICAL 1ST FLOOR
PIPING PLAN**

Scale: 1/8" = 1'-0" Floor: 1ST

M-150

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Building #17
Campus Expansion Child
Day-care Center

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Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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(212) 492-1472 Fax

Structural Engineer

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New York, NY 10271
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MEP / IT / Security Engineer

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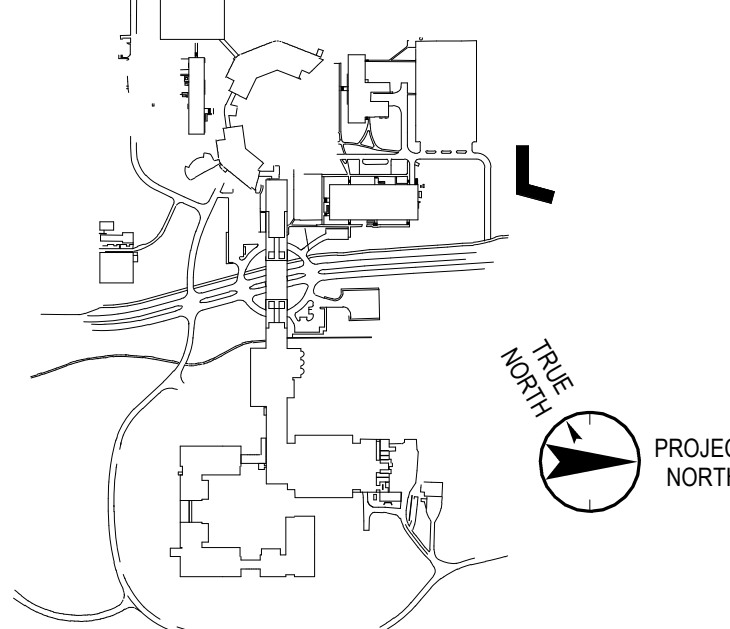
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(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No. Date Description

0	05.20.2022	ISSUED FOR PERMIT
1	06.22.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
**MECHANICAL ROOF PIPING
PLAN**

Scale: 1/8" = 1'-0" Floor: ROOF

M-151

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NOTES:
1) FINAL REFRIGERANT SIZE TO BE CONFIRMED BY CONTRACTOR AND MANUFACTURER
2) REFER TO DRAWINGS M-700, M-701, M-702, AND M-703 FOR PIPING SIZING AND CONNECTION BETWEEN EQUIPMENT.

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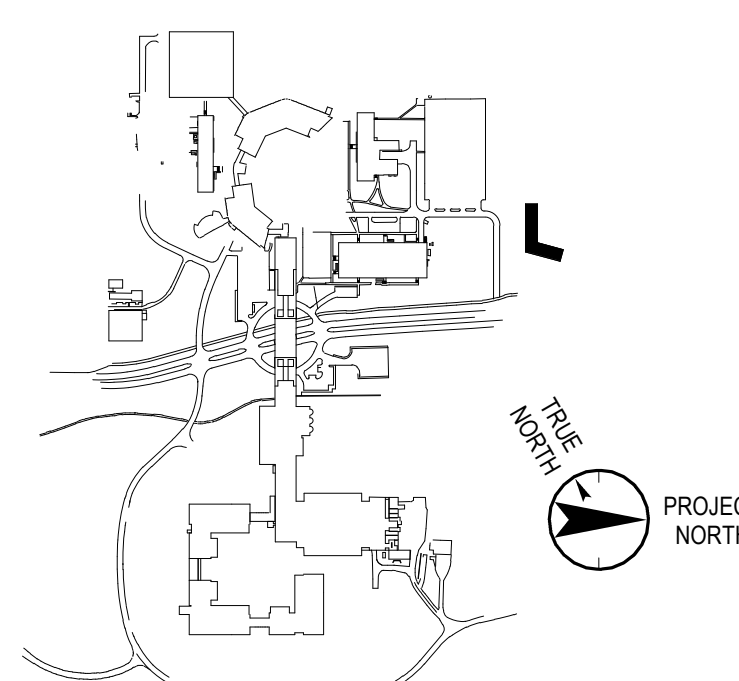
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Key Plan



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Plot Date: 07.01.2022

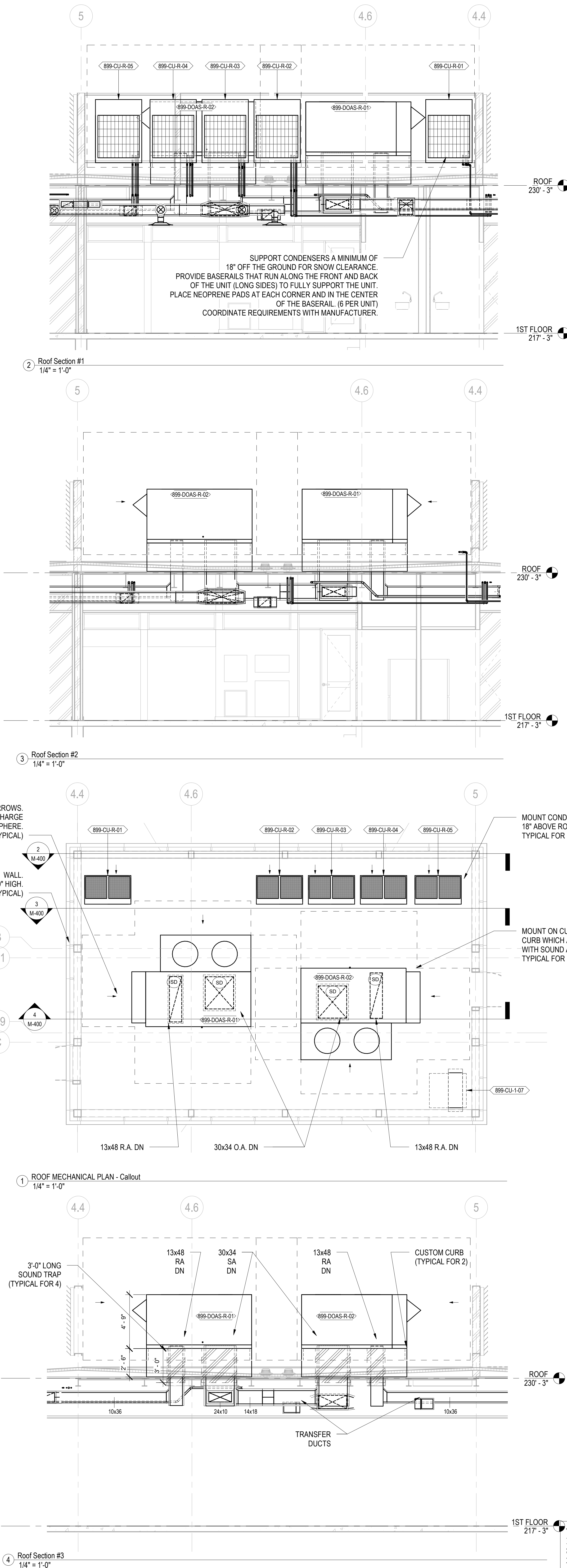
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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
**MECHANICAL ENLARGED
VIEWS SHEET 1**

Scale: 1/4" = 1'-0" Floor: ROOF

M-400

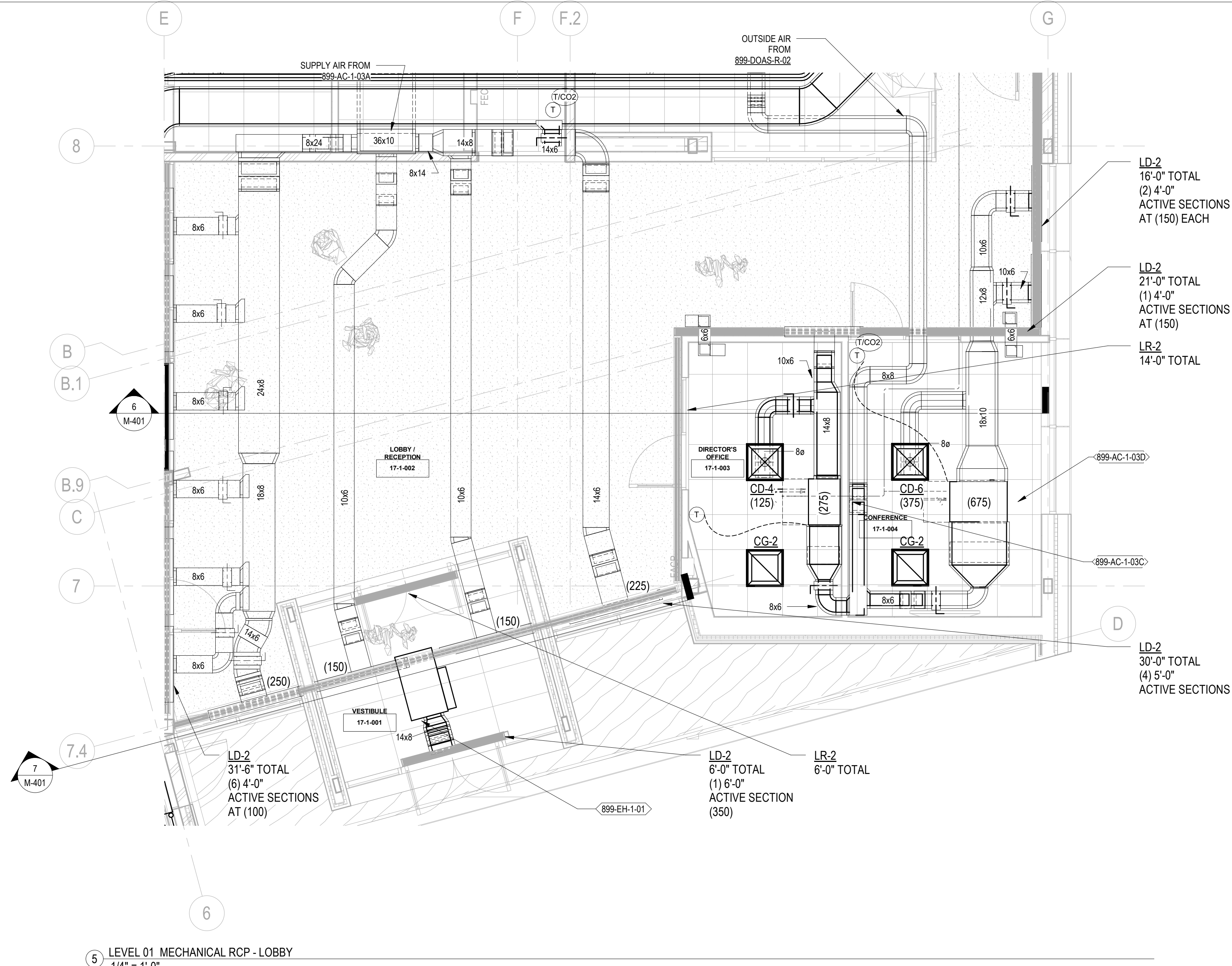


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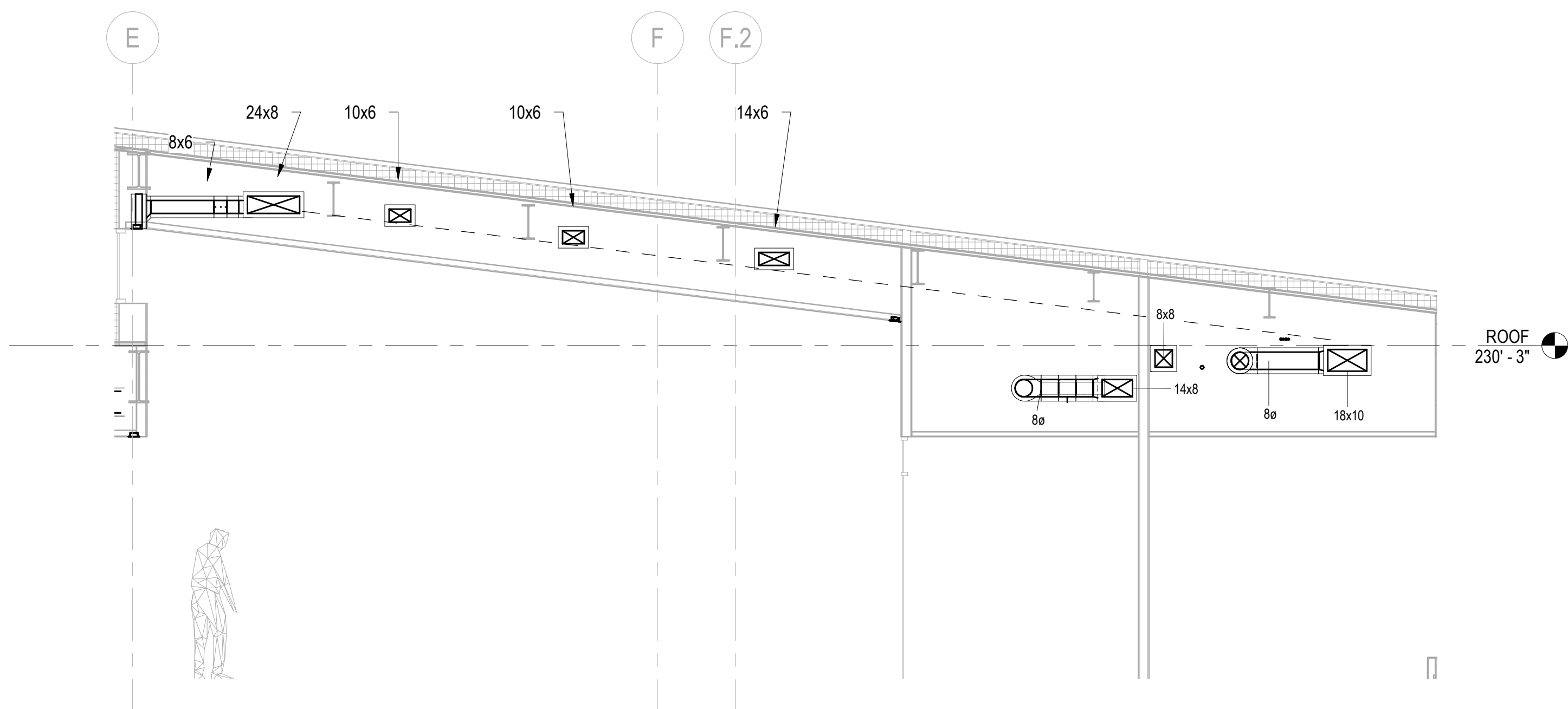
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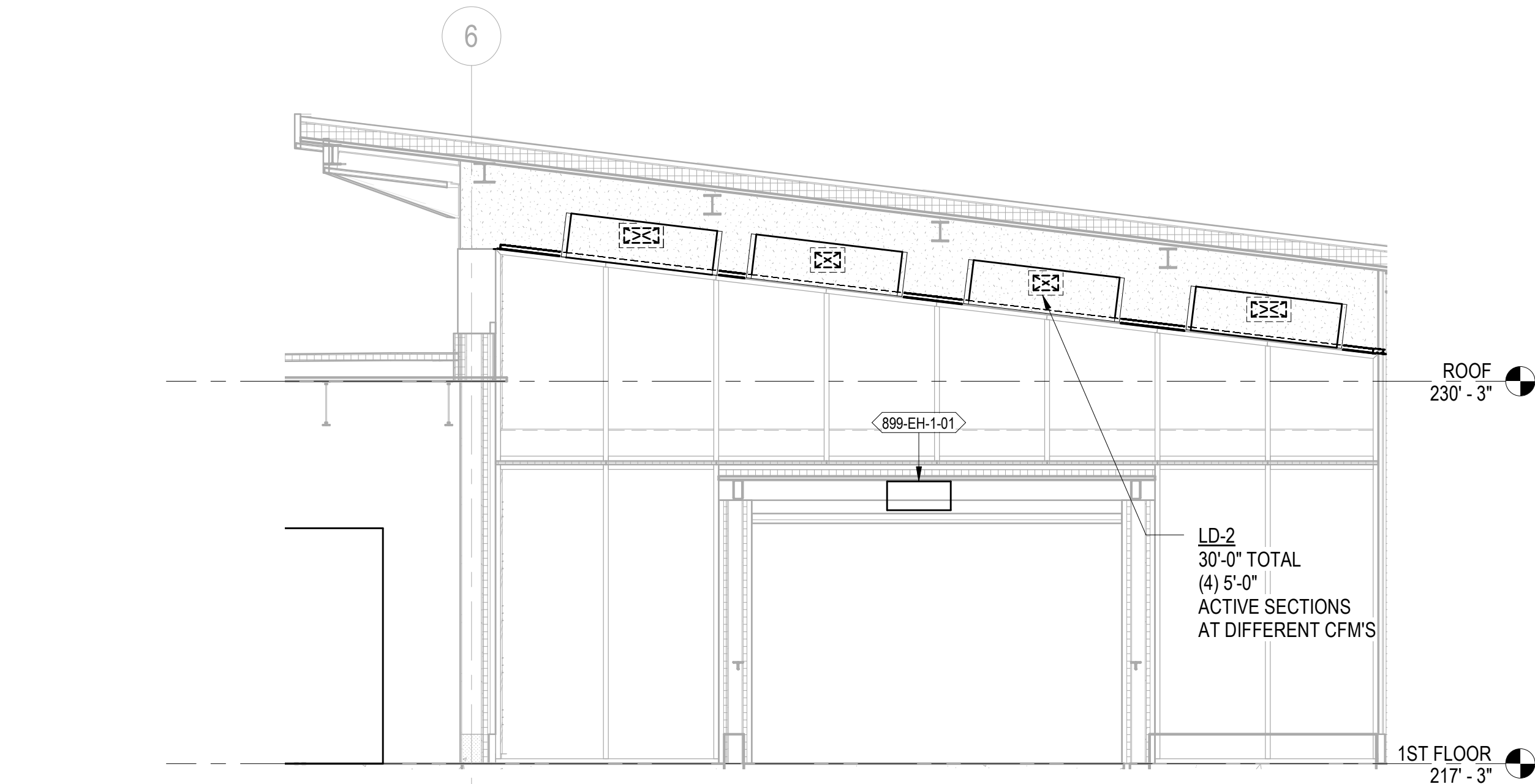
FILE: B14-360-000-3608-000 - Regeneron Day Care Facility - Tarrytown210102_1.TTCX - Daycare, M. 2020-04 PLOTTED ON: 06/08/22



