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PETTIT & PETTIT
CONSULTING ENGINEERS, INC.

HVAC DEMOLITION NOTES

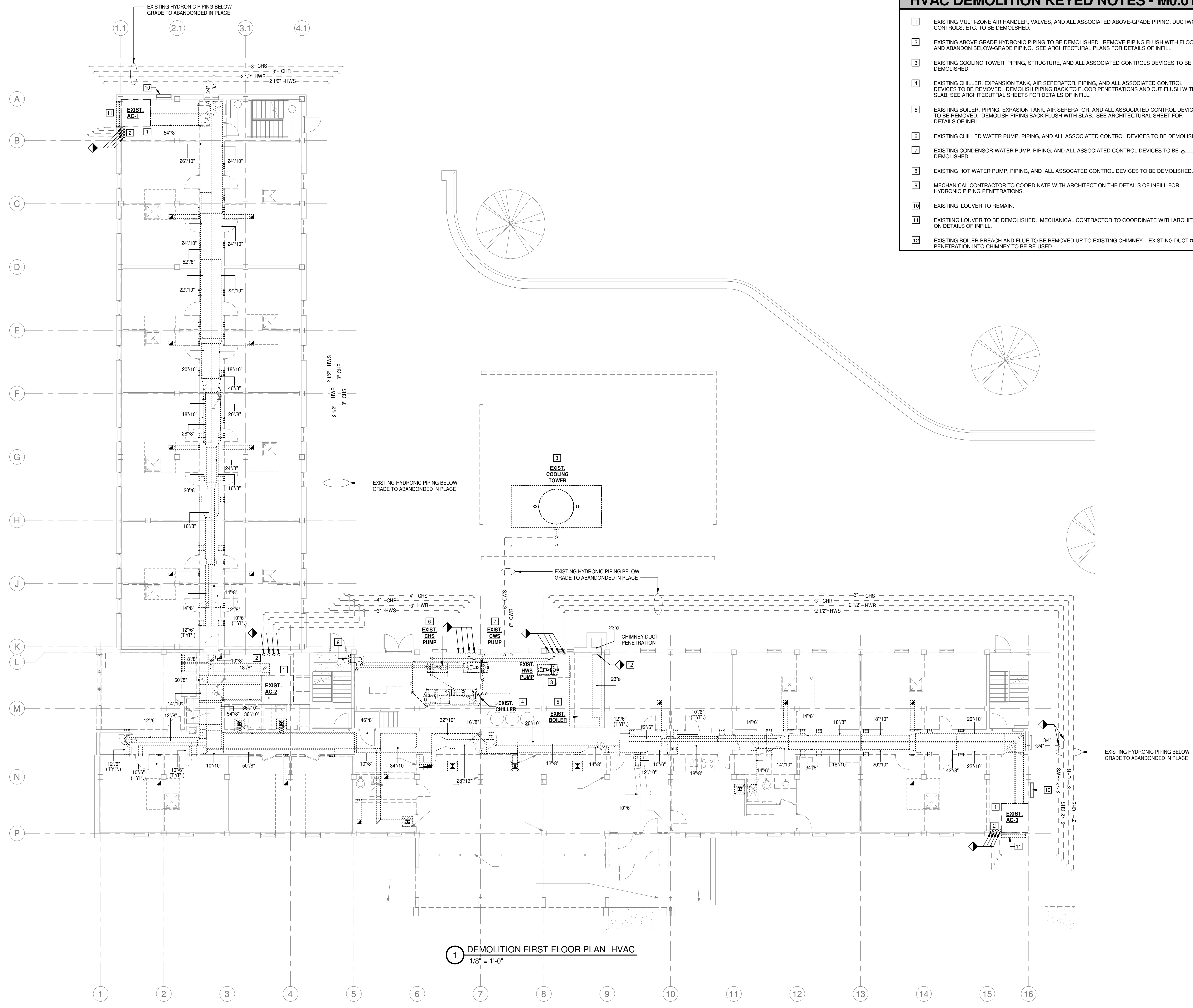
- 1 ALL WORK SHALL OCCUR IN SEPARATE ABATEMENT SCOPE, NOT IN BASE BID PRICING.

HVAC GENERAL DEMOLITION NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES - M0.01

- 1 EXISTING MULTI-ZONE AIR HANDLER, VALVES, AND ALL ASSOCIATED ABOVE-GRADE PIPING, DUCTWORK, CONTROLS, ETC. TO BE DEMOLISHED.
- 2 EXISTING ABOVE GRADE HYDRONIC PIPING TO BE DEMOLISHED. REMOVE PIPING FLUSH WITH FLOOR AND ABANDON BELOW-GRADE PIPING. SEE ARCHITECTURAL PLANS FOR DETAILS OF INFILL.
- 3 EXISTING COOLING TOWER, PIPING, STRUCTURE, AND ALL ASSOCIATED CONTROLS DEVICES TO BE DEMOLISHED.
- 4 EXISTING CHILLER, EXPANSION TANK, AIR SEPARATOR, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE REMOVED. DEMOLISH PIPING BACK TO FLOOR PENETRATIONS AND CUT FLUSH WITH SLAB. SEE ARCHITECTURAL SHEETS FOR DETAILS OF INFILL.
- 5 EXISTING BOILER, PIPING, EXPANSION TANK, AIR SEPARATOR, AND ALL ASSOCIATED CONTROL DEVICES TO BE REMOVED. DEMOLISH PIPING BACK FLUSH WITH SLAB. SEE ARCHITECTURAL SHEET FOR DETAILS OF INFILL.
- 6 EXISTING CHILLED WATER PUMP, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.
- 7 EXISTING CONDENSOR WATER PUMP, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.
- 8 EXISTING HOT WATER PUMP, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.
- 9 MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON THE DETAILS OF INFILL FOR HYDRONIC PIPING PENETRATIONS.
- 10 EXISTING LOUVER TO REMAIN.
- 11 EXISTING LOUVER TO BE DEMOLISHED. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON DETAILS OF INFILL.
- 12 EXISTING BOILER BREACH AND FLUE TO BE REMOVED UP TO EXISTING CHIMNEY. EXISTING DUCT PENETRATION INTO CHIMNEY TO BE RE-USED.



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

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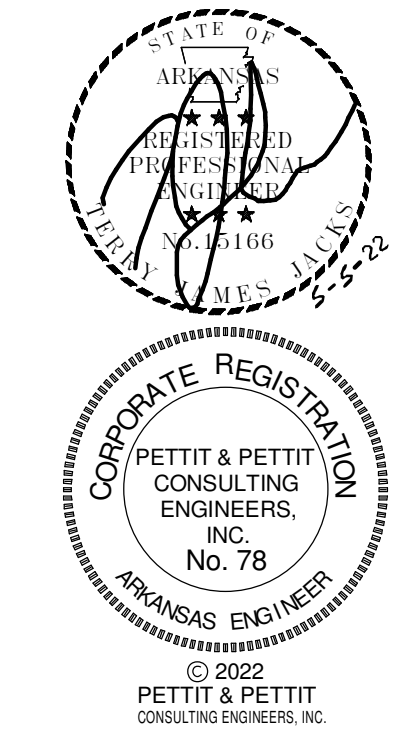
Jones Residence Hall
Arkansas Tech University
1804 N Boulder Ave.
Russellville, AR 72801

REVISIONS

PROJECT NO.
21054
DATE:
May 5, 2022

FIRST FLOOR
DEMOLITION PLAN -
HVAC

M0.01



HVAC DEMOLITION NOTES

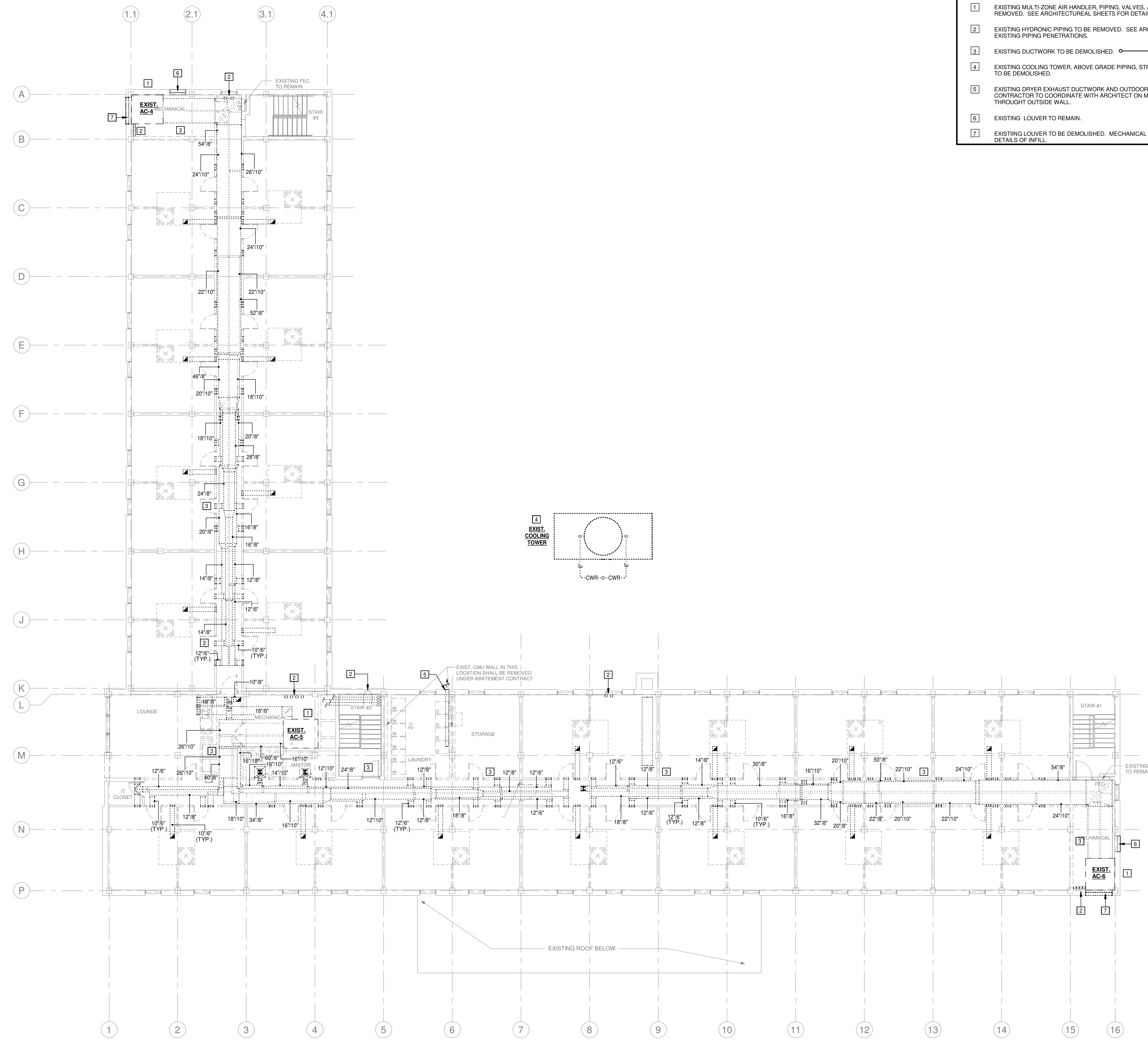
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HVAC GENERAL DEMOLITION NOTES

- ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
- ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
- FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
- SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES - M0.02

- EXISTING MULTI-ZONE AIR HANDLER, PIPING, VALVES, AND ALL ASSOCIATED CONTROL DEVICES TO BE REMOVED. SEE ARCHITECTURAL SHEETS FOR DETAILS ON INFILL.
- EXISTING HYDRONIC PIPING TO BE REMOVED. SEE ARCHITECTURAL SHEETS FOR DETAILS ON INFILL FOR EXISTING PIPING PENETRATIONS.
- EXISTING DUCTWORK TO BE DEMOLISHED.
- EXISTING COOLING TOWER, ABOVE GRADE PIPING, STRUCTURE, AND ALL ASSOCIATED CONTROLS DEVICES TO BE DEMOLISHED.
- EXISTING DRYER EXHAUST DUCTWORK AND OUTDOOR TERMINAL DEVICES TO BE DEMOLISHED. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON METHOD OF INFILL OF DUCTWORK PENETRATIONS THROUGHOUT OUTSIDE WALL.
- EXISTING LOUVER TO REMAIN.
- EXISTING LOUVER TO BE DEMOLISHED. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON DETAILS OF INFILL.



1 DEMOLITION SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"

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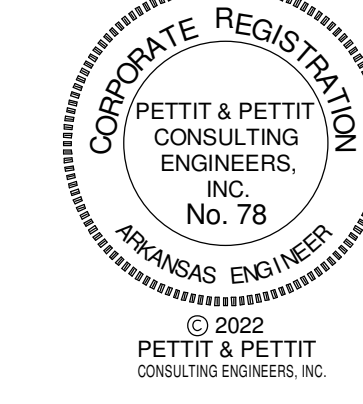
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SECOND FLOOR
DEMOLITION PLAN -
HVAC

M0.02



HVAC DEMOLITION NOTES

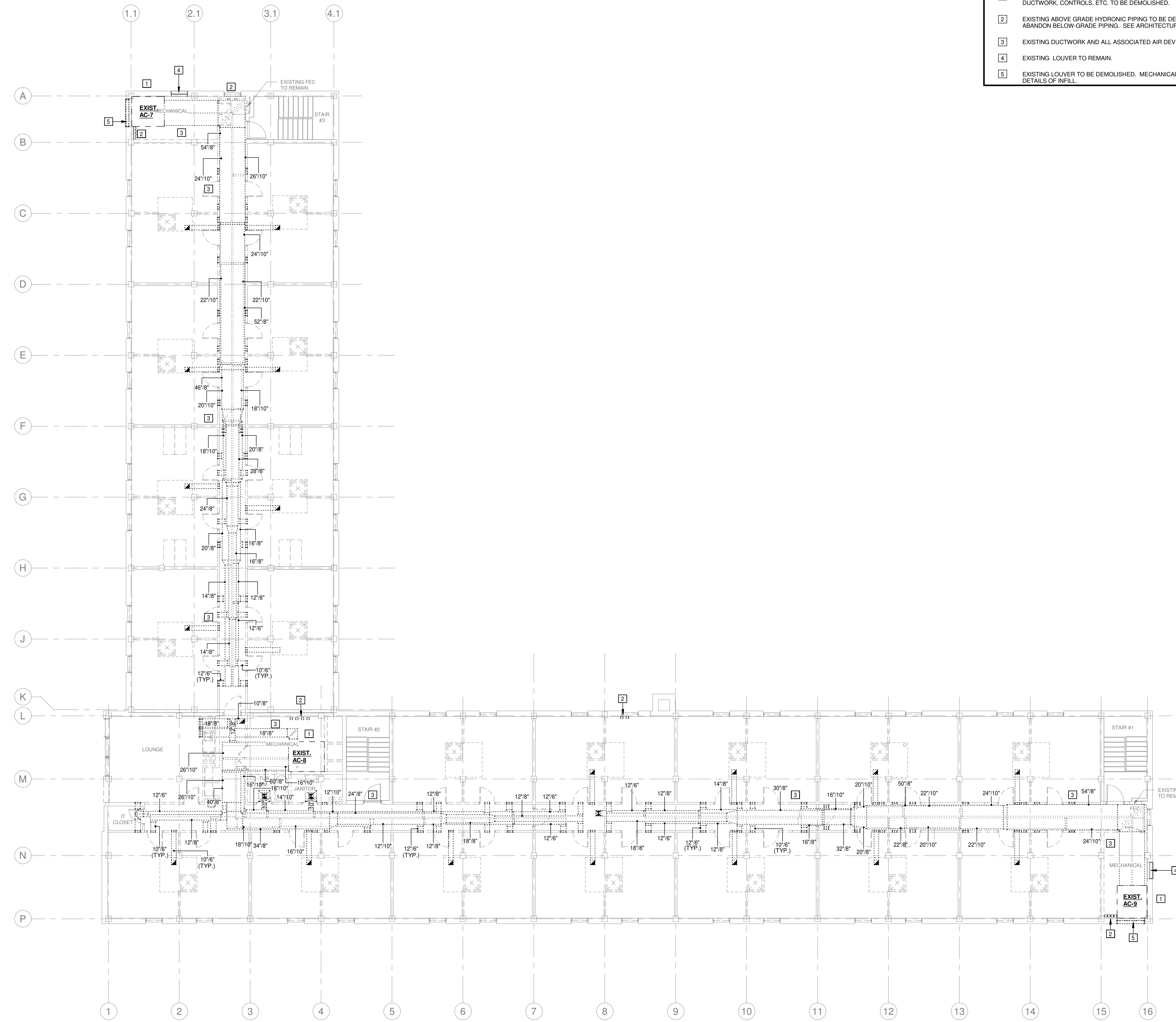
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HVAC DEMOLITION KEYED NOTES - M0.03

1	EXISTING MULTI-ZONE AIR HANDLER, VALVES, CONTROLS, AND ALL ASSOCIATED ABOVE-GRADE PIPING, DUCTWORK, CONTROLS, ETC. TO BE DEMOLISHED.	1
2	EXISTING ABOVE GRADE HYDRONIC PIPING TO BE DEMOLISHED. REMOVE PIPING FLUSH WITH FLOOR AND ABANDON BELOW-GRADE PIPING. SEE ARCHITECTURAL PLANS FOR DETAILS OF INFILL.	1
3	EXISTING DUCTWORK AND ALL ASSOCIATED AIR DEVICES TO BE DEMOLISHED.	1
4	EXISTING LOUVER TO REMAIN.	1
5	EXISTING LOUVER TO BE DEMOLISHED. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON DETAILS OF INFILL.	1



1 DEMOLITION THIRD FLOOR PLAN - HVAC
1/8" = 1'-0"

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THIRD FLOOR
DEMOLITION PLAN -
HVAC

M0.03

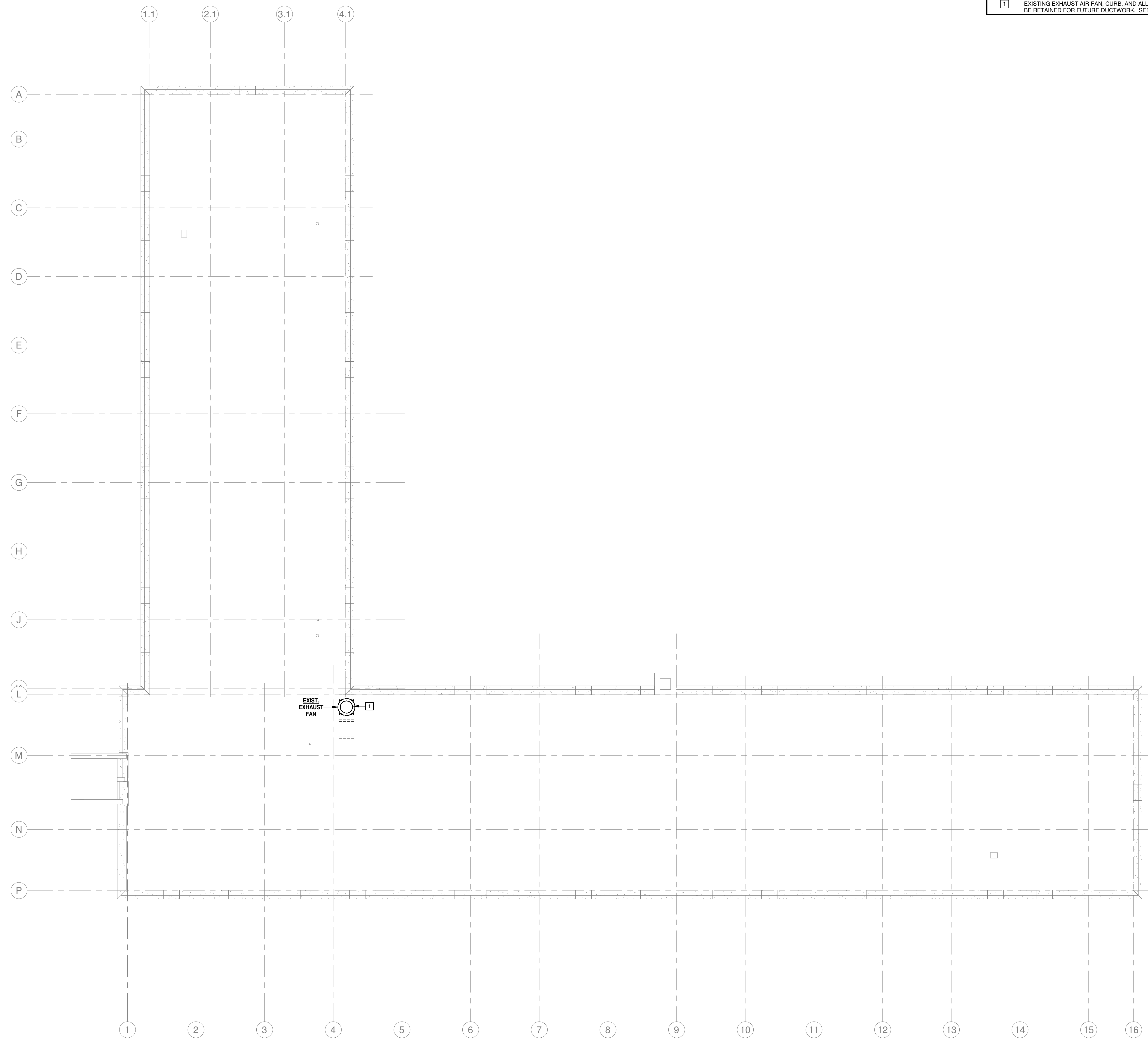


HVAC GENERAL DEMOLITION NOTES

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2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES - M0.04

- 1 EXISTING EXHAUST AIR FAN, CURB, AND ALL ASSOCIATED CONTROL DEMOLISHED. EXISTING OPENING TO BE RETAINED FOR FUTURE DUCTWORK. SEE ROOF PLAN, SHEET M1.04.



1 DEMOLITION ROOF PLAN - HVAC
1/8" = 1'-0"

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ROOF DEMOLITION
PLAN - HVAC

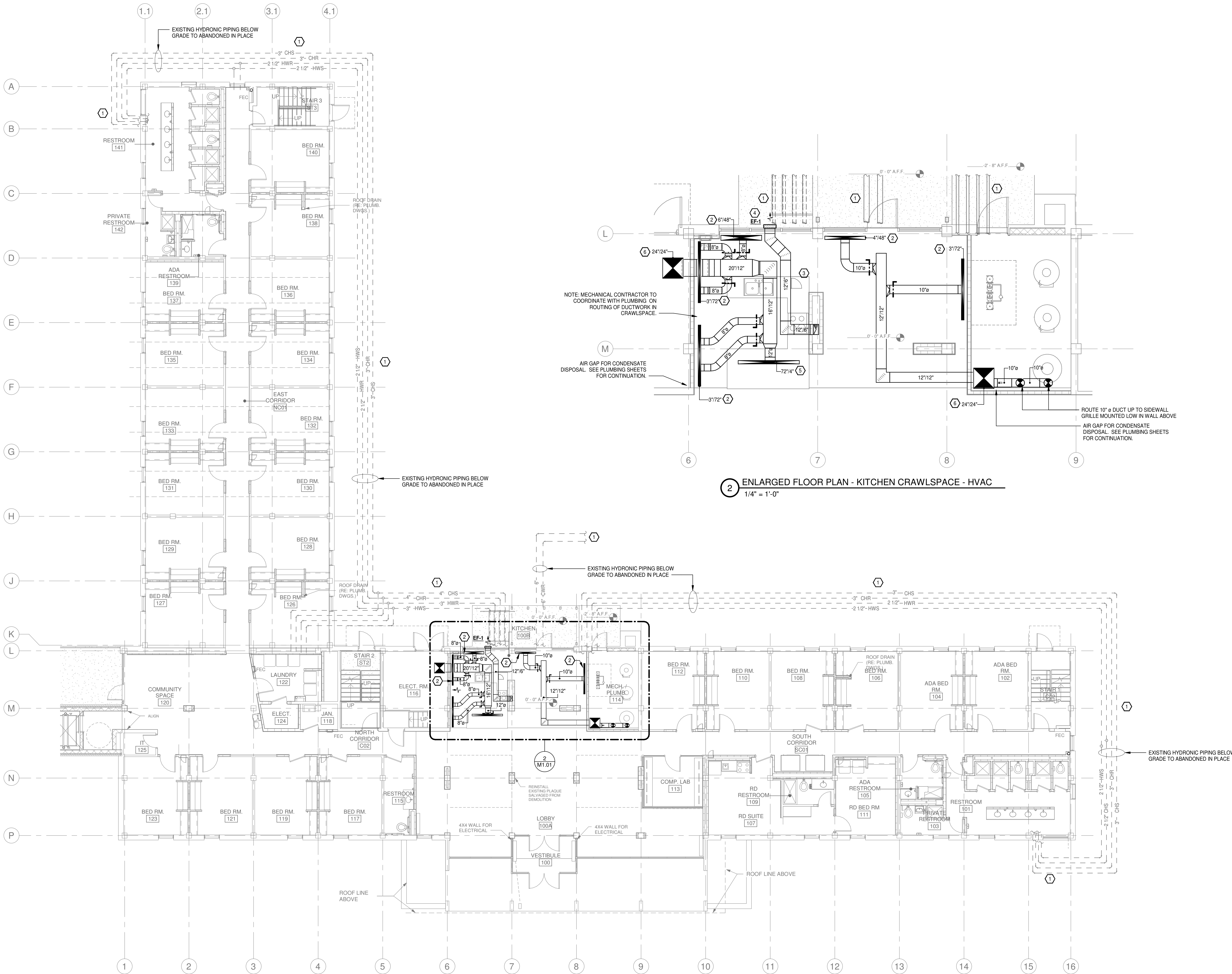
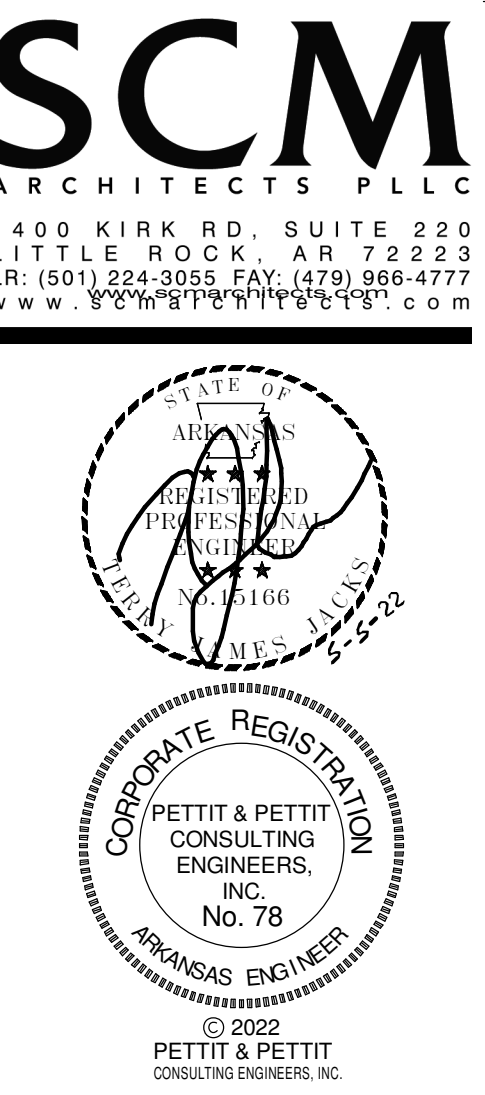
M0.04

HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

HVAC KEYED NOTES - M1.01

1. EXISTING BELOW GRADE HYDRONIC PIPING TO BE ABANDONED IN PLACE.
2. ROUTE DUCT UP TO FLOOR GRILLE ABOVE.
3. EXISTING BELOW GRADE HYDRONIC PIPING TO BE ABANDONED IN PLACE.
4. INSTALL KITCHEN HOOD EXHAUST FAN LOW ON OUTSIDE WALL CENTERED IN STOREFRONT. MECHANICAL CONTRACTOR TO CORE DRILL EXTERIOR WALL TO ALLOW CLEARANCE OF NEW GREASE DUCT AND SEAL ALL VOIDS.
5. ROUTE DUCT UP TO GRILLE MOUNTED IN MILLWORK ABOVE.
6. PROVIDE STRUCTURAL SUPPLY PLENUM CURB FOR THE MOUNTING AND SUPPORT OF (FC 8-1-2 & FC 9-1-1)



1 UNDERFLOOR PLAN - HVAC
1/8" = 1'-0"

2 ENLARGED FLOOR PLAN - KITCHEN CRAWLSPACE - HVAC
1/4" = 1'-0"

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UNDERFLOOR PLAN
- HVAC

M1.01

HVAC GENERAL NOTES

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RANGE HOOD EXHAUST NOTES

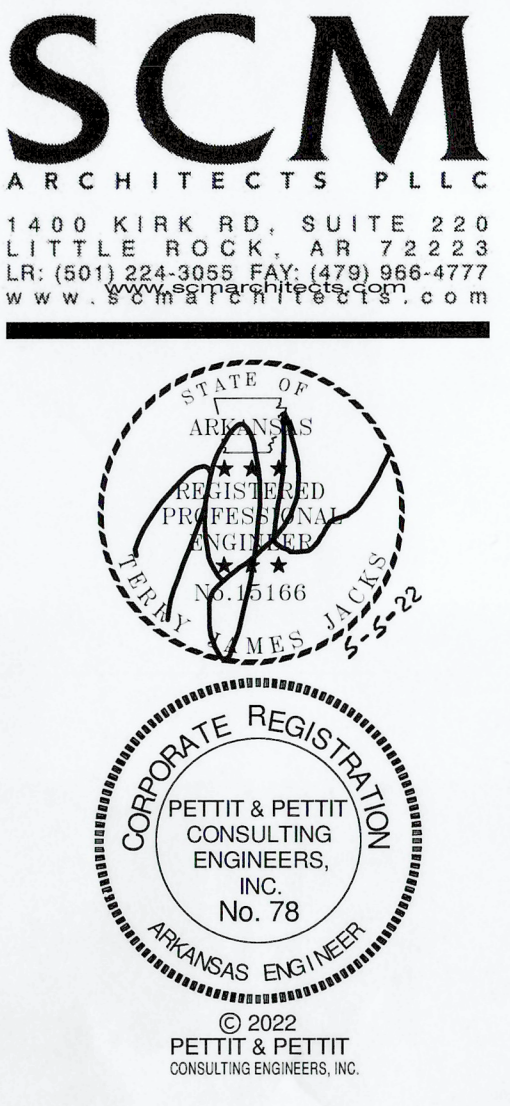
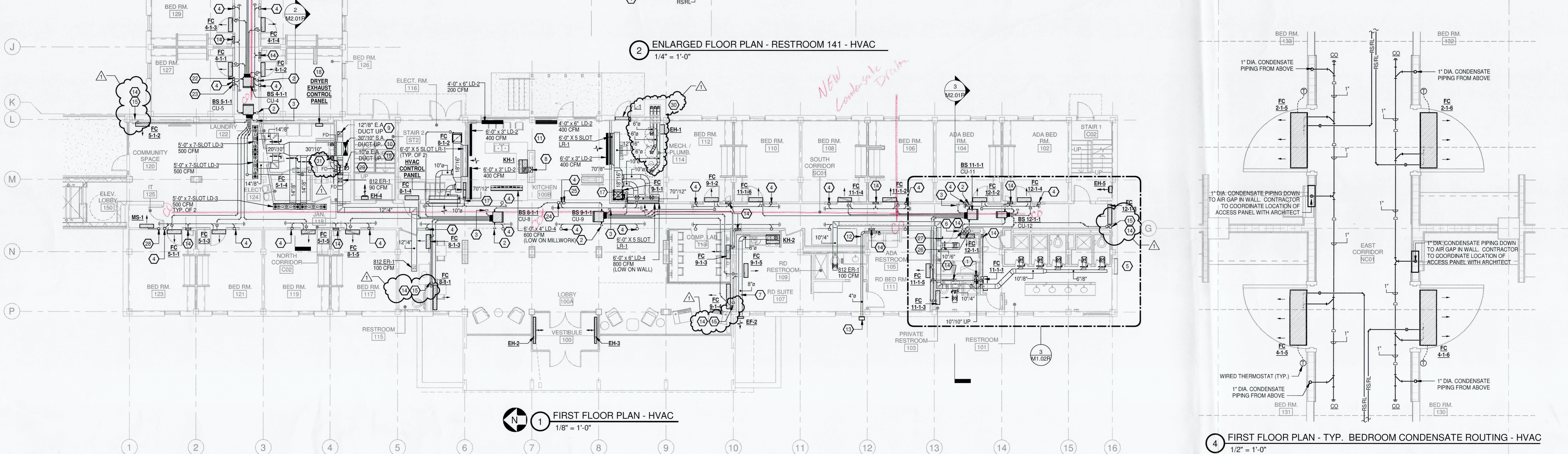
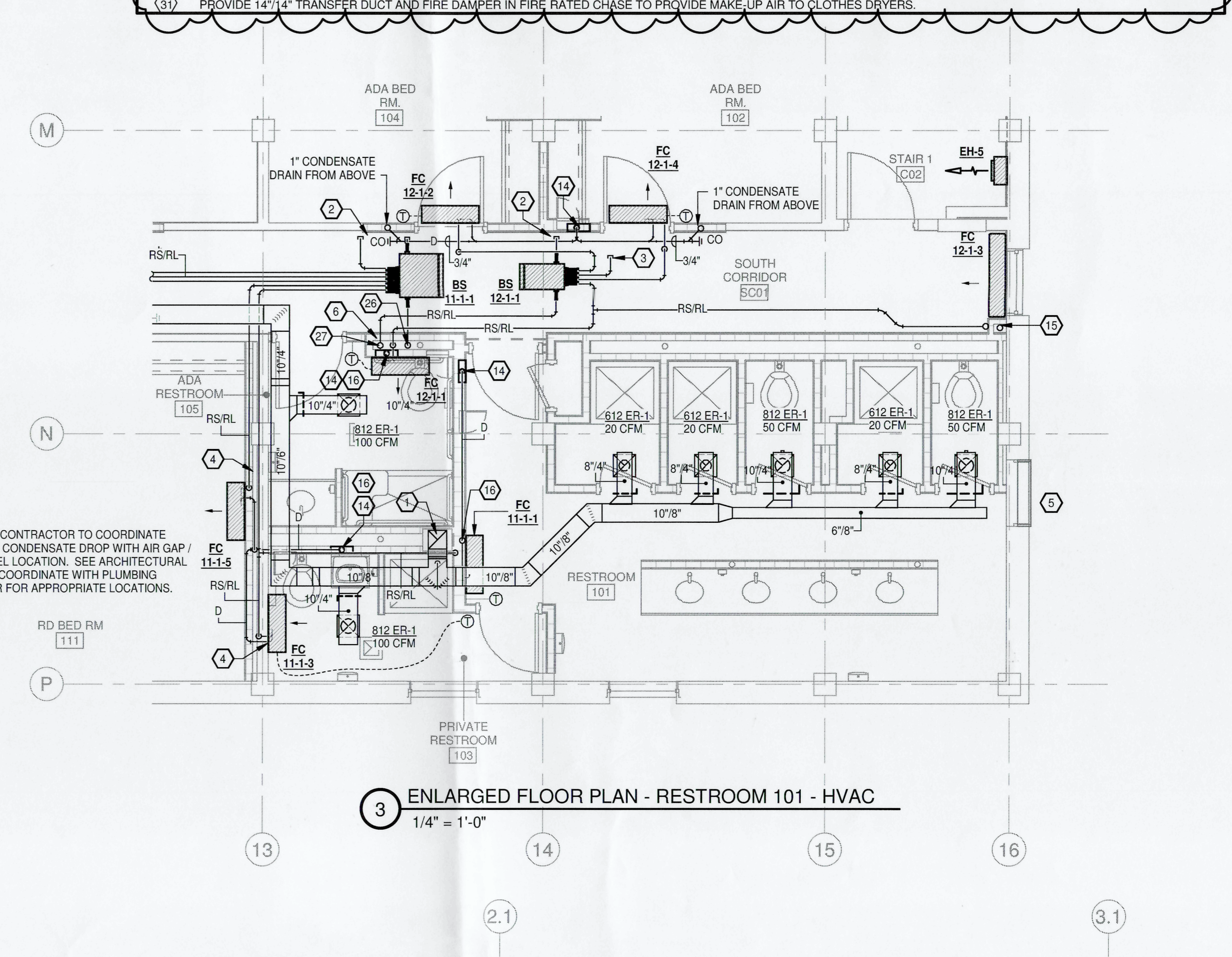
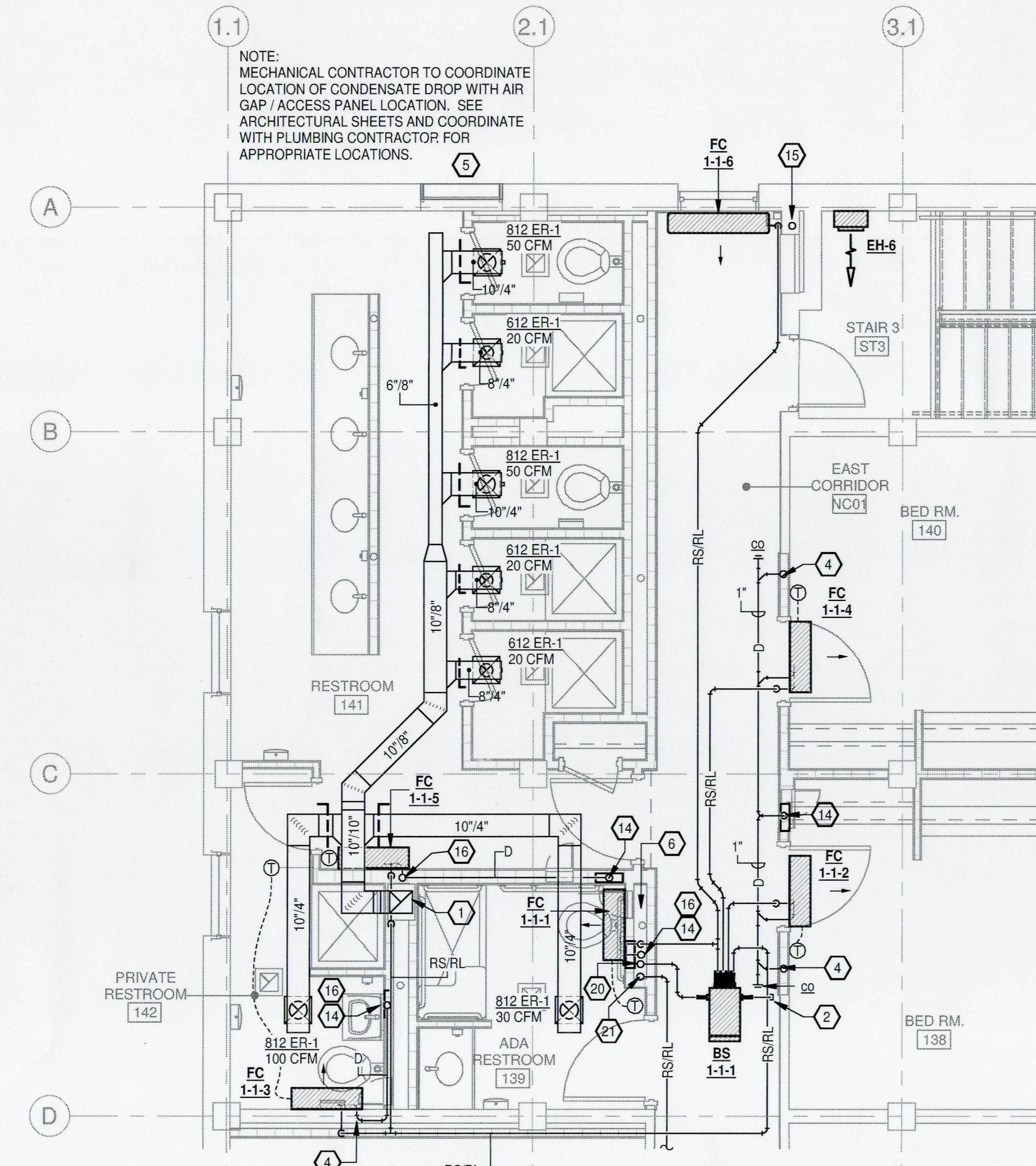
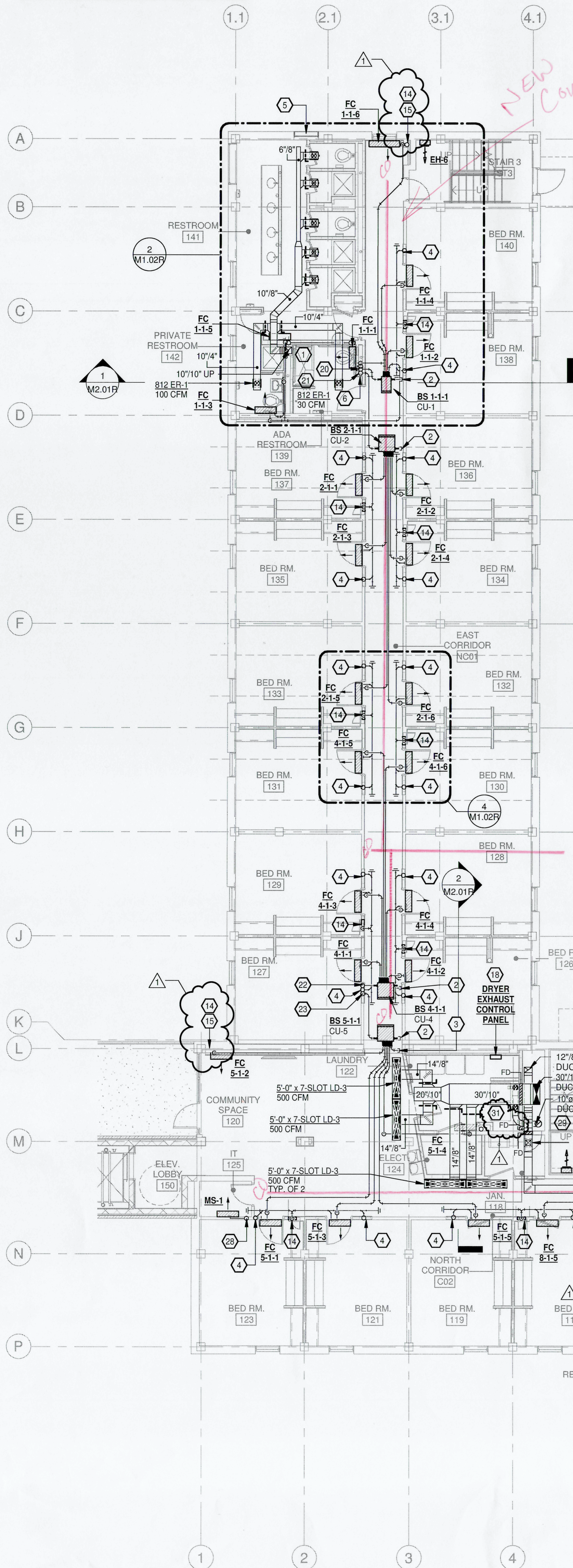
- ALL RANGE HOOD EXHAUST DUCTWORK CONSTRUCTED OF MINIMUM 0596" THICK, 16 GAUGE, WELDED BLACK STEEL. ALL SEAMS & JOINTS LIQUIDTIGHT WITH A CONTINUOUS EXTERNAL WELD. WRAP ALL HOOD EXHAUST DUCTWORK WITH (2) 1/2" THICK LAYERS OF "FyreWrap" DUCT INSULATION.
- ALL DUCTWORK AND ACCESSORIES SERVING THE RANGE HOOD EXHAUST HOOD SHALL COMPLY WITH NFPA 96, STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS.

HVAC KEYED NOTES - M1.02

- ROUTE NEW 10"Ø EXHAUST AIR DUCT UP TO 2ND FLOOR ABOVE. SAW CUT FLOOR AS REQUIRED TO PROVIDE PATHWAY OF NEW EXHAUST AIR DUCTWORK. CONTRACTOR TO CAREFULLY COORDINATE LOCATION OF PENETRATION WITH EXISTING STRUCTURE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT ALL FLOOR PENETRATIONS.
- CAP UN-USED OUTDOOR PIPING PORT.
- CAP UN-USED INDOOR BRANCH PIPING PORT.
- ROUTE FULL SIZE CONDENSATE DRAIN DOWN IN NEW WALL. PROVIDE CLEANOUT FOR MAINTENANCE IN CORRIDOR.
- EXISTING LOUVER TO REMAIN. MECHANICAL CONTRACTOR TO COORDINATE DETAILS OF INFILL WITH ARCHITECT.
- PIPE SPACING SHOWN FOR CLARITY. ROUTE ALL REFRIGERANT PIPING IN PROVIDED CHASE. MECHANICAL CONTRACTOR TO CAREFULLY COORDINATE ROUTING OF PIPING IN CHASE WITH PLUMBING CONTRACTOR.
- ROUTE GREASE DUCT FROM KITCHEN HOOD (KH-2) TO EXHAUST FAN (EF-2). MOUNTED ON THE OUTSIDE WALL. IN CHASE PROVIDED BY ARCHITECT. CORE DRILL WALLS AS REQUIRED. SEAL ALL VOIDS AROUND SIDEWALL OUTLET. PROVIDE ACCESS DOORS IN DUCTWORK AS SHOWN ON PLANS FOR MAINTENANCE.
- ROUTE 12"Ø GREASE DUCT FROM KITCHEN HOOD (KH-1) TO EXHAUST FAN (EF-1). MOUNTED ON OUTSIDE WALL. IN CHASE PROVIDED BY ARCHITECT. CORE DRILL WALLS AS REQUIRED. SEAL ALL VOIDS AROUND SIDEWALL OUTLET. PROVIDE ACCESS DOORS AS SHOWN ON PLANS FOR MAINTENANCE.
- ROUTE NEW 12"Ø EXHAUST AIR DUCT UP TO 2ND FLOOR ABOVE IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.
- ROUTE NEW 30"Ø SUPPLY AIR DUCT UP TO 2ND FLOOR ABOVE IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.
- SEE UNDERFLOOR PLAN FOR ALL DUCTWORK LOCATED BENEATH CRAWLSPACE IN THIS AREA.
- ROUTE 4" DRYER DUCT FROM DRYER TO OUTSIDE WALL IN FURR OUT PROVIDED BY ARCHITECT. CORE DRILL WALL AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE FOR BOTH EXHAUST DUCT AND AIR DEVICE. SEAL ALL VOIDS AS REQUIRED.
- PROVIDE 4" MANUFACTURER'S APPROVED DRYER OUTLET WITH BACKDRAFT DAMPER.
- ROUTE 1" DIA. CONDENSATE PIPING DOWN TO AIR GAP BELOW. MECHANICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF ACCESS PANEL WITH ARCHITECT.

HVAC KEYED NOTES - M1.02

- ROUTE FULL SIZE CONDENSATE FROM FLOOR UNIT IN CORRIDOR TO 1" DIA. CONDENSATE MAIN. ROUTE CONDENSATE TO OUTSIDE AND TERMINATE AT FRENCH DRAIN.
- ROUTE 1" DIA. CONDENSATE PIPING UP IN ALLOWABLE PENETRATION ZONE TO SERVE UNITS ABOVE.
- ROUTE 1" DIA. CONDENSATE PIPING EXPOSED IN MECHANICAL / ELECTRICAL ROOM TO AIR GAP BELOW.
- INSTALL NEW DRYER EXHAUST SYSTEM CONTROL PANEL IN FIRST FLOOR LAUNDRY ROOM (122) AS SHOWN. MECHANICAL CONTRACTOR TO INCLUDE ROUTING OF CONTROL WIRING IN CONDUIT UP TO EXHAUST FAN (EF-3) ON ROOF IN SCOPE.
- PROVIDE CLEANOUT AT BASE OF DRYER EXHAUST COLLECTOR DUCT FOR MAINTENANCE. COORDINATE WITH ARCHITECT FOR LOCATION OF FIRE RATED ACCESS DOOR IN JANITOR'S CLOSET (118).
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-1)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-2)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-4)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-5)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-8)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-9)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-11)
- REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-12)
- REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-1) ON FIRST FLOOR UP TO MINI SPLIT INDOOR UNIT (MSCU-1) ON ROOF.
- PROVIDE 24" x 24" FIRE RATED ACCESS DOOR IN JANITOR'S CLOSET FOR MAINTENANCE OF DRYER EXHAUST DUCT.
- EXISTING FLUE DUCT PENETRATION INTO CHIMNEY TO REMAIN. MECHANICAL CONTRACTOR TO ROUTE (3 EA) NEW 6" DIA. FLUES FROM WATER HEATER UP TO ROOF THROUGH EXISTING CLAY LINED BOILER FLUE.
- PROVIDE 14"Ø TRANSFER DUCT AND FIRE DAMPER IN FIRE RATED CHASE TO PROVIDE MAKE-UP AIR TO CLOTHES DRYERS.



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REVISIONS	
1	Addendum No. 2 06-02-22

PROJECT NO. 21054
DATE: May 5, 2022

REVISED FIRST FLOOR PLAN - HVAC
M1.02R
SCM ARCHITECTS PLLC

HVAC GENERAL NOTES

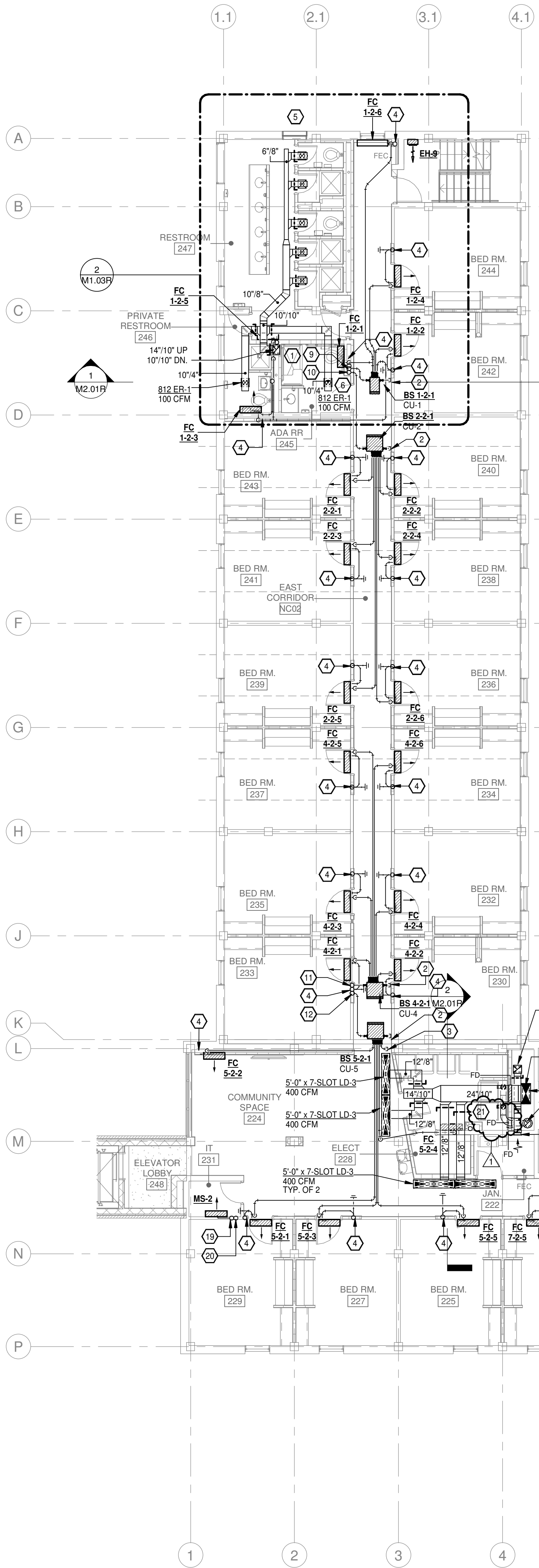
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2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

HVAC KEYED NOTES - M1.03

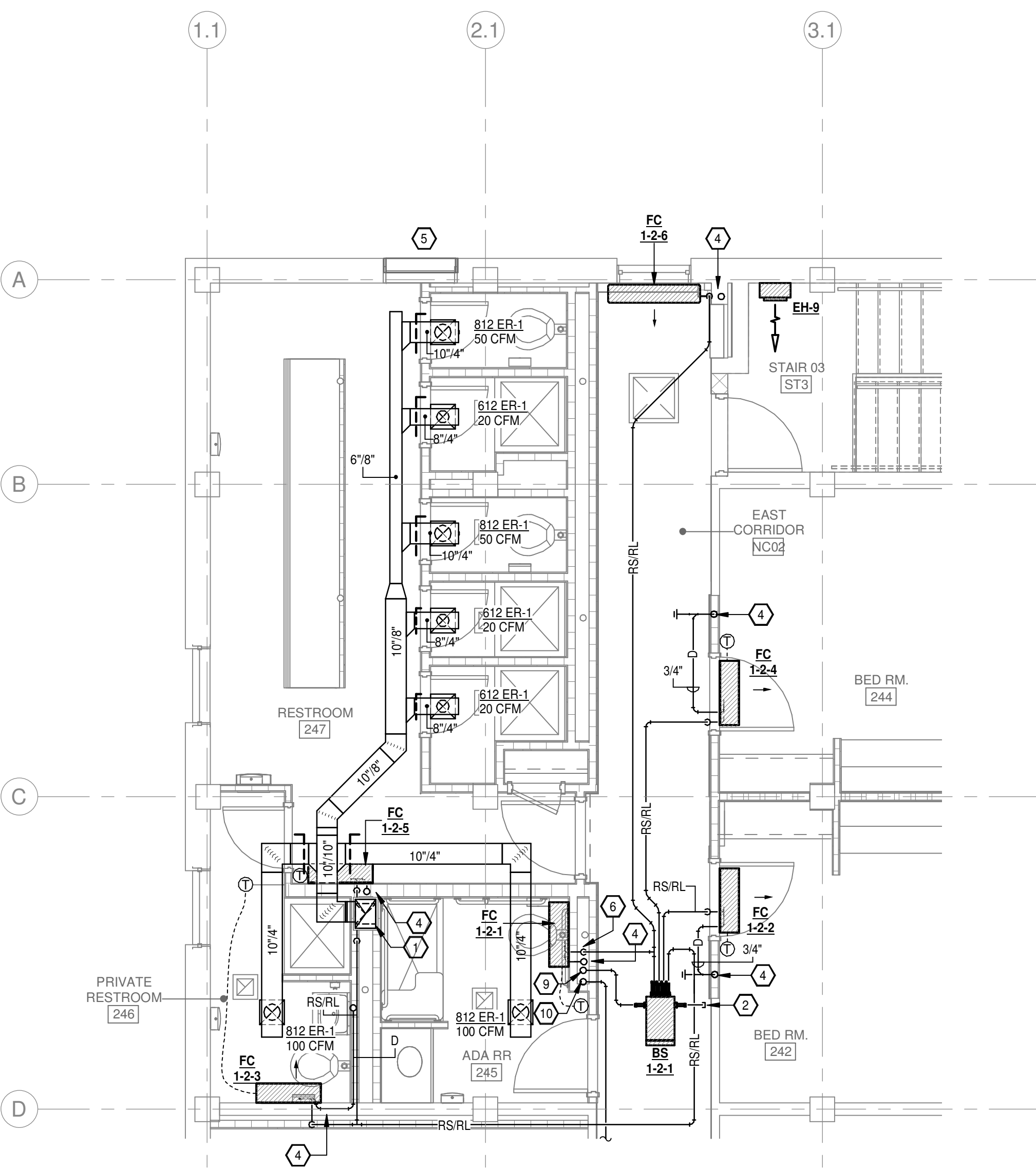
1. ROUTE NEW 10" EXHAUST AIR DUCT DOWN TO 1ST FLOOR BELOW. SAW CUT FLOOR AS REQUIRED TO PROVIDE PATHWAY OF NEW EXHAUST AIR DUCTWORK. CONTRACTOR TO CAREFULLY COORDINATE LOCATION OF PENETRATION WITH EXISTING STRUCTURE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
2. CAP UN-USED OUTDOOR PIPING PORT.
3. CAP UN-USED INDOOR BRANCH PIPING PORT.
4. ROUTE FULL SIZE CONDENSATE DRAIN DOWN IN NEW WALL. PROVIDE CLEANOUT FOR MAINTENANCE IN CORRIDOR.
5. EXISTING LOUVER TO REMAIN. MECHANICAL CONTRACTOR TO COORDINATE DETAILS OF INFILL WITH ARCHITECT.
6. PIPE SPACING SHOWN FOR CLARITY. ROUTE ALL REFRIGERANT PIPING IN PROVIDED CHASE. MECHANICAL CONTRACTOR TO CAREFULLY COORDINATE ROUTING OF PIPING IN CHASE WITH PLUMBING CONTRACTOR.
7. ROUTE NEW 12" EXHAUST AIR DUCT DOWN TO 1ST FLOOR AND 12" TO THIRD FLOOR ABOVE IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.
8. ROUTE NEW 30" SUPPLY AIR DUCT DOWN TO FIRST FLOOR AND 30" UP TO THIRD FLOOR IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.

HVAC KEYED NOTES - M1.03

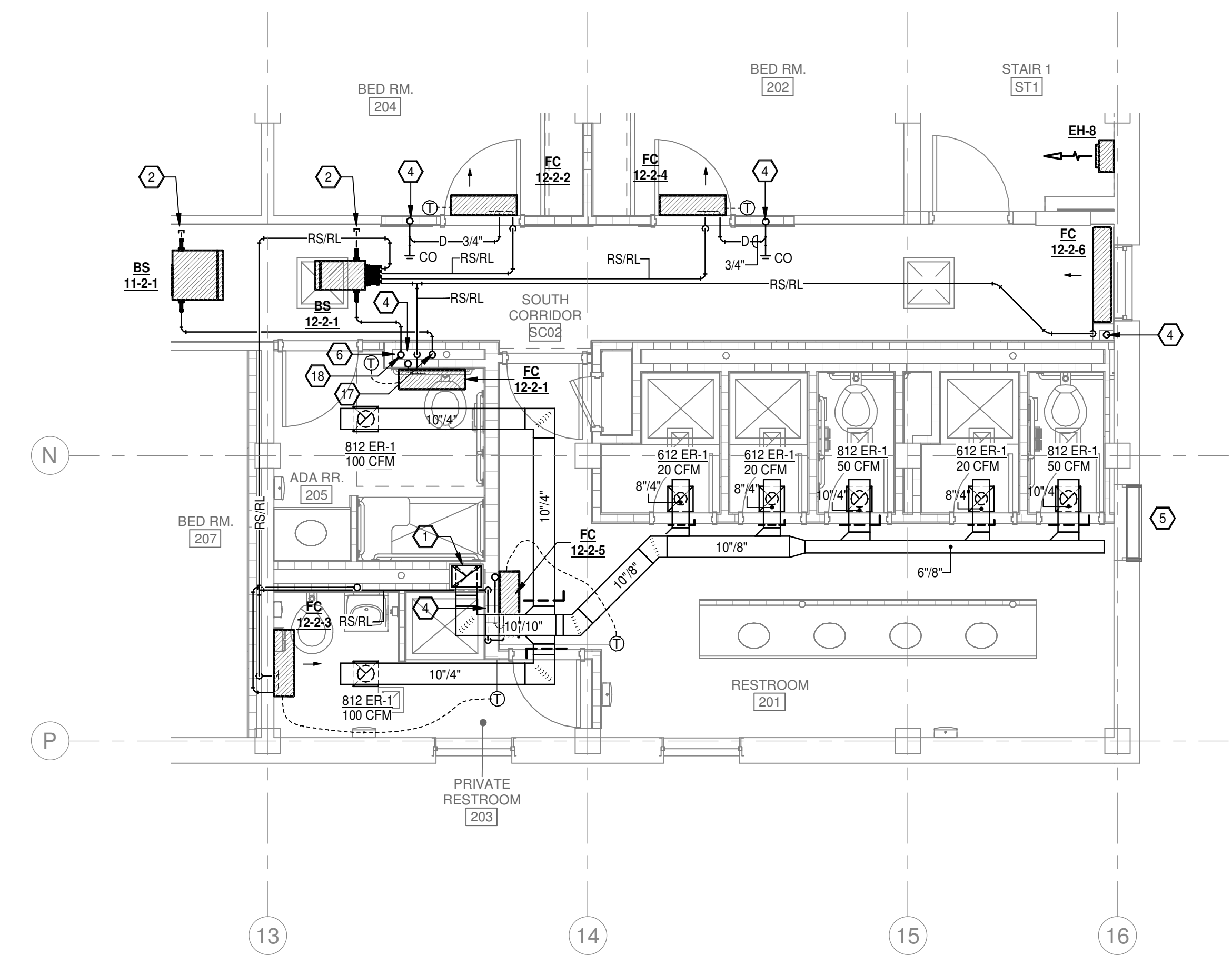
9. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-1)
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11. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-4)
12. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-5)
13. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-7)
14. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-10)
15. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-8)
16. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-9)
17. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-11)
18. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-12)
19. REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-2) ON SECOND FLOOR UP TO MINI SPLIT CONDENSING UNIT (MSCU-1) ON ROOF.
20. REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-1) ON FIRST FLOOR UP TO MINI SPLIT CONDENSING UNIT (MSCU-1) ON ROOF.
21. PROVIDE 14" X 14" TRANSFER DUCT AND FIRE DAMPER IN FIRE RATED CHASE TO PROVIDE MAKE-UP AIR TO CLOTHES DRYERS.
22. (3) - 6" DIA. WATER HEATER FLUE UP IN EXISTING CLAY LINED BOILER FLUE.



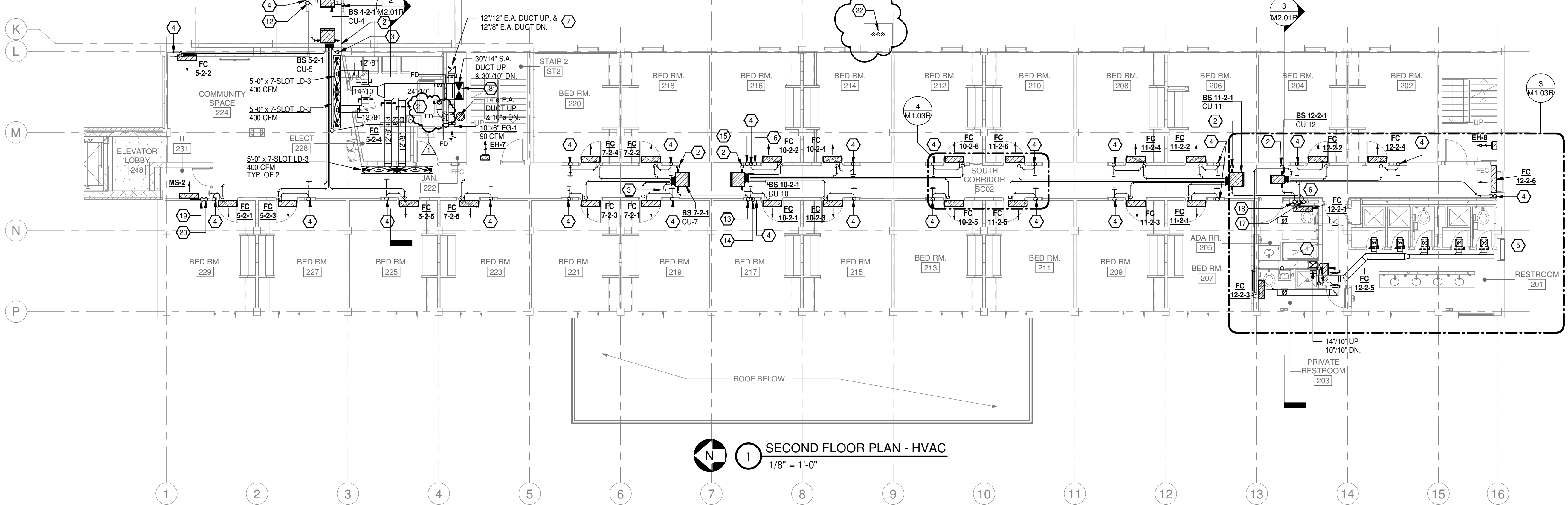
2 ENLARGED FLOOR PLAN - RESTROOM 247 - HVAC
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN - RESTROOM 201 - HVAC
1/4" = 1'-0"



4 SECOND FLOOR PLAN - TYP. BEDROOM CONDENSATE ROUTING - HVAC
1/2" = 1'-0"



1 SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"

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REVISIONS
1 Addendum No. 2 06-02-22

PROJECT NO.
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REVISED SECOND
FLOOR PLAN -
HVAC

M1.03R

SCM ARCHITECTS PLLC

HVAC GENERAL NOTES

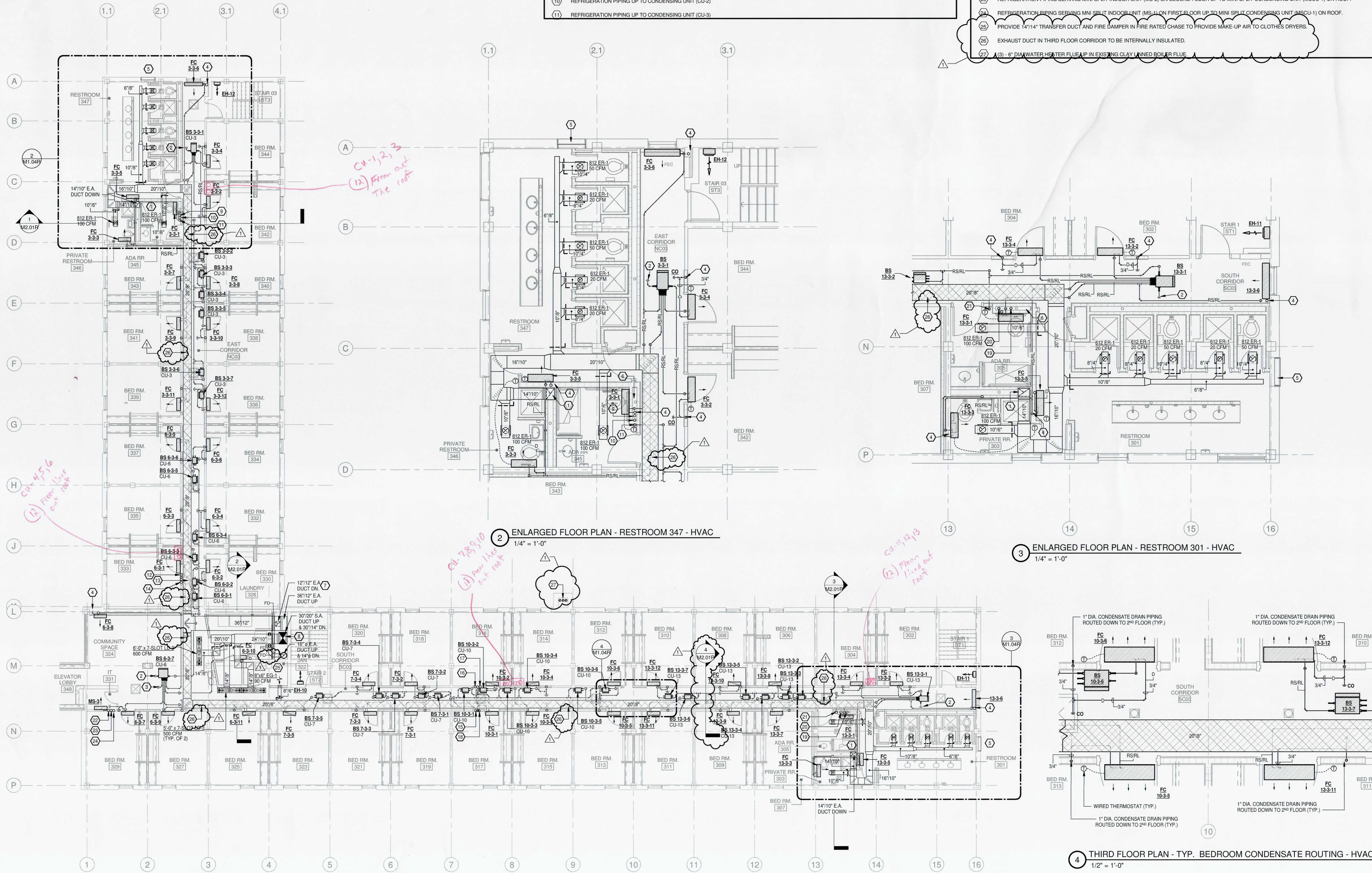
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HVAC KEYED NOTES - M1.04

1. ROUTE NEW 14"110" EXHAUST AIR DUCT DOWN TO 2ND FLOOR BELOW. SAW CUT FLOOR AS REQUIRED TO PROVIDE PATHWAY OF NEW EXHAUST AIR DUCTWORK. CONTRACTOR TO CAREFULLY COORDINATE LOCATION OF PENETRATION WITH EXISTING STRUCTURE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
2. CAP UN-USED OUTDOOR PIPING PORT.
3. CAP UN-USED INDOOR BRANCH PIPING PORT.
4. ROUTE FULL SIZE CONDENSATE DRAIN DOWN IN NEW WALL. PROVIDE CLEANOUT FOR MAINTENANCE IN CORRIDOR.
5. EXISTING LOUVER TO REMAIN. MECHANICAL CONTRACTOR TO COORDINATE DETAILS OF INFILL WITH ARCHITECT.
6. PIPE SPACING SHOWN FOR CLARITY. ROUTE ALL REFRIGERANT PIPING IN PROVIDED CHASE. MECHANICAL CONTRACTOR TO CAREFULLY COORDINATE ROUTING OF PIPING IN CHASE WITH PLUMBING CONTRACTOR.
7. ROUTE NEW 12"12" DOWN TO SECOND FLOOR AND 36"12" UP TO VENTILATION AIR UNIT (VAU-1) ON ROOF. ROUTE ALL DUCT WORK IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.
8. ROUTE NEW 30"14" SUPPLY AIR DUCT DOWN SECOND FLOOR AND 30"20" UP TO VENTILATION AIR UNIT (VAU-1) ON ROOF. ROUTE ALL DUCTWORK IN EXISTING CHASE. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL AT EACH CHASE PENETRATION.
9. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-1)
10. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-2)
11. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-3)

HVAC KEYED NOTES - M1.04

12. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-4)
13. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-5)
14. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-6)
15. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-7)
16. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-8)
17. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-9)
18. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-10)
19. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-11)
20. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-12)
21. REFRIGERATION PIPING UP TO CONDENSING UNIT (CU-13)
22. REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-3) ON THIRD FLOOR UP TO MINI SPLIT CONDENSING UNIT (MSCU-1) ON ROOF.
23. REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-2) ON SECOND FLOOR UP TO MINI SPLIT CONDENSING UNIT (MSCU-1) ON ROOF.
24. REFRIGERATION PIPING SERVING MINI SPLIT INDOOR UNIT (MS-1) ON FIRST FLOOR UP TO MINI SPLIT CONDENSING UNIT (MSCU-1) ON ROOF.
25. PROVIDE 14"14" TRANSFER DUCT AND FIRE DAMPER IN FIRE RATED CHASE TO PROVIDE MAKE-UP AIR TO CLOTHES DRYERS.
26. EXHAUST DUCT IN THIRD FLOOR CORRIDOR TO BE INTERNALLY INSULATED.
27. 3" - 6" DIA WATER HEATER FLUE UP IN EXISTING CLAY UNINED BOILER FLUE.