5 LEVEL 01 MECHANICAL RCP - LOBBY
1/4" = 1'-0"

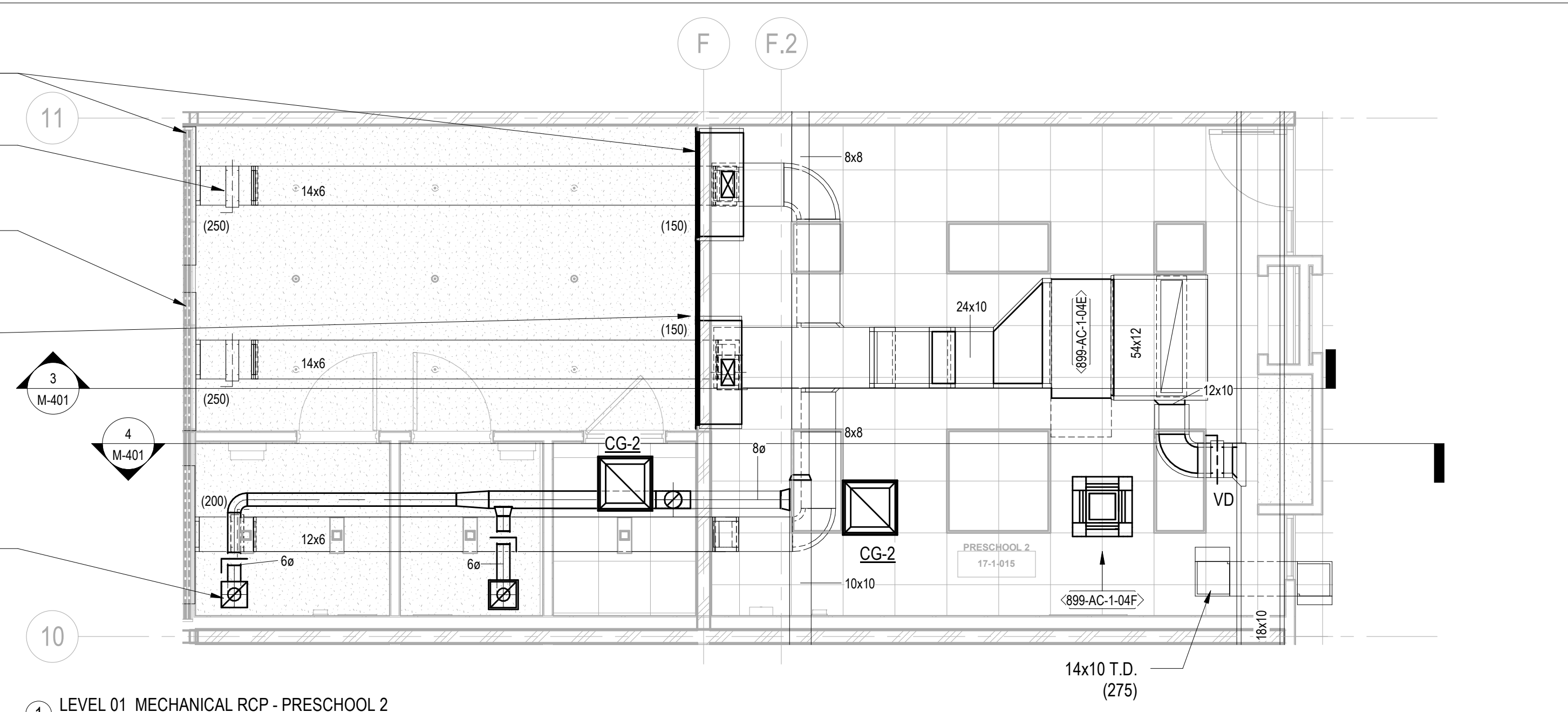


6 LOBBY - SECTION #1
1/4" = 1'-0"

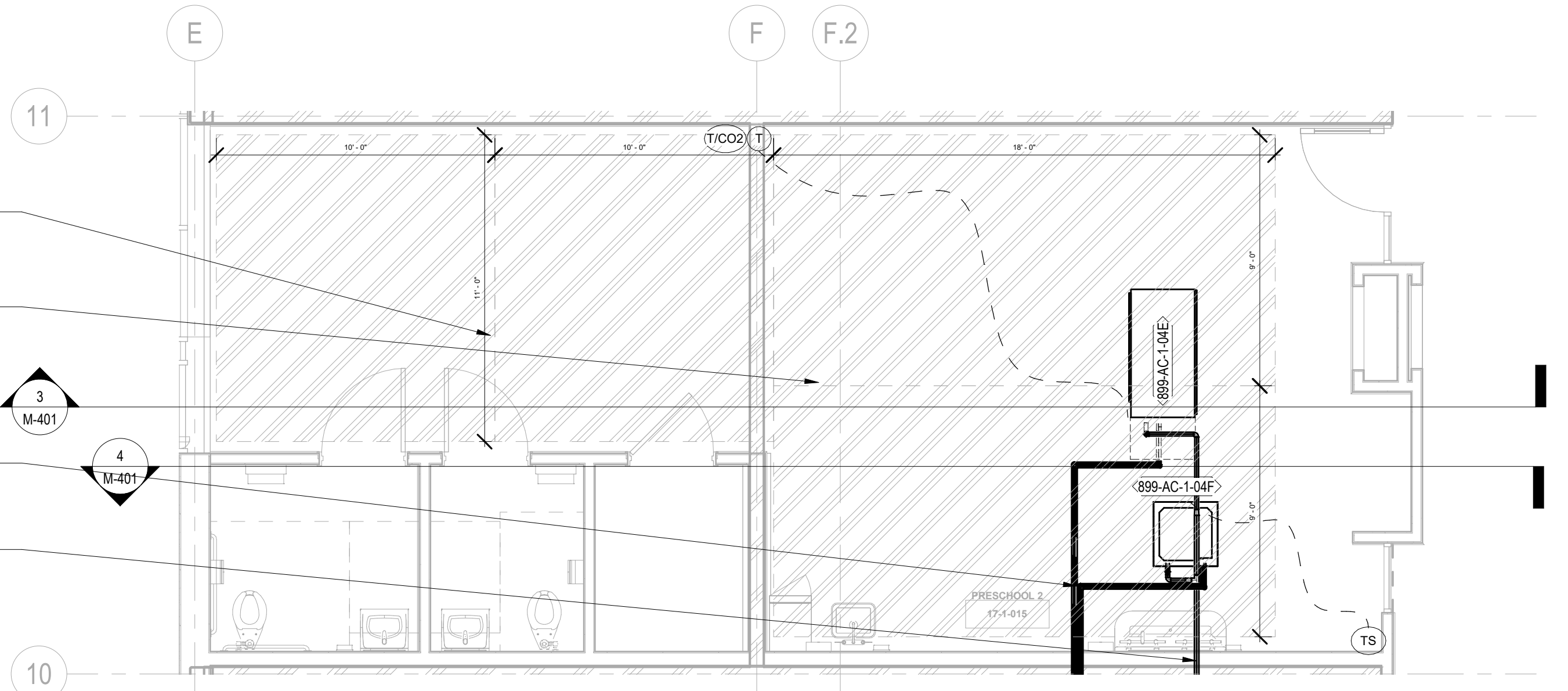


7 LOBBY - SECTION #2
1/4" = 1'-0"

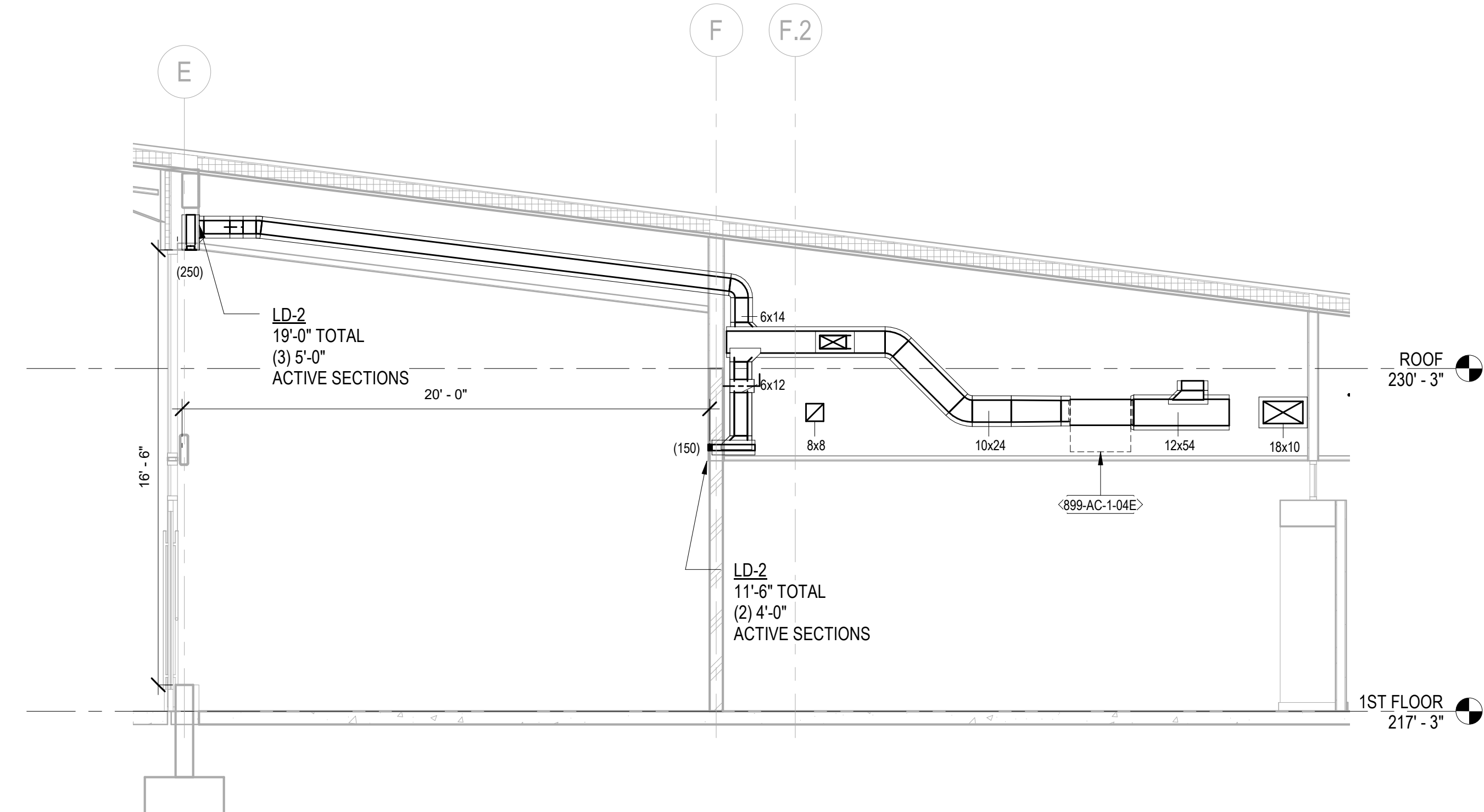
CONTINUOUS LINEAR WITH
INACTIVE SECTIONS USED
FOR RETURN AIR,
(TYPICAL)
VOLUME DAMPER
(TYPICAL FOR ALL OUTLETS)
LD-2
19'-0" TOTAL
(3) 5'-0"
ACTIVE SECTIONS
LD-2
11'-6" TOTAL
(2) 4'-0"
ACTIVE SECTIONS



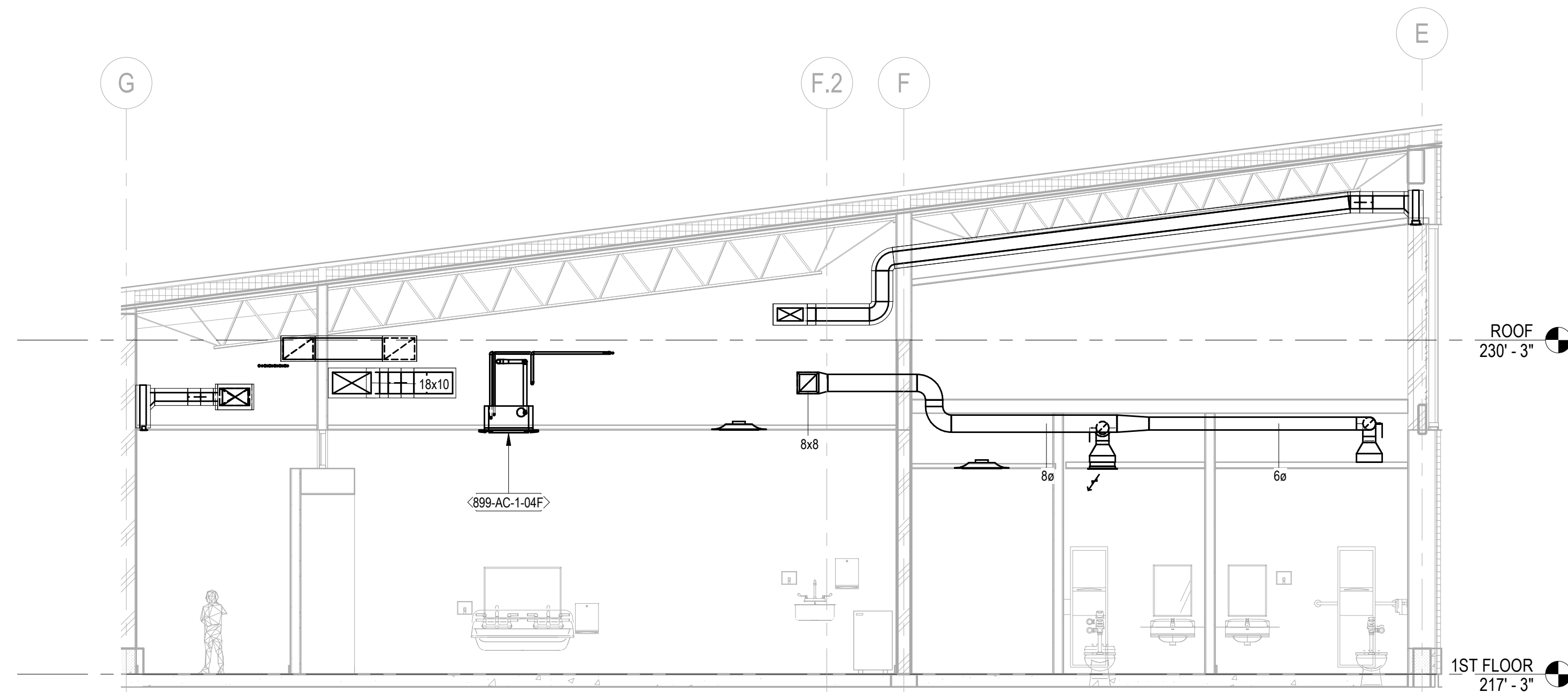
1 LEVEL 01 MECHANICAL RCP - PRESCHOOL 2
1/4" = 1'-0"