2 ENLARGED FLOOR PLAN - RESTROOM 347 - HVAC
1/4" = 1'-0"

3 ENLARGED FLOOR PLAN - RESTROOM 301 - HVAC
1/4" = 1'-0"

1 THIRD FLOOR PLAN - HVAC
1/8" = 1'-0"

4 THIRD FLOOR PLAN - TYP. BEDROOM CONDENSATE ROUTING - HVAC
1/2" = 1'-0"

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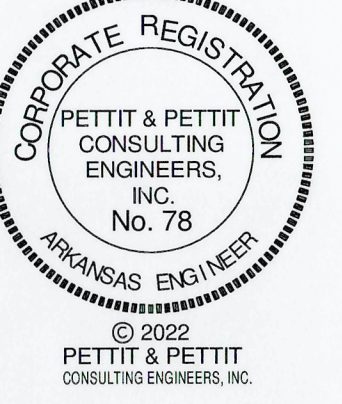
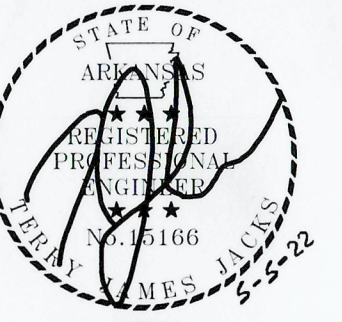
REVISIONS	DATE
1 Addendum No. 2	06-02-22

PROJECT NO. 21054
DATE: May 5, 2022

REVISED THIRD FLOOR PLAN - HVAC
M1.04R
SCM ARCHITECTS PLLC

HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

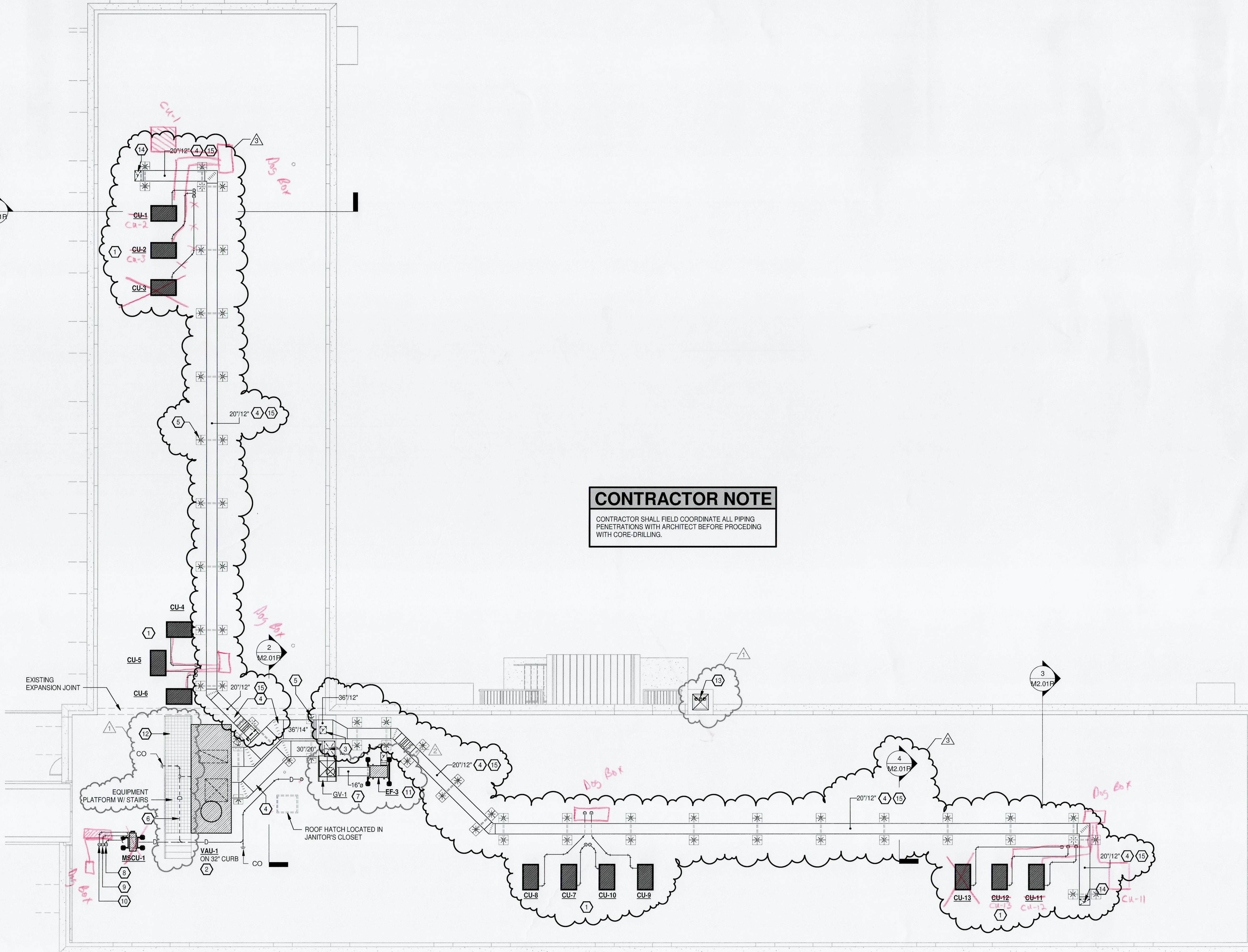


HVAC KEYED NOTES - M1.05

1. PROVIDE ROOF SUPPORT SYSTEM FOR VRV OUTSIDE UNITS. SEE ARCHITECTURAL SHEETS FOR DETAILS OF EQUIPMENT RAILS.
2. INSTALL NEW VENTILATION AIR UNIT (VAU-1) ON 32" STRUCTURAL FLENUM CURB. CONTRACTOR TO COORDINATE UNIT PLACEMENT TO MAINTAIN ALL SERVICE AND EDGE CLEARANCES. SEE PLUMBING SHEETS FOR EXACT FOOTING NATURAL GAS PIPING.
3. ROUTE NEW 14" / 12" EXHAUST AIR & 30" / 20" SUPPLY AIR DUCT DOWN THROUGH EXISTING ROOF PENETRATIONS.
4. EXPOSED DUCT ON ROOF SHALL BE INSULATED WITH RIGID FIBERGLASS FINISHED WITH ALUMAGUARD WEATHERPROOF JACKET FOR PROTECTION OF THE OUTDOOR ENVIRONMENT. SLOPE TOP OF DUCT AT ALL HORIZONTAL RUNS TO PREVENT WATER FROM PONDING. SEE ARCHITECT FOR COLOR OF OUTER JACKET.
5. PROVIDE DUCT SUPPORTS ON ROOF. MECHANICAL CONTRACTOR TO INSTALL SUPPORTS TO ADHERE TO ALL SMACNA AND MANUFACTURER'S SPECIFICATIONS.
6. ROUTE FULL SIZE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. PROVIDE CLEANOUTS FOR MAINTENANCE AS SHOWN ON DRAWINGS.
7. INSTALL NEW GRAVITY VENTILATOR (GV-1) AT TOP OF SHAFT FOR DRYER MAKE-UP AIR. ROUTE 30" / 30" MAKE-UP AIR DUCT DOWN TO JUST BELOW ROOF DUCT. MECHANICAL CONTRACTOR TO FIELD COORDINATE LOCATION OF THE NEW MAKE-UP AIR DUCT WITH NEW FRAMING FOR FIRE RATED CHASE. MECHANICAL CONTRACTOR TO ALSO MAINTAIN AN EXHAUST FAN SERVICE CLEARANCE OF 10FT TO EDGE OF ROOF. SEE ARCHITECTURAL SHEETS FOR DETAILS OF DUCT PENETRATION.
8. REFRIGERATION PIPING DOWN TO SERVE MINI SPLIT INDOOR UNIT (MS-1) ON FIRST FLOOR.
9. REFRIGERATION PIPING DOWN TO SERVE MINI SPLIT INDOOR UNIT (MS-2) ON SECOND FLOOR.
10. REFRIGERATION PIPING DOWN TO SERVE MINI SPLIT INDOOR UNIT (MS-3) ON THIRD FLOOR.
11. INSTALL NEW DRYER EXHAUST FAN (EF-3) ON ROOF. ROUTE 16" DIA. DRYER EXHAUST COLLECTOR DUCT DOWN THROUGH SAME OPENING FOR DRYER MAKE-UP AIR SHAFT. PROVIDE MANUFACTURE APPROVED ROOF STAND AND EXHAUST AIR AT TERMINATION. MECHANICAL CONTRACTOR TO INCLUDE ROUTING OF FAN CONTROL WIRING IN CONDUIT DOWN TO DRYER EXHAUST CONTROL PANEL IN FIRST FLOOR LAUNDRY ROOM.
12. PREFABRICATED SERVICE PLATFORM WITH RAILINGS AND STAIRS. CONTRACTOR TO COORDINATE W/ BOTH EQUIPMENT AND PLATFORM MANUFACTURER SO THAT THE FINISH PRODUCT COMPLIES WITH ALL MANUFACTURER'S CLEARANCES, DOOR SWINGS, AND SAFETY REGULATIONS GOVERNING INSTALLATION. CONTRACTOR TO ONLY USE PREFABRICATED PRODUCTS THAT MEET OSHA 1910 SUBPART D FOR WALKING / WORKING SURFACES. SERVICE PLATFORM FOOTINGS ARE NOT TO PENETRATE ANIOR BE ATTACHED TO ROOF SURFACE. CONTRACTOR TO MECHANICALLY ATTACH SERVICE PLATFORM TO EXISTING EQUIPMENT SUPPORT FRAME TO SECURE PLATFORM. DO NOT ATTACH PLATFORM TO HVAC UNIT.
13. 8" DIA. WATER HEATER FLUE UP IN EXISTING CLAY LINED BOILER FLUE. CONTRACTOR TO PROVIDE WATER HEATER TERMINATION OF EXHAUST THROUGH FLUE.
14. 20" / 12" EXHAUST DUCT DOWN. CONTRACTOR TO COORDINATE ROOF PENETRATION WITH CHASE PROVIDED BELOW. SEE DETAIL 4, SHEET M3.01.
15. DUCT SHALL BE ROUTED SUCH THAT NO EQUIPMENT ACCESS IS BLOCKED AND MAINTENANCE PERSONEL WILL HAVE TO CROSS THE DUCTWORK.

CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE ALL PIPING PENETRATIONS WITH ARCHITECT BEFORE PROCEEDING WITH CORE-DRILLING.



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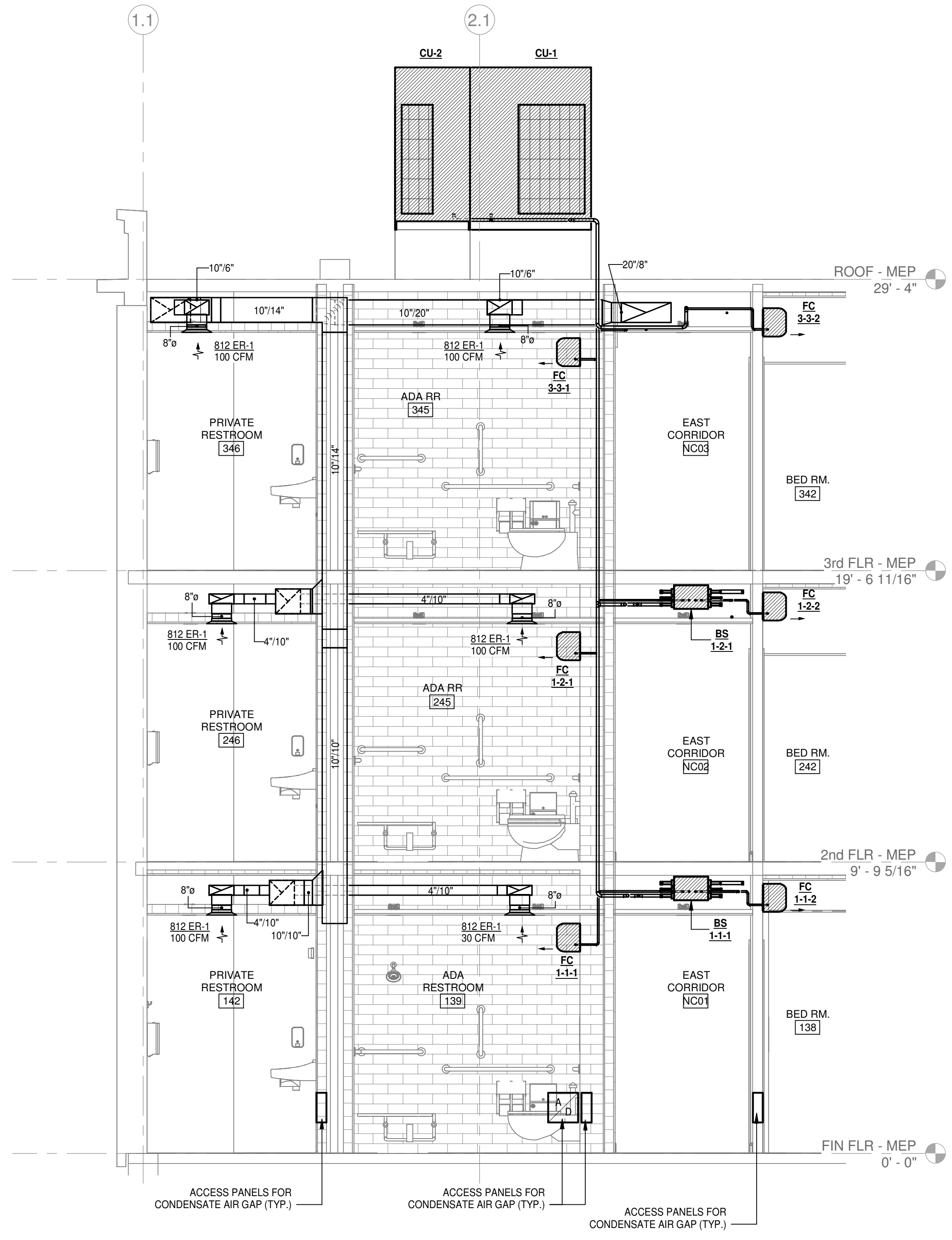
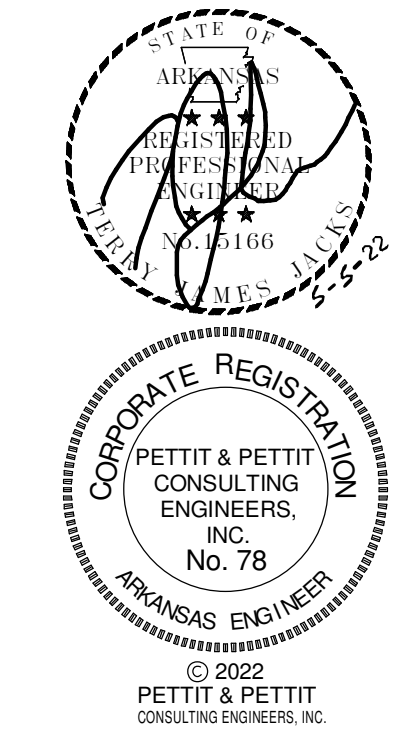
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1	Addendum No. 2	06-02-22
2	Addendum No. 3	06-03-22
3	RFP 04	11-17-22

PROJECT NO.
21054
DATE:
May 5, 2022

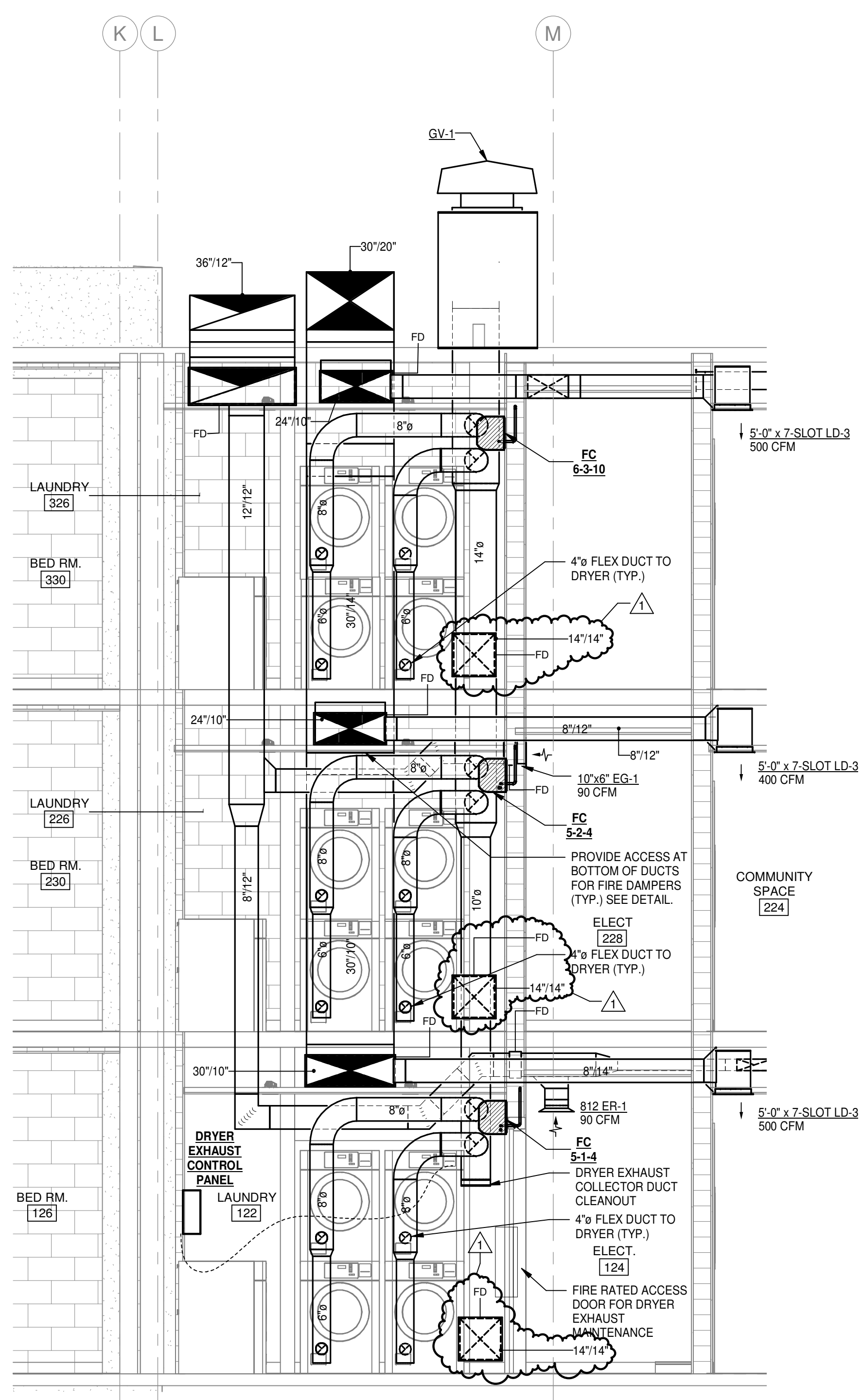
1 ROOF PLAN - HVAC
1/8" = 1'-0"

REVISED ROOF
PLAN - HVAC

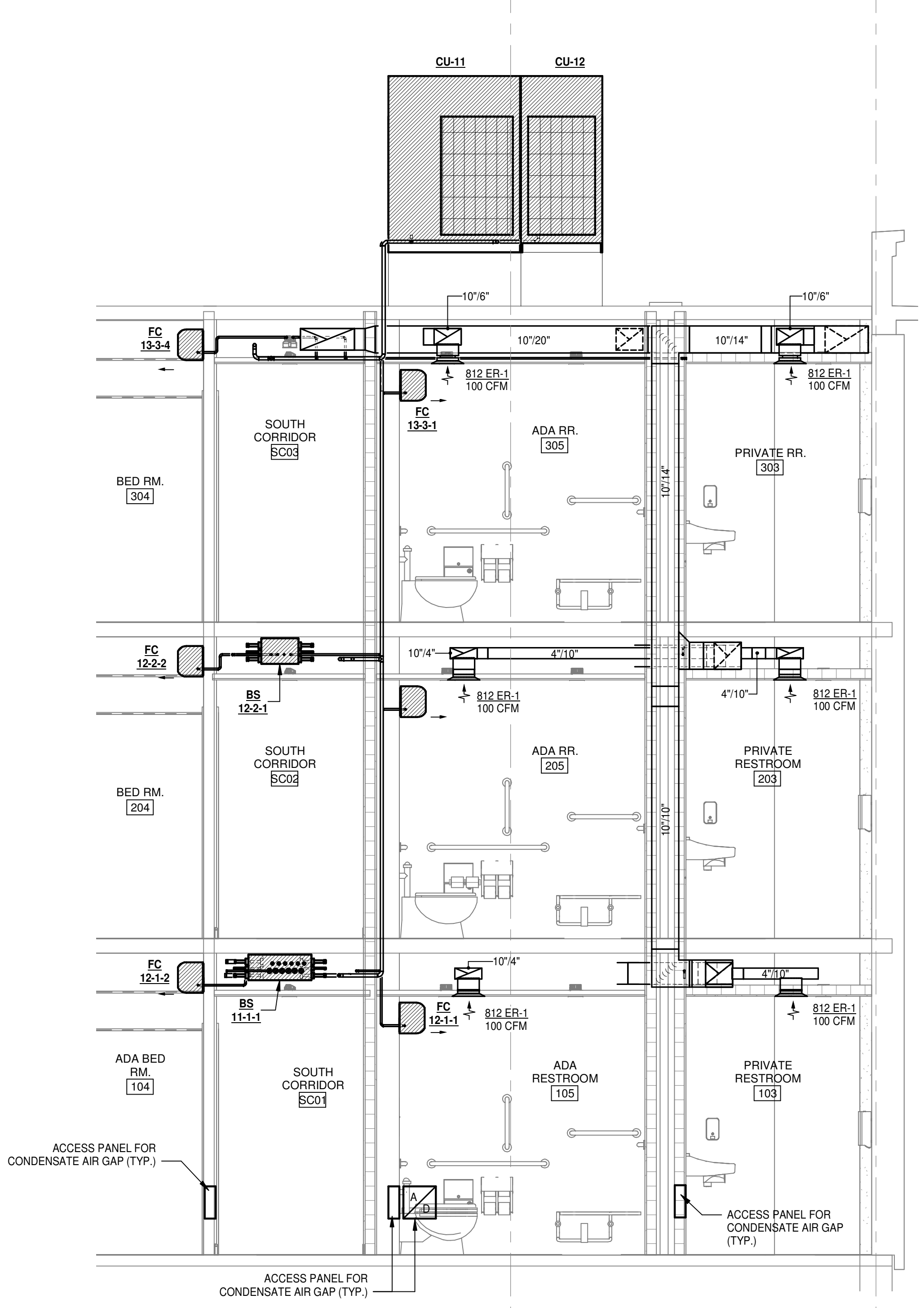
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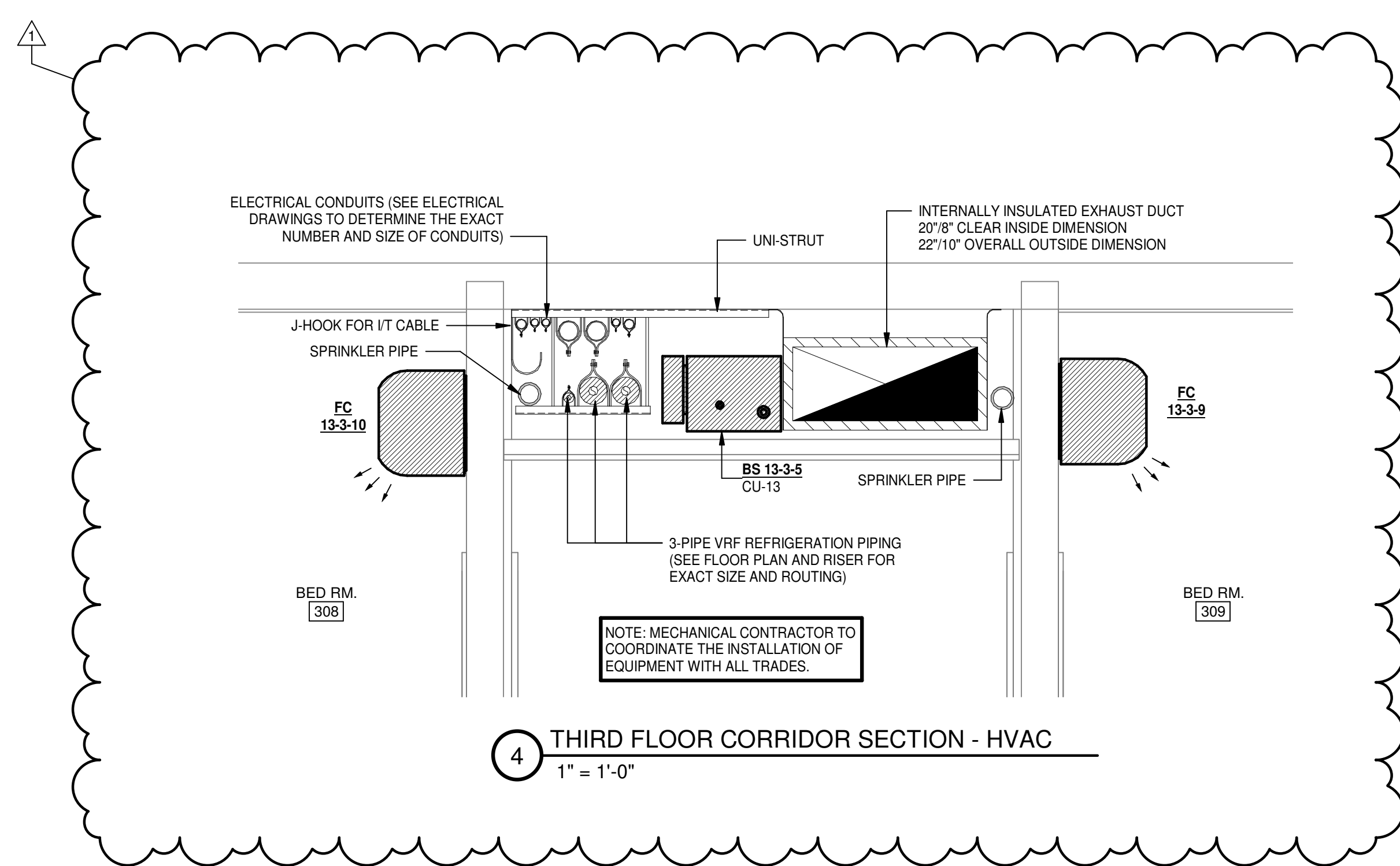
1 RESTROOM 142, 247, & 347 EXHAUST RISER - HVAC
3/8" = 1'-0"