2 LEVEL 01 MECHANICAL PLAN - PRESCHOOL 2
1/4" = 1'-0"



3 PRESCHOOL 2 - SECTION #1
1/4" = 1'-0"



4 PRESCHOOL 2 - SECTION #2
1/4" = 1'-0"

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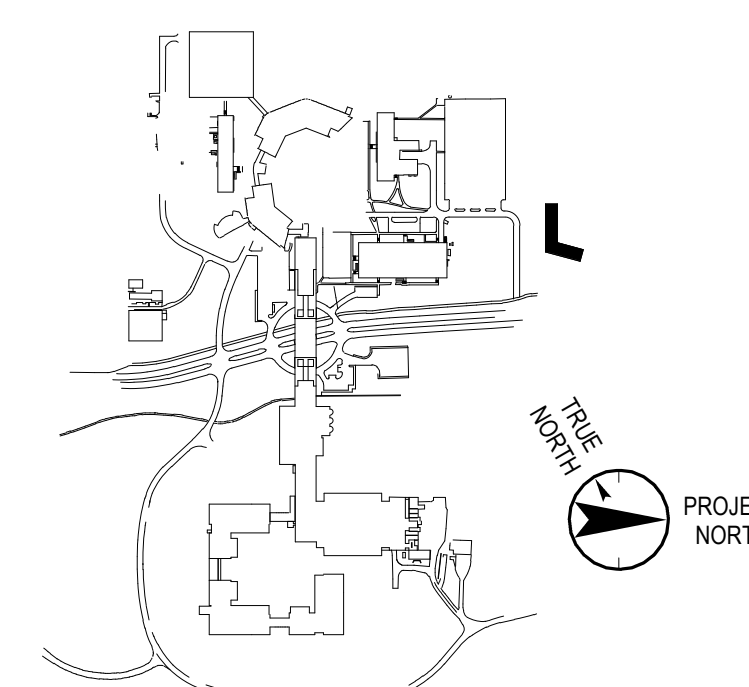
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Key Plan



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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
MECHANICAL ENLARGED
VIEWS SHEET 2

Scale: 1/4" = 1'-0" Floor: 1ST

M-401

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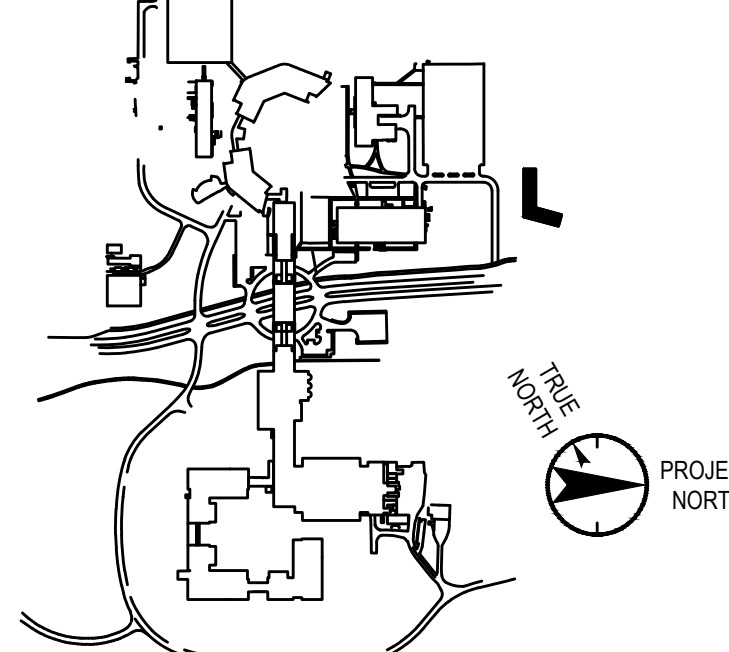
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Professional Seal and Signature