2 LAUNDRY ROOM EXHAUST / VENTILATION AIR RISER - HVAC
3/8" = 1'-0"



3 RESTROOM 101, 201, & 301 EXHAUST RISER - HVAC
3/8" = 1'-0"



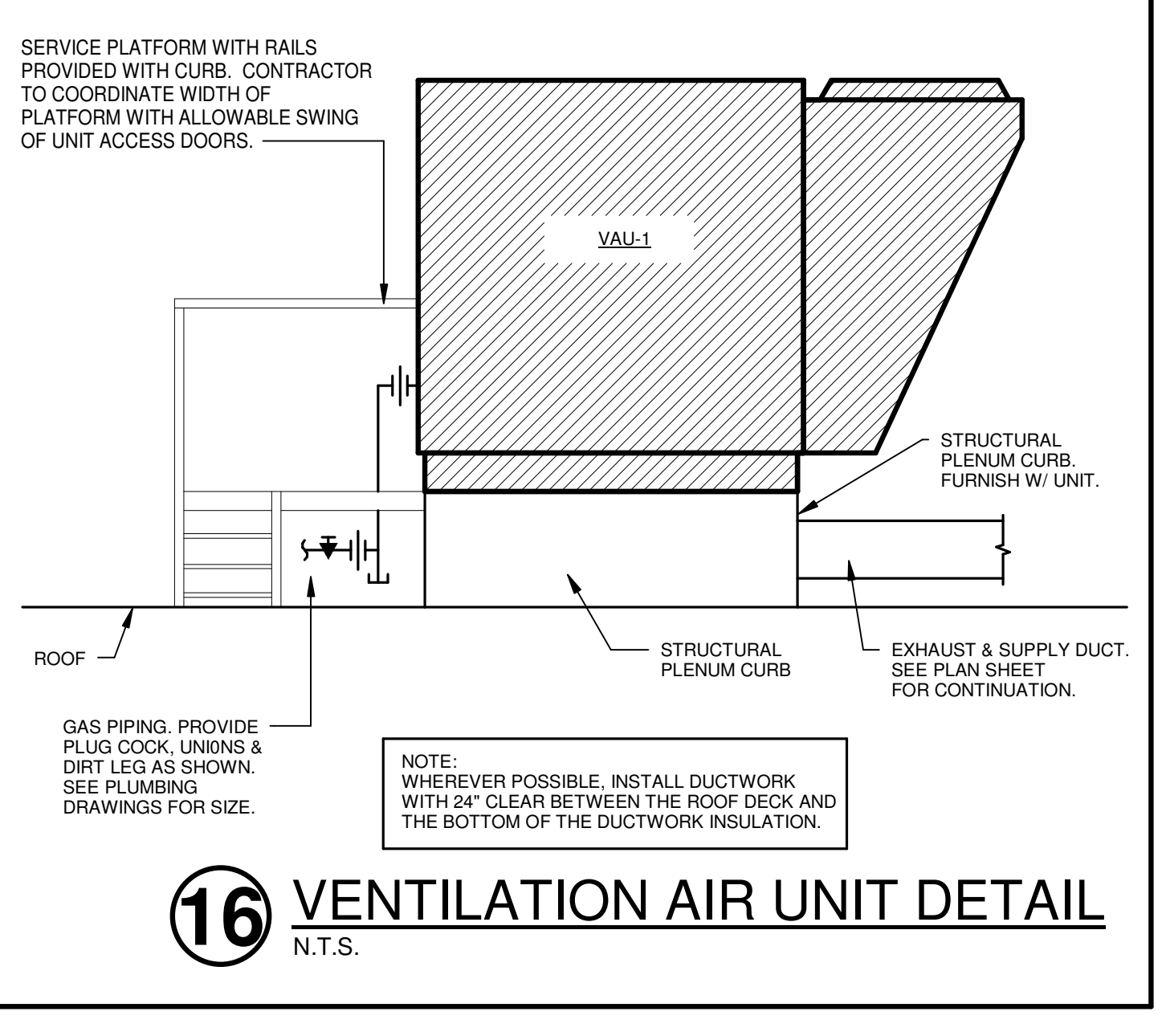
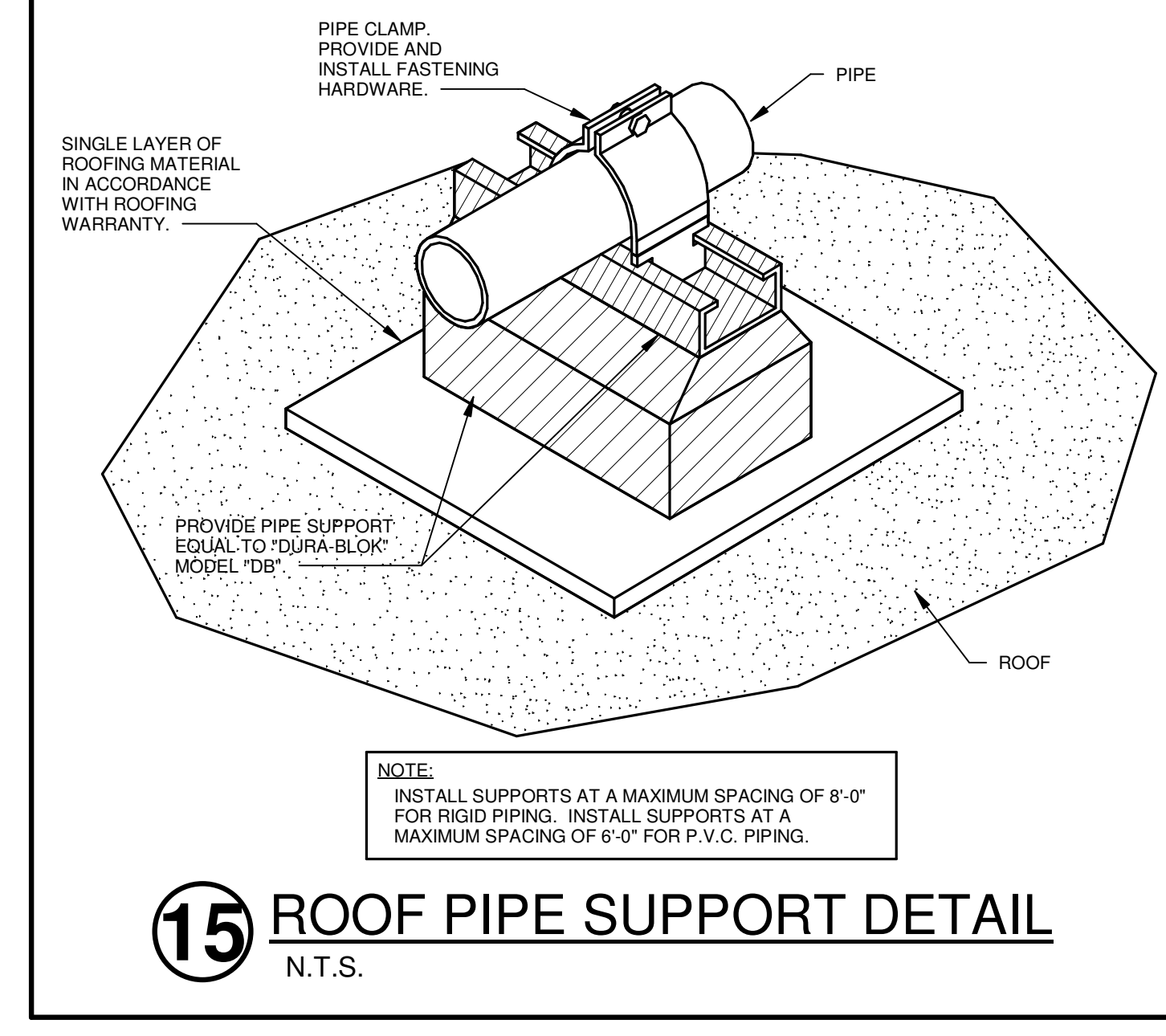
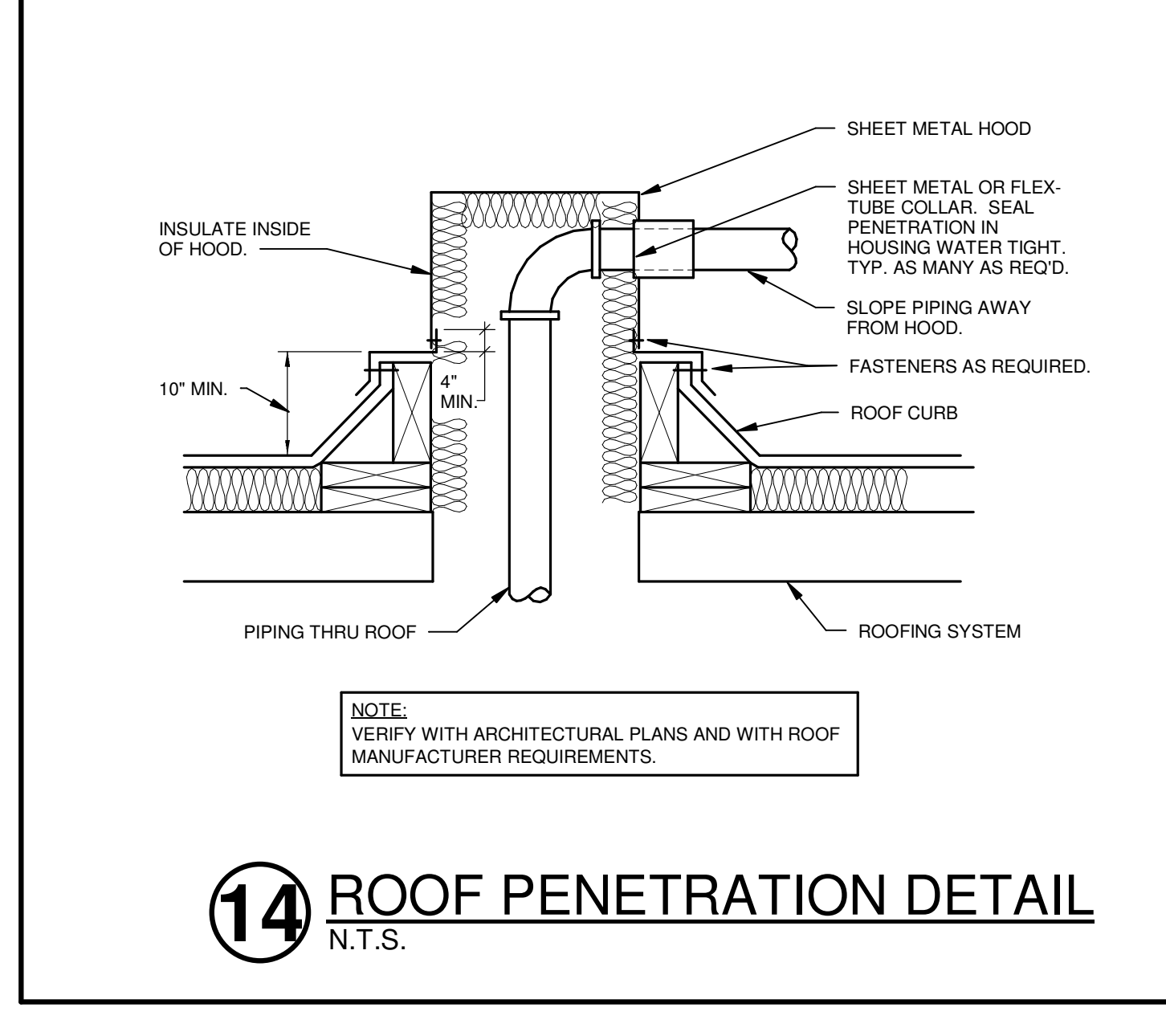
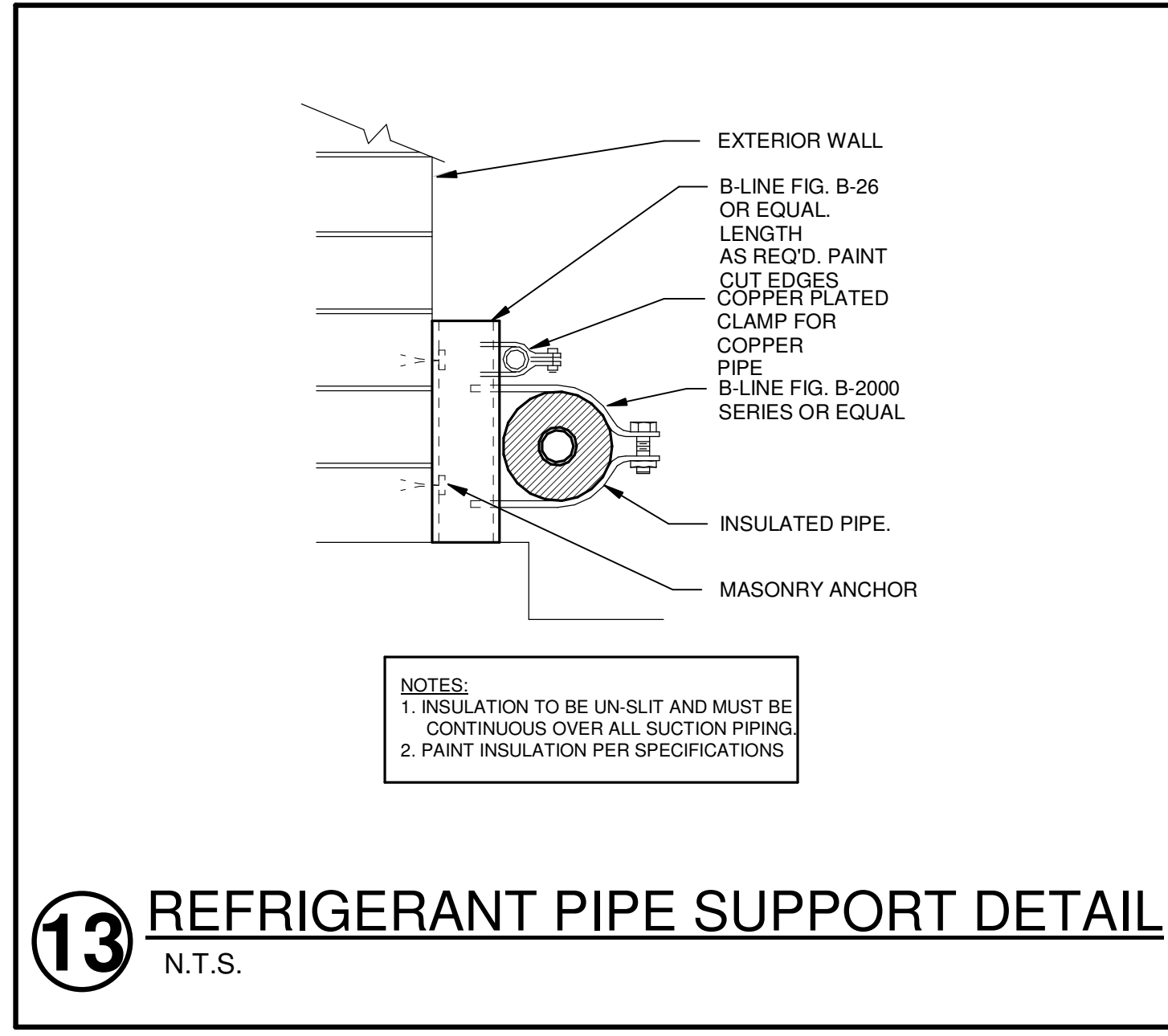
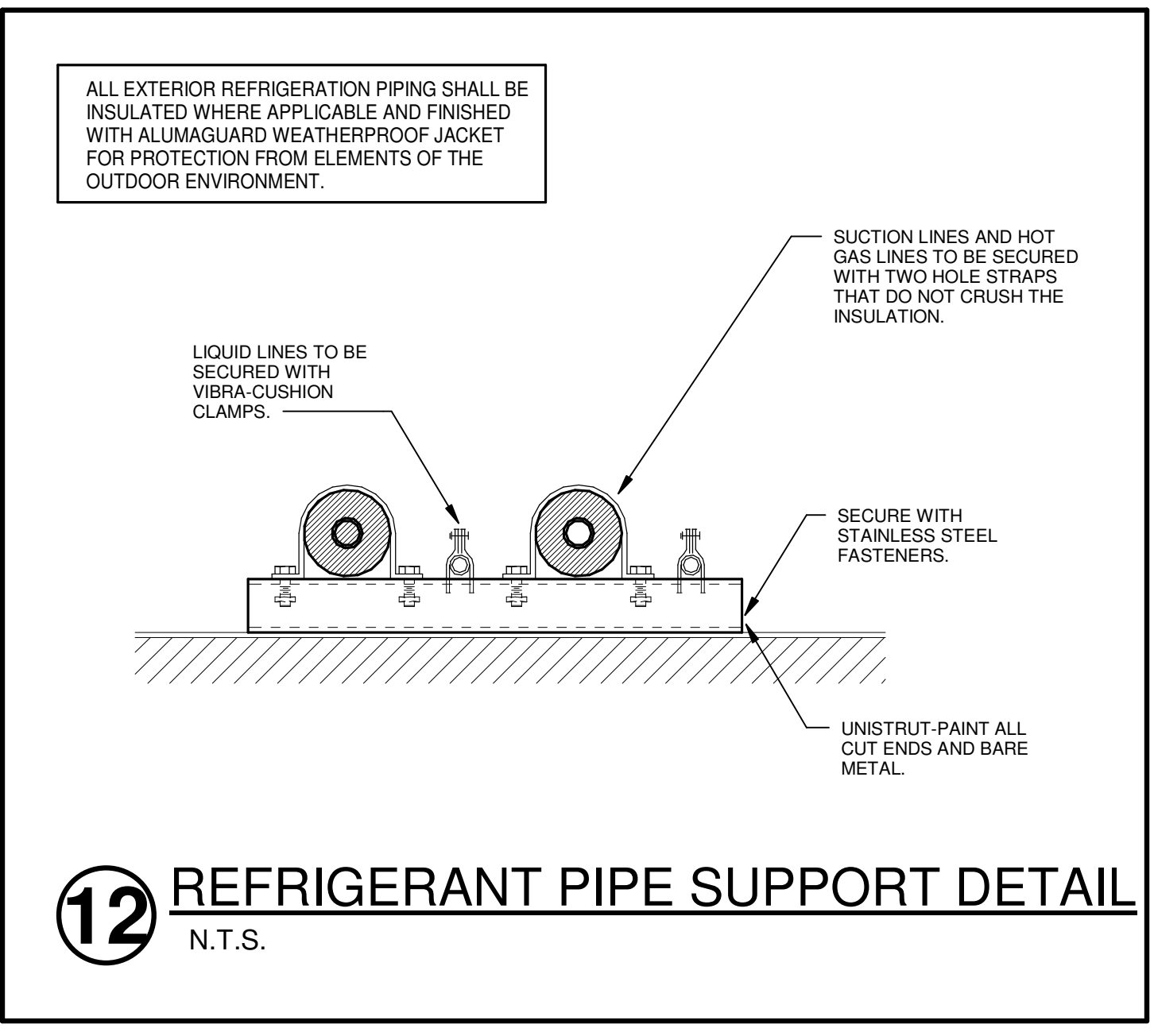
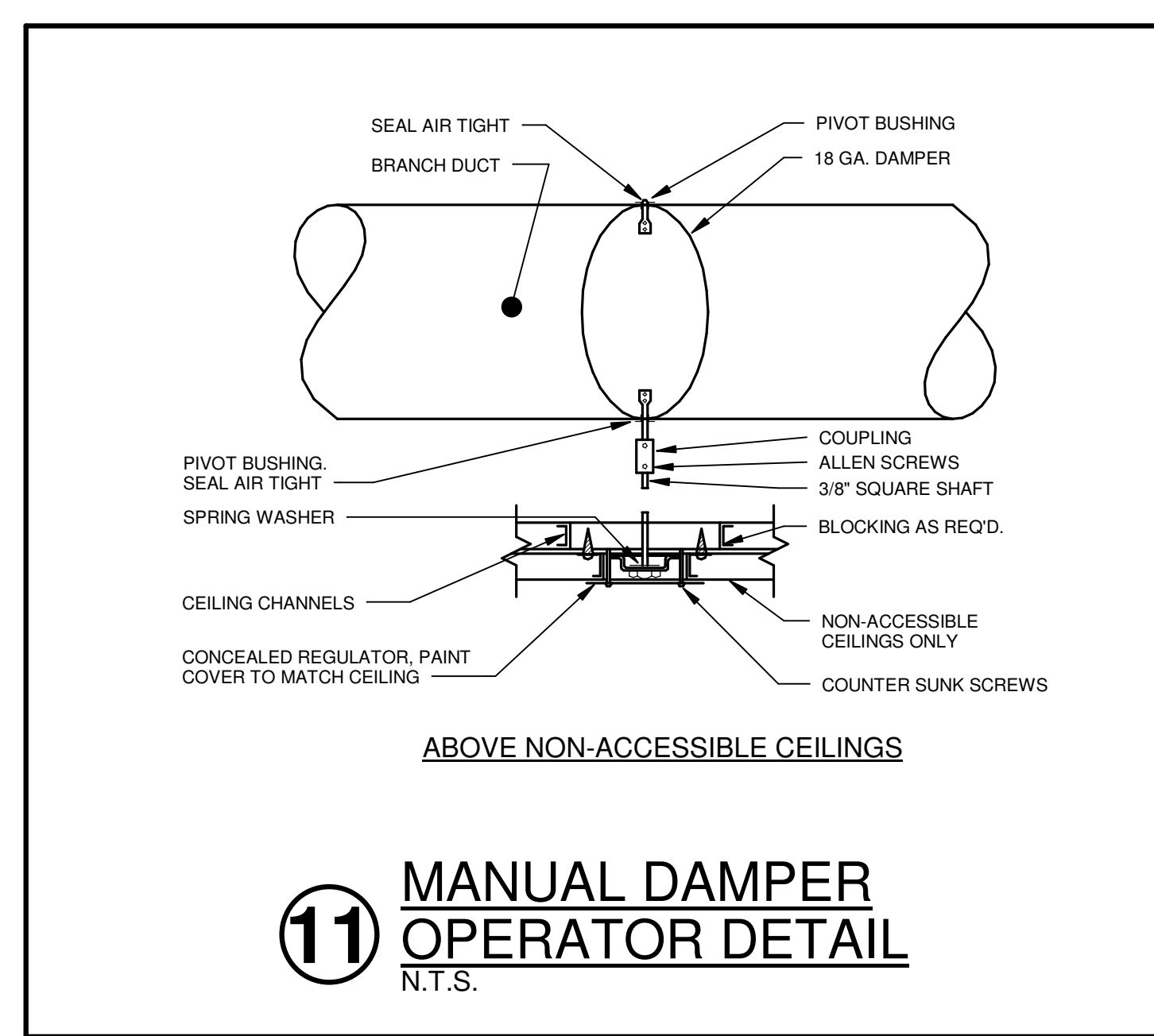
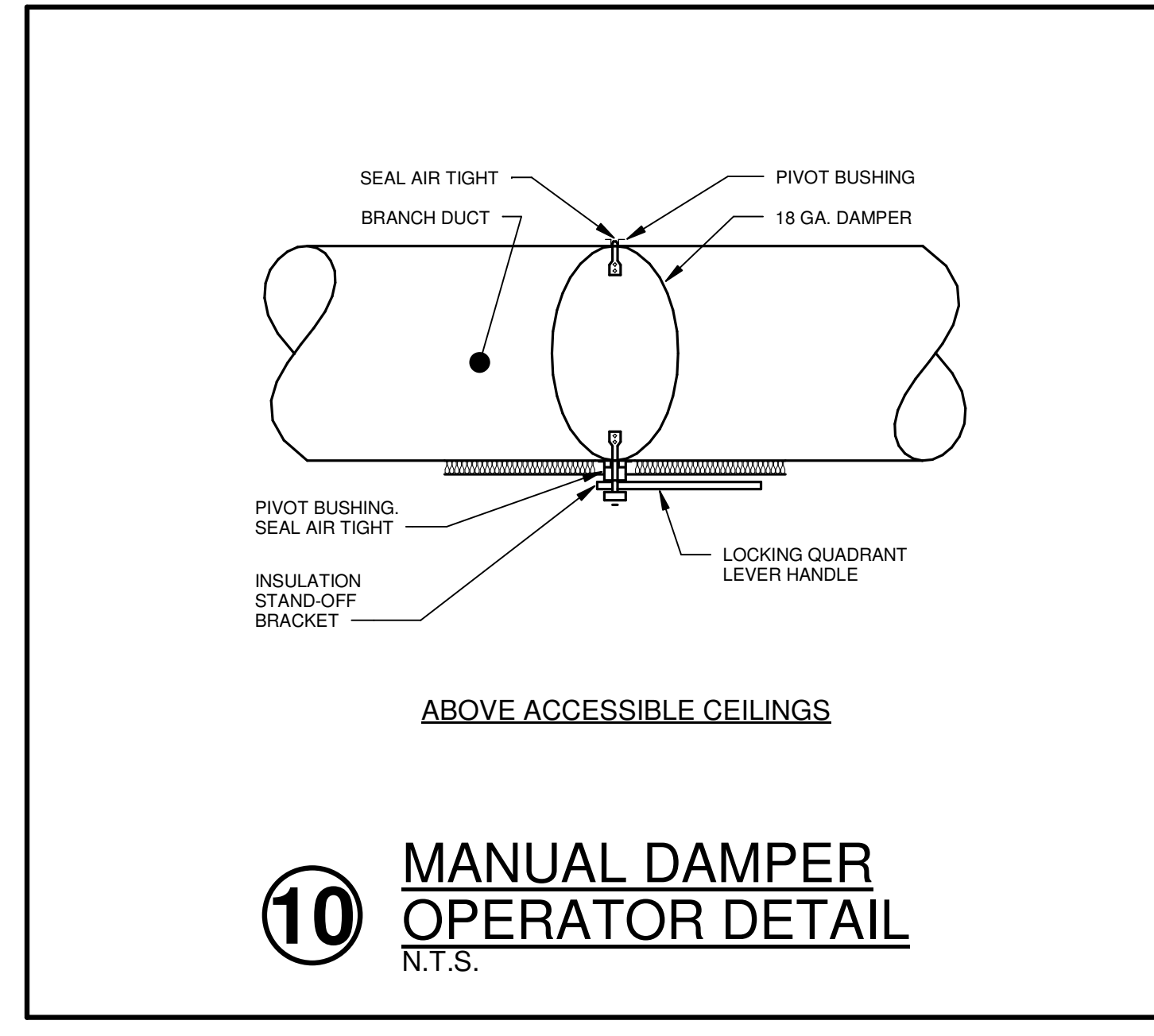
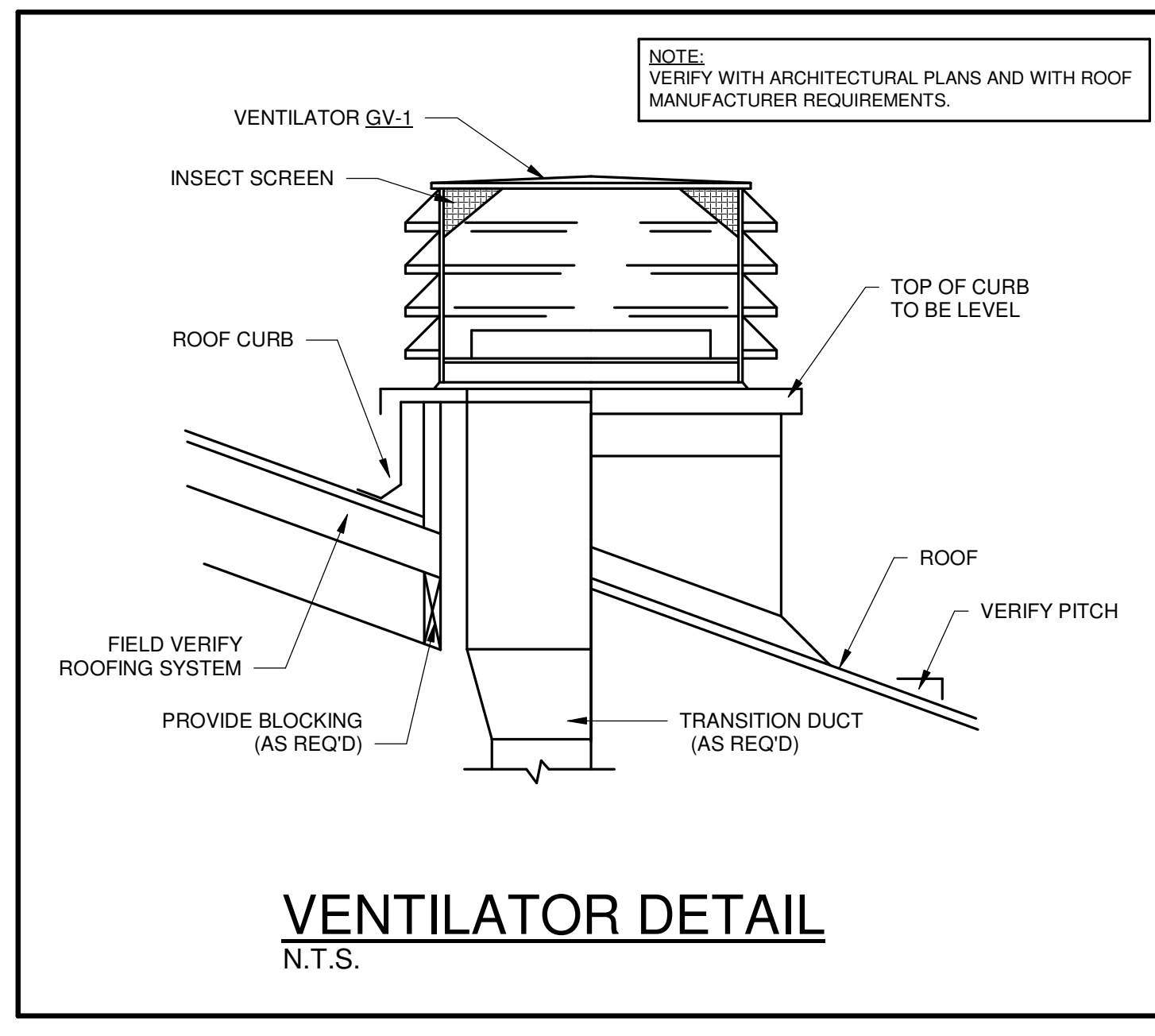
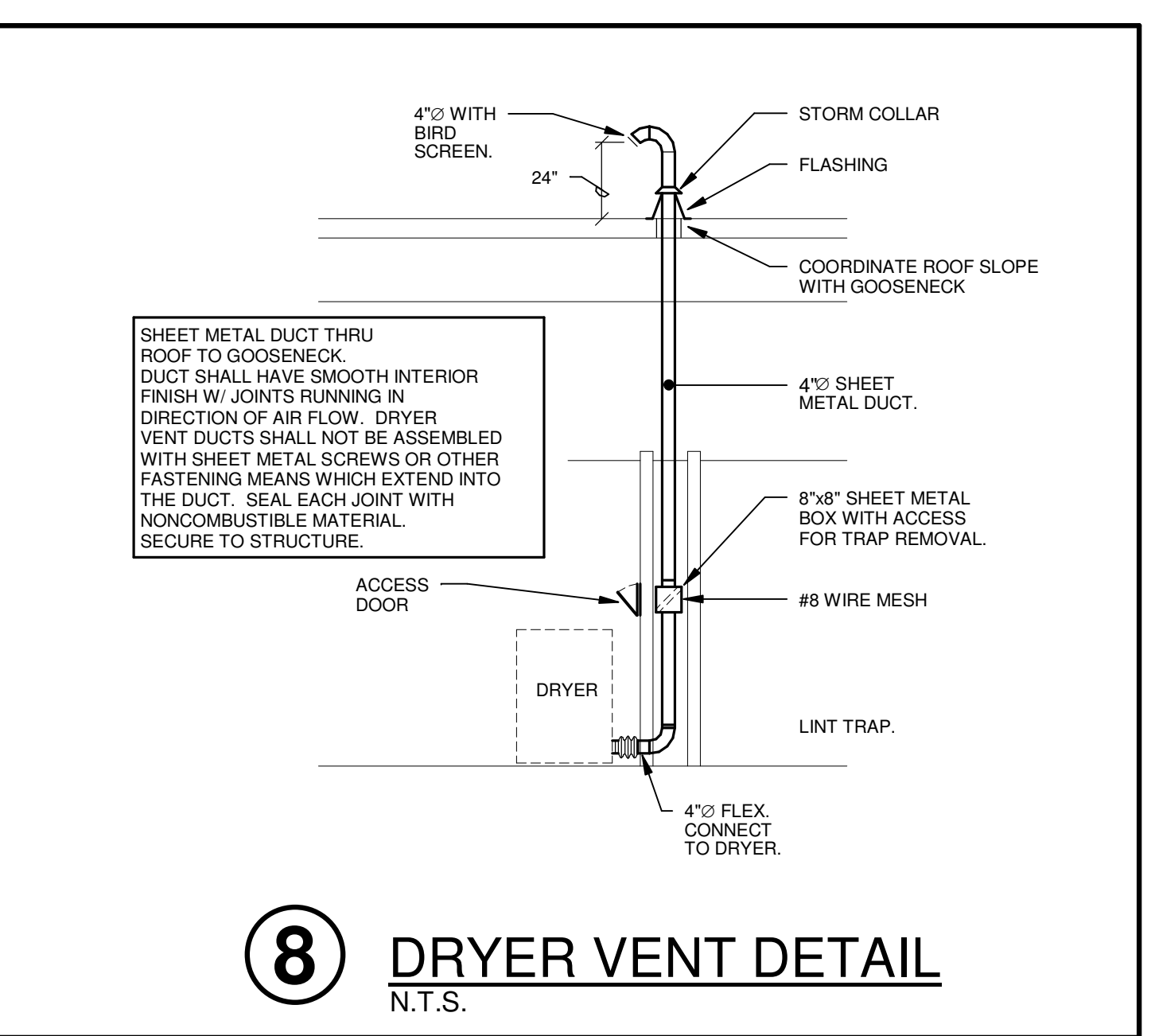
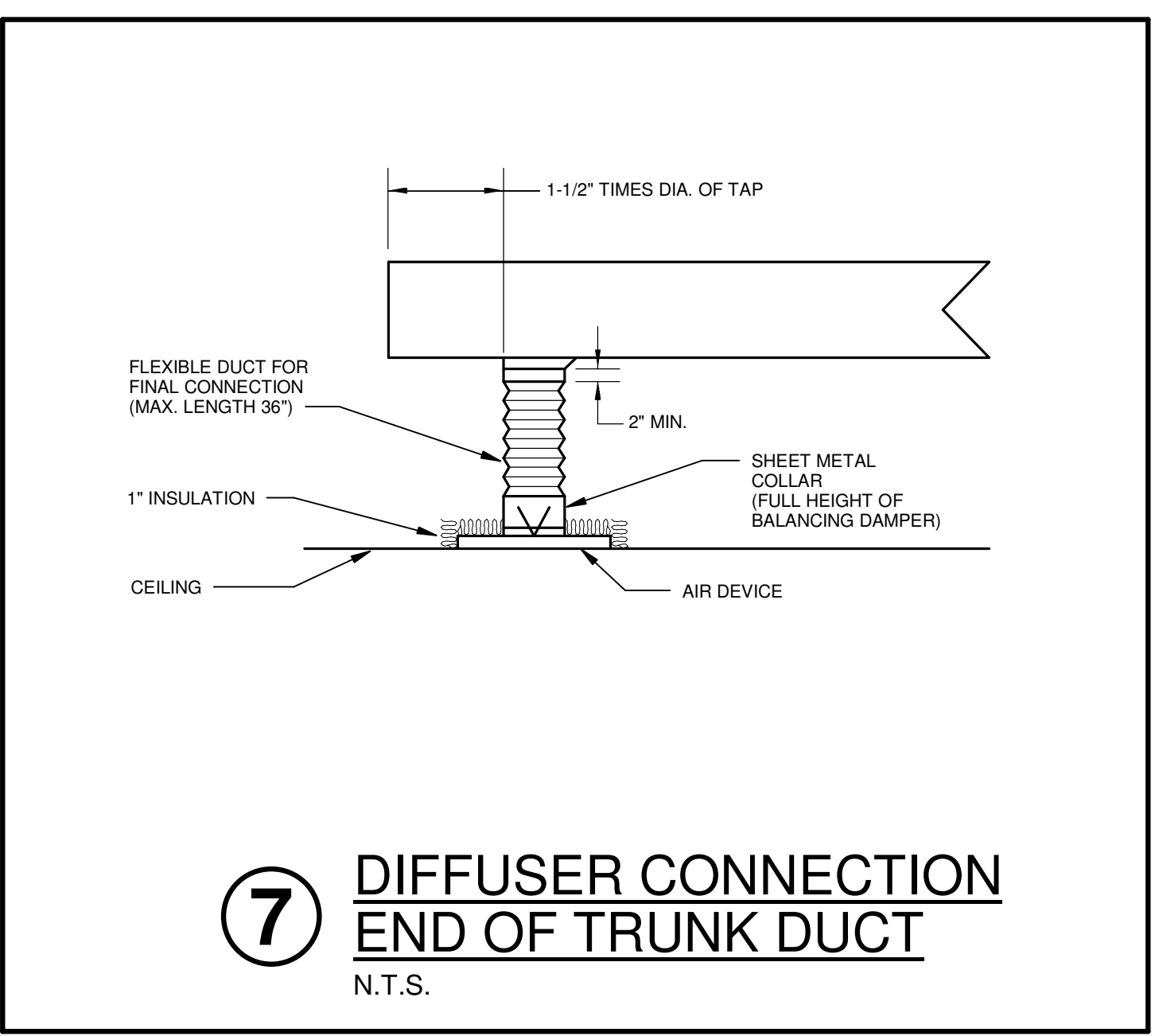
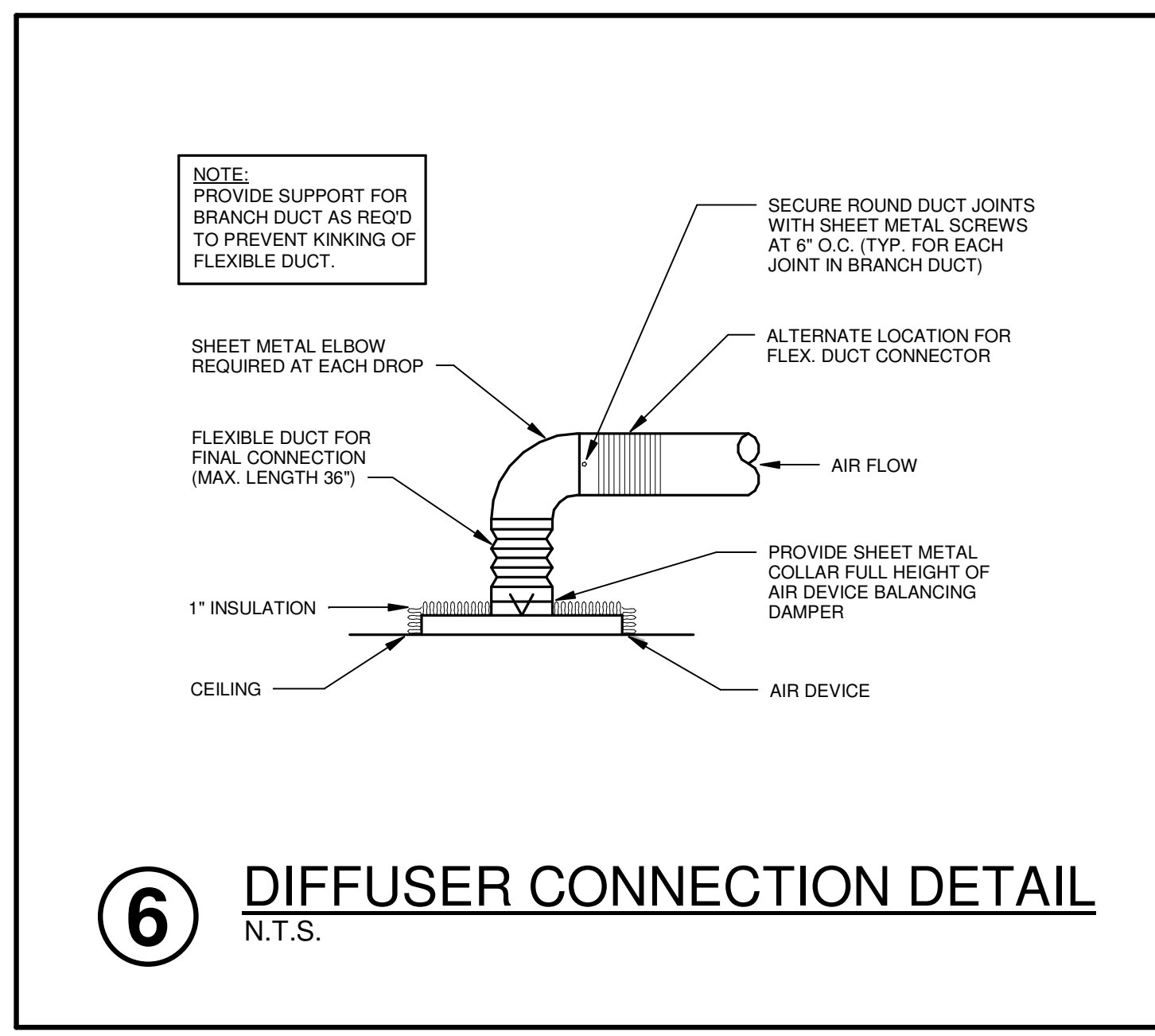
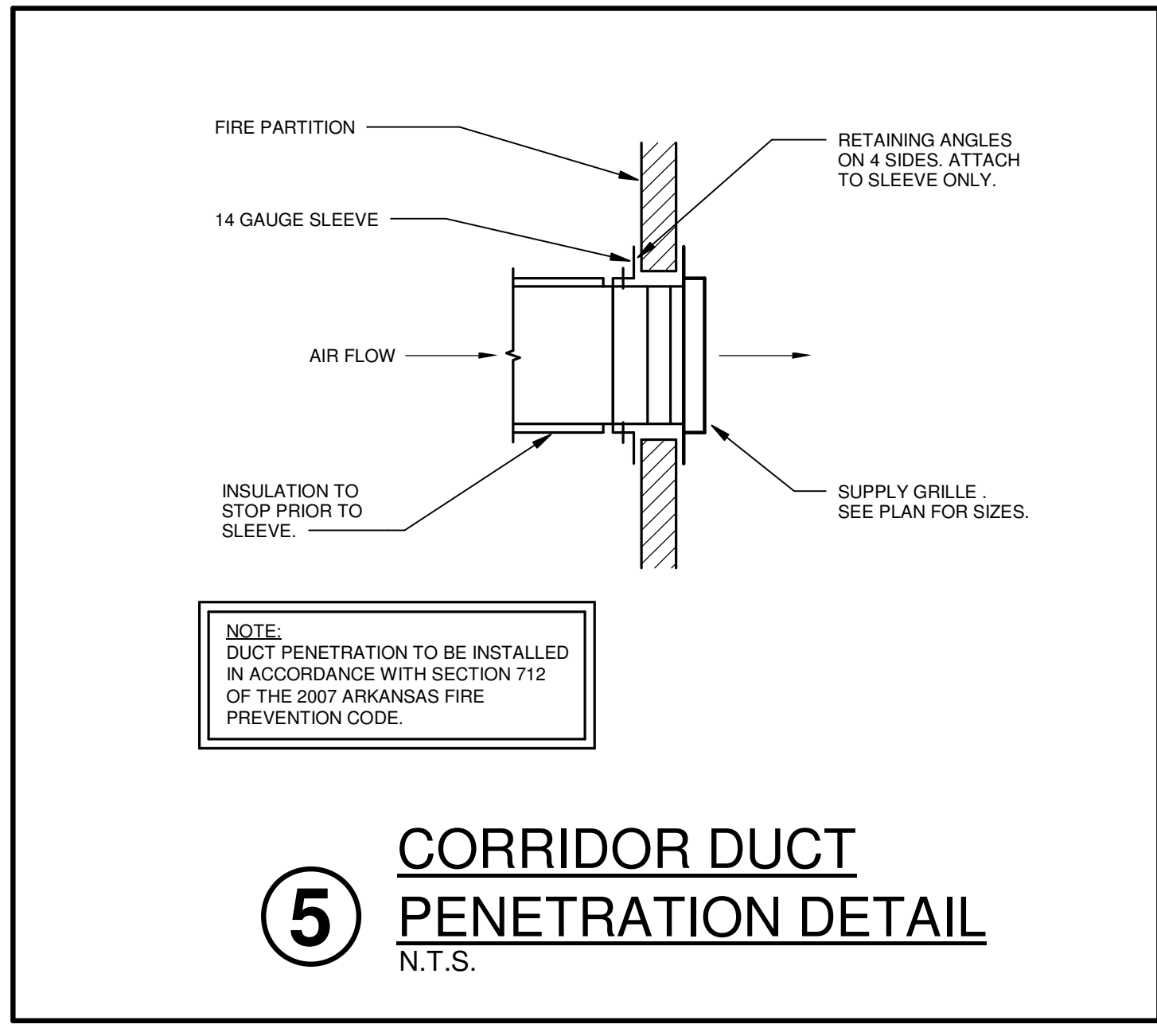
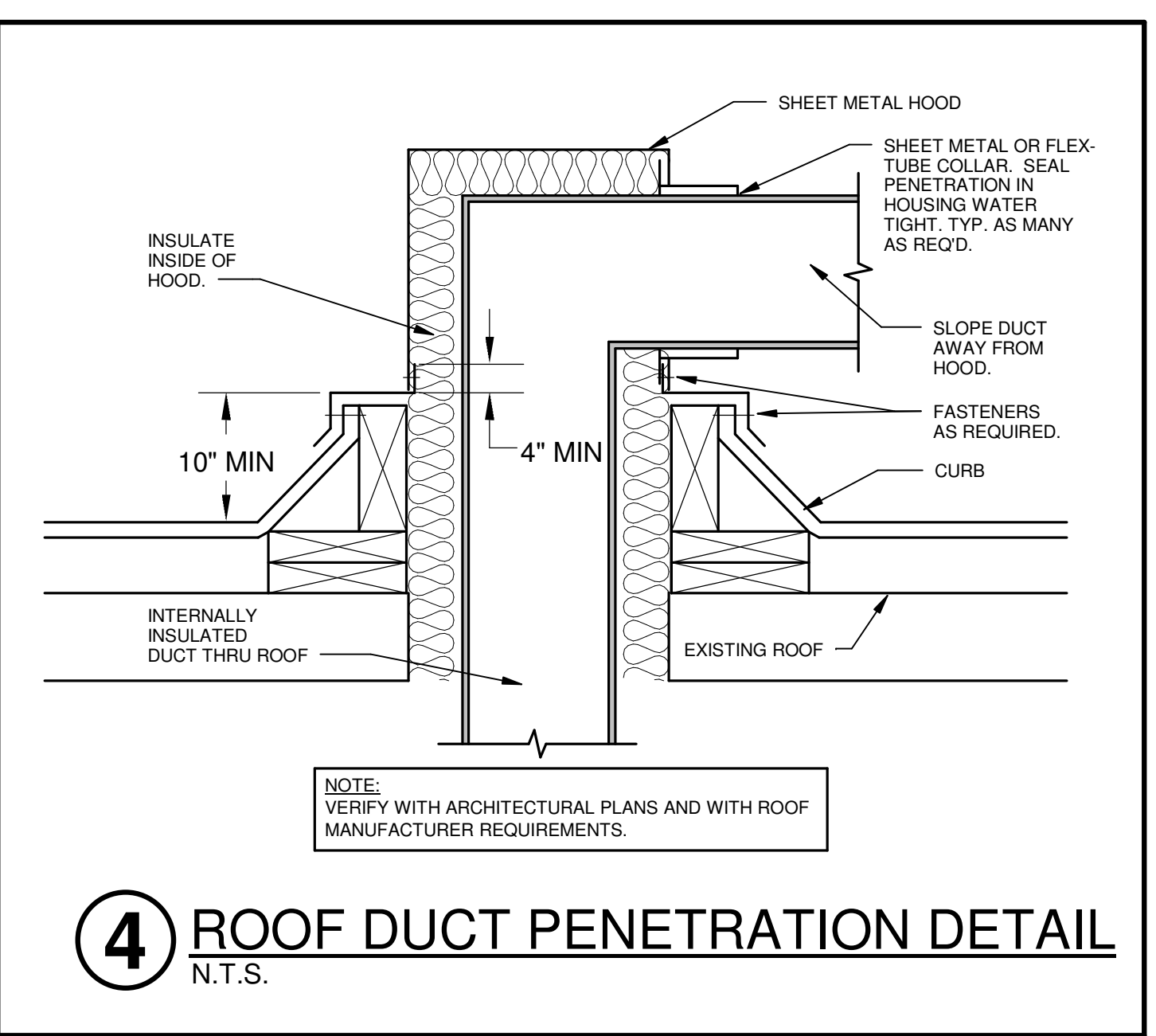
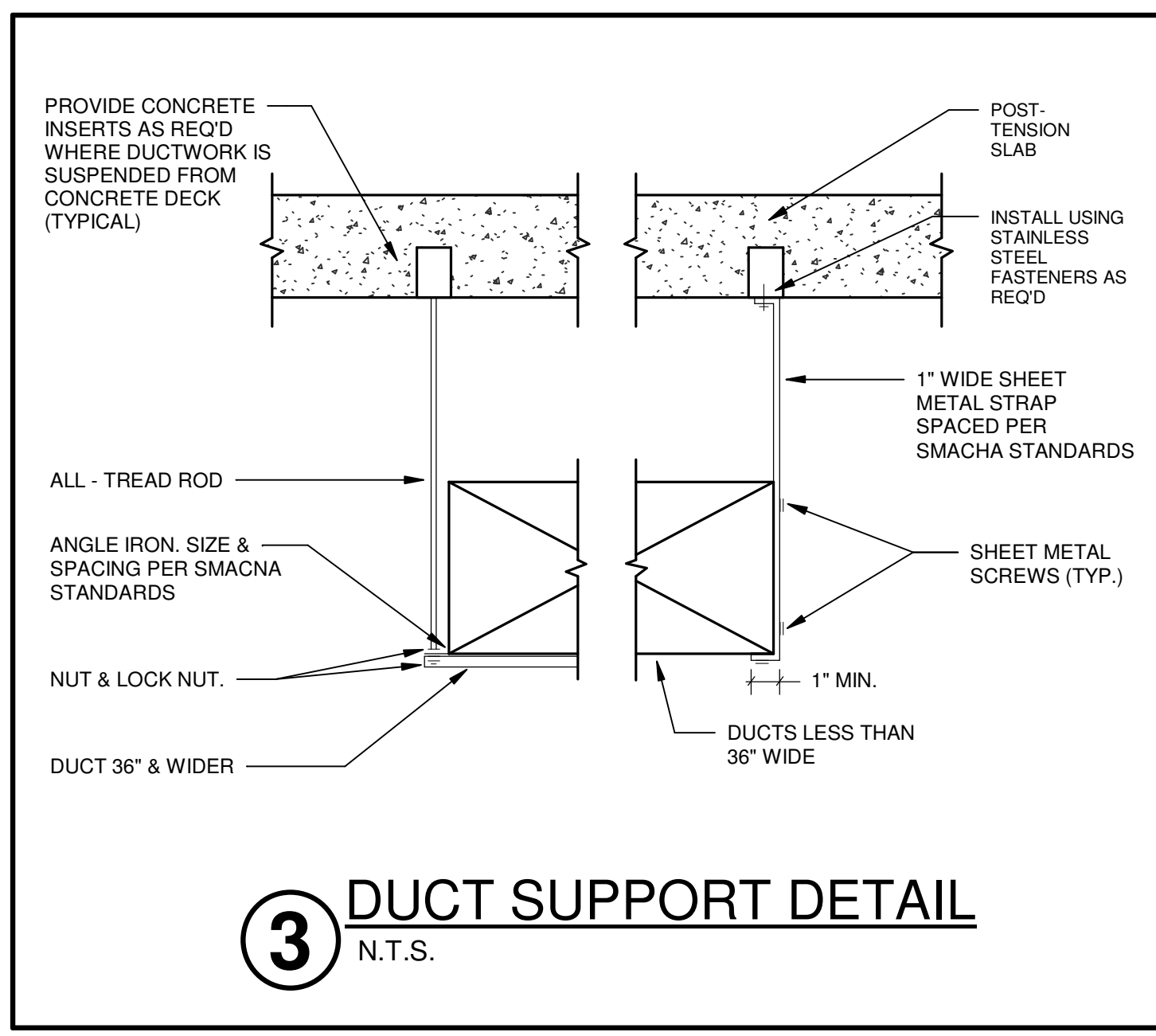
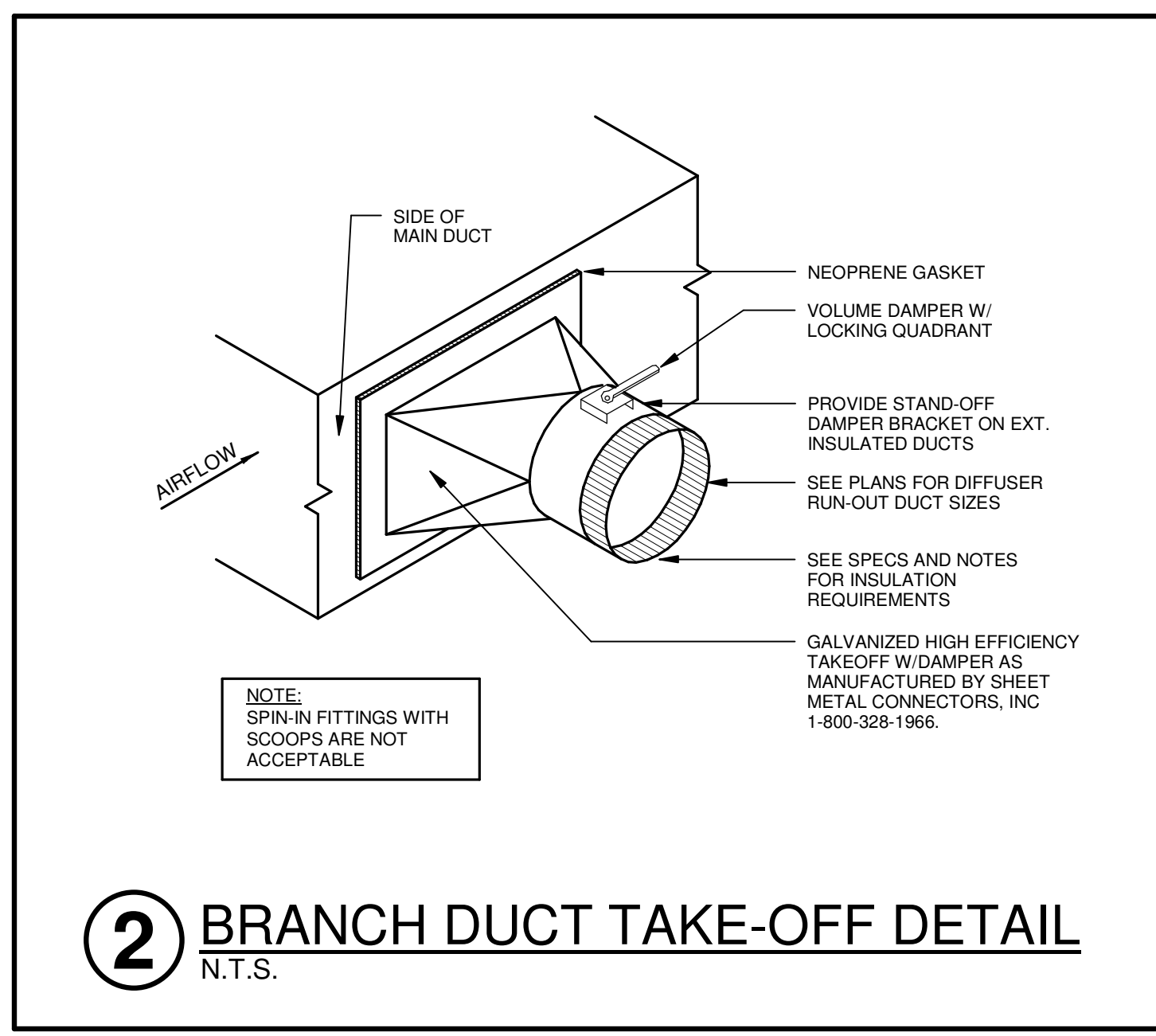
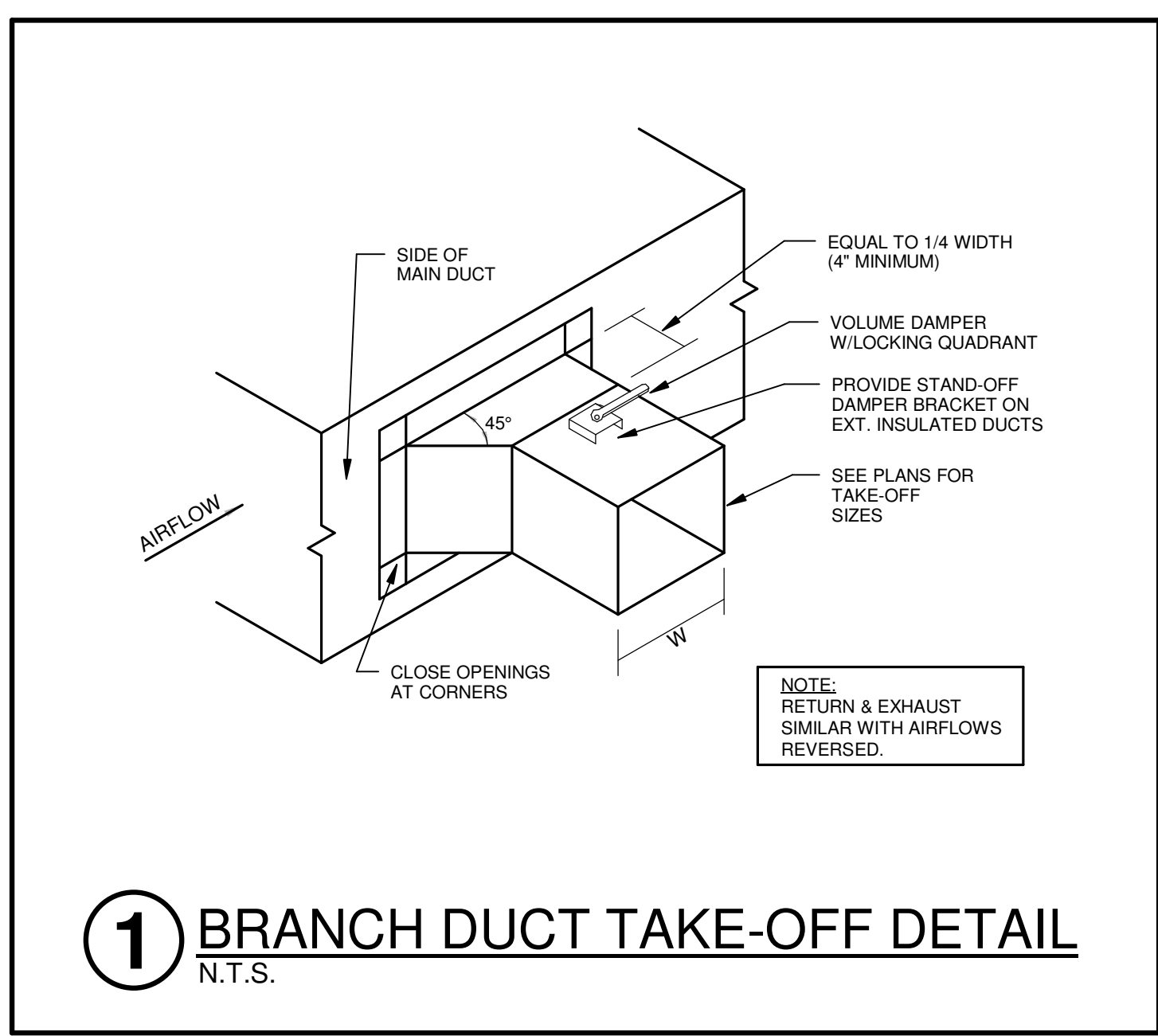
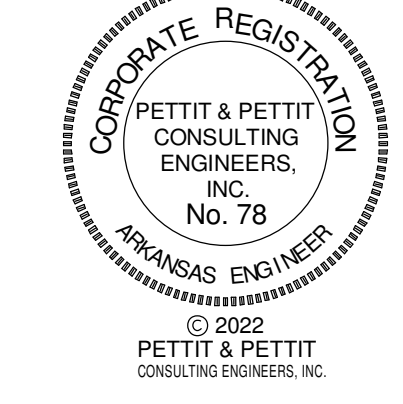
4 THIRD FLOOR CORRIDOR SECTION - HVAC
1" = 1'-0"