Vendor Name: COSENTINI

Vendor Project No.: 210104

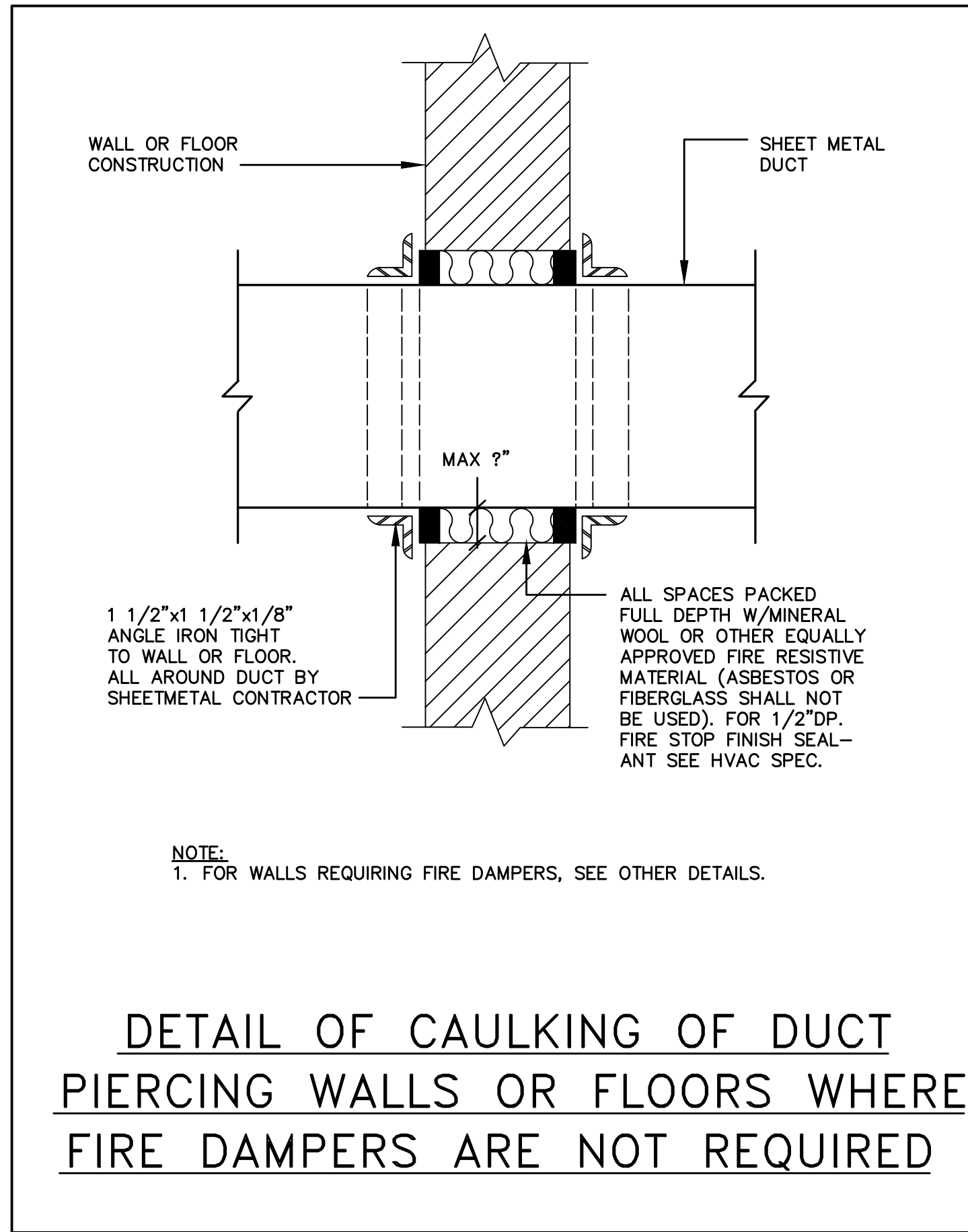
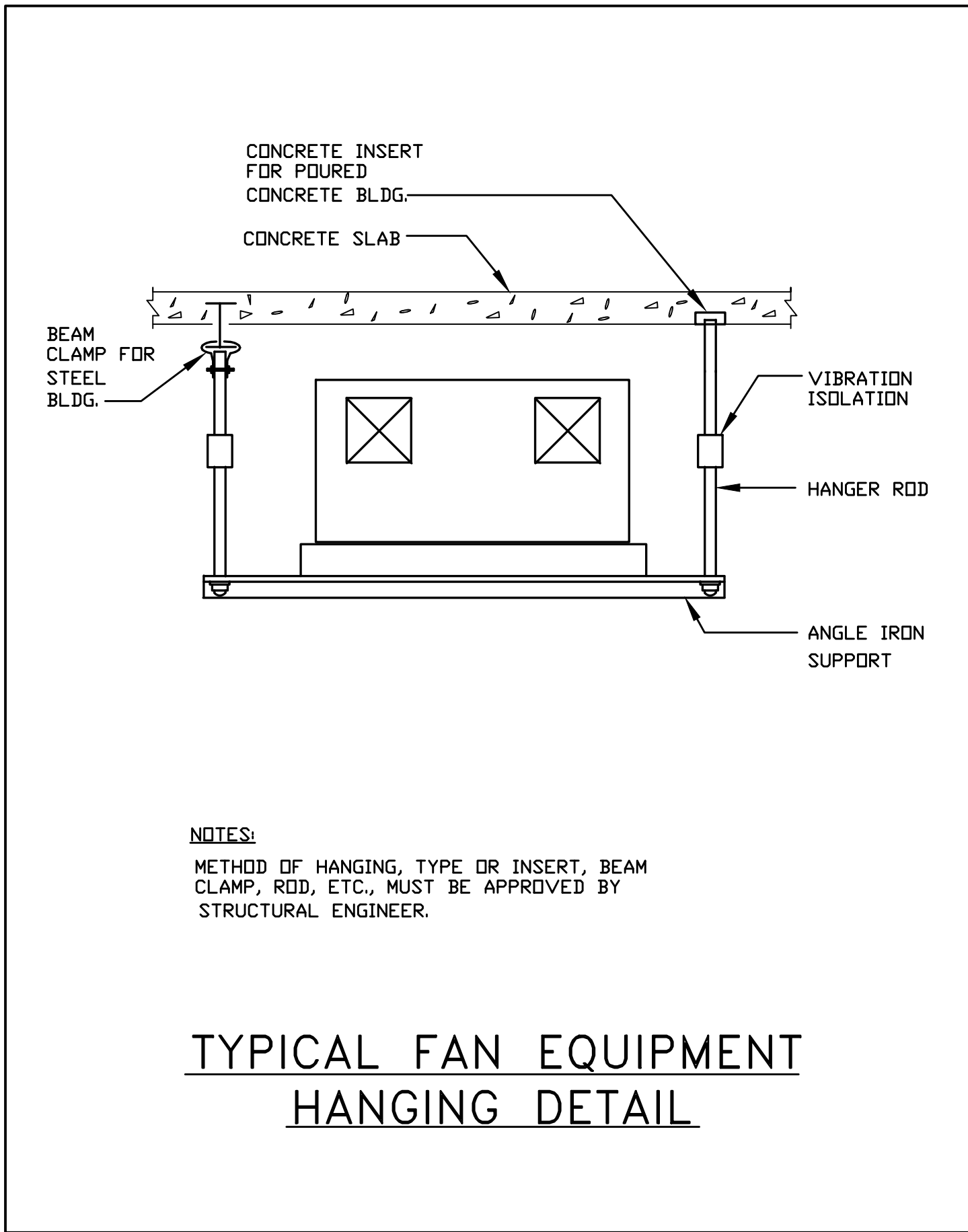
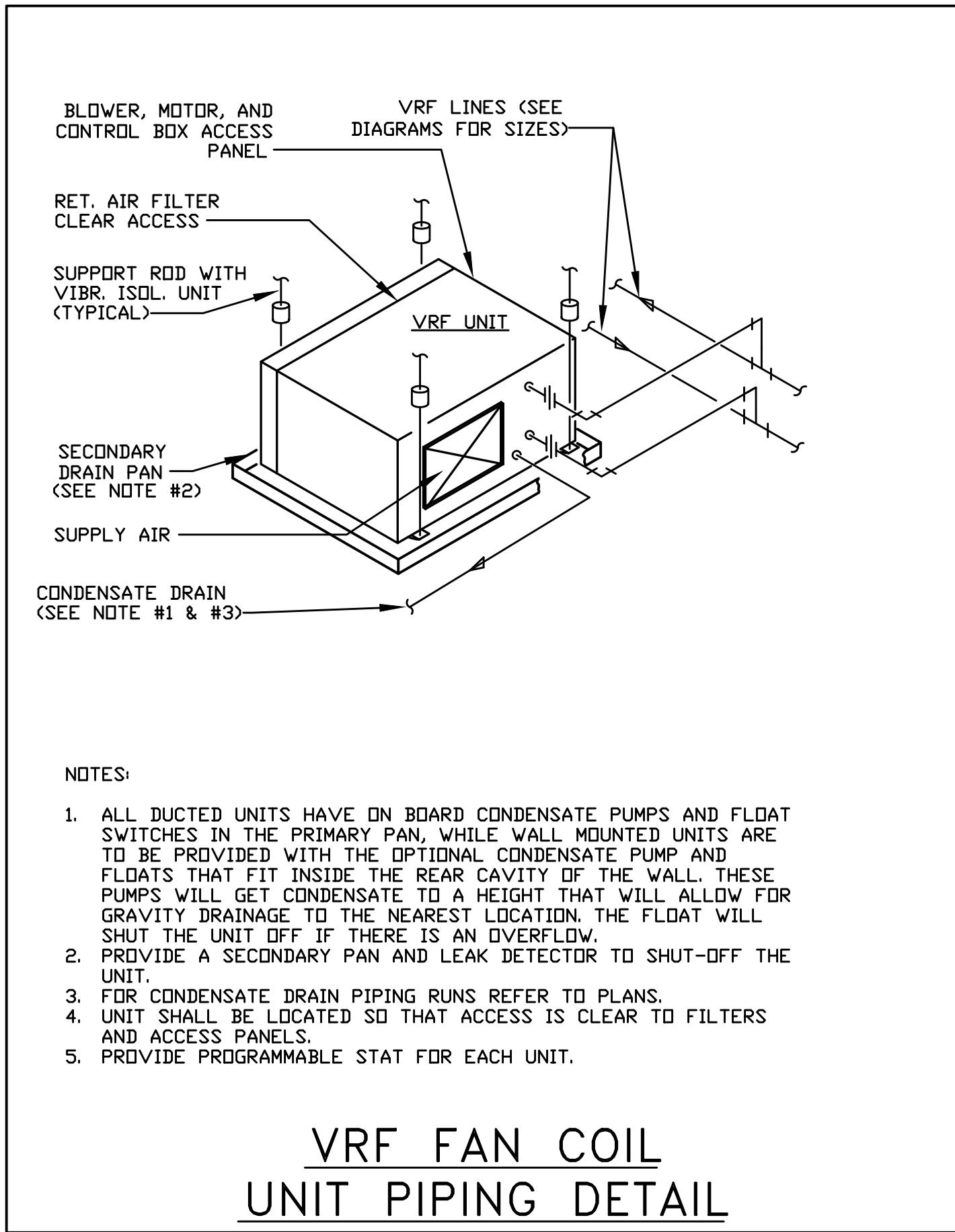
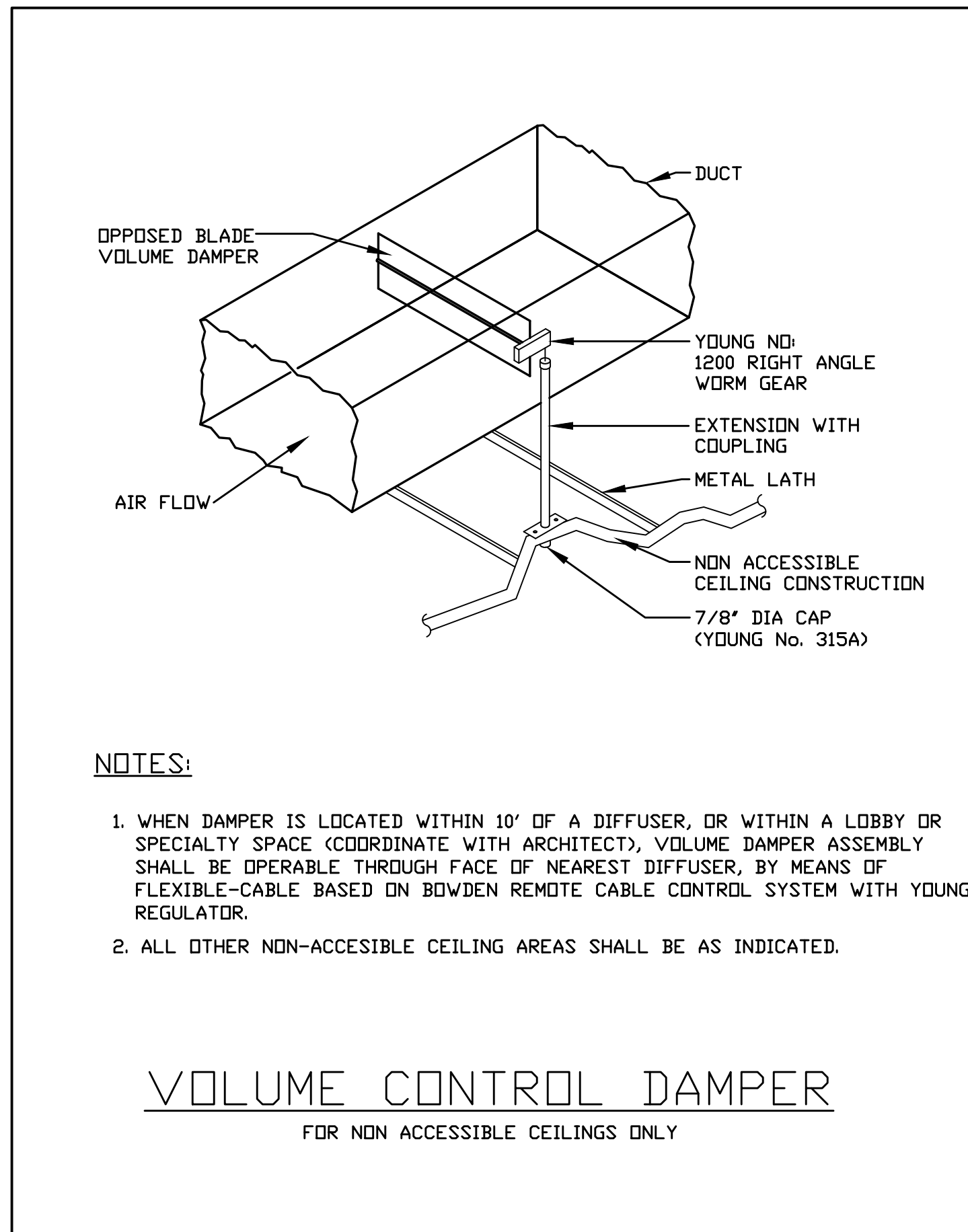
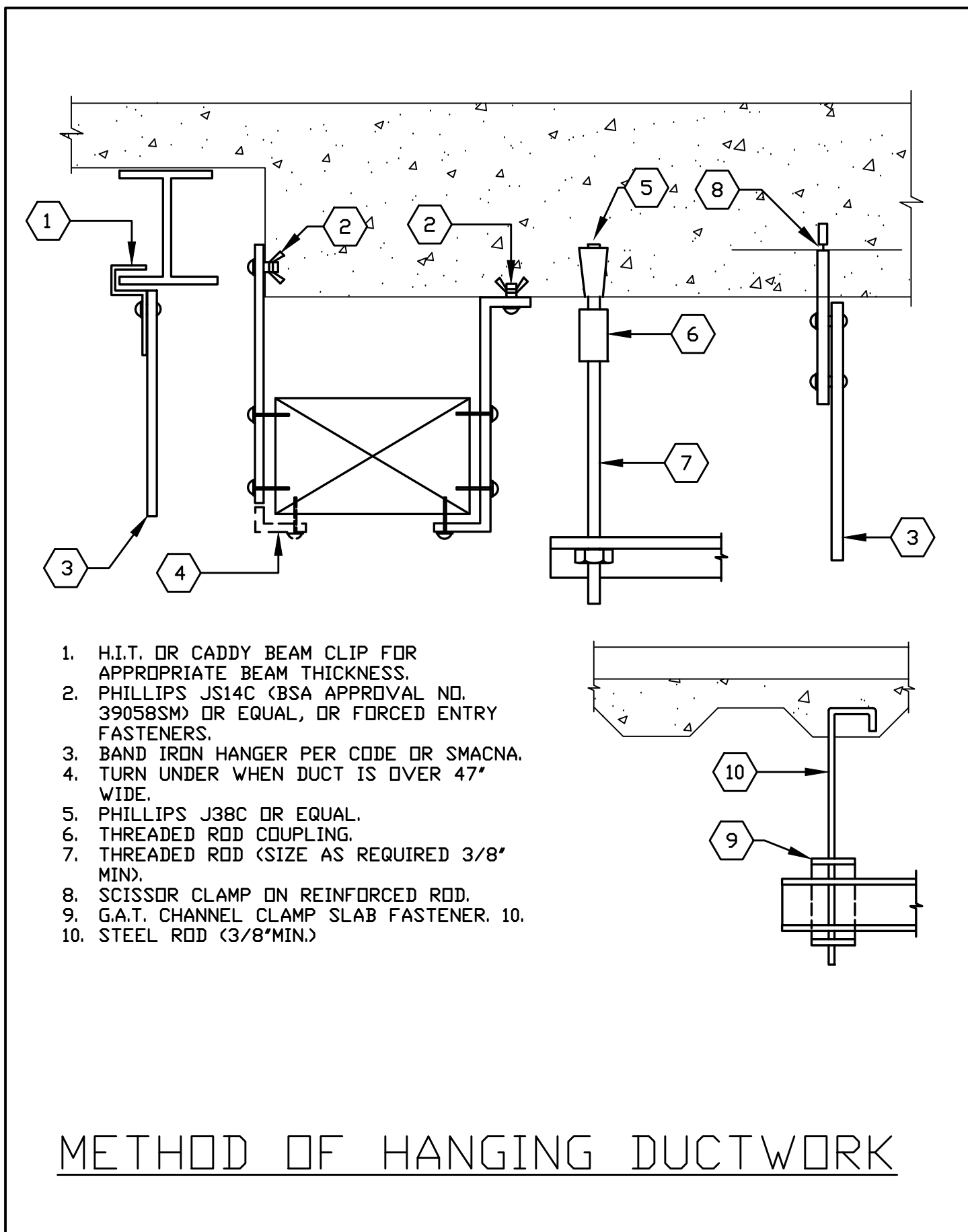
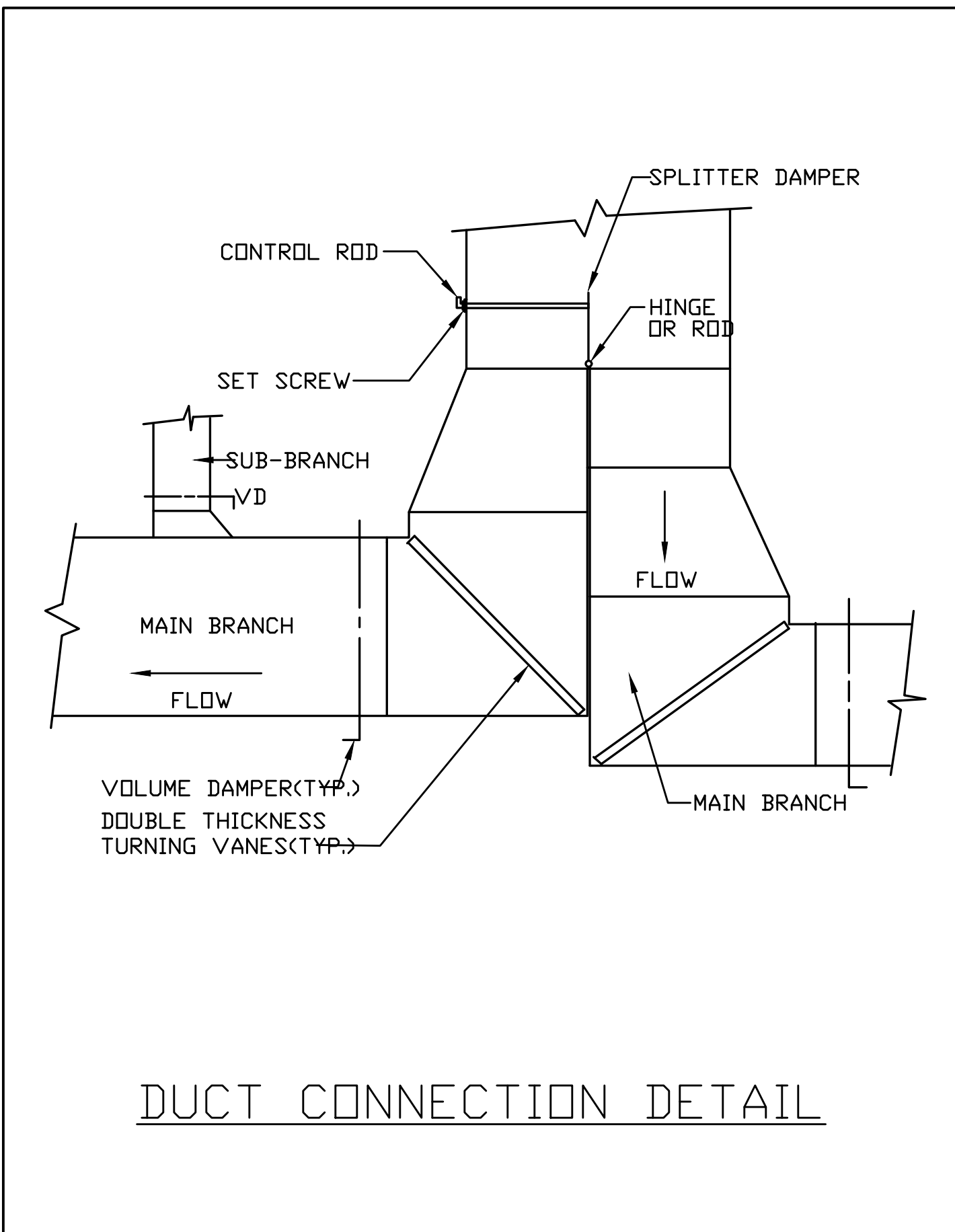
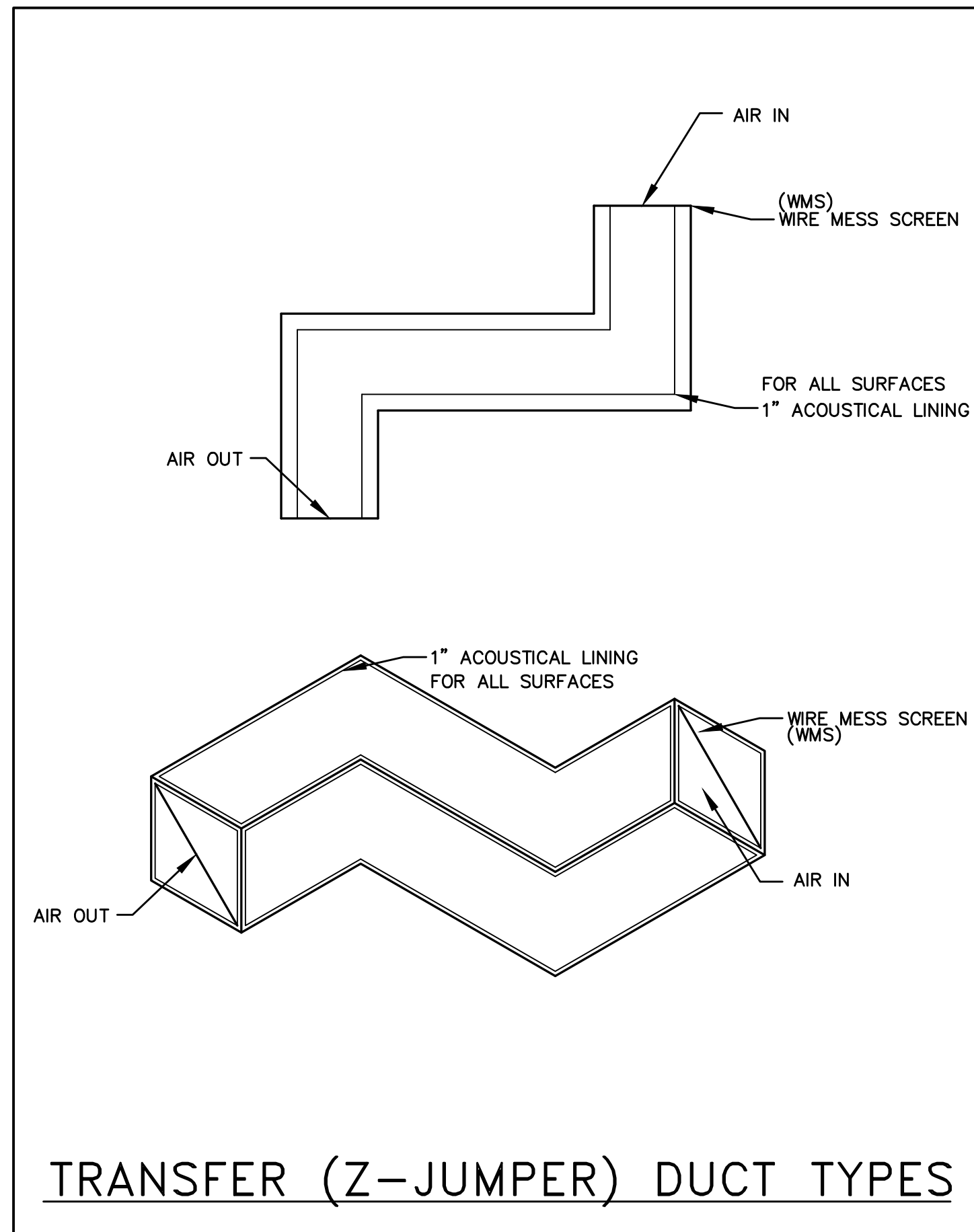
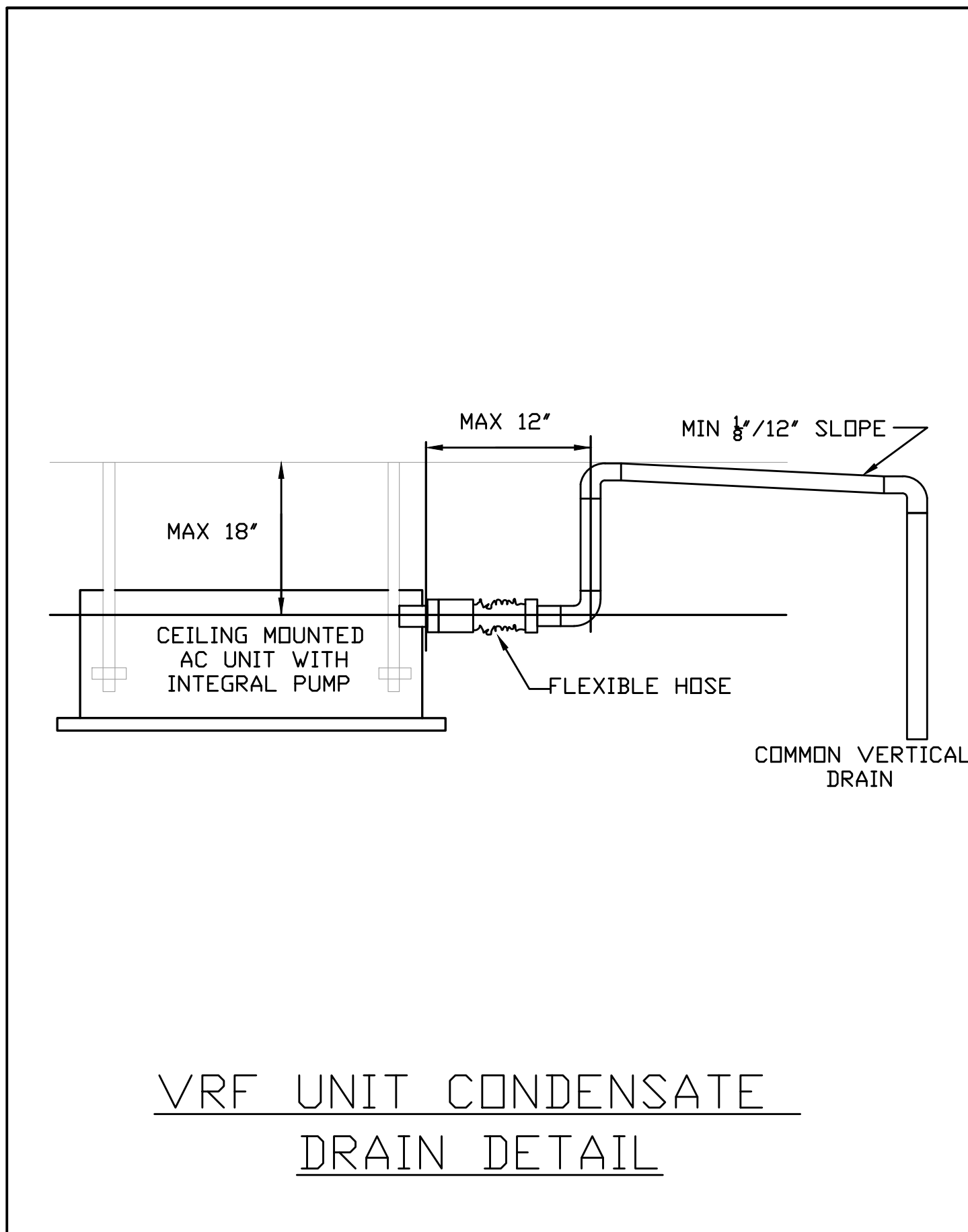
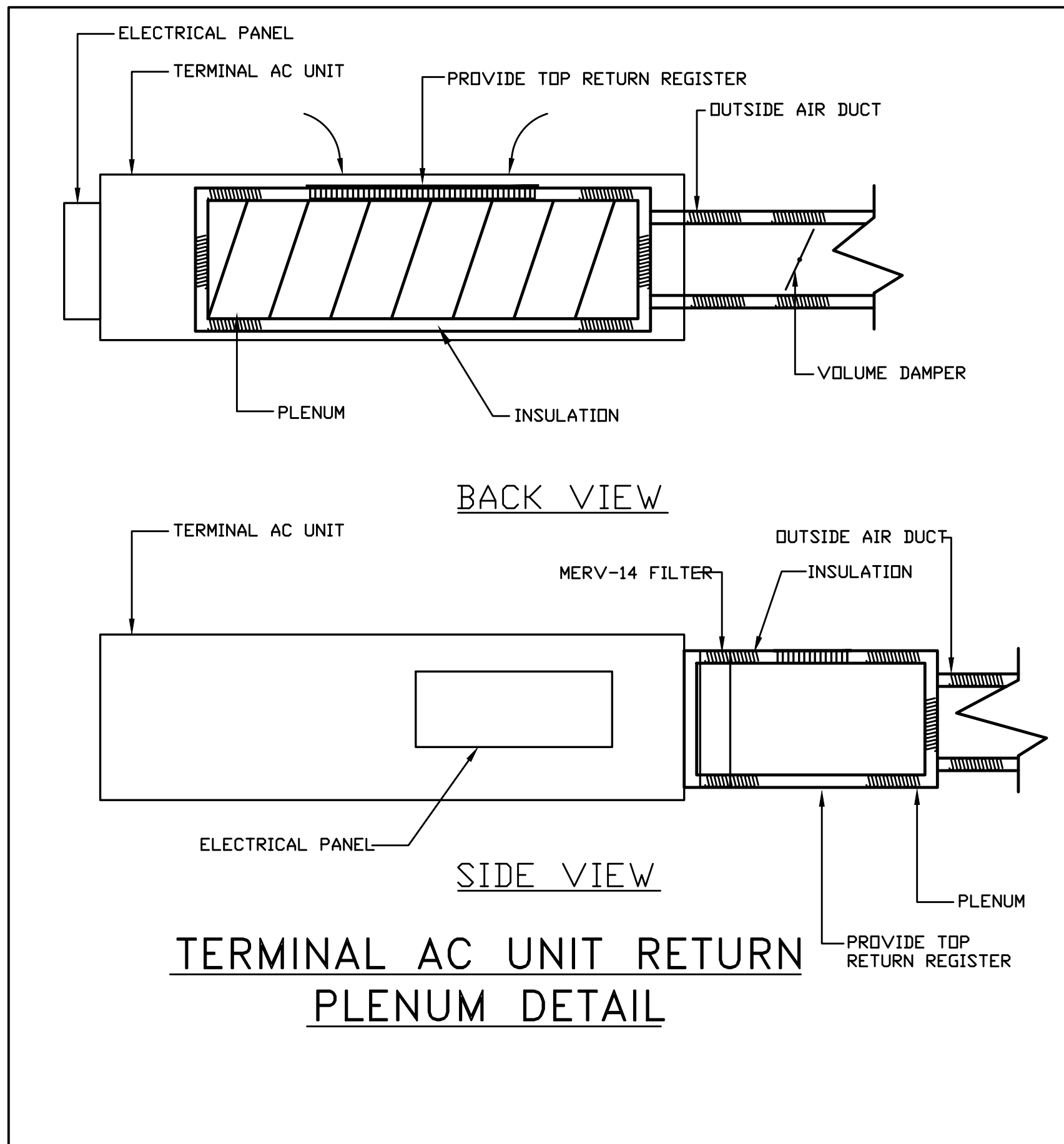
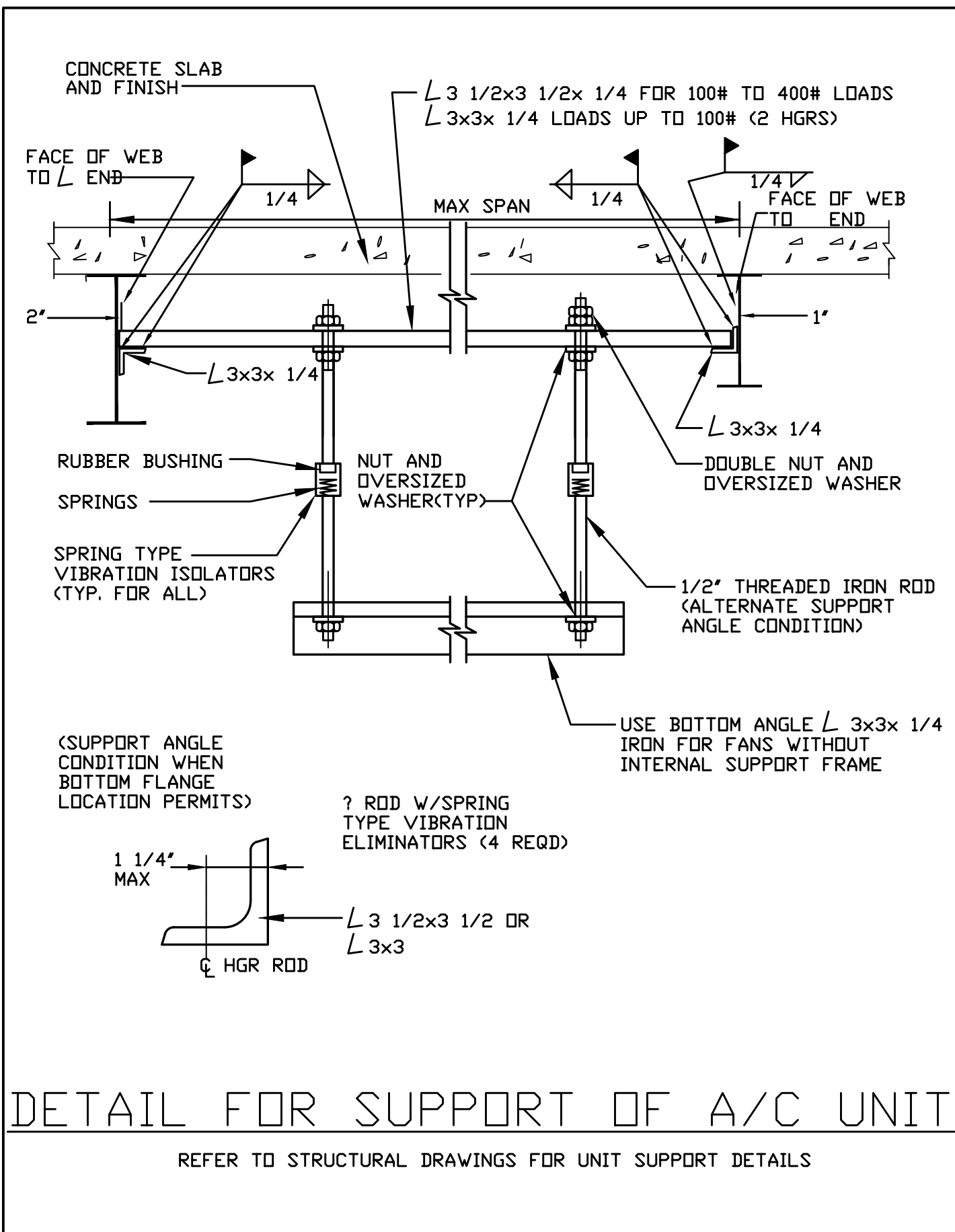
Discipline: Mechanical Drawn By: BC

MECHANICAL
DETAILS
SHEET 1

Scale: NTS

Factor:

M-500



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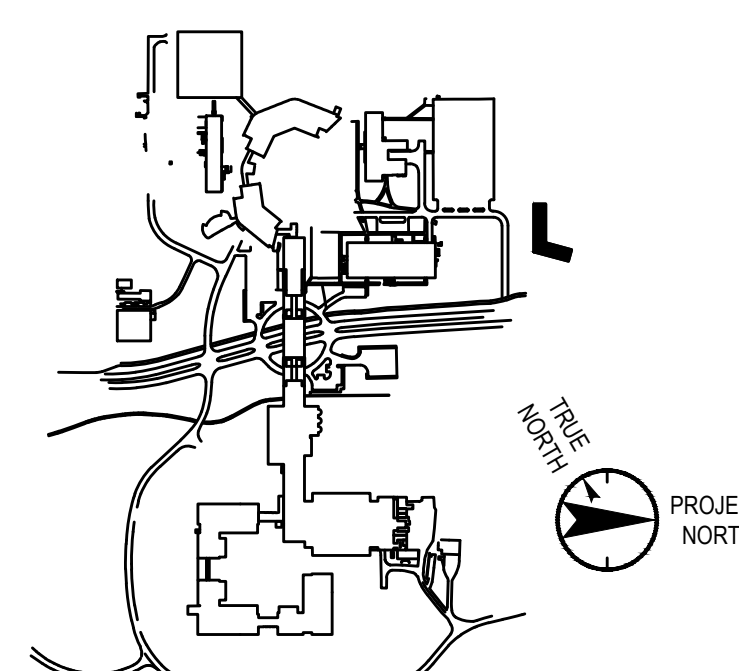
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Mechanical Drawn By: BC

MECHANICAL
DETAILS
SHEET 3

Scale: NTS Floor:

M-502

PIPE HANGER & SUPPORT SCHEDULE

PIPE HANGER & SUPPORT SCHEDULE

LESS THAN 1/4" MOVEMENT EXCEPT AS NOTED

MORE THAN 1/4" MOVEMENT EXCEPT AS NOTED

OVERHEAD SUPPORTS (HORIZONTAL PIPING)

1. CLEVIS HANGERS (FOR 6" PIPE AND BELOW)

2. CLEVIS ROLLER HANGERS (FOR 6" PIPE AND BELOW)

3. TWO ROD ROLLER HANGERS (FOR 6" PIPE AND ABOVE)

4. TWO ROD RIGID HANGERS (FOR 6" PIPE AND ABOVE)

5. U-BOLT

6. SADDLE

7. U-BOLT

8. SADDLE

9. U-BOLT

10. SADDLE

11. U-BOLT

12. SADDLE

13. U-BOLT

14. SADDLE

15. U-BOLT

16. SADDLE

17. U-BOLT

18. SADDLE

19. U-BOLT

20. SADDLE

21. U-BOLT

22. SADDLE

23. U-BOLT

24. SADDLE

25. U-BOLT

26. SADDLE

27. U-BOLT

28. SADDLE

29. U-BOLT

30. SADDLE

31. U-BOLT

32. SADDLE

33. U-BOLT

34. SADDLE

35. U-BOLT

36. SADDLE

37. U-BOLT

38. SADDLE

39. U-BOLT

40. SADDLE

41. U-BOLT

42. SADDLE

WELDED STEEL BRACKETS

20. ADJ. C.I. PIPE ROLL STAND

21. ADJ. STANCHION SUPPORTS

22. ADJ. STANCHION SUPPORTS

23. ADJ. STANCHION SUPPORTS

24. ADJ. STANCHION SUPPORTS

25. ADJ. STANCHION SUPPORTS

26. ADJ. STANCHION SUPPORTS

27. ADJ. STANCHION SUPPORTS

28. ADJ. STANCHION SUPPORTS

29. ADJ. STANCHION SUPPORTS

30. ADJ. STANCHION SUPPORTS

31. ADJ. STANCHION SUPPORTS

32. ADJ. STANCHION SUPPORTS

33. ADJ. STANCHION SUPPORTS

34. ADJ. STANCHION SUPPORTS

35. ADJ. STANCHION SUPPORTS

36. ADJ. STANCHION SUPPORTS

37. ADJ. STANCHION SUPPORTS

38. ADJ. STANCHION SUPPORTS

39. ADJ. STANCHION SUPPORTS

40. ADJ. STANCHION SUPPORTS

41. ADJ. STANCHION SUPPORTS

42. ADJ. STANCHION SUPPORTS

WELDED STEEL BRACKET

34. WELDED STEEL BRACKET

35. WELDED STEEL BRACKET

36. WELDED STEEL BRACKET

37. WELDED STEEL BRACKET

38. WELDED STEEL BRACKET

39. WELDED STEEL BRACKET

40. WELDED STEEL BRACKET

41. WELDED STEEL BRACKET

42. WELDED STEEL BRACKET

GANG HANGER

37. GANG HANGER

38. GANG HANGER

39. GANG HANGER

40. GANG HANGER

41. GANG HANGER

42. GANG HANGER

WELDED BEAM ATTACHMENT

37. WELDED BEAM ATTACHMENT

38. WELDED BEAM ATTACHMENT

39. WELDED BEAM ATTACHMENT

40. WELDED BEAM ATTACHMENT

41. WELDED BEAM ATTACHMENT

42. WELDED BEAM ATTACHMENT

STEEL BEAM CLAMP

37. STEEL BEAM CLAMP

38. STEEL BEAM CLAMP

39. STEEL BEAM CLAMP

40. STEEL BEAM CLAMP

41. STEEL BEAM CLAMP

42. STEEL BEAM CLAMP

WELDED BEAM ATTACHMENT WITH B&N

37. WELDED BEAM ATTACHMENT WITH B&N

38. WELDED BEAM ATTACHMENT WITH B&N

39. WELDED BEAM ATTACHMENT WITH B&N

40. WELDED BEAM ATTACHMENT WITH B&N

41. WELDED BEAM ATTACHMENT WITH B&N

42. WELDED BEAM ATTACHMENT WITH B&N

UPPER ATTACHMENTS

37. UPPER ATTACHMENTS

38. UPPER ATTACHMENTS

39. UPPER ATTACHMENTS

40. UPPER ATTACHMENTS

41. UPPER ATTACHMENTS

42. UPPER ATTACHMENTS

FIGURE NOS. 28, 30, 31, AND 33 USE FOR 1/4" MOVEMENT OR MORE

VRF PIPING ROOF PENETRATION

DETAIL PLAN

ELEVATION

LEGEND

1. THE VAULT

2. MATCHING WIND RATED ALUMINUM COVER

3. MATCHING ALUMINUM CURB 14" HIGH MIN. CURB MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS

4. CURB FLANGE, FASTEN TO ROOF DECK

5. SBS FLASHING MEMBRANE

6. CONTINUOUS CAULK WITH RUBBERIZED ASPHALT SEALANT

7. ROOFING SYSTEM

8. RECOVERY BOARD

9. RIGID INSULATION

10. METAL ROOF DECK

11. CONDUIT, PIPE, REFRIGERANT LINE, ETC. SIZES FROM 0.25" THRU 1.90" O.D.

12. SERIES 5000 EXIT SEAL FOR SIZES FROM 0.25" THRU 1.50" O.D.

13. CONDUIT, PIPE, REFRIGERANT LINE, ETC. SIZES FROM 1.50" THRU 1.90" O.D.

14. SERIES 6000 & 7000 EXIT SEAL FOR SIZES FROM 1.90" THRU 1.90" O.D.

15. VANDAL RESISTANT STAINLESS SCREWS

16. ICE INSULATED CURB EXTENSION

17. CURB VOID TO BE INSULATED BY OTHERS TO MATCH R-RATING OF ROOF ASSEMBLY

18. CONTACT RPH AT 1-800-994-0945

19. ALL VANDAL RESISTANT MODELS COMPLY WITH ICC-ES ESR-1301 - BUILDING ENVELOPE AIR LEAKAGE AND FEN-100-500 GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE VAULT AND APPROPRIATE TRADES TO PROVIDE EXIT SEALS

VRF PIPING ROOF PENETRATION

NOT SCALE

MCNYS NOTES:

- ALL HVAC PIPING TO FOLLOW REQUIREMENTS FOR MAXIMUM SPACING BETWEEN SUPPORTS, AS OUTLINED IN SECTION C305.4 AND TABLE C405.4 OF THE MCNYS CODE. ALSO REFER TO BOOK SPECIFICATION SECTION 230529.