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PROJECT NO. 21054
DATE: May 5, 2022

REVISED HVAC SECTIONS
M2.01R
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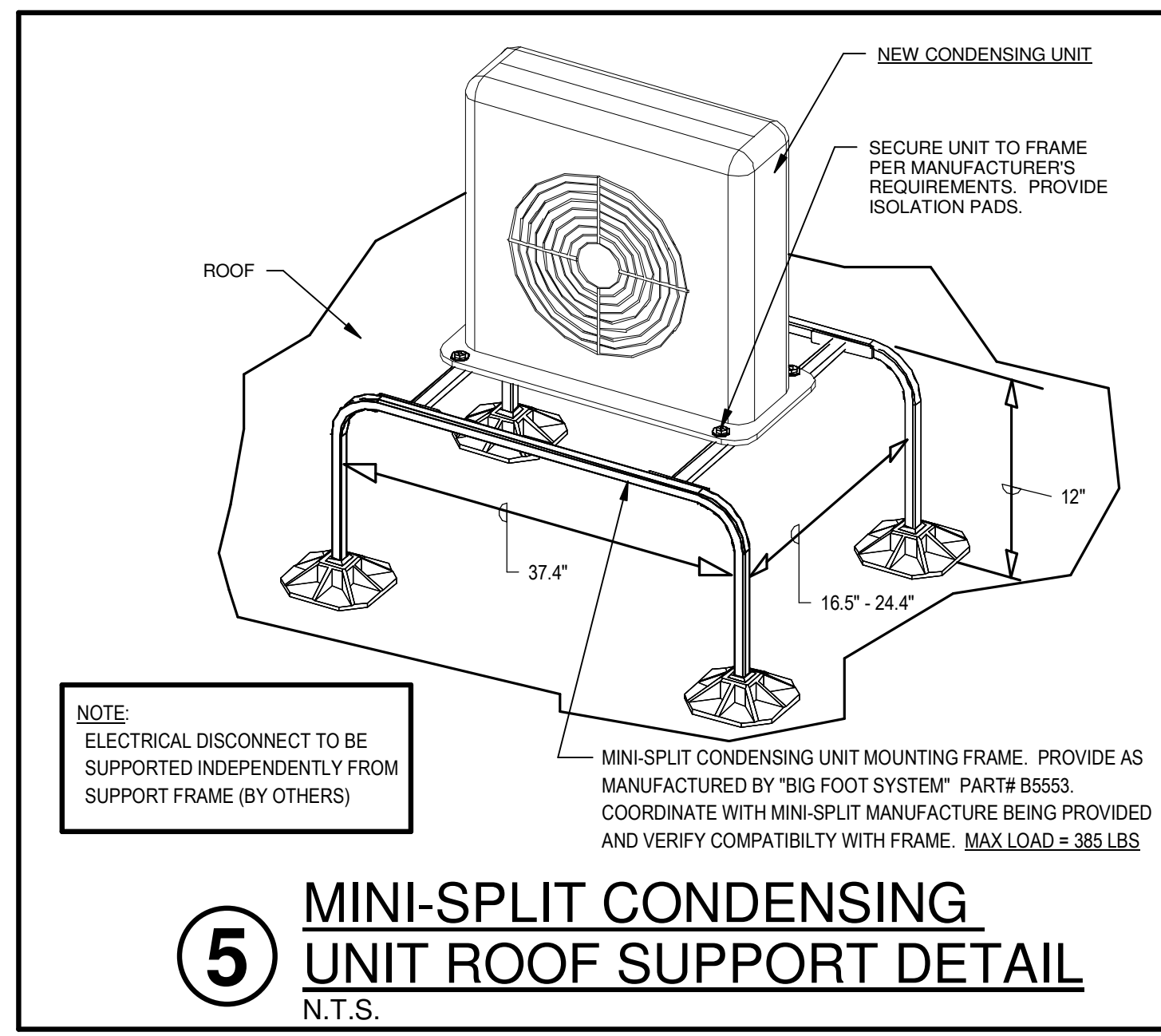
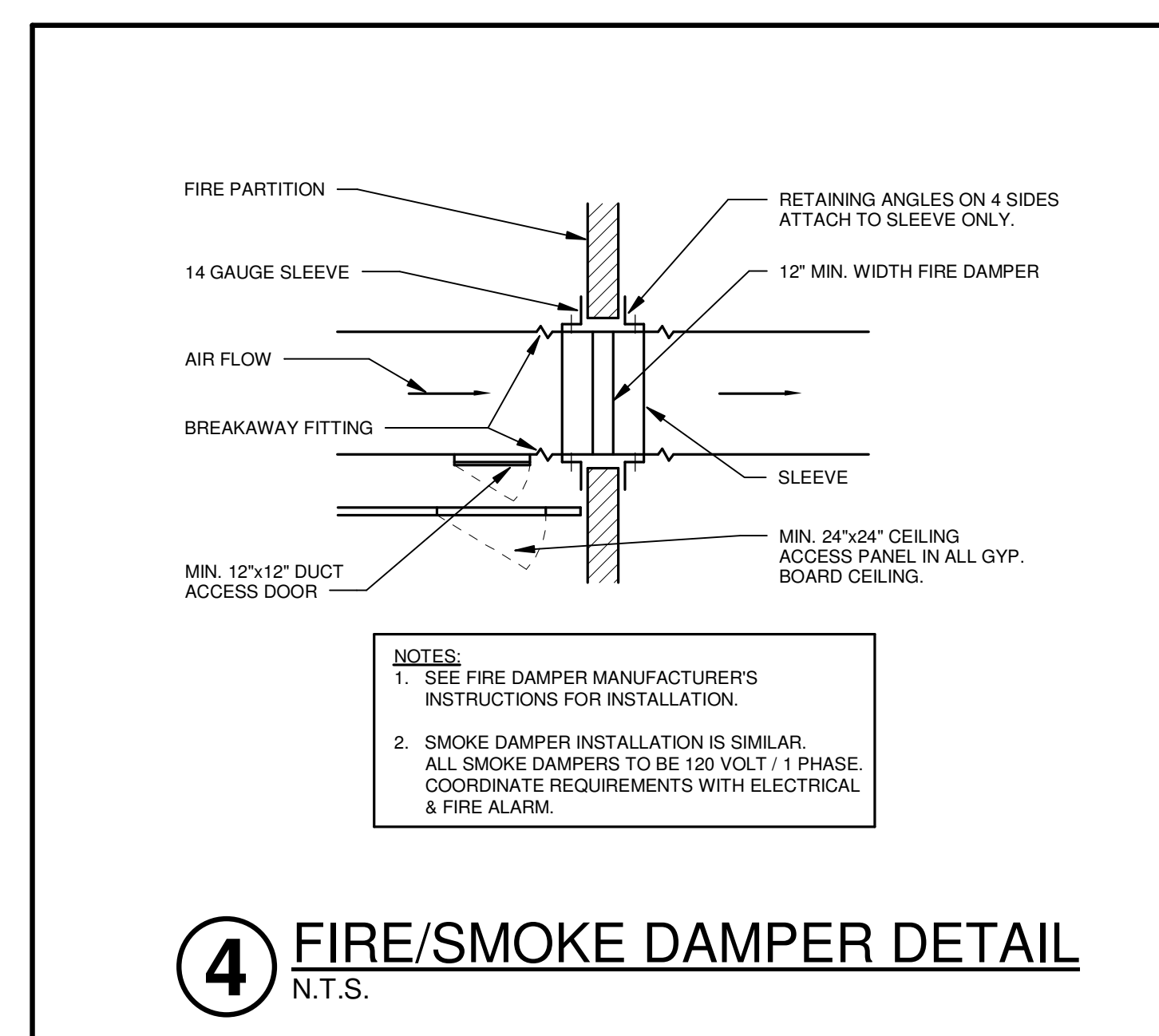
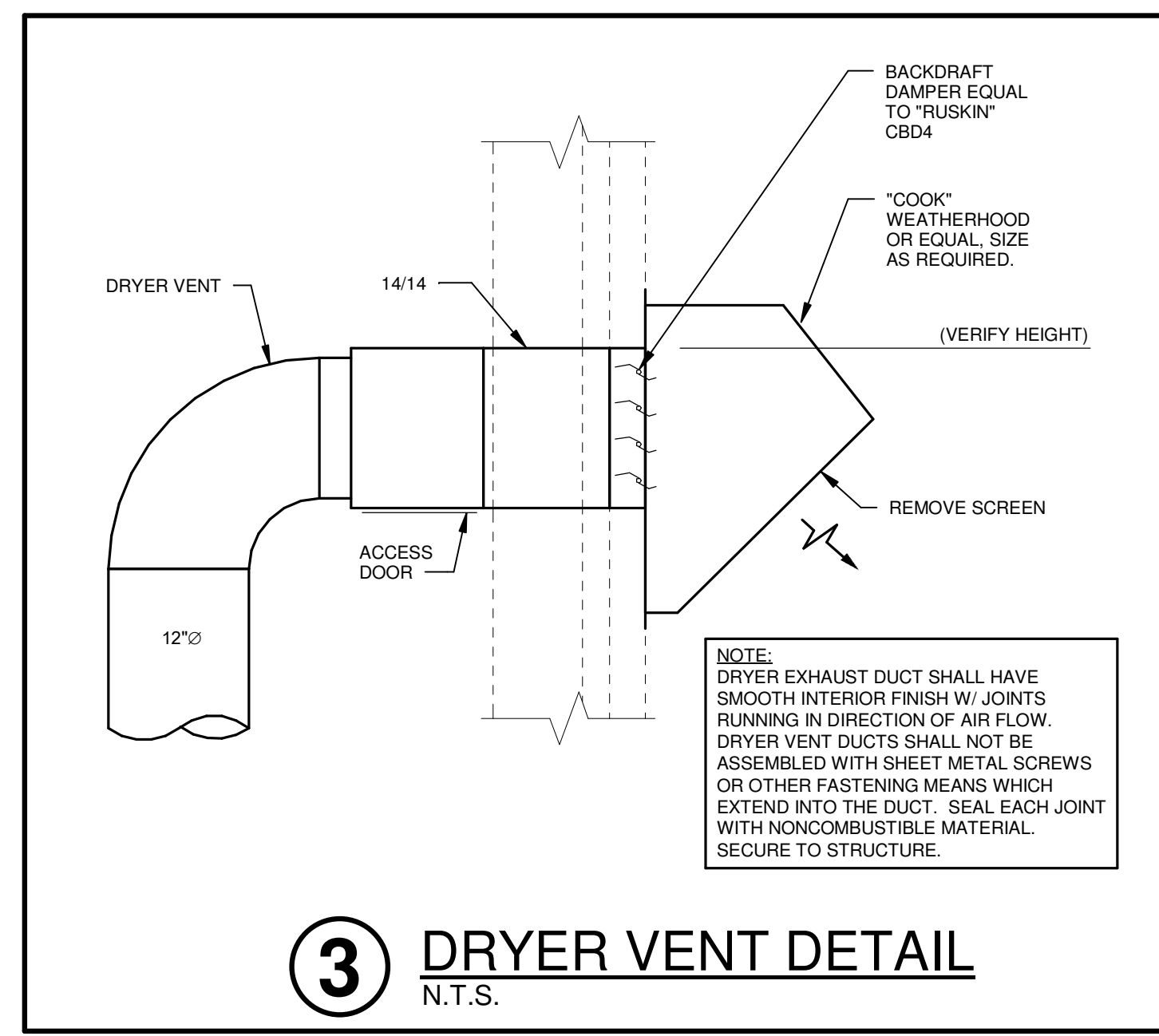
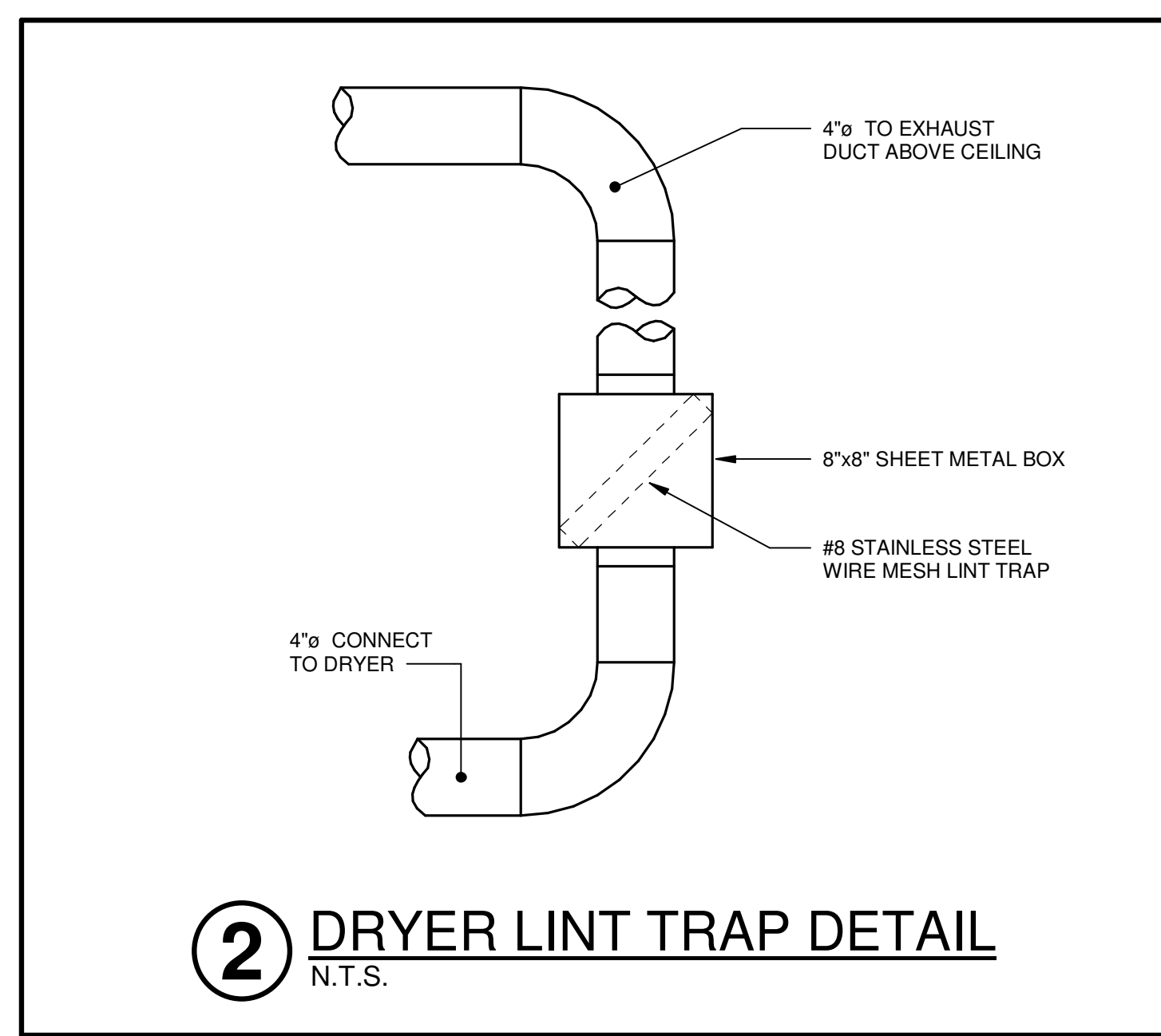
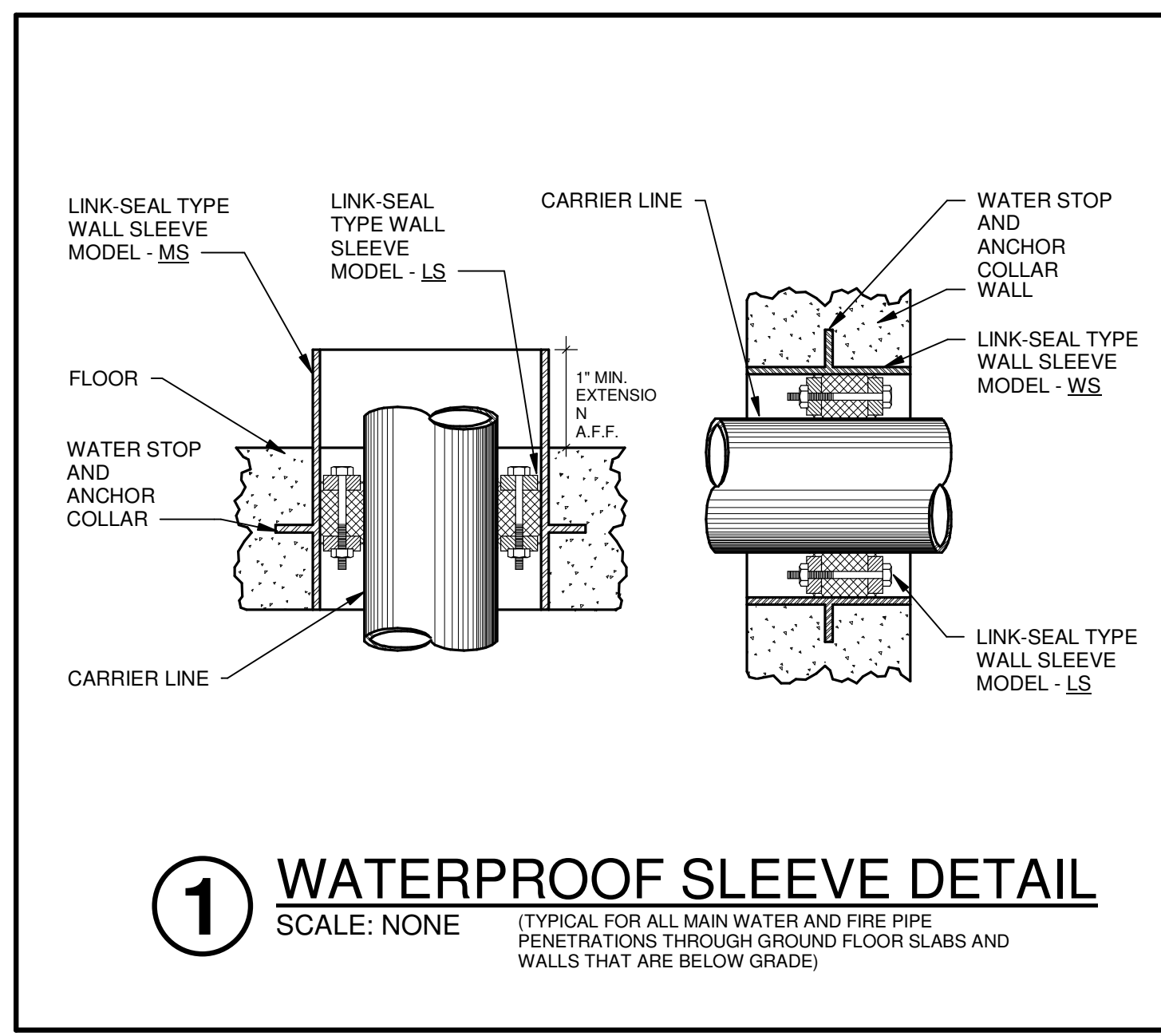


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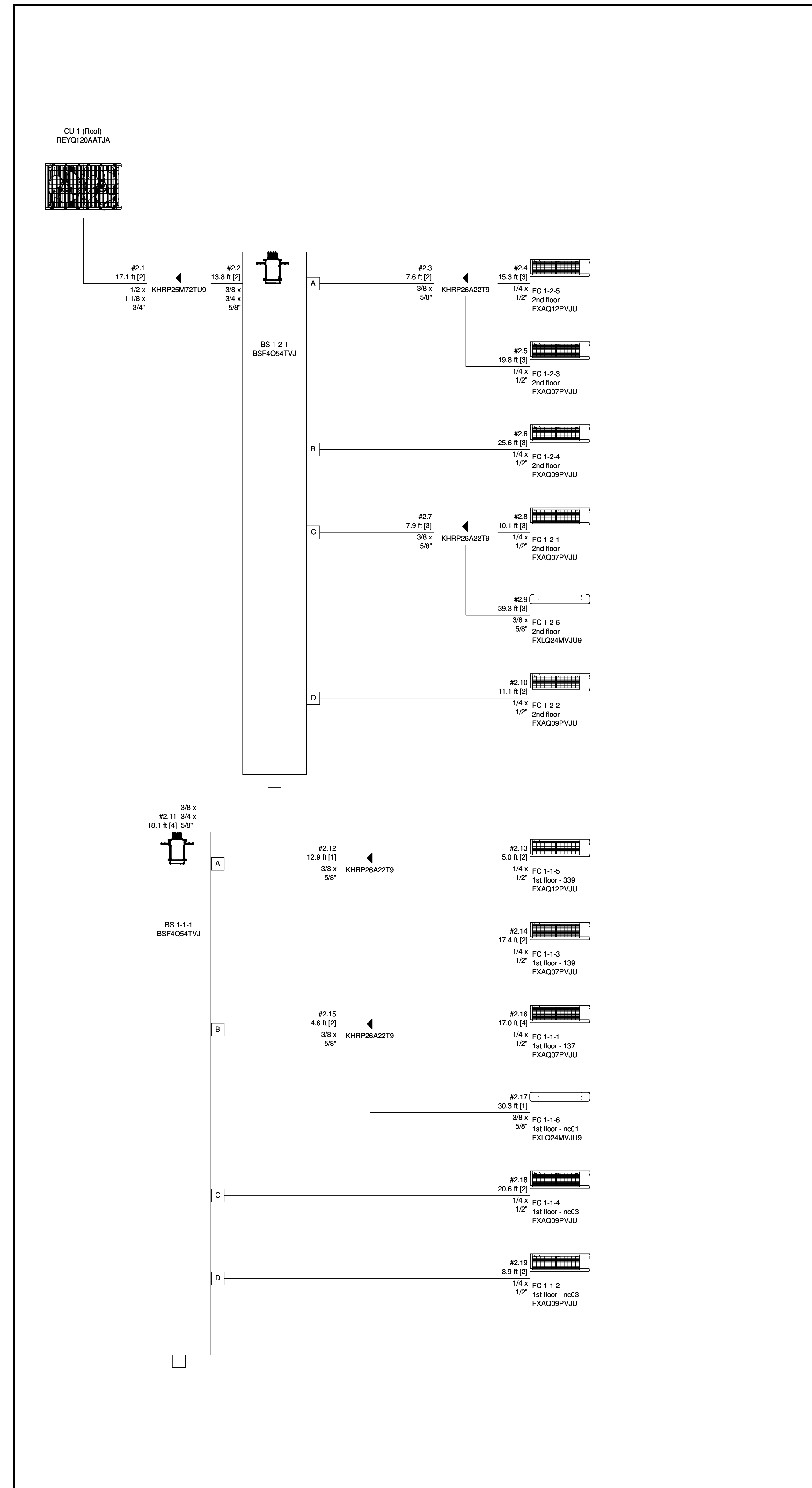
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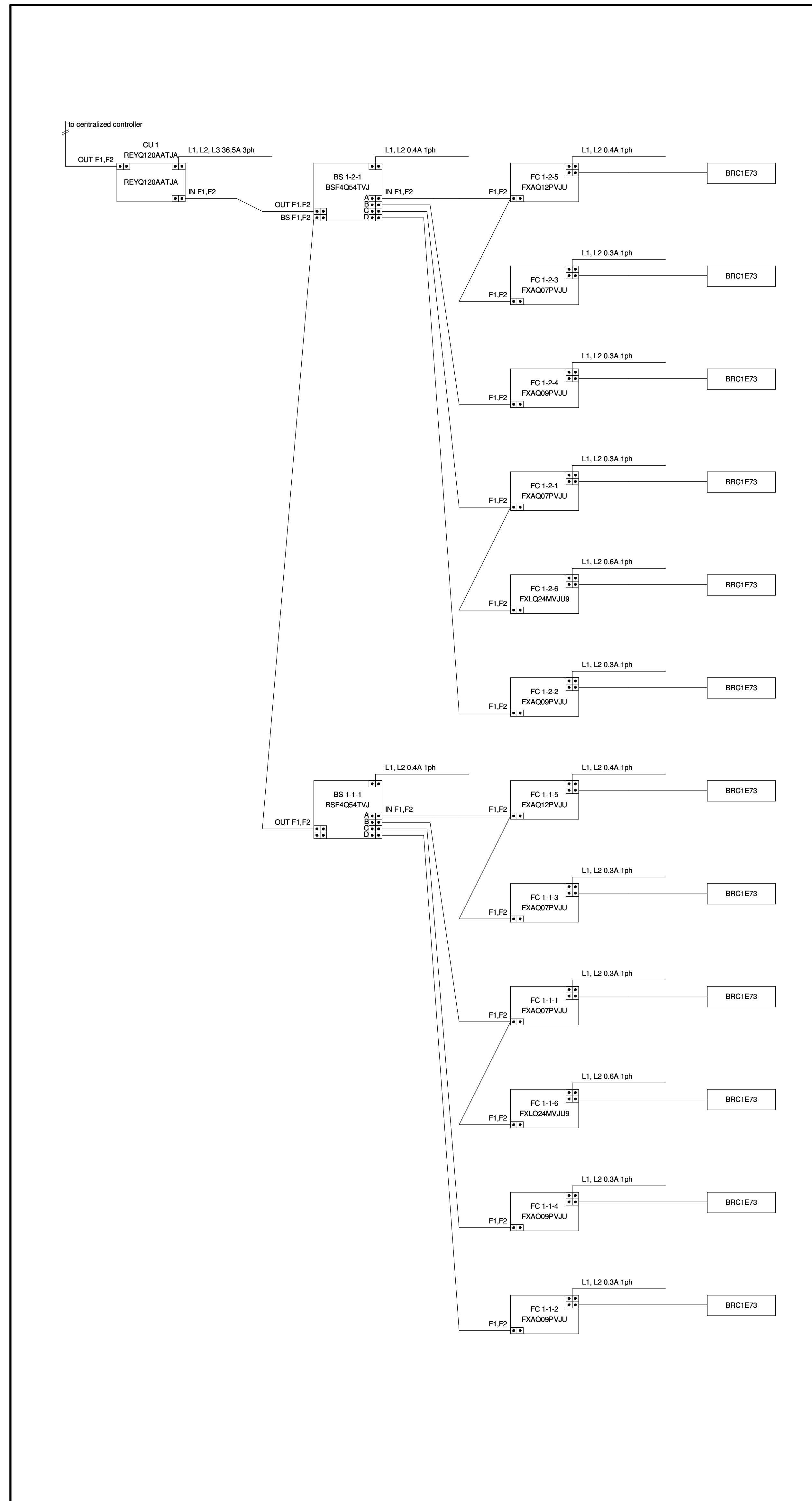
HVAC DETAILS
M3.02

VRF CONDENSING UNIT (CU-1)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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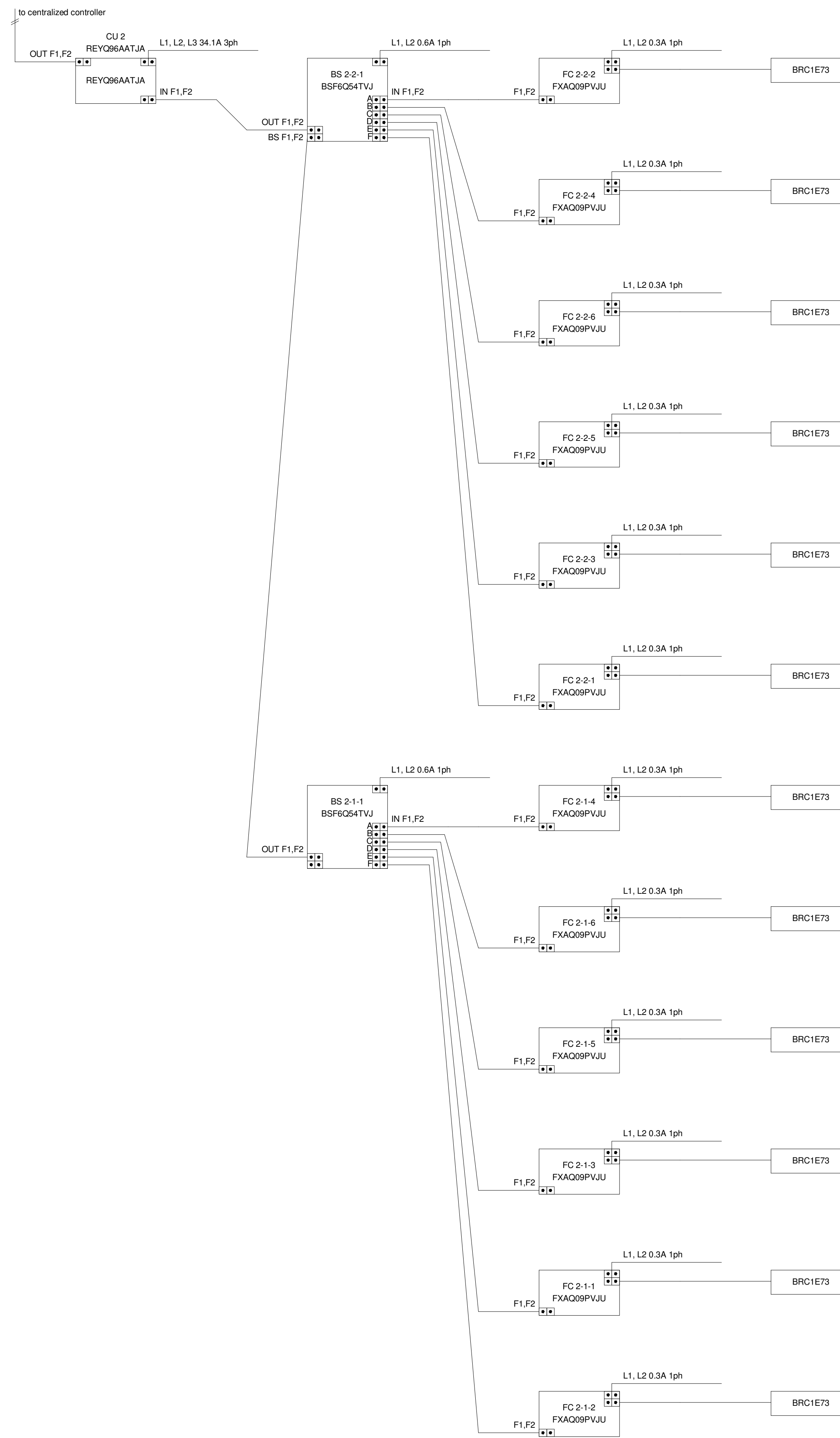
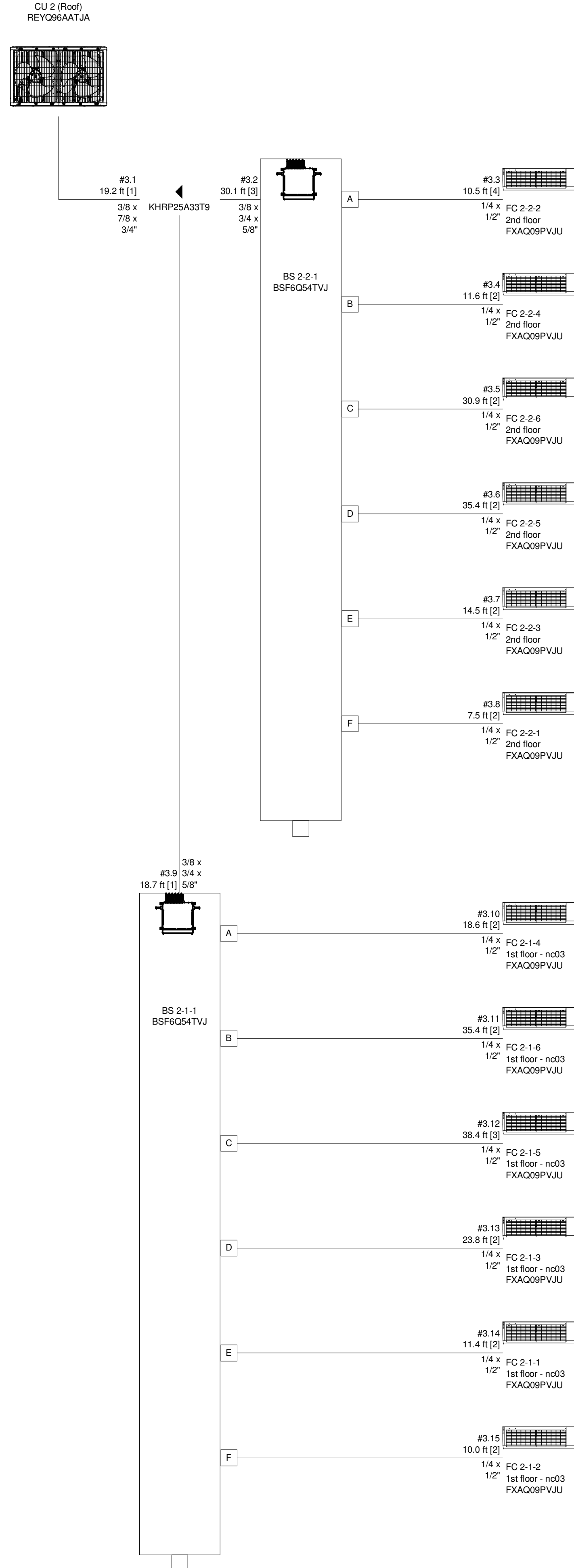
VRV RISER
DIAGRAM - HVAC