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ELECTRIC MAT LAYOUT
DETAILS

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Project No. B17-DAYCARE

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UNIT TAG		DEDICATED OUTSIDE AIR SYSTEM (DOAS) SCHEDULE (CONTINUED)																"DAIKIN" AS STD.																				
		AIR-COOL HEAT PUMP HEATING DATA				AUXILIARY HEAT	SUPPLY FAN								EXHAUST FAN								PRE FILTERS			FINAL FILTERS			PRE FILTERS			ELECTRICAL INFO				WEIGHT (LBS)	MODEL NO.	NOTES
		TMHB	EAT (DEG F)	LAT (DEG F)	COP @ 47 DEG_F		KW (0 DEG F - 60 DEG F)	TYPE	CFM	E.S.P. (IN. W.C.)	T.S.P. (IN. W.C.)	RPM	BHP	HP	FLA/MOTOR	TYPE	CFM	E.S.P. (IN. W.C.)	T.S.P. (IN. W.C.)	RPM	BHP	HP	FLA/MOTOR	SUPPLY ONLY	SUPPLY ONLY	RETURN ONLY	FLA	MCA	MOP	V/PH/Hz								
899-DOAS-R-01	164.2	45.0	97.2	3.64	72	SWSI AF, ECM DIRECT DRIVE	2,900/3,700	2.5	3.9	1,550	3.3	8	6.1	SWSI AF, ECM DIRECT DRIVE	2,100/2,900	2.5	3.8	2,050	1.67	4	4	2" MERV 8	4" MERV 14	2" MERV 8	119	122	125	460/3/60	2,800	DP5015A	1 TO 10							
899-DOAS-R-02	165.5	45.00	94.2	3.64	72	SWSI AF, ECM DIRECT DRIVE	3,100/3,900	2.5	4	1,600	3.5	8	6.1	SWSI AF, ECM DIRECT DRIVE	2,100/2,900	2.5	3.8	2,100	1.7	4	4	2" MERV 8	4" MERV 14	2" MERV 8	119	122	125	460/3/60	2,800	DP5015A	1 TO 10							

AIR OUTLET & INLET SCHEDULE										MANUFACTURER "TITUS"			
TAG	SERVICE	SPEC. TYPE	SIZE IN INCHES			MAX CFM	TOTAL PRESSURE	VELOCITY PRESSURE	THROW	MAX NC	MODEL NUMBER	NOTES	
			FACE	NECK NOM.	DUCT SIZE		BLADE SPACING	(IN. W.C.)					(IN. W.C.)
CD-1	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	4" Ø	-	75	0.134	0.040	2-3.6	21	OMNI		
CD-2	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	6" Ø	-	157	0.194	0.040	4-6.12	21	OMNI		
CD-3	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	8" Ø	-	244	0.213	0.031	5-8.16	17	OMNI		
CD-4	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	6" Ø	-	180	0.044	0.040	2-4.7	13	OMNI		
CD-5	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	8" Ø	-	280	0.072	0.040	4-6.12	17	OMNI		
CD-6	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	10" Ø	-	450	0.107	0.040	5-8.14	20	OMNI		
CG-1	EXHAUST/RETURN AIR	CEILING GRILLE (SQUARE PANEL)	12x12	-	-	350					OMNI		
CG-2	EXHAUST/RETURN AIR	CEILING GRILLE (SQUARE PANEL)	24x24	-	-	800					OMNI		
SG-1	SUPPLY AIR	SUPPLY GRILLE	8x8	6x6	3/4"	150	0.131	0.040	10-12-18	24	301RL		
SG-2	SUPPLY AIR	SUPPLY GRILLE	10x10	8x8	3/4"	300	0.131	0.040	14-17-25	27	301RL		
SG-3	SUPPLY AIR	SUPPLY GRILLE	12x12	10x10	3/4"	450	0.131	0.040	18-22-31	29	301RL		
EG-1	EXHAUST AIR	EXHAUST GRILLE	8x8	6x6	3/4"	150	-	0.040	-	25	350RL		
EG-2	EXHAUST AIR	EXHAUST GRILLE	14x12	12x10	3/4"	360	0.051	0.016	-	11	350RL		
EG-3	EXHAUST AIR	EXHAUST GRILLE	20x14	18x12	3/4"	675	0.051	0.016	-	13	350RL		
COMMON NOTES:													
A. DATA OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 20-1991.													
B. THROW VALUES ARE GIVEN FOR TERMINAL VELOCITIES OF 150, 100 AND 50 FPM AND FOR ISOTHERMAL CONDITIONS.													
C. NC VALUES BASED ON OCTAVE BAND 2 TO 7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB.													
D. EACH NC VALUE REPRESENTS THE NOISE CRITERIA CURVE WHICH WILL NOT BE EXCEEDED BY THE SOUND PRESSURE IN ANY OF THE OCTAVE BANDS, 2 THROUGH 7, WITH A ROOM ABSORPTION OF 10 DB, RE 10 ⁻¹² WATTS.													
E. DATA UNDER TOTAL PRESSURE FOR RETURN GRILLES IS NEGATIVE STATIC PRESSURE.													
F. COORDINATE BORDER TYPE WITH ARCHITECTURAL, REFLECTED CEILING PLANS. OFFICE BATHROOMS TO HAVE BORDER TYPE 3.													
G. PROVIDE CABLE OPERATED DAMPER THRU DIFFUSER IN UNACCESSIBLE CEILING (SEE DETAIL).													
H. PROVIDE LIGHT SHIELD FOR RETURN GRILLES.													
NOTES:													
1.) THROW AND PRESSURE DROP INFO PROVIDED FOR 45 DEG DEFLECTION ANGLE.													
2.) BORDER TYPE 7. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS. GRILLE TO BE HEAVY DUTY CONSTRUCTION. DAMPER ACCESS IS THROUGH THE GRILLE. FINISH BY ARCHITECT.													
3.) PROVIDE WITH REMOTE CABLE OPERATED DAMPER FOR AIR OUTLETS NEAR UNACCESSIBLE CEILINGS.													
4.) THROW AND PRESSURE DROP INFO PROVIDED FOR 22.5 DEG DEFLECTION ANGLE.													

VARIABLE REFRIGERANT VOLUME AIR CONDITIONING UNIT SCHEDULE - CRITICAL SPACES																														MANUFACTURER "DAIKIN" OR APPROVED EQUAL					
INDOOR UNIT TAG	OUTDOOR CONDENSING UNIT TAG	SERVICE	TYPE	OUTDOOR UNIT												INDOOR UNIT										REFRIGERANT		PIPING				VIBRATION ISOLATION		REMARKS	
				OPERATING RANGE		ELECTRICAL			QUANTITY	MAX AIR FLOW RATE (CFM)	SOUND PRESSURE (DBA)	WEIGH T (LBS)	EER	SEER (SCOP-T2)	Region IV HSFP RATING (HEATING)	MODEL NO.	TOTAL COOLING CAPACITY (BTU/HR)	SENSIBLE COOLING CAPACITY (BTU/HR)	HEATING CAPACIT Y (BTU/HR)	ELECTRICAL			FAN AIR FLOW (CFM) FL	SOUND PRESSURE (DBA) HL	WEIGHT (LBS)	MODEL NO.	TYPE	CHARGE (LBS)	LIQUID LINE (IN., OD)	VAPOR LINE (IN., OD)	MAX PIPE LENGTH (FT.)	MAX ELEVATIO N (FT.)	TYPE		DEFLECTIO N (IN.)
				COOLING DB	HEATING DB	V / PH / HZ	MOP	MCA												V / PH / HZ	MOP	MCA													
899-AC-1-06	899-CU-R-06	ELECTRICAL ROOM	SINGLE ZONE EXTENDED PPE	95	5	208 / 1 / 60	20	18.3	1	2,800	59	150	9.1	15.9 (5.8)	9.2	RX36NMVJU	34,400	22,800	15,740	208 / 1 / 60	64 WATTS	37 FLA	915 / 575	5440	40	FTX36NVJU	410A	3.96	1/4	5/8	98	65	SEE SPECS		
899-AC-1-07	899-CU-R-07	IT CLOSET	SINGLE ZONE EXTENDED PIPE	95	0	208 / 1 / 60	20	16.5	1	2,900	58	175	10.2	17.6 (5.8)	8.4	FAQ24TAVJU	24,000	18,000	27,000	208 / 1 / 60	15	0.6	635 / 470	43 / 37	35	RZQ24TAVJUA	410A	6.44	3/8	5/8	25	-	SEE SPECS		
NOTES: PROVIDE UNITS WITH THE FOLLOWING: a) PROVIDE TEMPERATURE SENSOR AND BACNET INTERFACES TO BE MONITORED BY BMS b) PROVIDE CONDENSATE PUMP TO BE POWERED THROUGH THE UNIT. PROVIDE SHELF ON WALL FOR PUMP c) VIBRATION ISOLATORS d) DISCONNECT SWITCHES																																			

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Vendor Name: COSENTINI	
Vendor Project No.: 210104	
Discipline: Mechanical	Drawn By: BC
MECHANICAL EQUIPMENT SCHEDULE SHEET 1	
Scale: NTS	Floor:

M-600

M-600

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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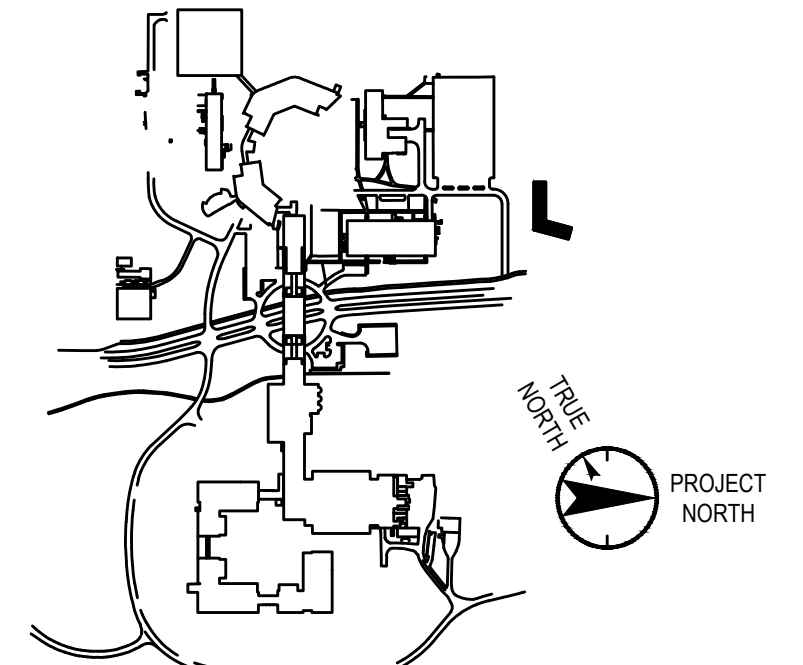
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Landscape Architect

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Key Plan



No.	Date	Description
0	05.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Vendor Project No.: 210104
Discipline: Drawn By:

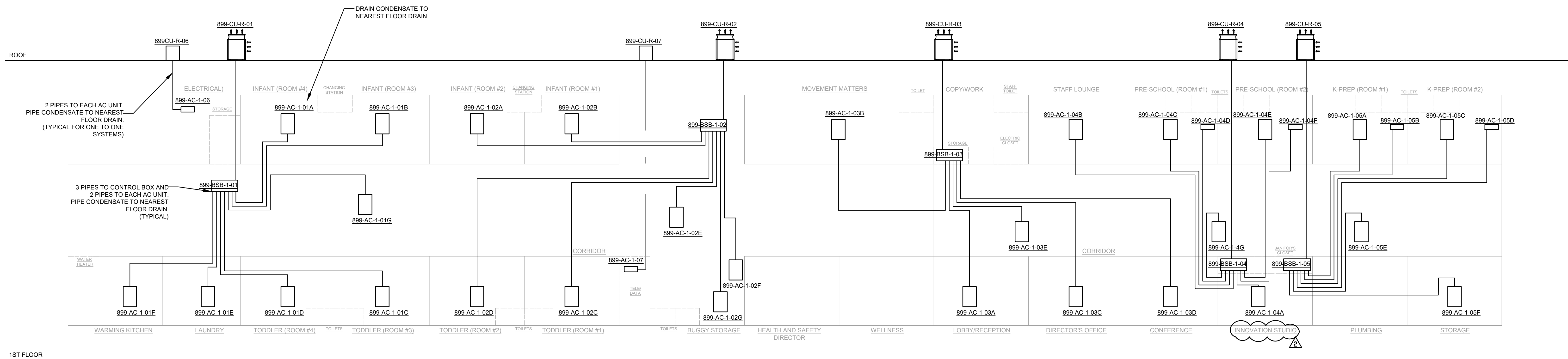
MECHANICAL RISER DIAGRAM

Scale: NTS Floor:

M-700

ECCCNYS NOTES:

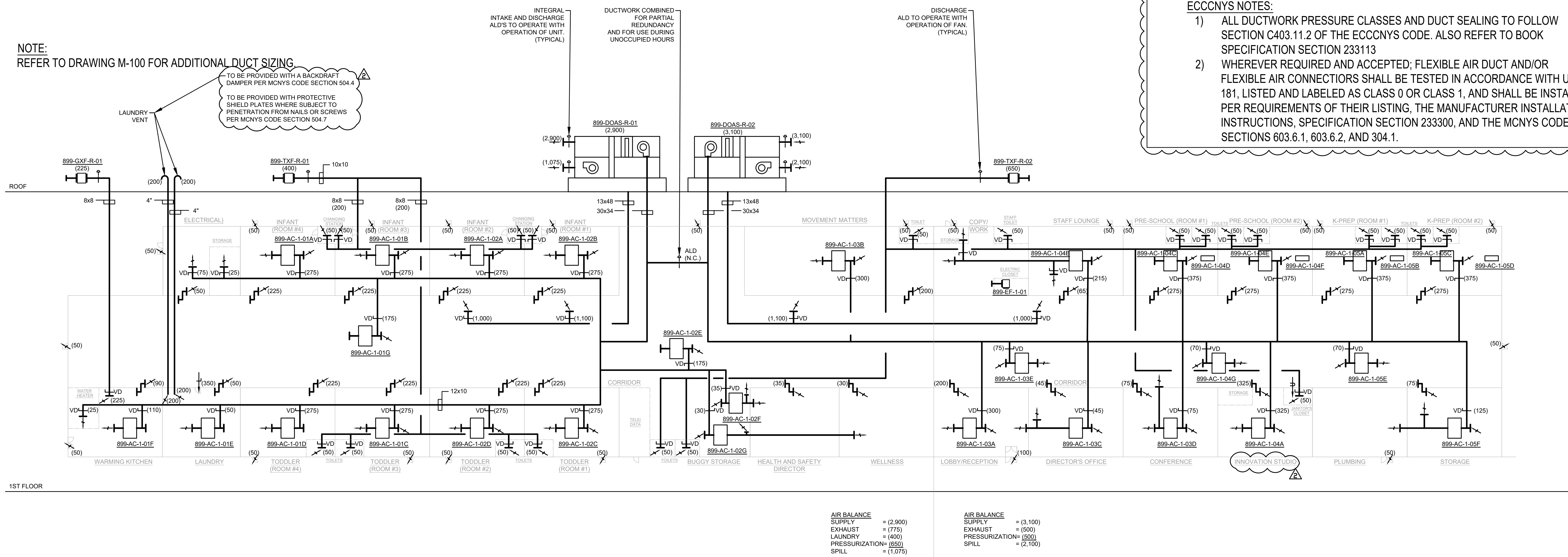
1) ALL HVAC PIPING TO BE INSULATED TO FOLLOW SECTION C403.11.3 AND TABLE C403.11.3 OF THE ECCCNYS CODE. ALSO REFER TO BOOK SPECIFICATION SECTION 230719



REFRIGERANT RISER DIAGRAM

TO BE PROVIDED WITH A BACKDRAFT DAMPER PER MCNYS CODE SECTION 504.4

TO BE PROVIDED WITH PROTECTIVE SHIELD PLATES WHERE SUBJECT TO PENETRATION FROM NAILS OR SCREWS PER MCNYS CODE SECTION 504.7