M4.01

VRF CONDENSING UNIT (CU-2)

PIPING DIAGRAM

WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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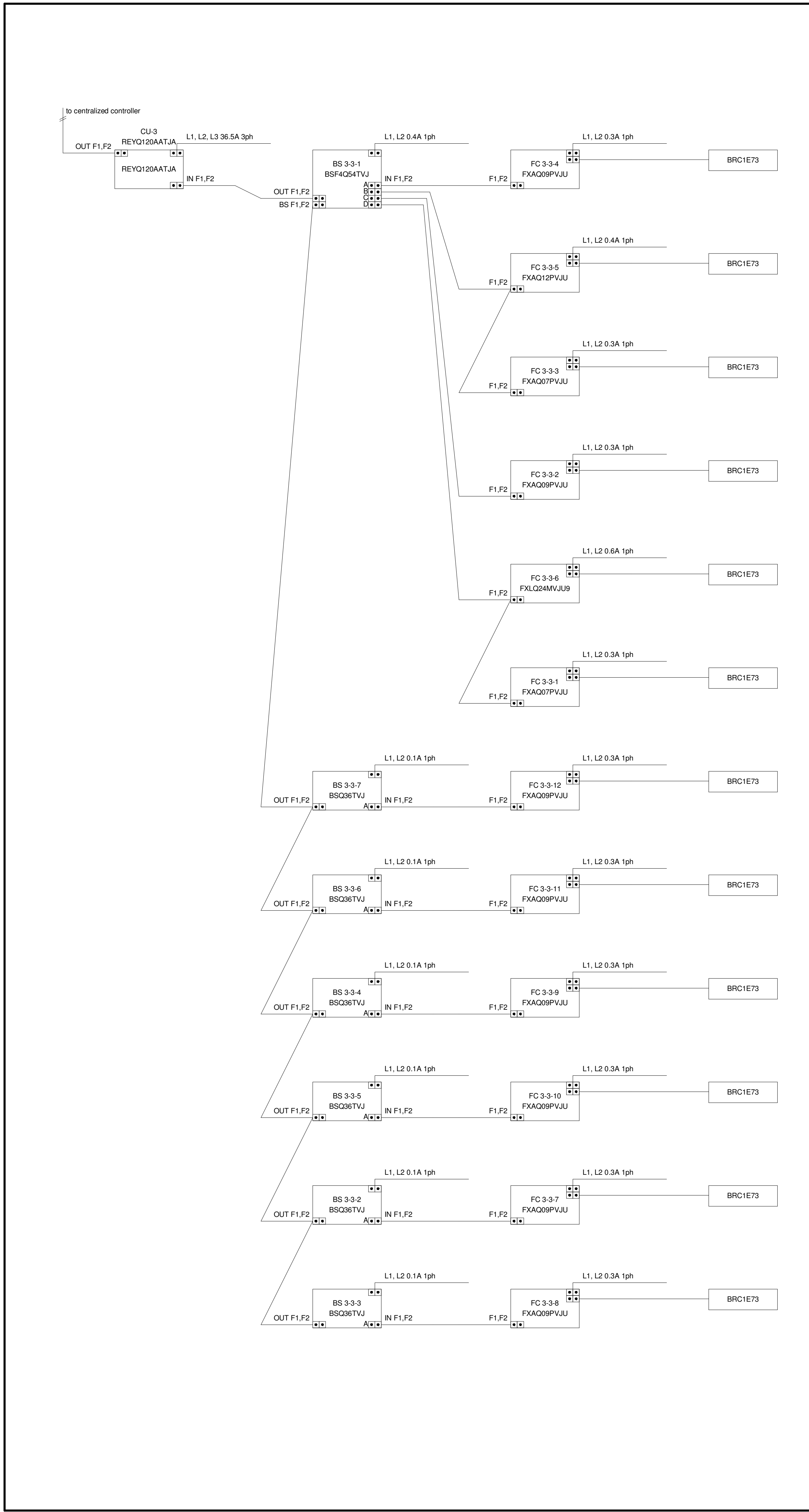
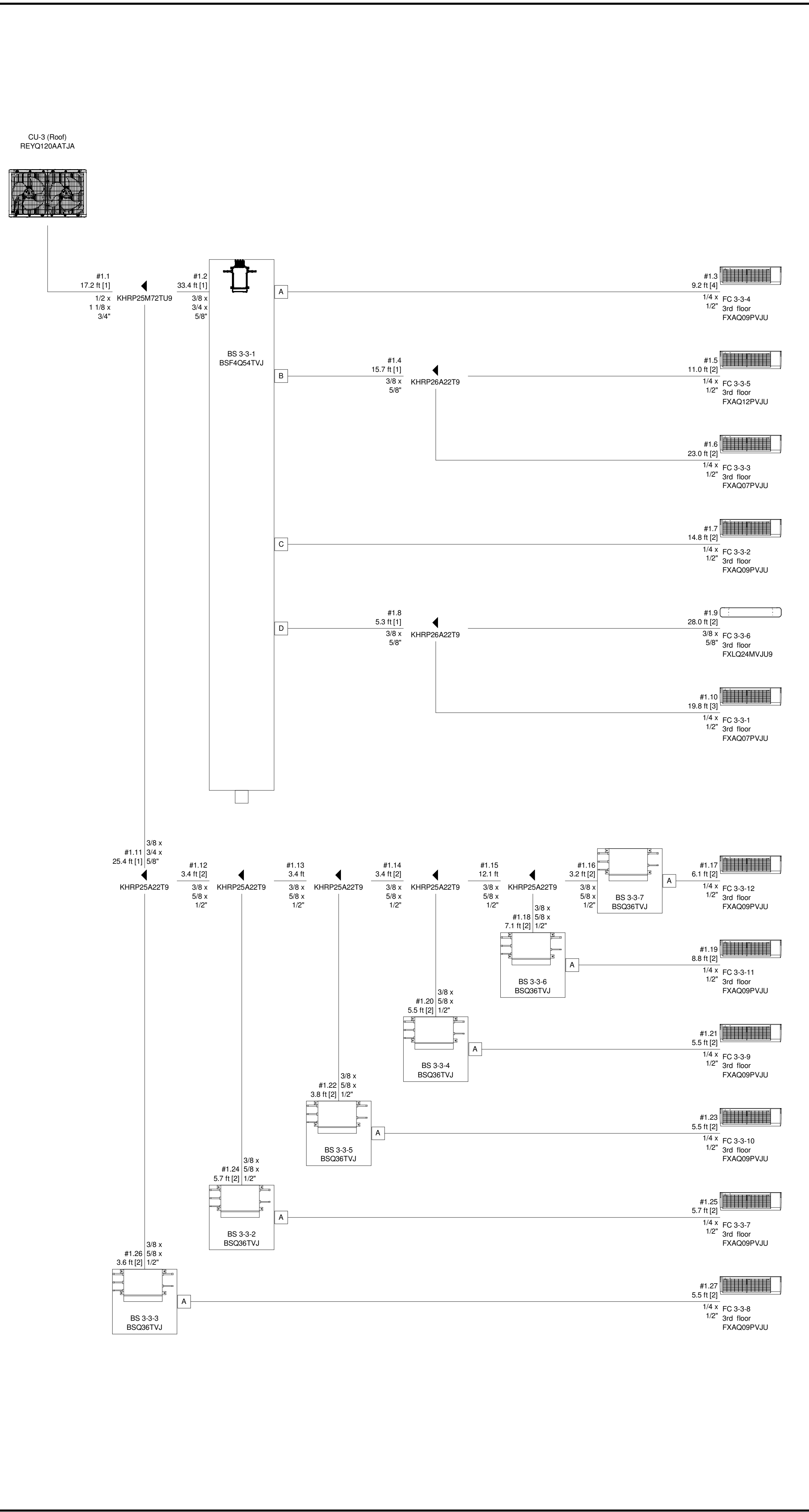
VRV RISER
DIAGRAM - HVAC

M4.02

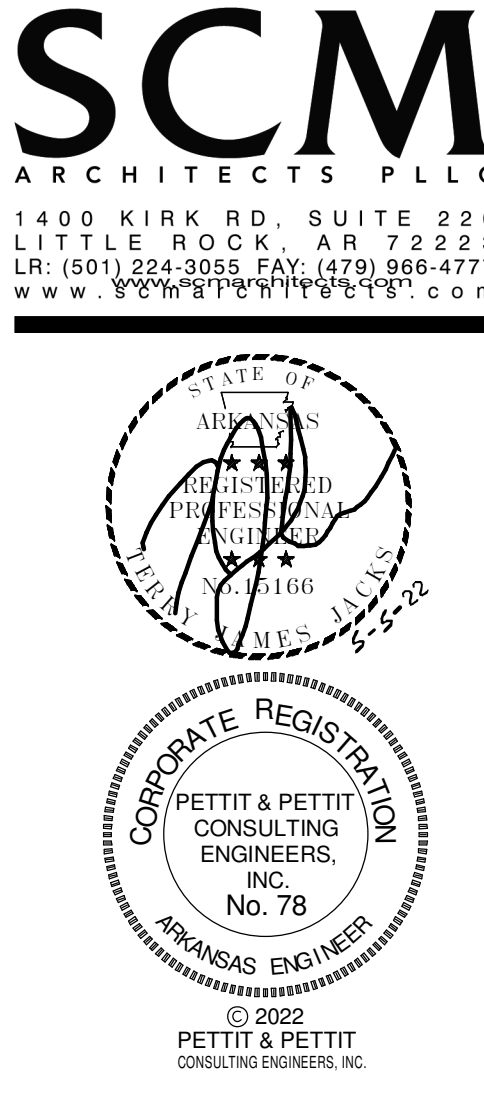
VRF CONDENSING UNIT (CU-3)

PIPING DIAGRAM

WIRING DIAGRAM



CONTRACTOR NOTE
 CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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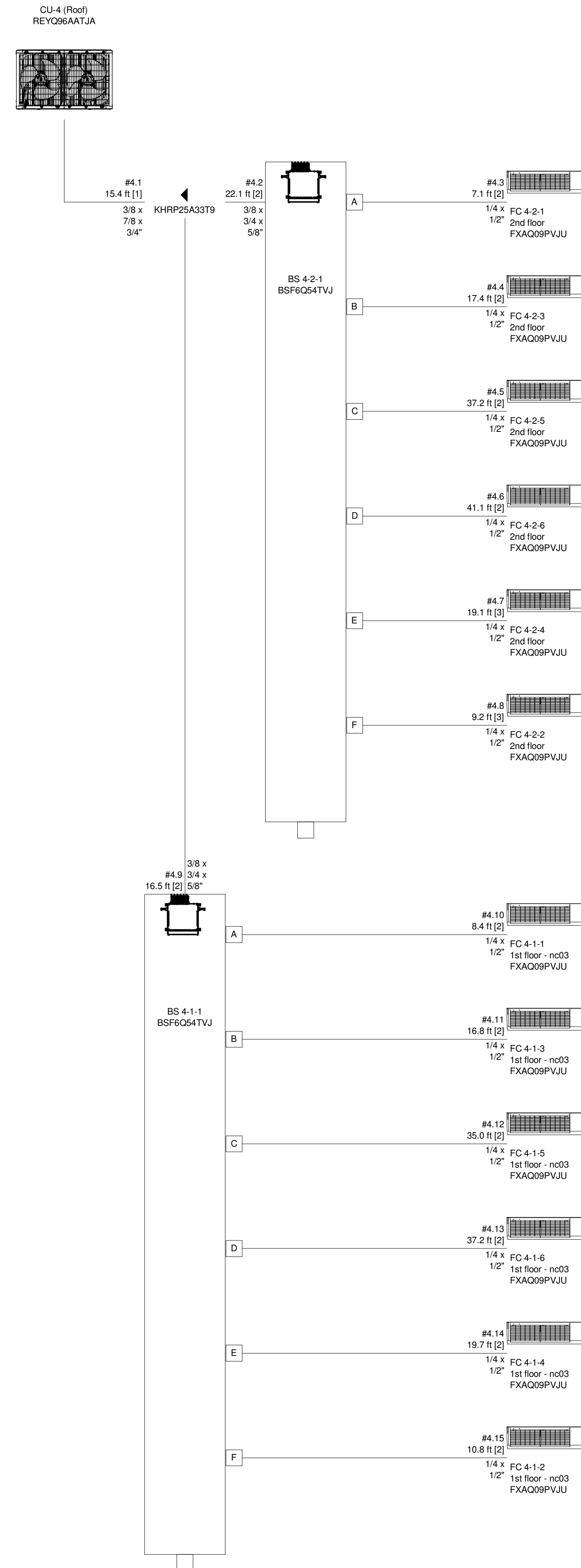
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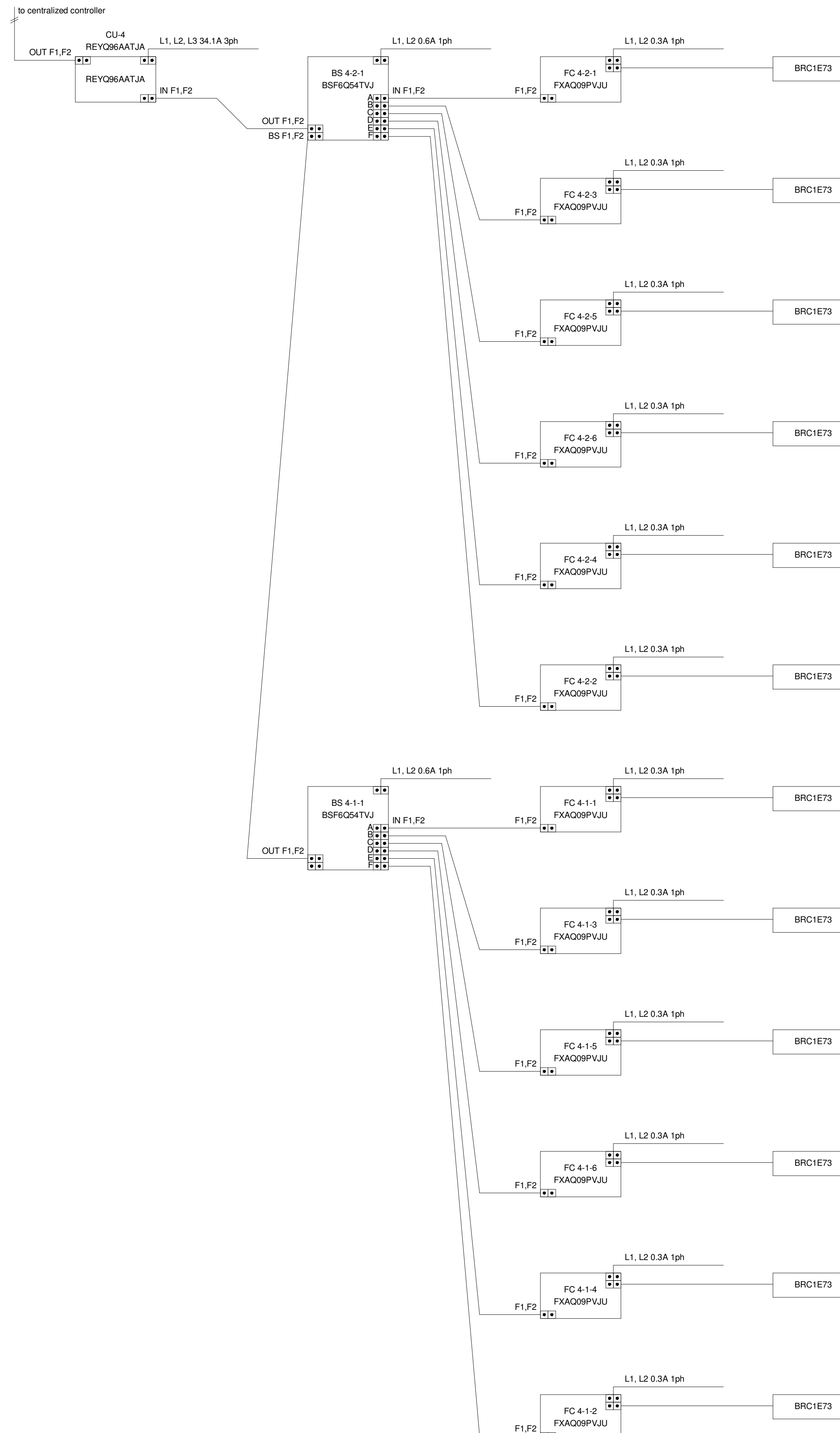
VRV RISER
 DIAGRAM - HVAC
M4.03

VRF CONDENSING UNIT (CU-4)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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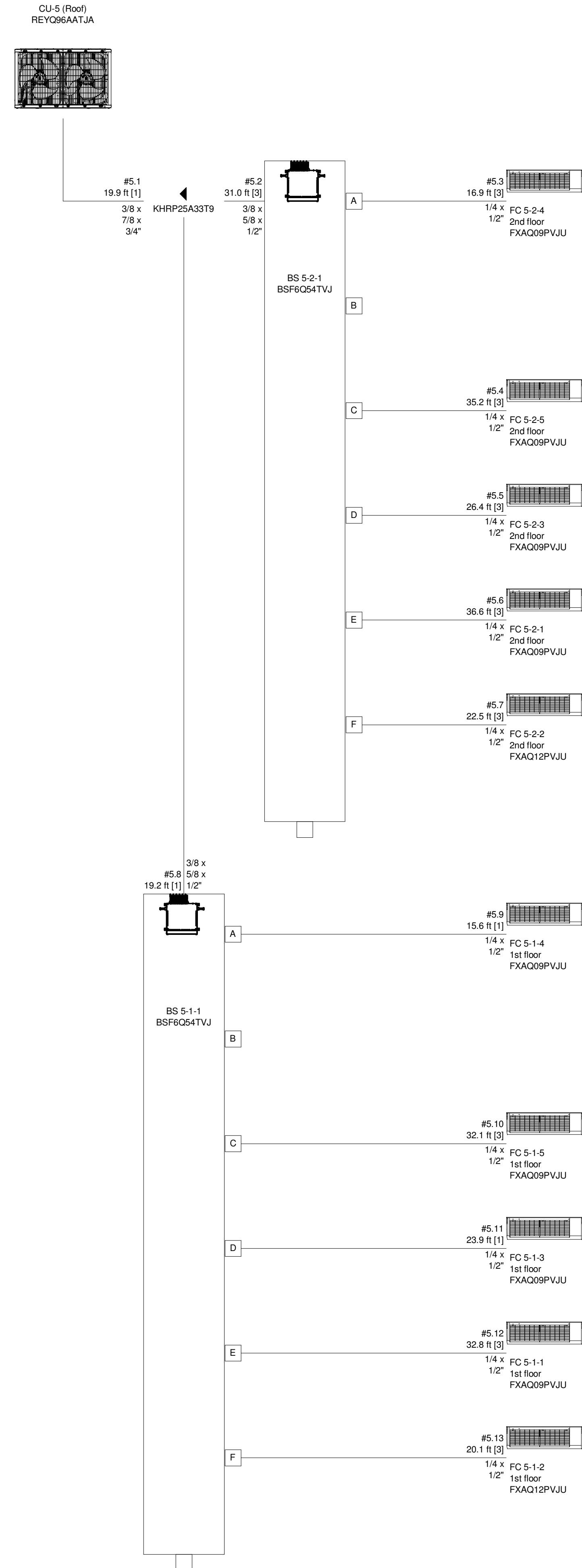
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May 5, 2022

VRV RISER
DIAGRAM - HVAC

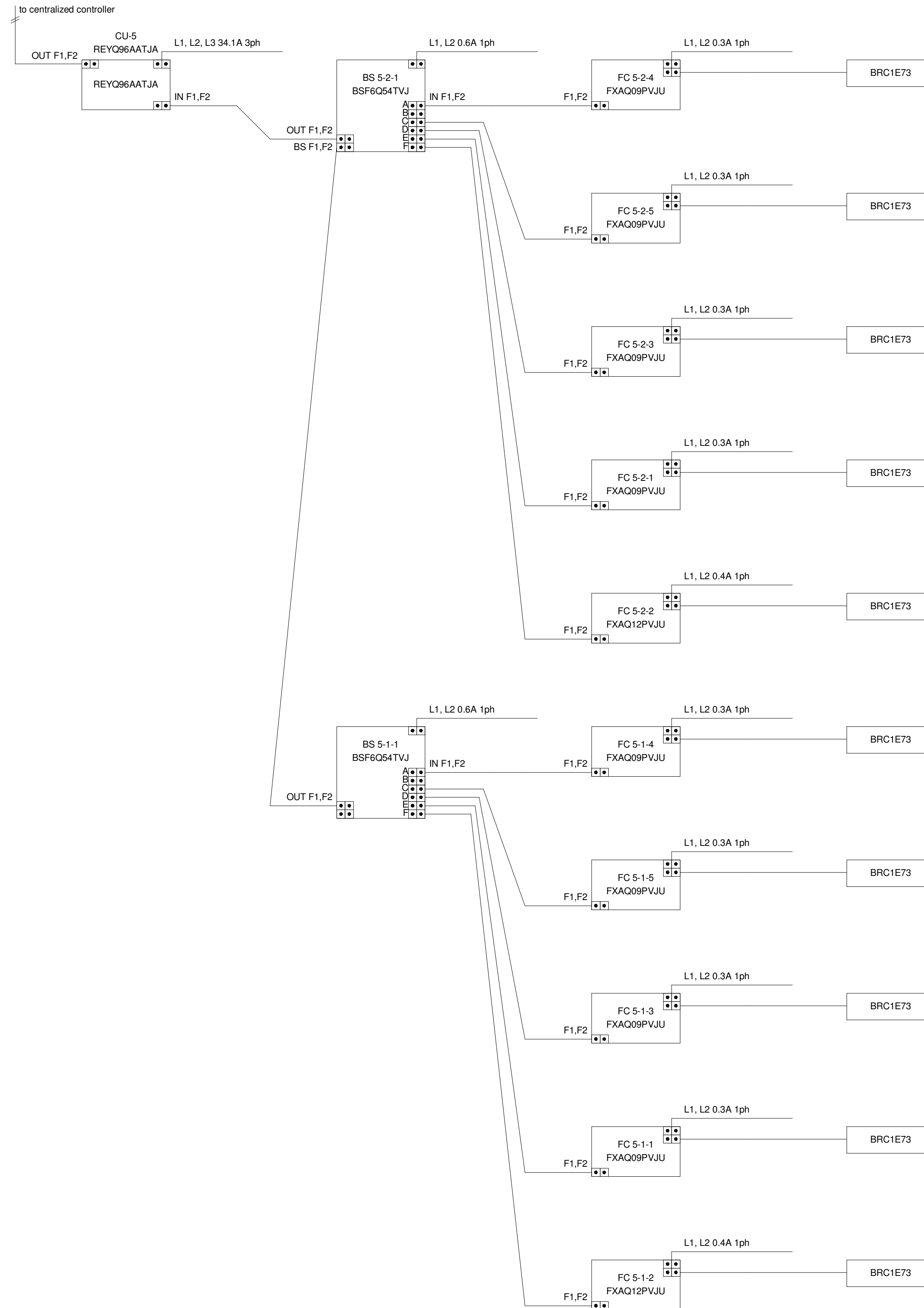
M4.04

VRF CONDENSING UNIT (CU-5)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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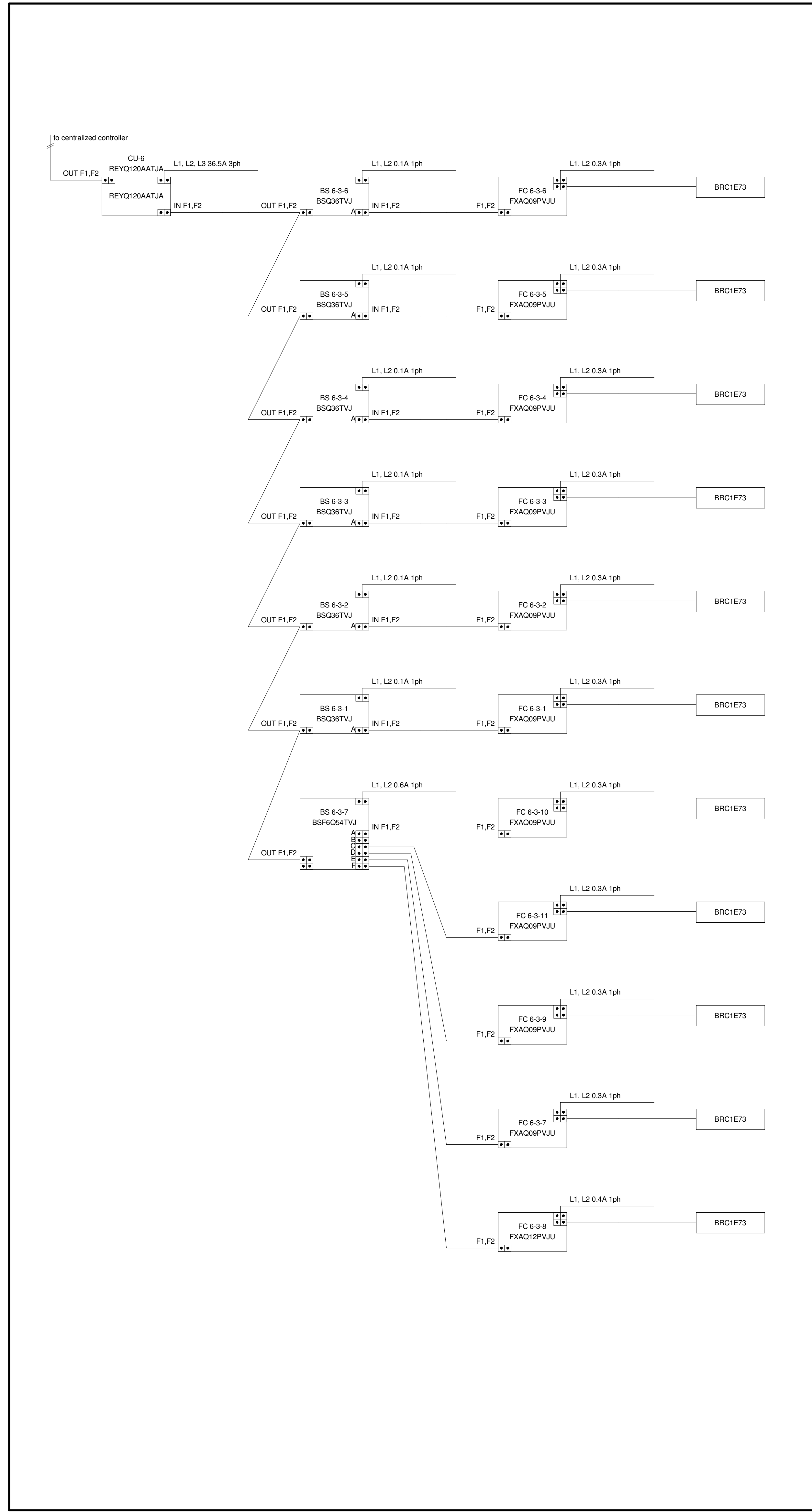
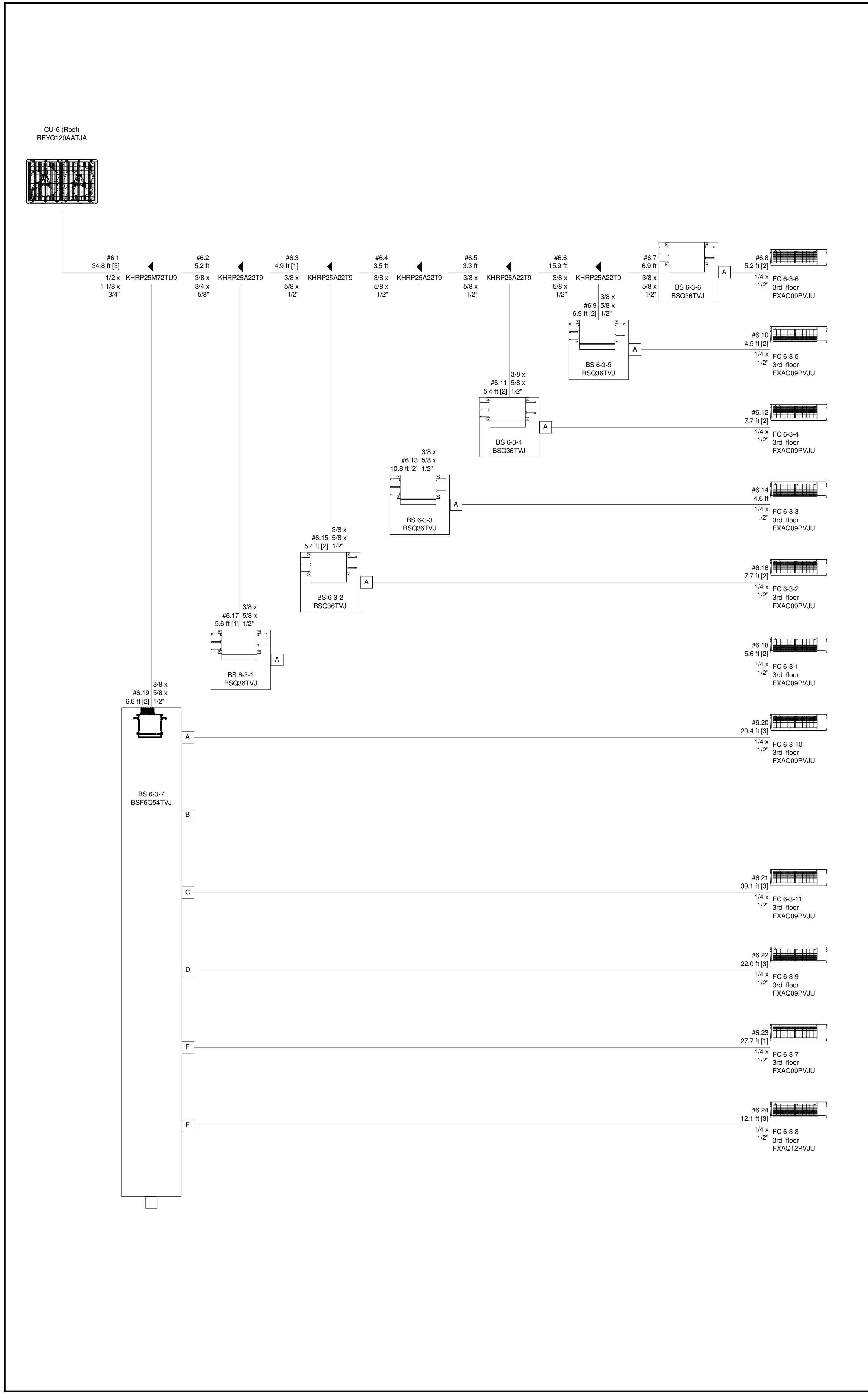
VRV RISER
DIAGRAM - HVAC

M4.05

VRF CONDENSING UNIT (CU-6)

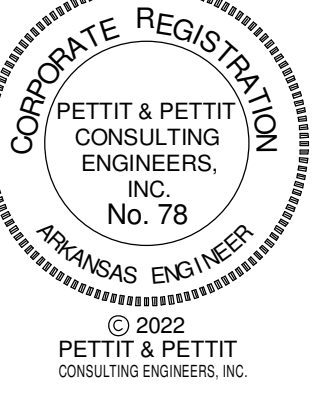
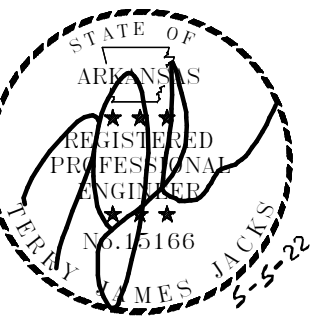
PIPING DIAGRAM

WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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VRV RISER
DIAGRAM - HVAC

M4.06

VRF CONDENSING UNIT (CU-7)

CONTRACTOR NOTE

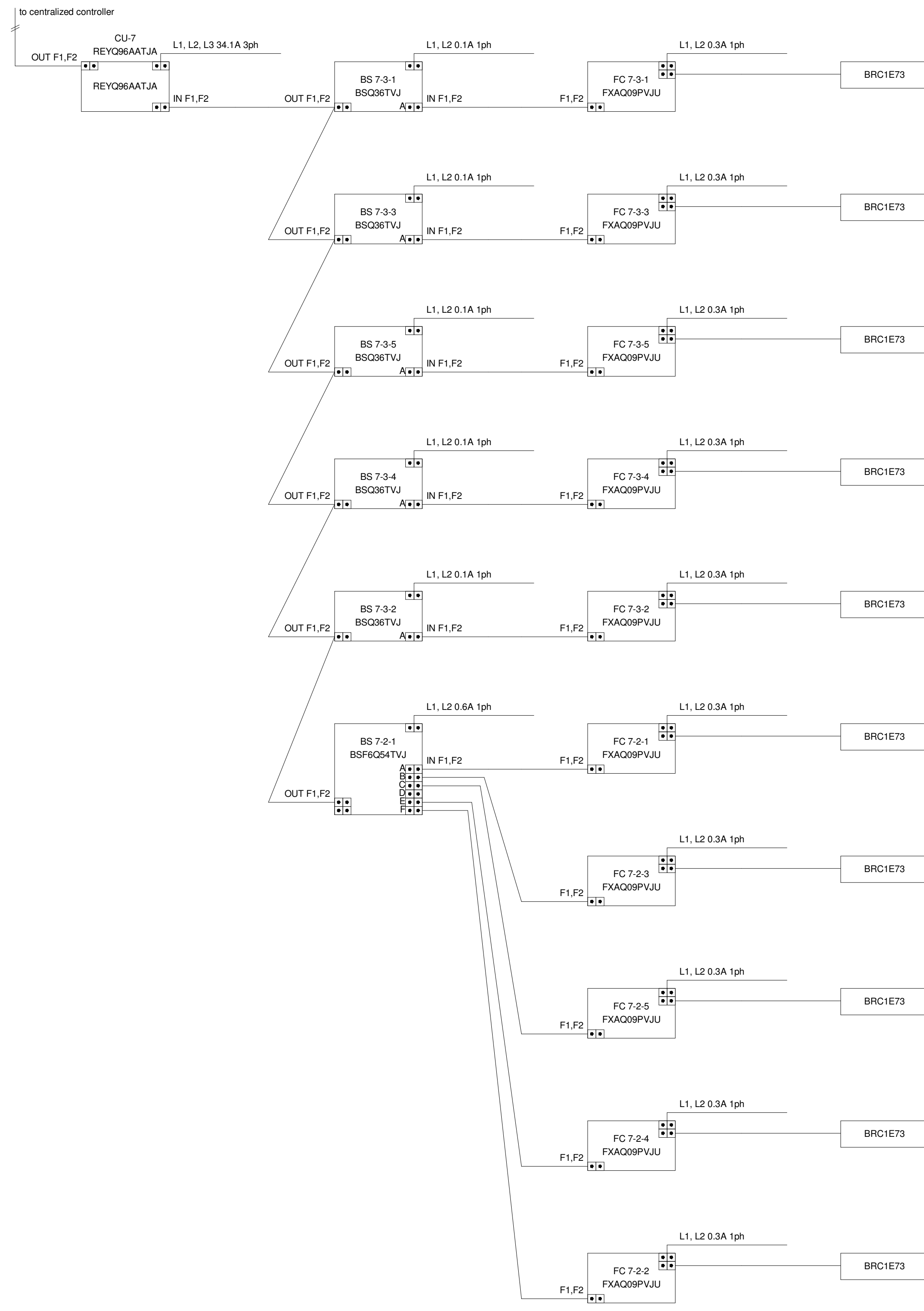
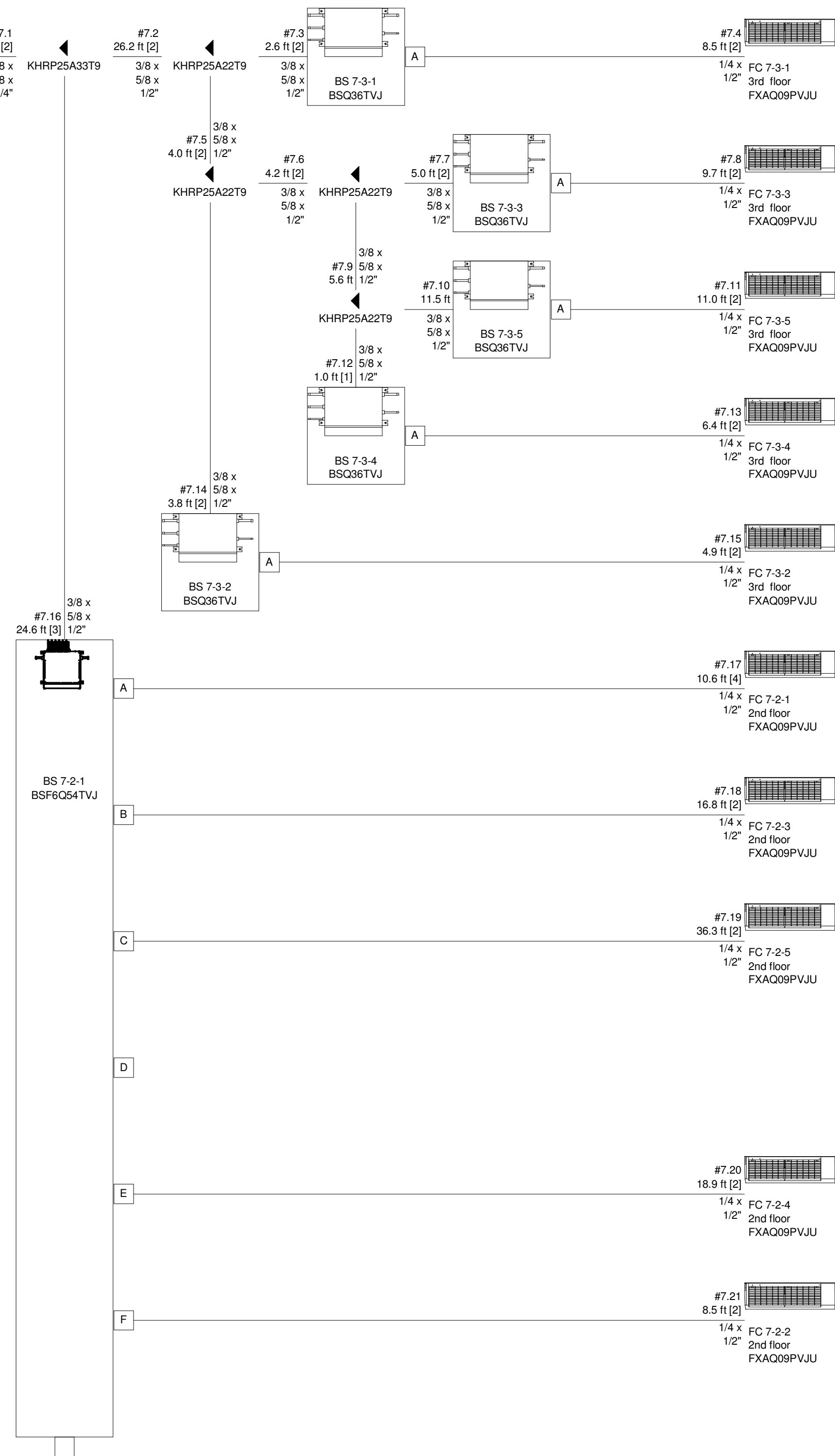
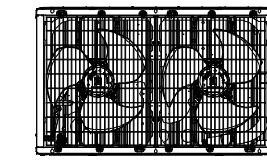
CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



PIPING DIAGRAM

WIRING DIAGRAM

CU-7 (Roof)
REY96AATJA



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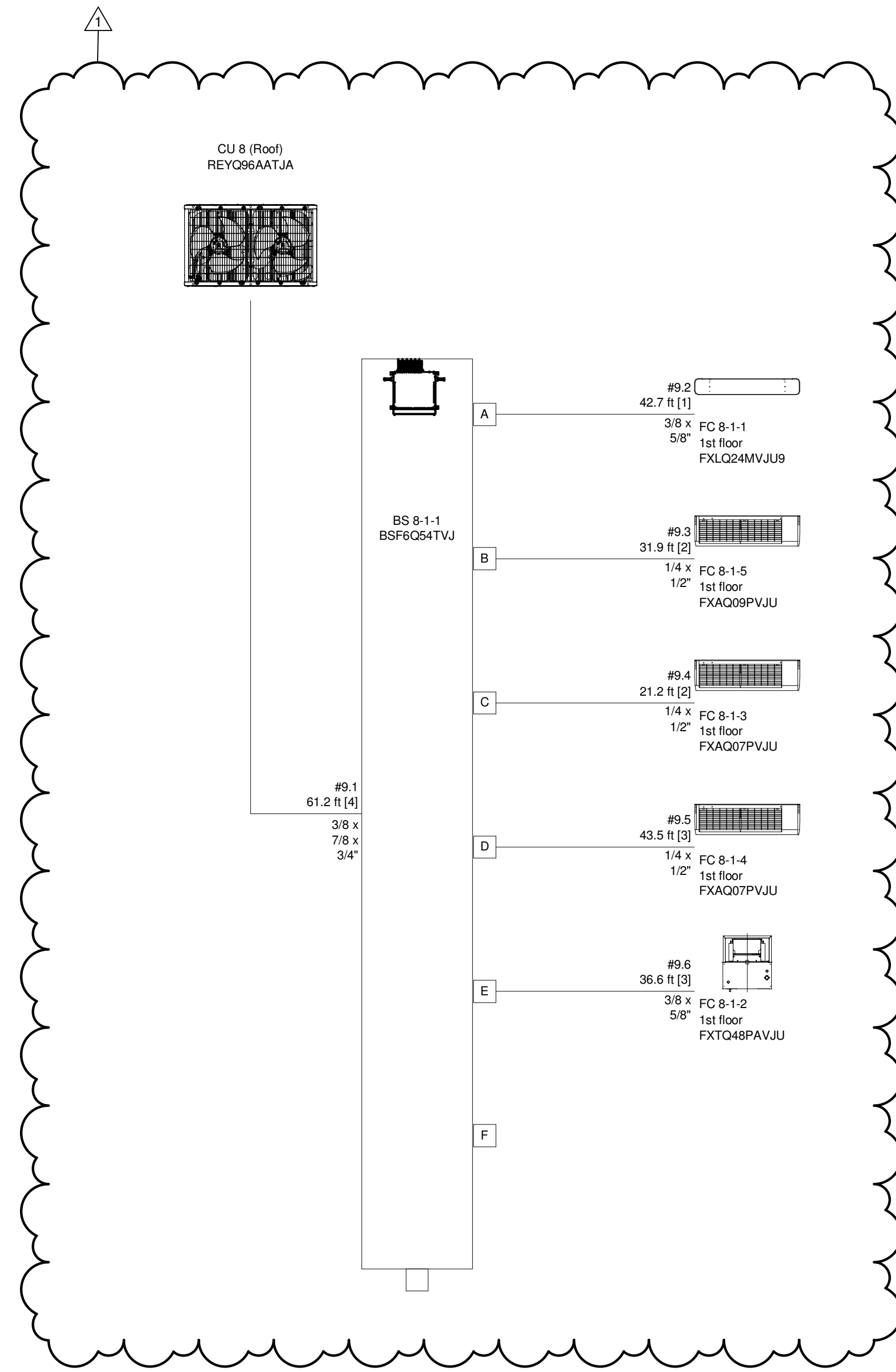
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21054
DATE:
May 5, 2022

VRV RISER
DIAGRAM - HVAC

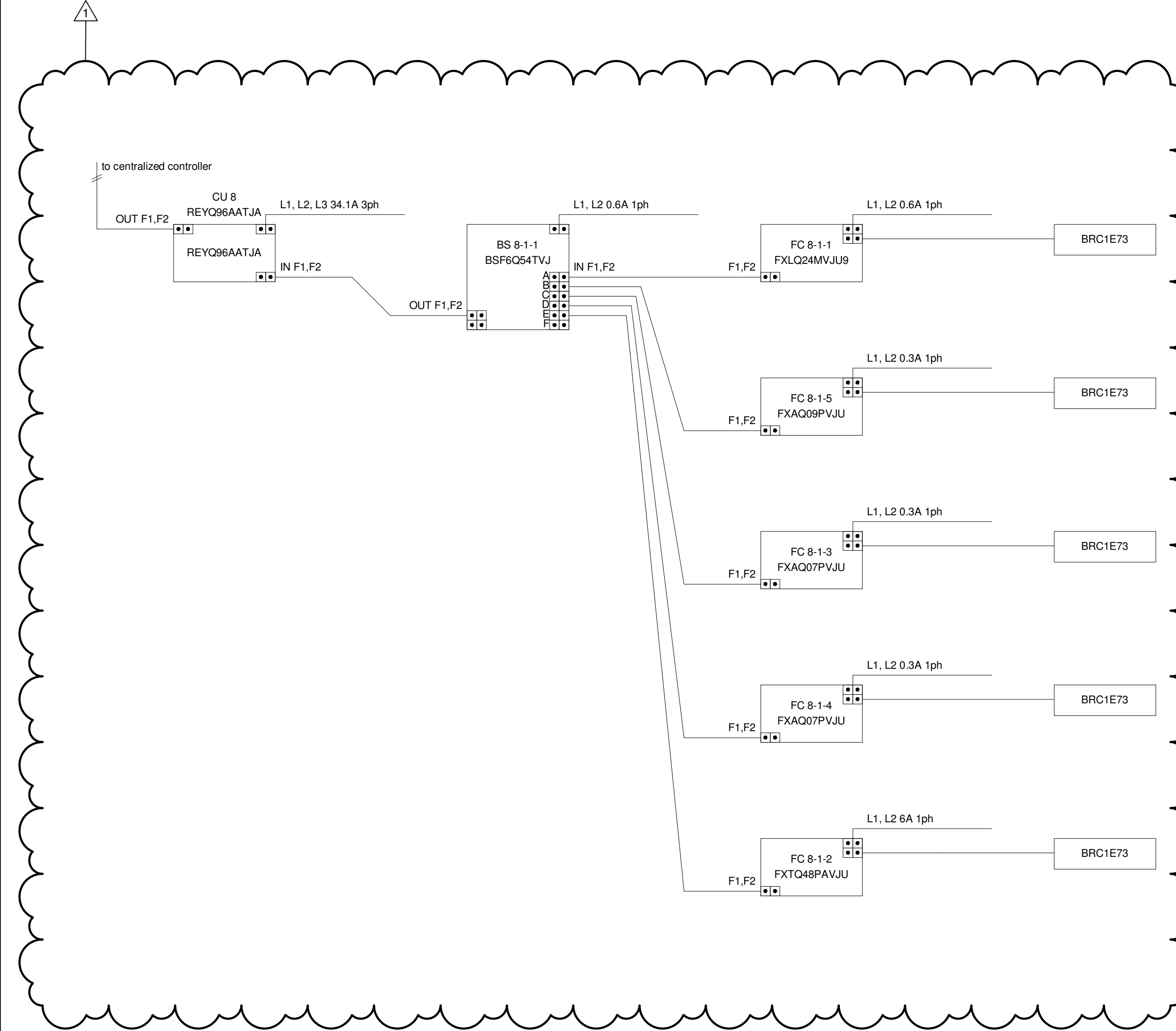
M4.07

VRF CONDENSING UNIT (CU-8)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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RISER DIAGRAM -
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VRF CONDENSING UNIT (CU-10)

PIPING DIAGRAM

WIRING DIAGRAM

CONTRACTOR NOTE

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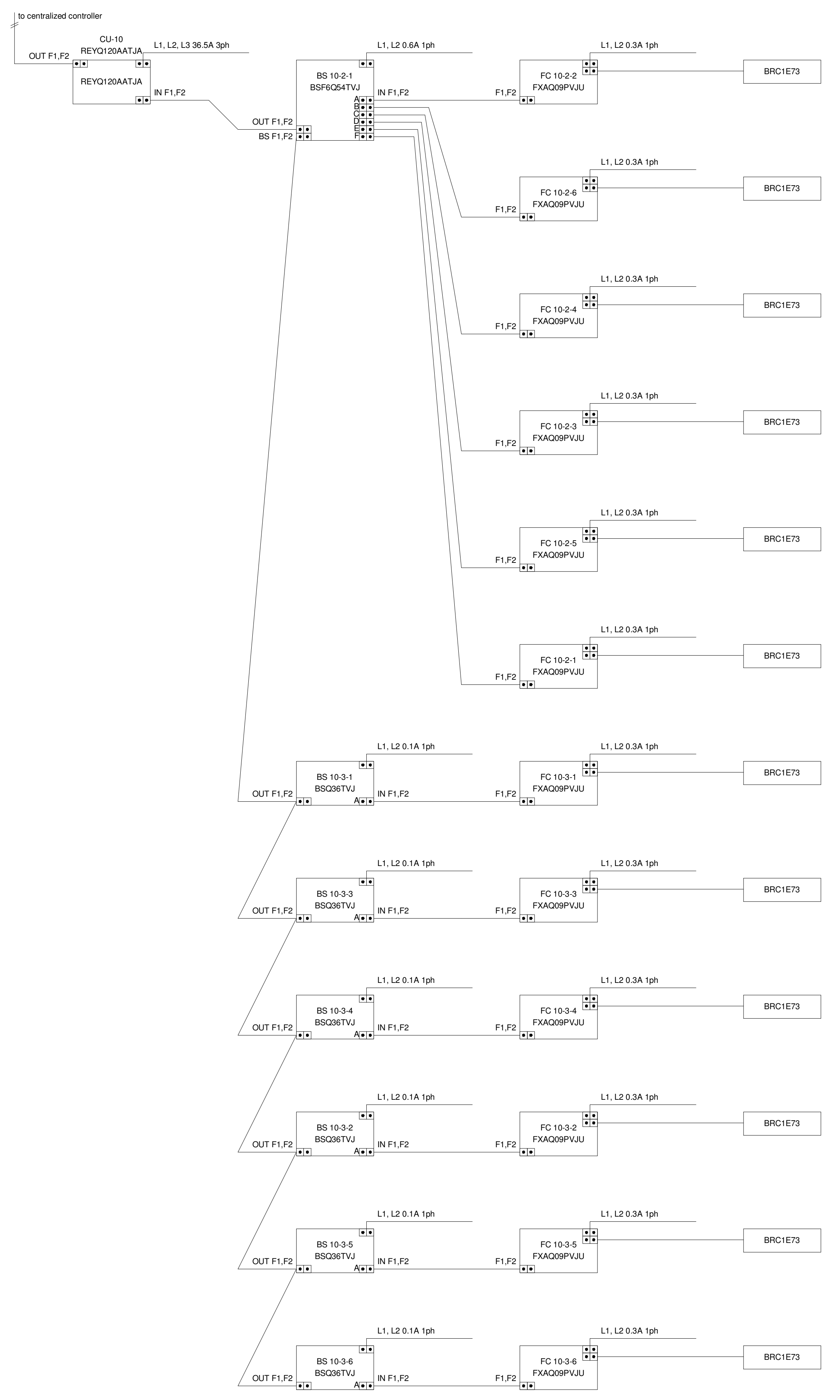
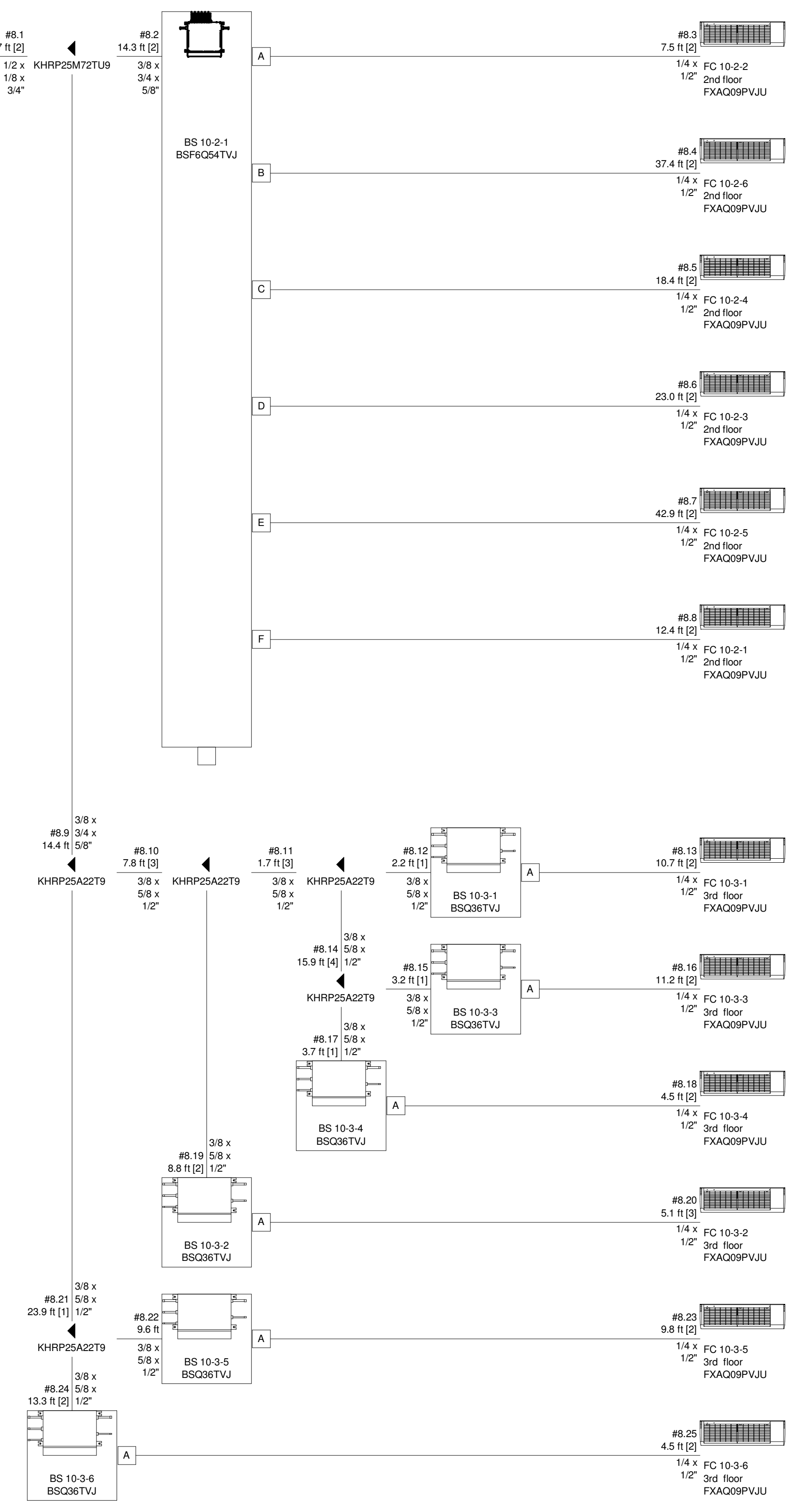
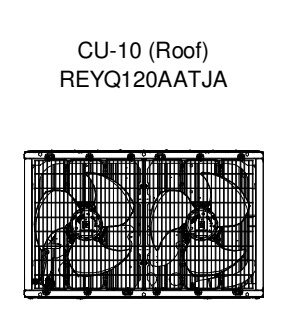
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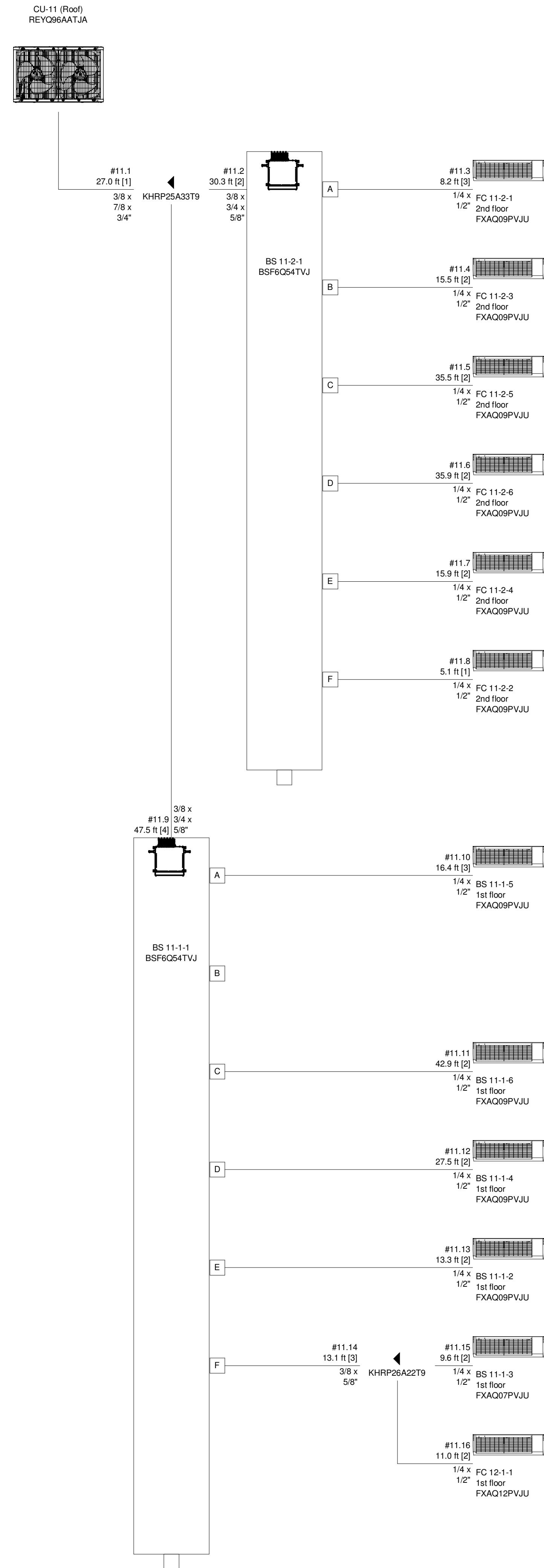
VRV RISER
DIAGRAM - HVAC

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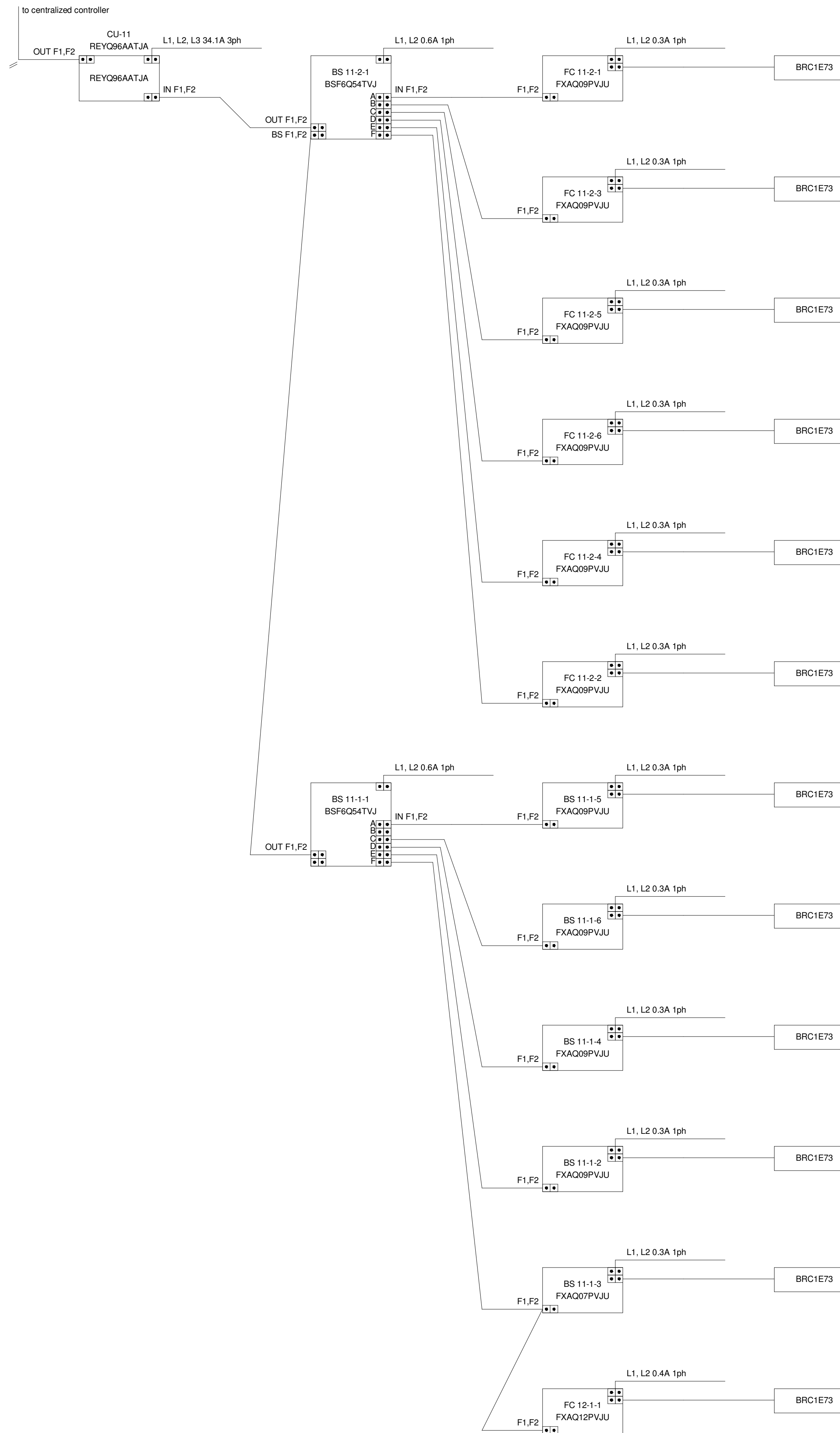


VRF CONDENSING UNIT (CU-11)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

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VRV RISER
DIAGRAM - HVAC

M4.11

VRF CONDENSING UNIT (CU-12)

PIPING DIAGRAM

WIRING DIAGRAM

CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.

SCM
ARCHITECTS PLLC

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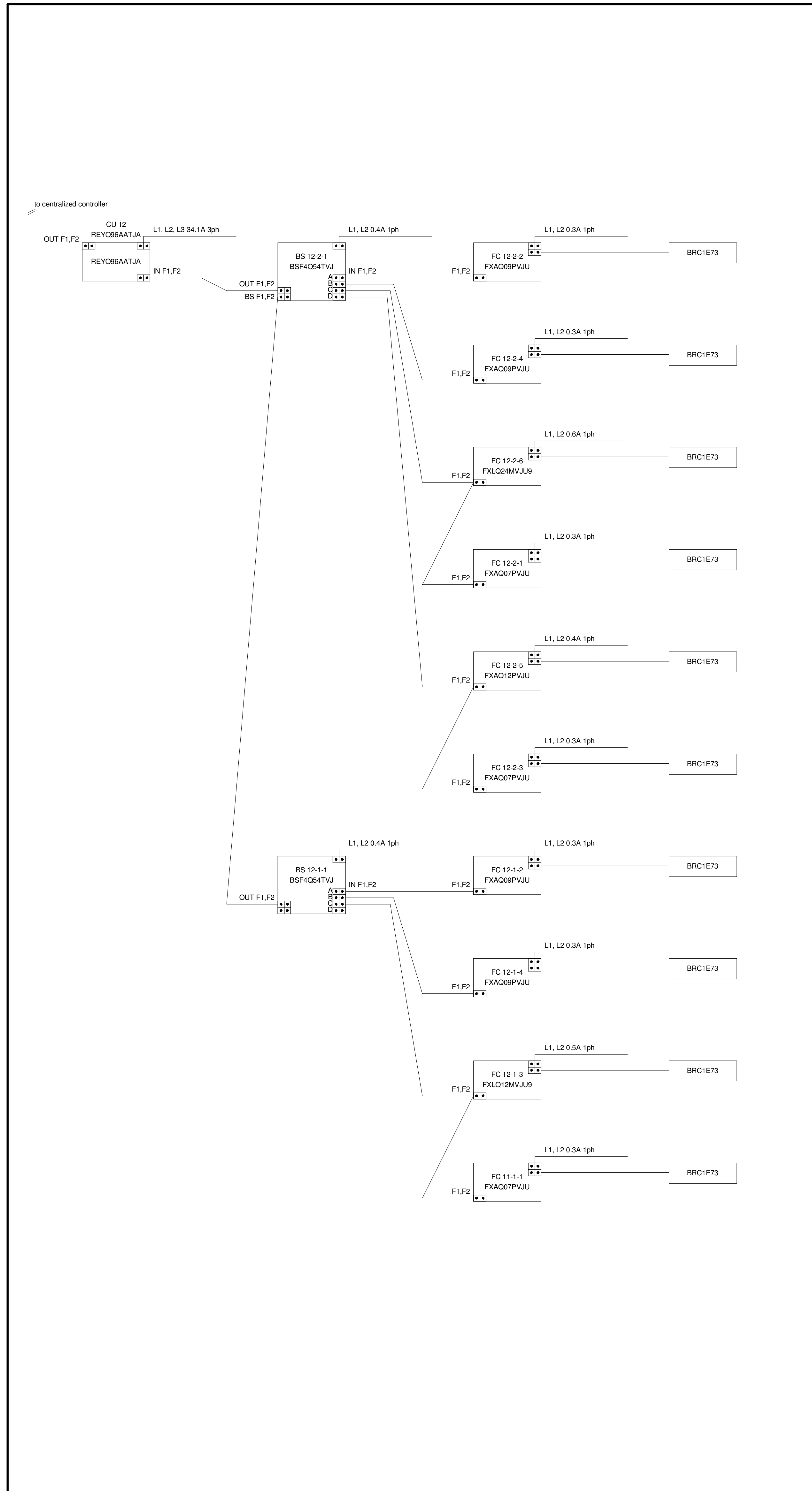
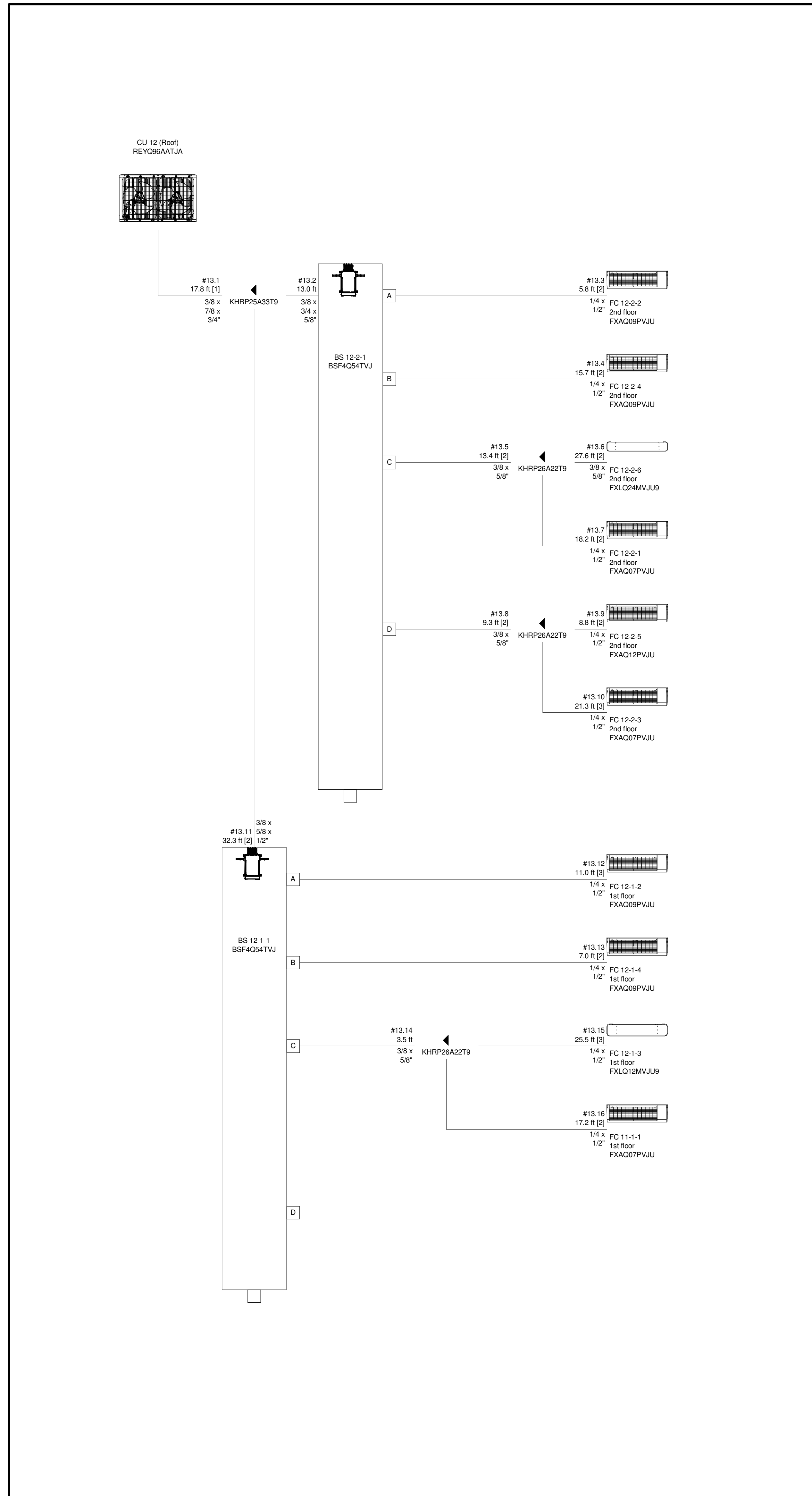
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VRV RISER
DIAGRAM - HVAC

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SCM ARCHITECTS PLLC



VRF CONDENSING UNIT (CU-13)