AIR RISER DIAGRAM

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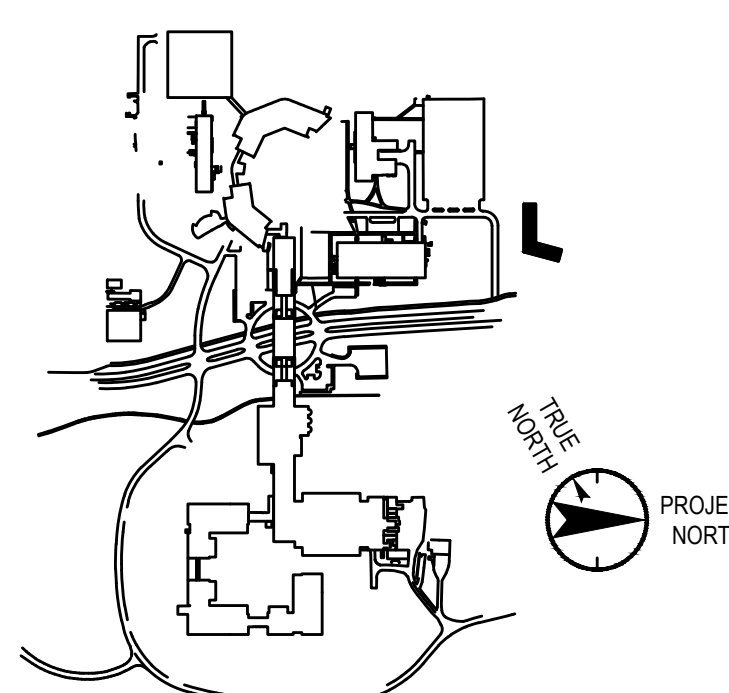
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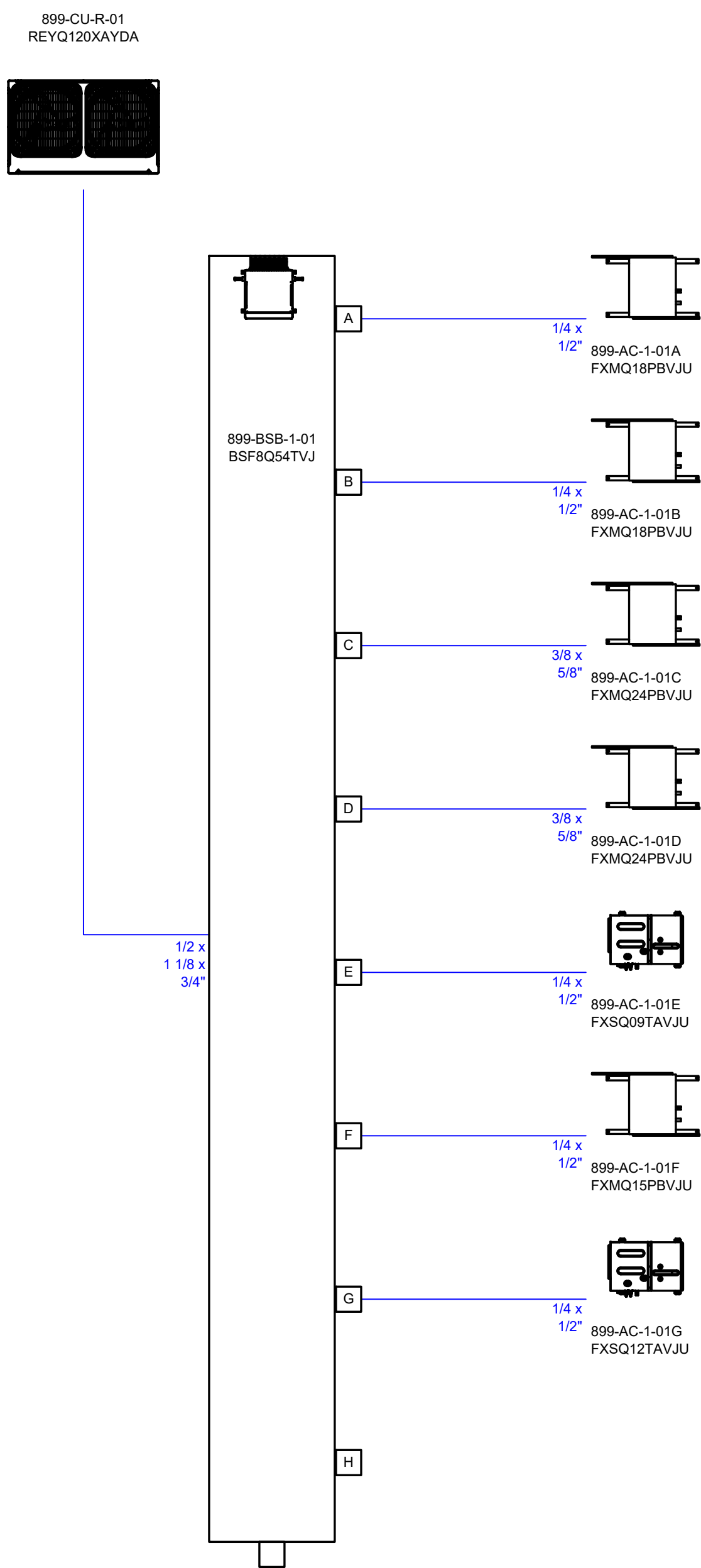
Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Drawn By:

MECHANICAL
VRF DIAGRAM
SHEET 1

Scale: NTS Floor:

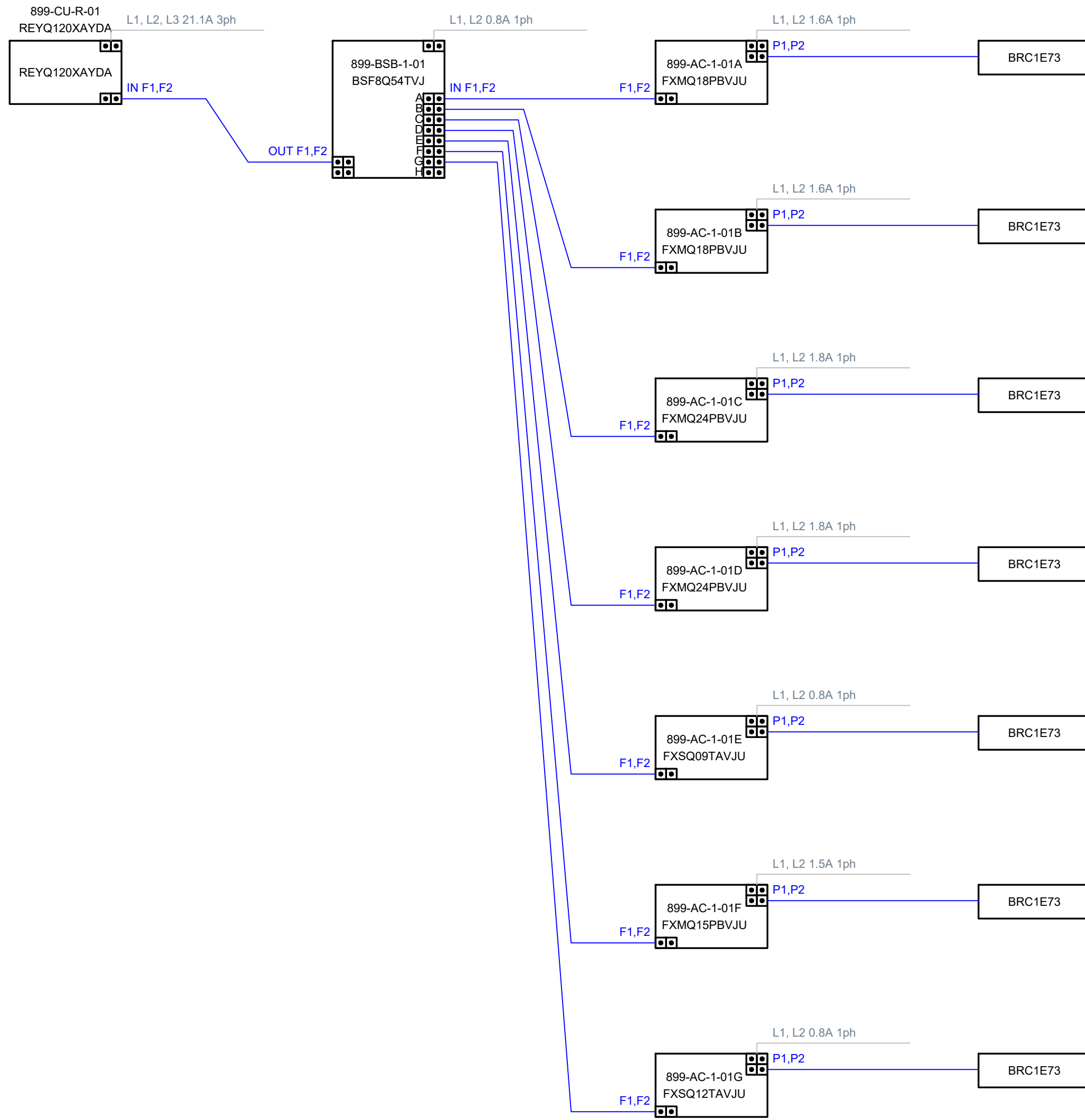
M-701

Client	USA
Project	Daycare center
Title	Piping schematics CU-R-1 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No	

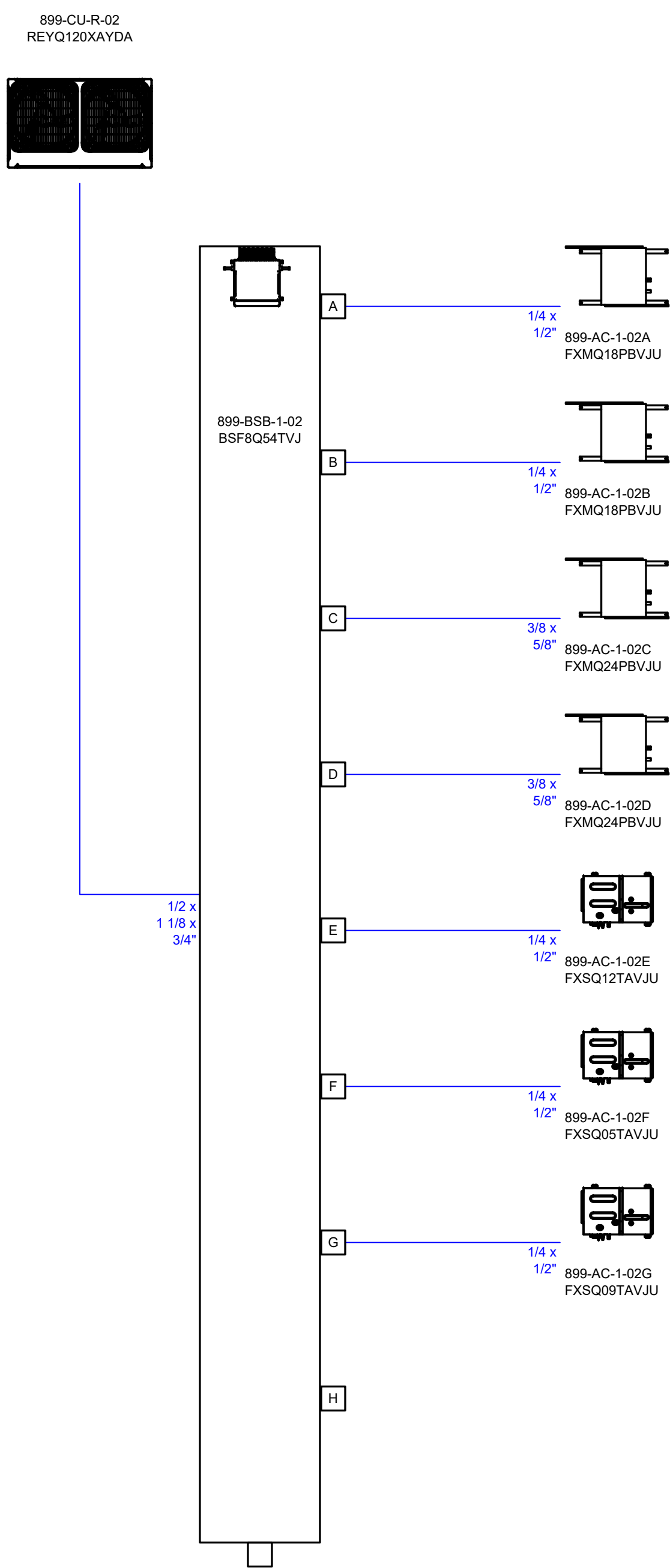


NOTE:
FINAL REFRIGERANT SIZE TO BE CONFIRMED
BY CONTRACTOR AND MANUFACTURER

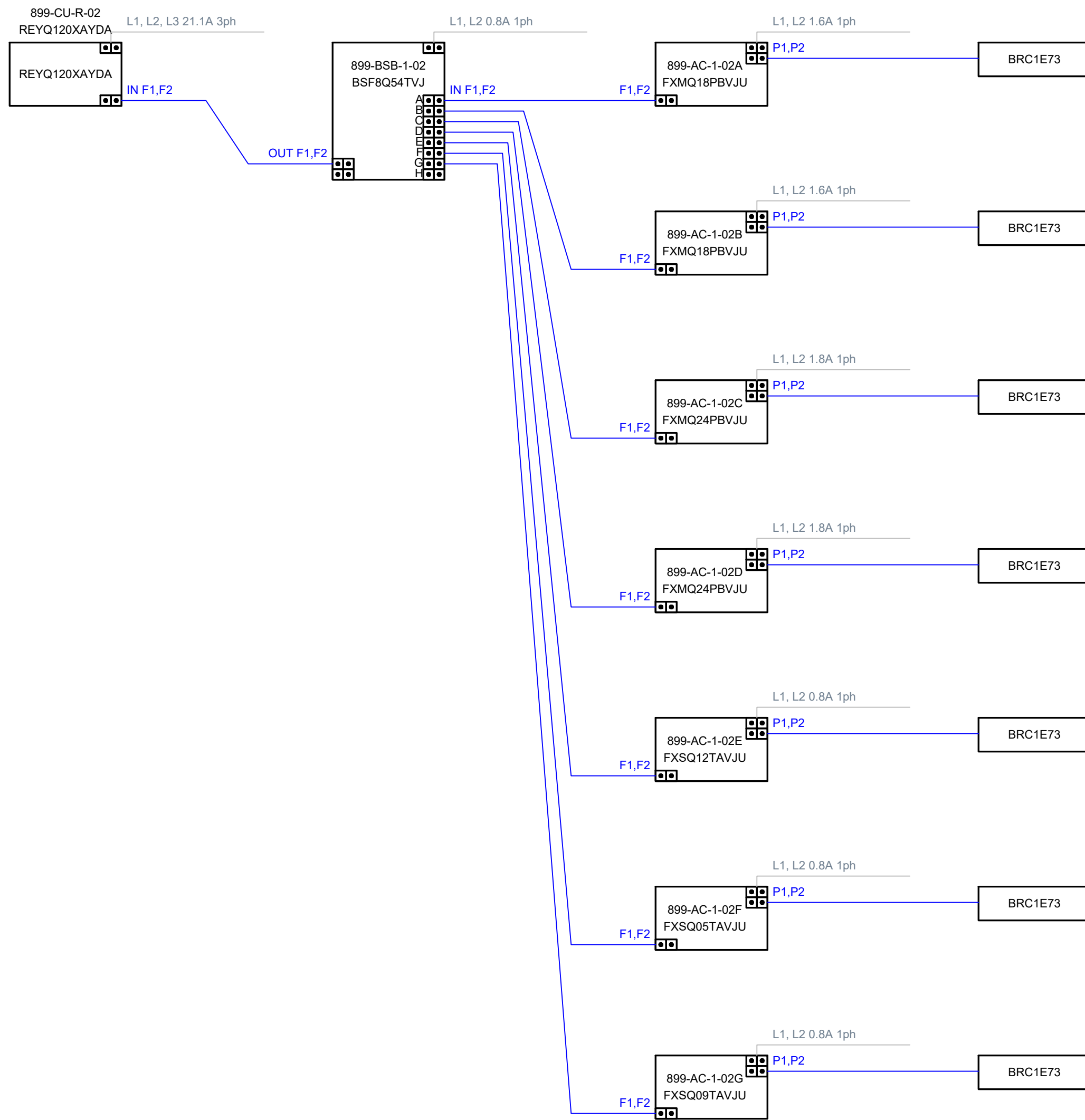
Client	USA
Project	Daycare center
Title	Wiring schematics CU-R-1 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No	



Client	USA
Project	Daycare center
Title	Piping schematics CU-R-2 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No	



Client	USA
Project	Daycare center
Title	Wiring schematics CU-R-2 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No	



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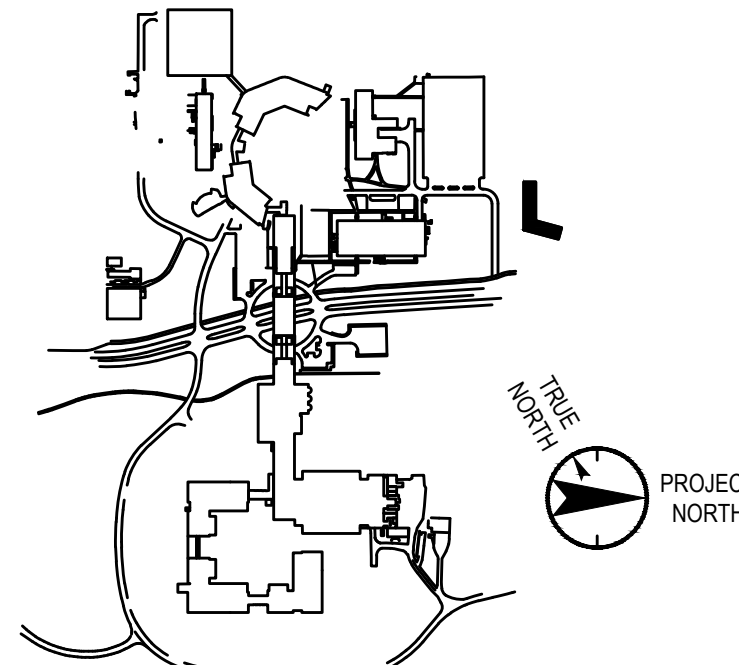
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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT
1 06.20.2022 100% CONSTRUCTION DOCUMENTS
2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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REUSE.

Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Drawn By:

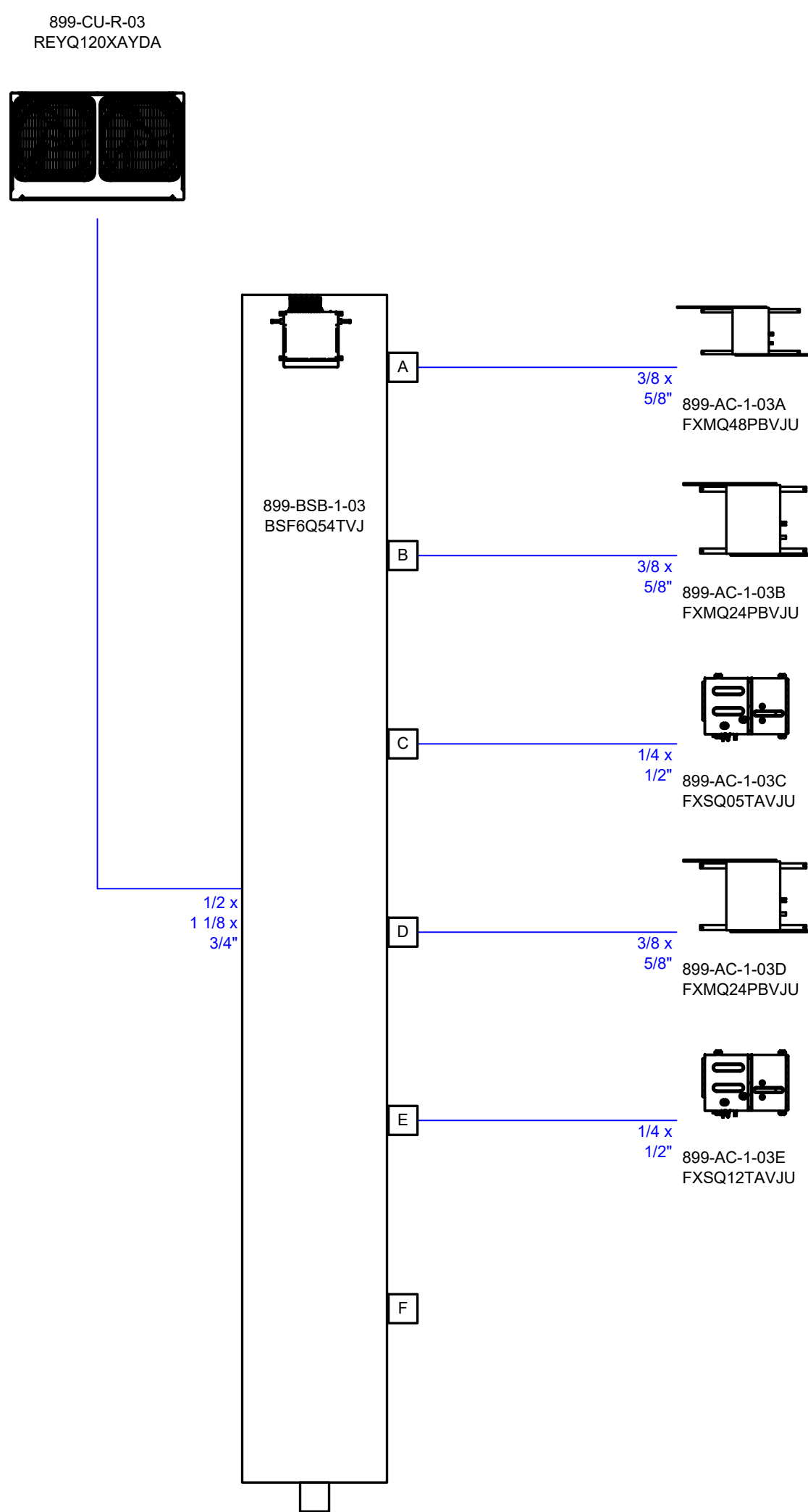
MECHANICAL
VRF DIAGRAM
SHEET 2

Scale: NTS

Floor:

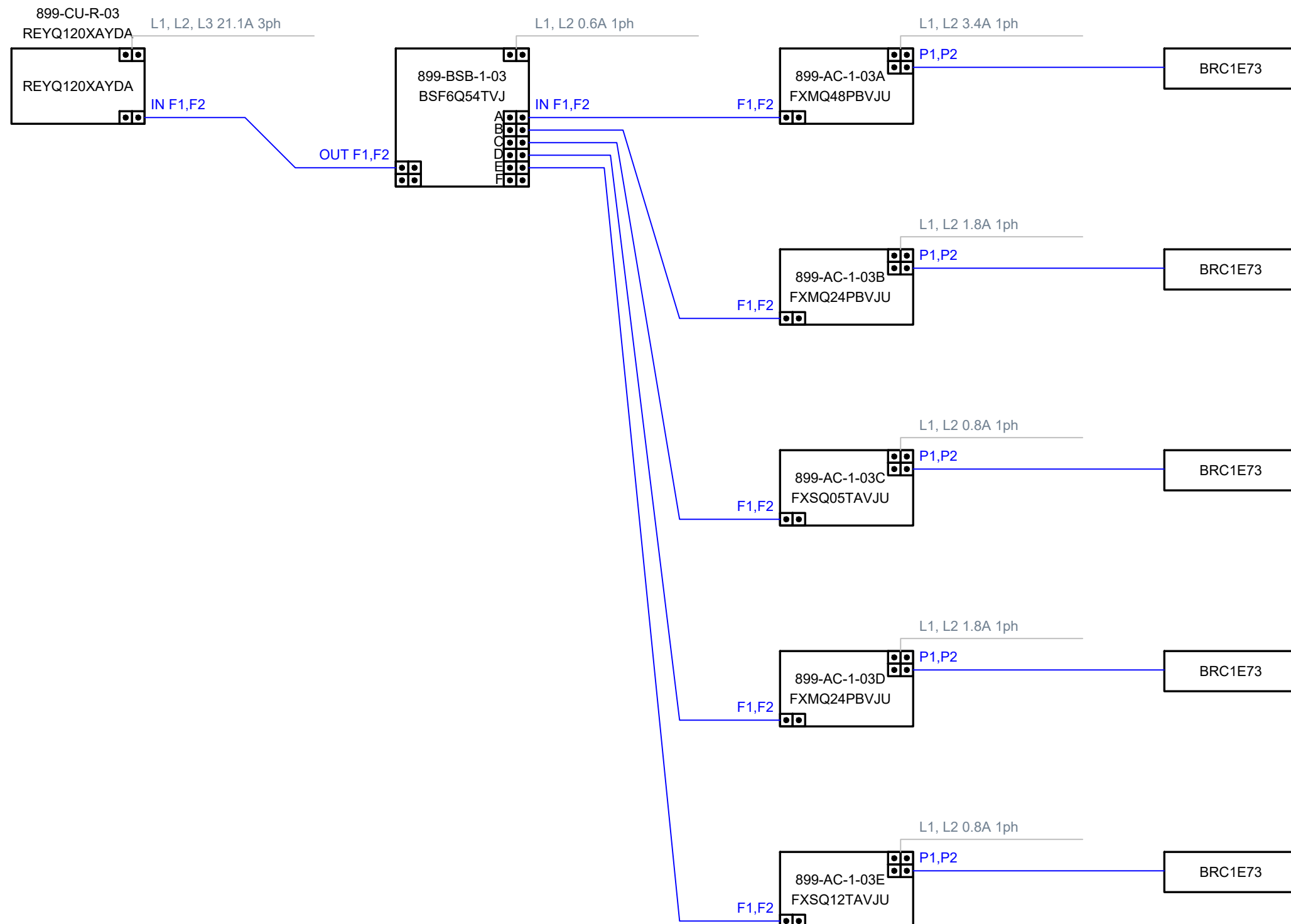
M-702

Client	USA
Project	Daycare center
Title	Piping schematics CUR-R-3 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No.	

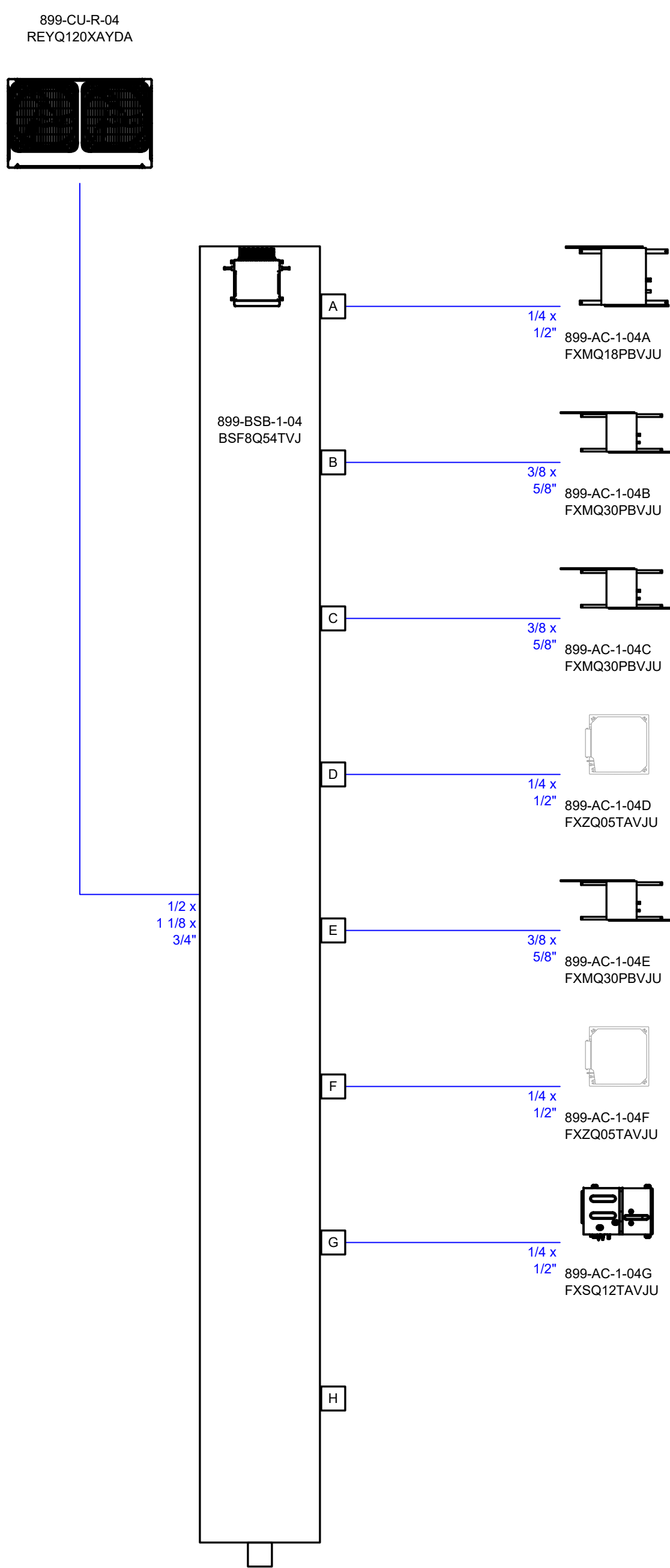


NOTE:
FINAL REFRIGERANT SIZE TO BE CONFIRMED
BY CONTRACTOR AND MANUFACTURER

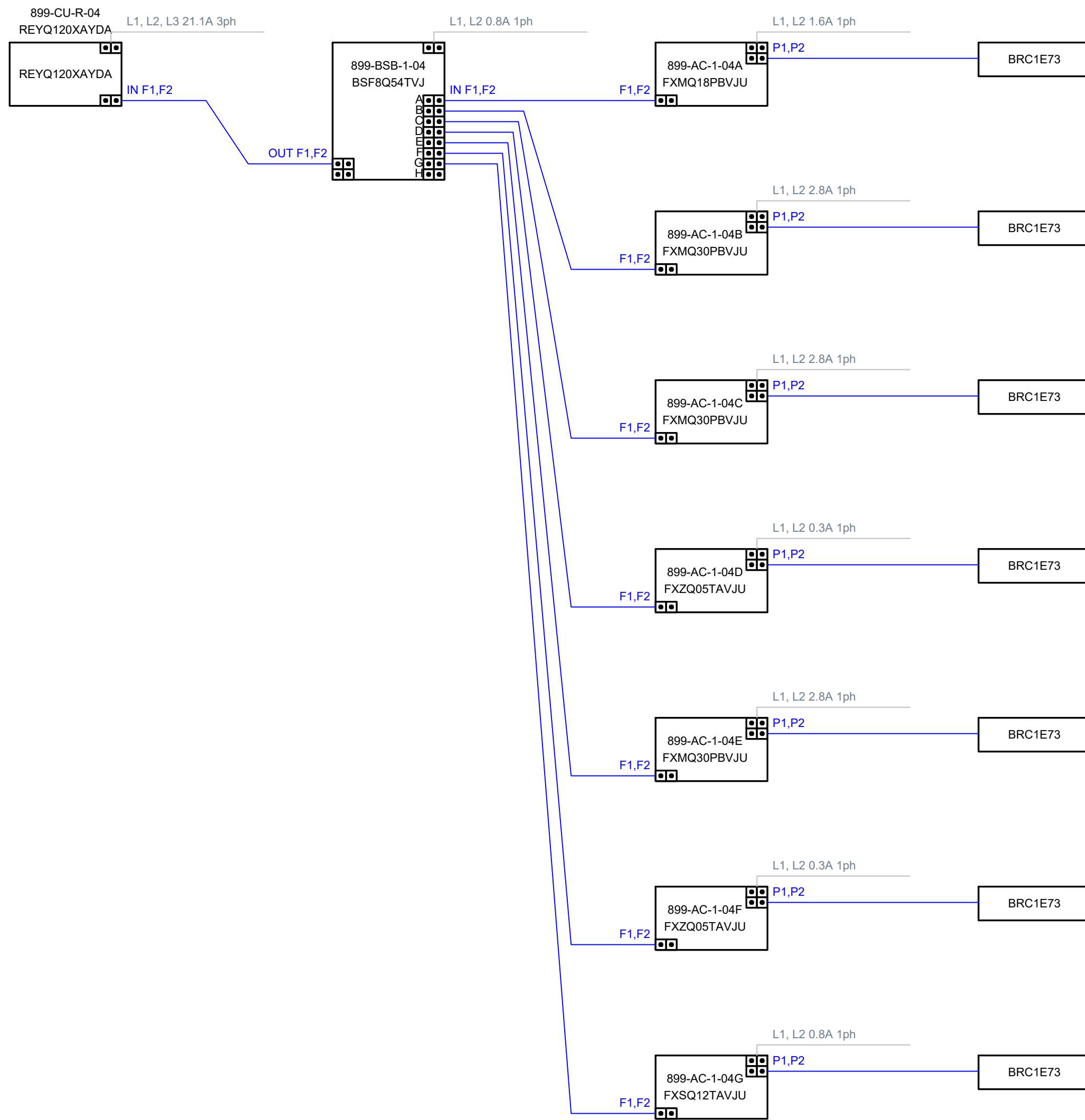
Client	USA
Project	Daycare center
Title	Wiring schematics CUR-R-3 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No.	



Client	USA
Project	Daycare center
Title	Piping schematics CUR-R-4 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No.	



Client	USA
Project	Daycare center
Title	Wiring schematics CUR-R-4 Air cooled heat recovery VRV-V-X-A REYQ120XAYDA
Date	04/26/2022
Drawing No.	



TO THE BEST OF MY KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGMENT, THESE PLANS AND
SPECIFICATIONS ARE IN COMPLIANCE WITH THE
2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the
application specification sheet. All other matters shown are
not to be relied upon, or to be considered as either being
approved or in accordance with applicable codes.

Alterations or additions to this engineering document
by an unlicensed person is a violation of Chapter 16,
Title VIII, Article 145 § 7209.2 of the New York
State Education Law.