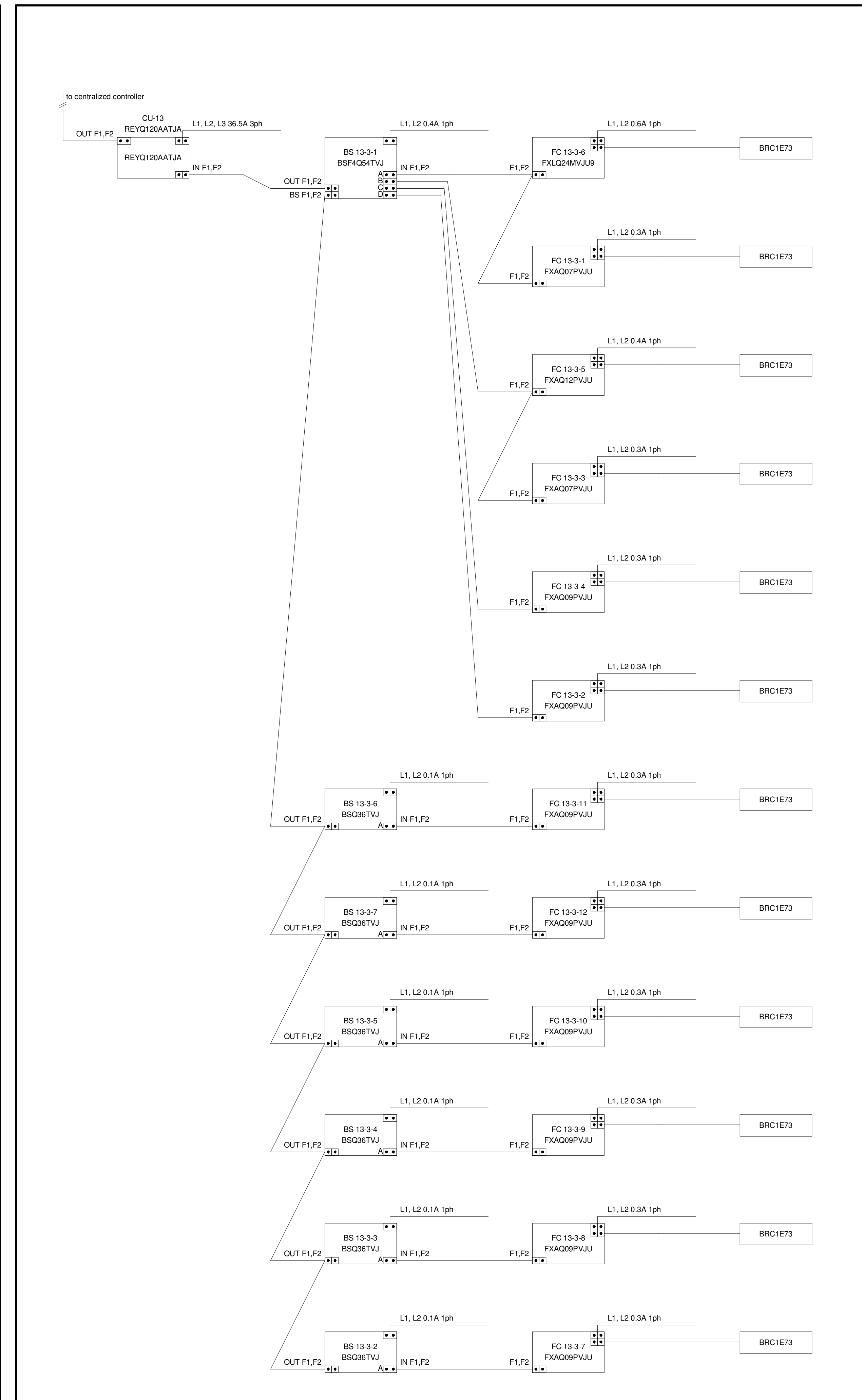
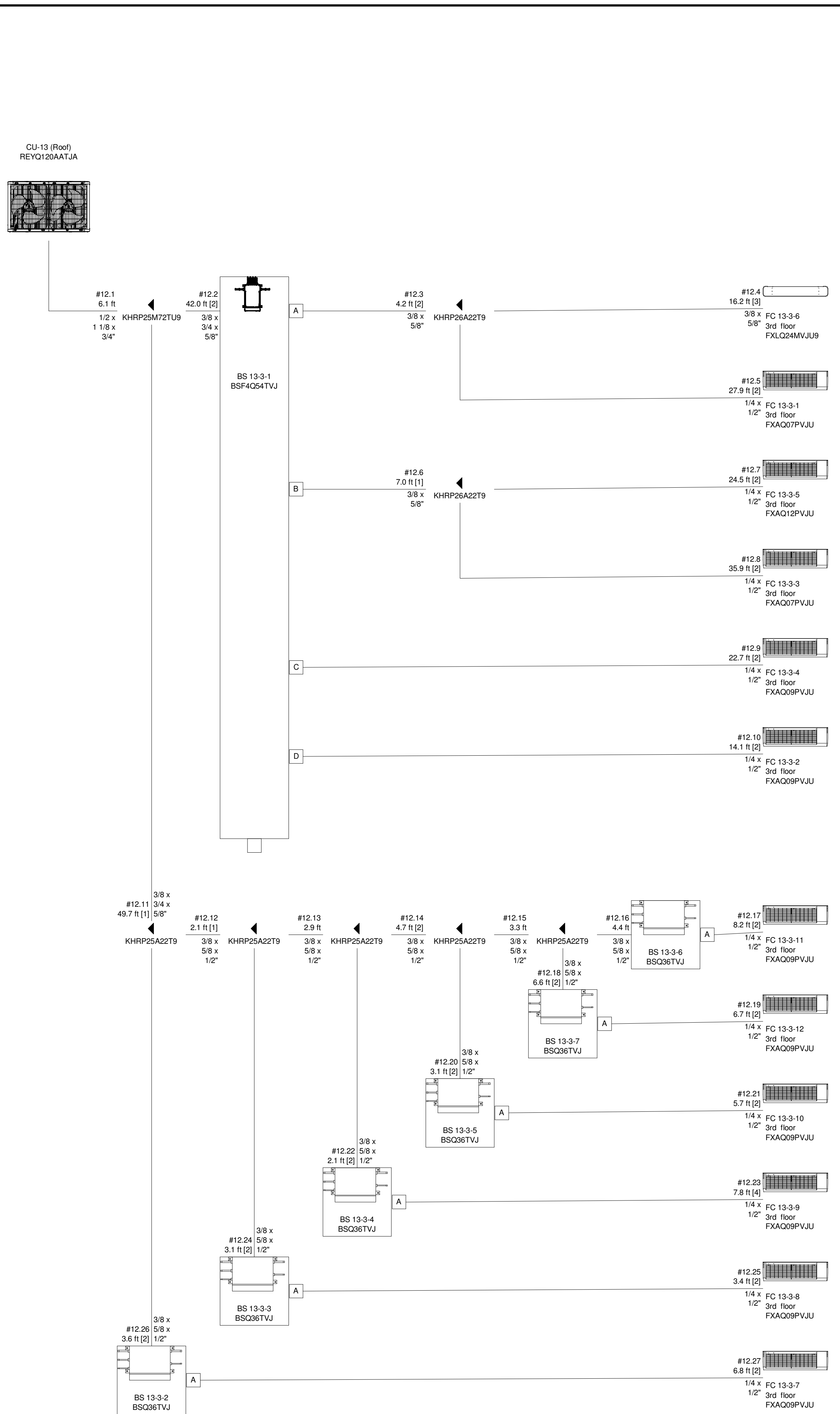
CONTRACTOR NOTE

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PIPING DIAGRAM

WIRING DIAGRAM



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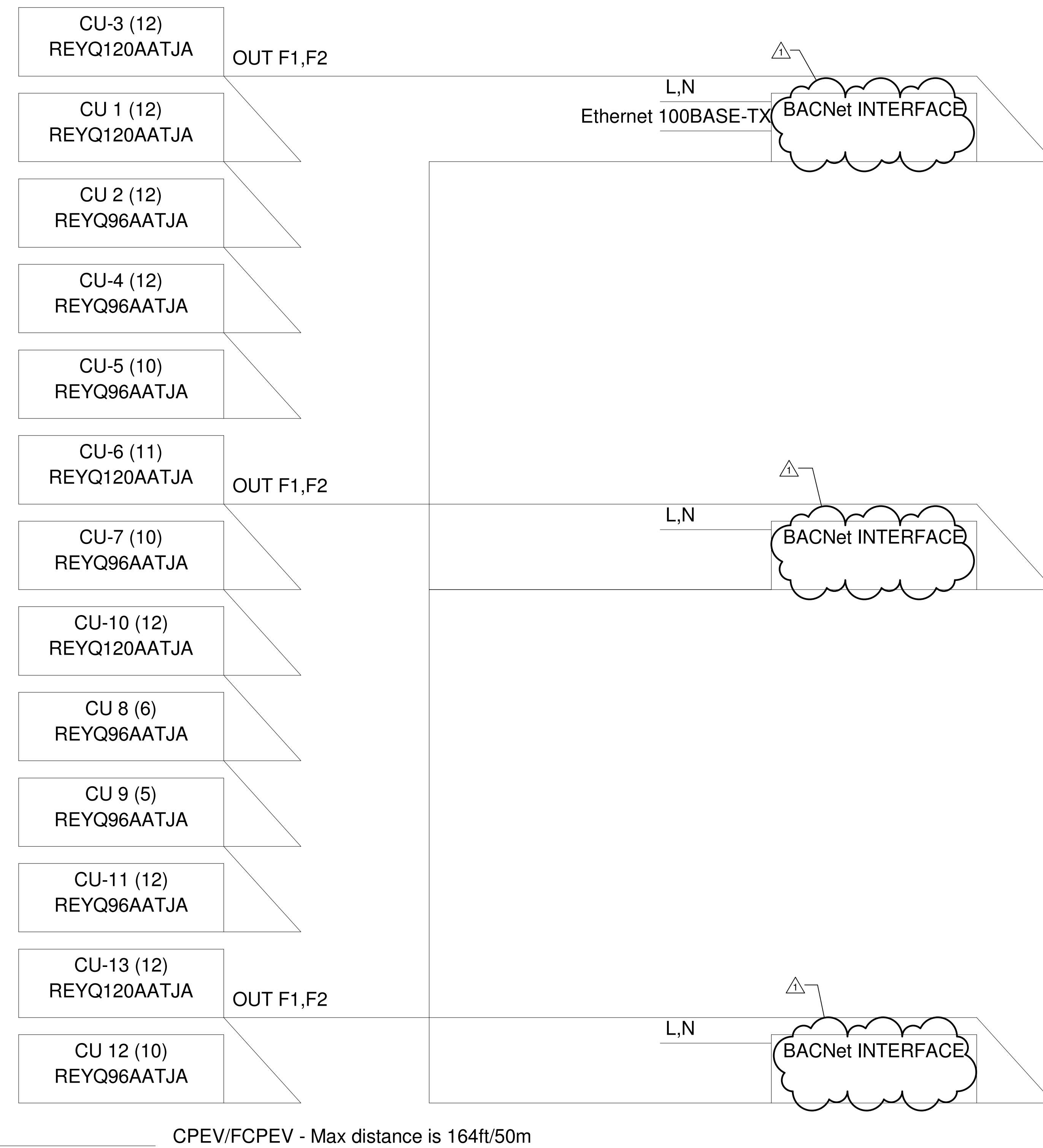
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DATE:	May 5, 2022

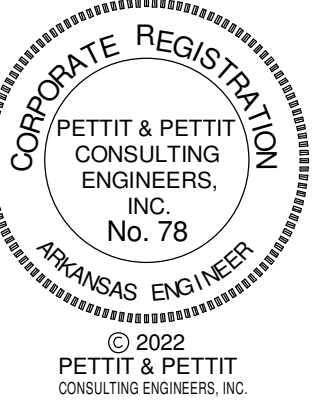
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DIAGRAM - HVAC
M4.13

VRF CONDENSOR CONTROLLER WIRING



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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PROJECT NO.
21054
DATE:
May 5, 2022

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RISER DIAGRAM -
HVAC

M4.14R

VENTILATION AIR UNIT SCHEDULE

Table with columns: DESIG., MFR/MDL, TYPE, CFM, OSA, ESP/TSP, NET COOLING (TOTAL, SENS, EAT, COIL, LAT, AMBIENT), HEATING (FUEL, INPUT, OUTPUT, EAT/LAT), H.G. REHEAT (CAPACITY, LAT), MOTOR DATA (COMPRESSOR, CONDENSOR FAN, EVAPORATOR FAN), ELECTRICAL DATA (V/PH, MCA, MOP), EER, REMARKS.

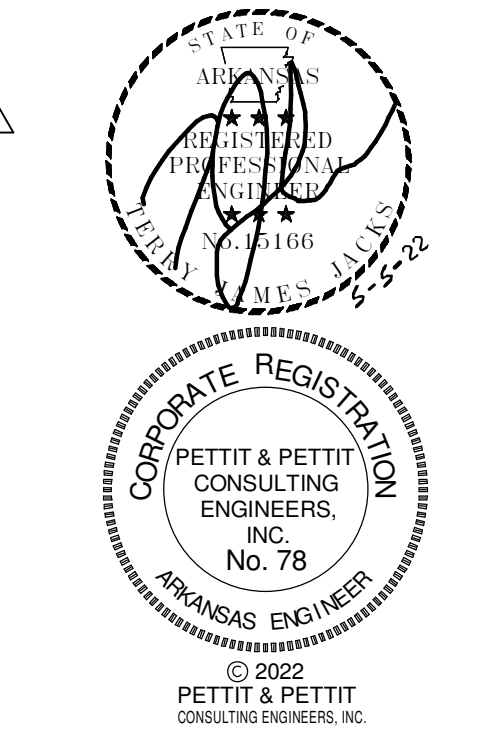


VRV BRANCH SELECTOR SCHEDULE

Table with columns: DESIG., MFR/MDL, TYPE, CU #, LBS, NO. OF PORTS, DIMENSIONS (R x H x D), CAPACITY, SOUND (dBA), ELECTRICAL DATA (MCA, MOCP, V/PH), REMARKS.

VRV CONDENSING UNIT SCHEDULE

Table with columns: DESIG., MFR/MDL, TYPE, SERVES, DIMENSIONS (W x H x D), WEIGHT, COOLING (CAPACITY, INDOOR, OUTDOOR), HEATING (CAPACITY, INDOOR, OUTDOOR), FAN DATA (TYPE / QUANTITY, CFM, KW), COMPRESSOR (TYPE, RANGE, RLA, MCA, MOCP, V / PH), ELECTRICAL DATA (MCA, MOCP, V / PH), REMARKS.



FIRST FLOOR

Table listing VRV branch selector units for the first floor, including units BS 1-1 through BS 12-1.

SECOND FLOOR

Table listing VRV branch selector units for the second floor, including units BS 1-2 through BS 12-2.

THIRD FLOOR

Table listing VRV branch selector units for the third floor, including units BS 3-1 through BS 13-7.

UNIT HEATER SCHEDULE

Table with columns: DESIG., MFR/MDL, SERVES, TYPE, CFM, FINNED LENGTH, CONTROLLER LENGTH, CABINET LENGTH, CABINET HEIGHT, CABINET DEPTH, HEATING (WATTS, BTU / HOUR), BLOWER (HP, VOLT / PHASE), ELECTRICAL (AMPS, VOLT / PHASE), REMARKS.

KITCHEN HOOD SCHEDULE

Table with columns: DESIG., MFR/MDL, SERVES, TYPE, HOOD DIMENSIONS (LENGTH, DEPTH, HEIGHT), EXHAUST (QTY, SIZE, CFM, S.P.), FAN DATA (NO., DRIVE, CFM), ELECTRICAL DATA (AMPS, VOLTS/PH), REMARKS.

EXHAUST FAN SCHEDULE

Table with columns: DESIG., MFR/MDL, SERVES, LOCAT., TYPE, FAN DATA (CFM, S.P., RPM, DRIVE, TYPE, DIA., SONES, RPM, AMPS, HP, VOLT/PH), MOTOR DATA (RPM, AMPS, HP, VOLT/PH), REMARKS.

AIR DEVICE SCHEDULE

Table with columns: DESIG., MFR./MDL., TYPE, FACE SIZE, FINISH, FREE AREA, ACCESS., REMARKS.

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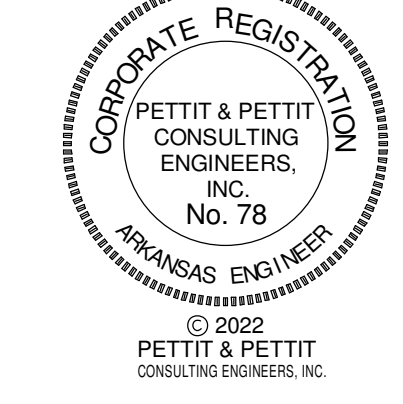
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PROJECT NO. 21054 DATE: May 5, 2022

REVISED HVAC SCHEDULES

M5.01R

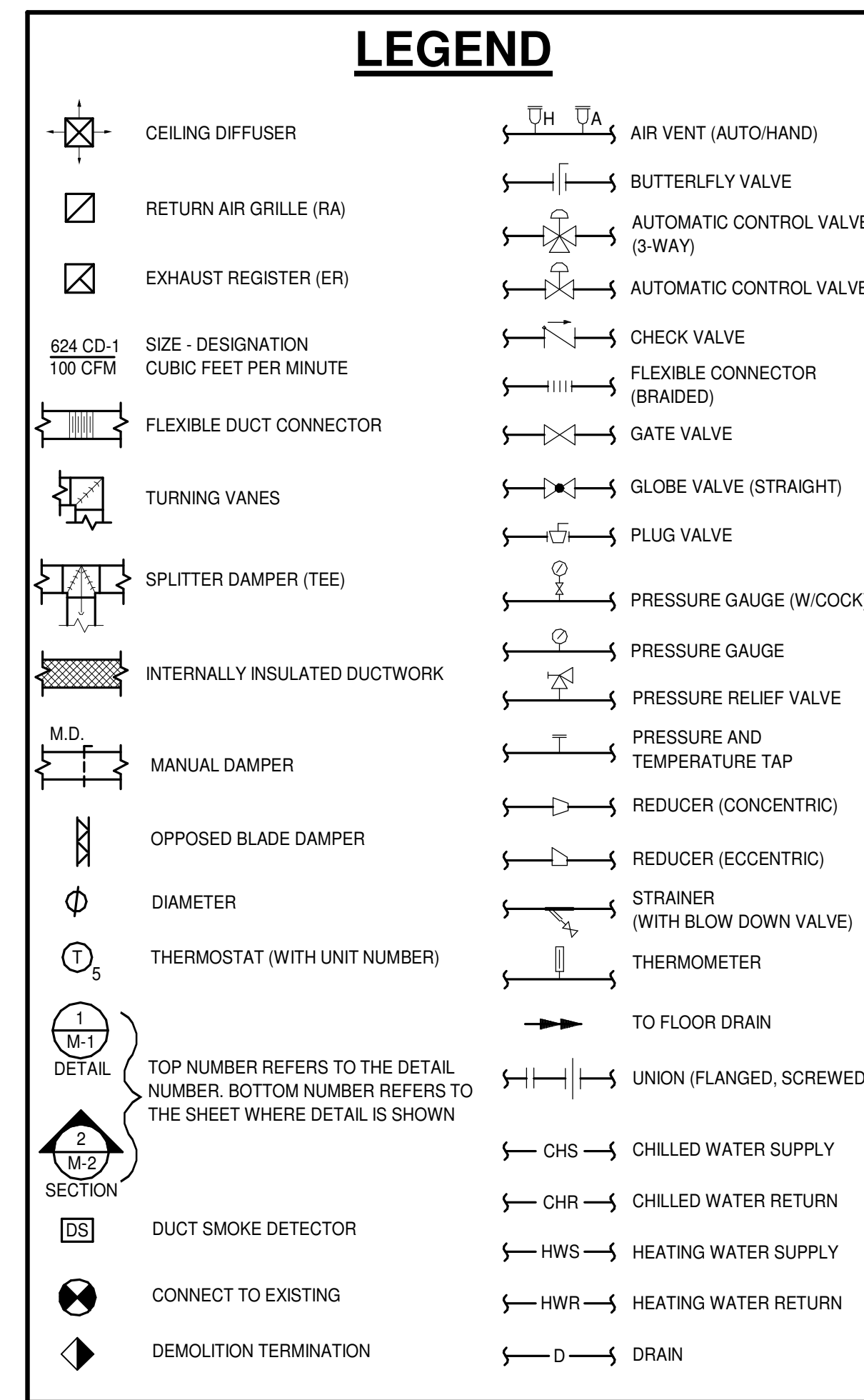


MINI-SPLIT INDOOR HEAT PUMP UNIT SCHEDULE																						
DESIG.	MFR/MDL	TYPE	LOCATION	CFM (WET)	OSA	ESP	DIMENSIONS (H x W x D)	WEIGHT	COOLING			HEATING			REFRIGERANT PIPE SIZE		ELECTRICAL DATA			REMARKS		
									CAPACITY	INDOOR	OUTDOOR	SEER	CAPACITY	INDOOR	OUTDOOR	HSPF	GAS	LIQUID	MCA		MOCP	VOLT/PHASE
MS-1	DAIKIN / FTXS09LVJU	WALL MOUNTED HEAT PUMP	L.T. (125)	381 - HIGH 279 - MED 194 - LOW 145 - LOW	--	0"	11 5/8" x 31 1/2" x 8 7/16"	20 LBS.	9.8 MBH	80° d.b. 67° w.b.	95° d.b. 79° w.b.	18	11.3 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	12.5	3/8"	1/4"	---	---	208v / 230v, 1ϕ	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.
MS-2	DAIKIN / FTXS09LVJU	WALL MOUNTED HEAT PUMP	L.T. (231)	279 - MED 194 - LOW 145 - LOW	--	0"	11 5/8" x 31 1/2" x 8 7/16"	20 LBS.	9.8 MBH	80° d.b. 67° w.b.	95° d.b. 79° w.b.	18	11.3 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	12.5	3/8"	1/4"	---	---	208v / 230v, 1ϕ	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.
MS-3	DAIKIN / FTXS09LVJU	WALL MOUNTED HEAT PUMP	L.T. (125)	279 - MED 194 - LOW 145 - LOW	--	0"	11 5/8" x 31 1/2" x 8 7/16"	20 LBS.	9.8 MBH	80° d.b. 67° w.b.	95° d.b. 79° w.b.	18	11.3 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	12.5	3/8"	1/4"	---	---	208v / 230v, 1ϕ	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.

MINI-SPLIT CONDENSING UNIT SCHEDULE																					
DESIG.	MFR/MDL	TYPE	SERVES	DIMENSIONS (H x W x D)	WEIGHT	COOLING			HEATING			FAN DATA			COMPRESSOR DATA			ELECTRICAL DATA			REMARKS
						CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	CFM / QUANTITY	FLA	KW	TYPE	RANGE	HEATER KW	MCA	MOCP	VOLT/PHASE	
MSCU-1	DAIKIN / 3MXS24RMVJUA	AIR COOLED	MS-1, 2, & 3	28 15/16" x 34 1/4" x 12 5/8"	137 LBS.	24 MBH	80° d.b. 67° w.b.	95° d.b. 79° w.b.	24.0 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	2,004 / 1	0.25	73	INVERTER	35-100%	--	21.9	25	208v / 230v, 1ϕ	0-115 DEGREE OPERATING RANGE. PROVIDE WITH UNIT DISCONNECT.

LOUVER / VENTILATOR SCHEDULE									
DESIG.	MFR./MDL.	TYPE	SERVES	CFM	S.P.	SIZE	VELOCITY FPM	REMARKS	
L-1	GREEHECK / EHR-701	FIXED DRAINABLE	MECH. / PLUMB. (114)	600	0.044	36" W X 20" H	404	PROVIDE W/ BIRD SCREEN. COLOR BY ARCHITECT.	
QV-1	GREEHECK / FGI	GRAVITY VENTILATOR	DRYER EXHAUST MAKEUP	2,640	0.046	24" W X 36" L	440	PROVIDE ROOF CURB, GRAVITY BACKDRAFT DAMPER, & BIRDSCREEN	

- ### HVAC GENERAL NOTES
1. DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
 2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
 3. FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.
 4. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
 5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
 6. PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.
 7. PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
 8. EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
 9. EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE.
 10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK.
 11. DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN WALLS.
 12. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
 13. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
 14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
 15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
 16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
 17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
 18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
 19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
 20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.



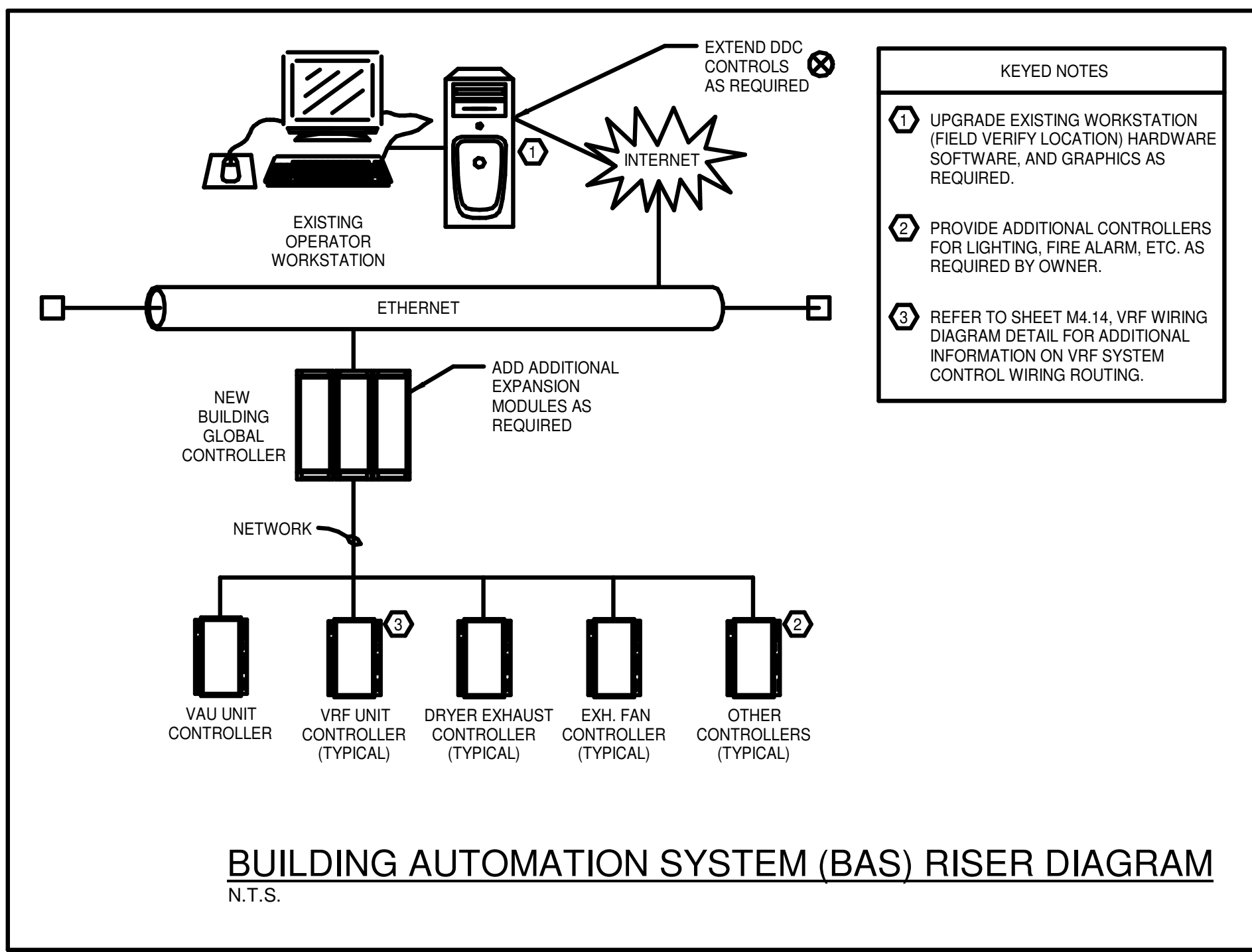
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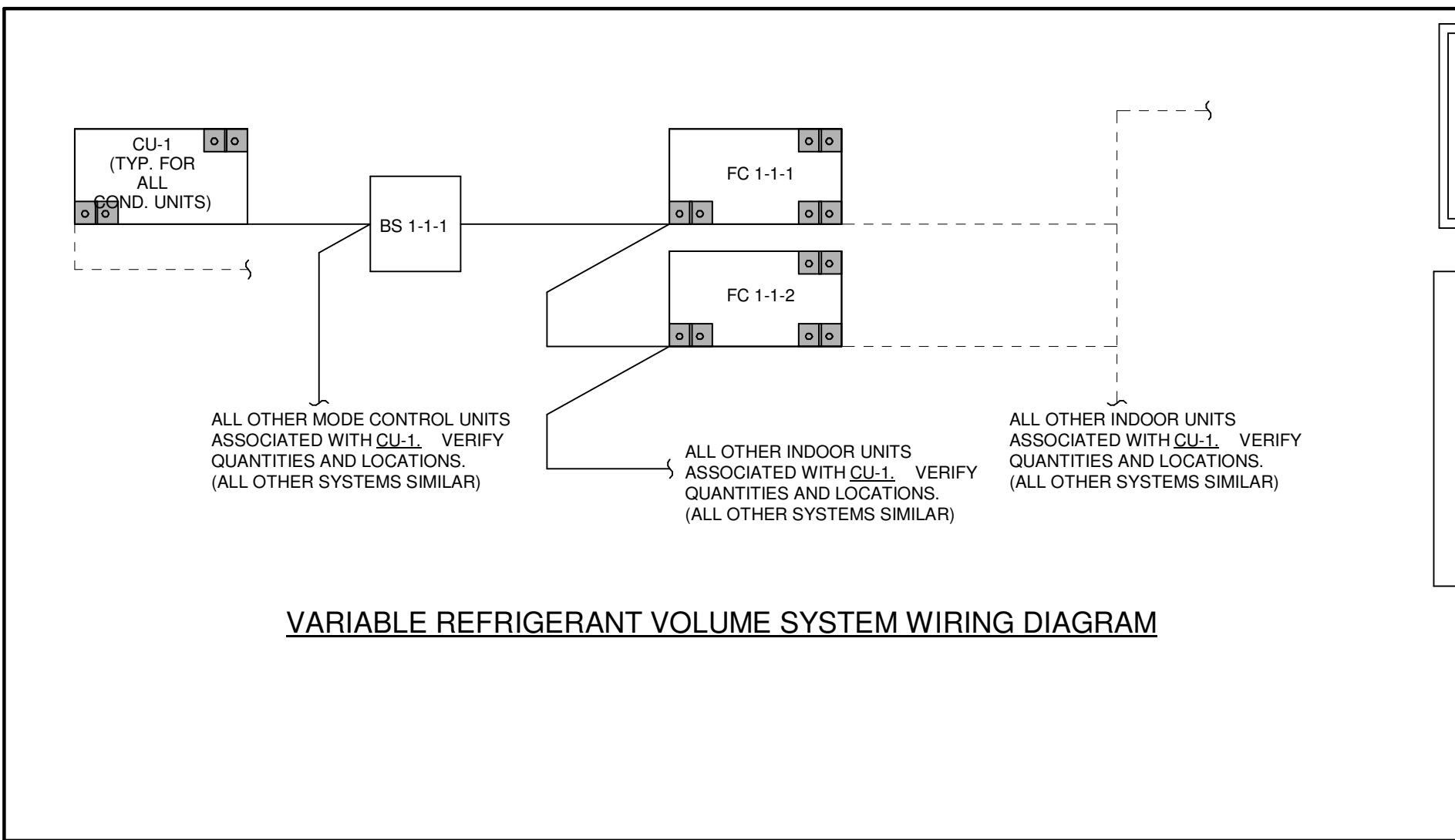
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PROJECT NO.
21054
DATE:
May 5, 2022

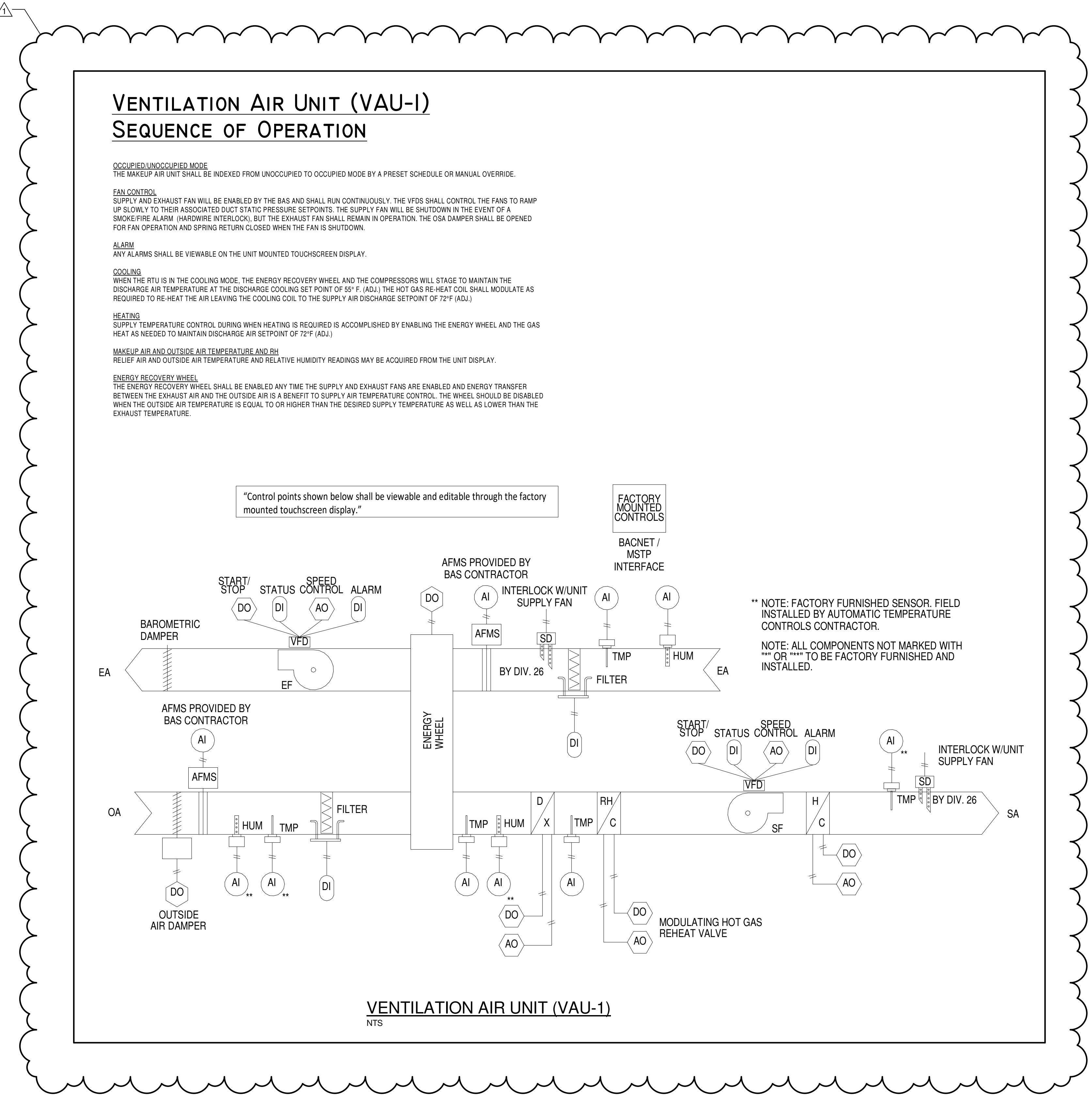
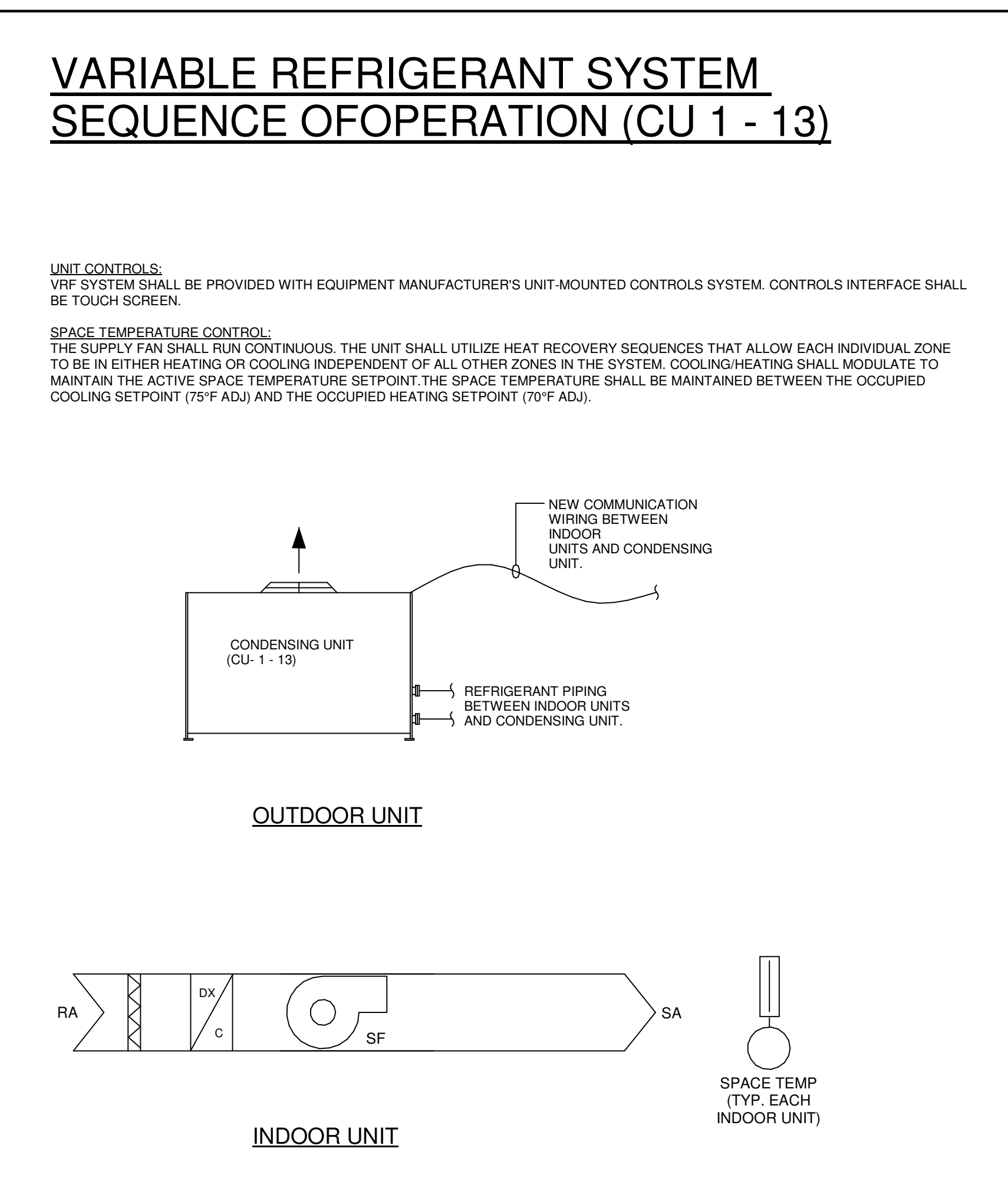
HVAC SCHEDULES
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- KEYED NOTES**
- 1 UPGRADE EXISTING WORKSTATION (FIELD VERIFY LOCATION) HARDWARE SOFTWARE, AND GRAPHICS AS REQUIRED.
 - 2 PROVIDE ADDITIONAL CONTROLLERS FOR LIGHTING, FIRE ALARM, ETC. AS REQUIRED BY OWNER.
 - 3 REFER TO SHEET M4.14, VRF WIRING DIAGRAM DETAIL FOR ADDITIONAL INFORMATION ON VRF SYSTEM CONTROL WIRING ROUTING.



- NOTES:**
1. COMMUNICATION AND THERMOSTAT WIRING FOR VRF SYSTEMS SHALL BE PROVIDED AND INSTALLED BY EQUIPMENT SUPPLIER'S CONTRACTOR. INSTALLATION AND IMPLEMENTATION SHALL BE COORDINATED WITH OWNER'S BAS CONTRACTOR.
- WIRING LEGEND**
- LOW VOLTAGE WIRING (BY EQUIPMENT SUPPLIER'S CONTRACTOR)
 - - - LINE VOLTAGE WIRING (BY ELECTRICAL CONTRACTOR)



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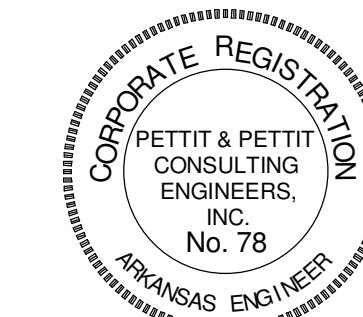
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REVISED HVAC
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PLUMBING GENERAL NOTES

- THE CONTRACTOR SHALL PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.
- HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.

WATER CLOSET	1"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
CLINICAL SINK	1-1/4" & 1/2"
ICE MACHINE	1/2"
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2"
HOSE BIBB	3/4"
EMERGENCY SHOWER EYEWASH	1-1/4"
- INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)
- ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.
- ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH 6" (24" X 24" SIZE) FLASHING WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS - USE MANUFACTURED RUBBER BOOT WITH STAINLESS STEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.
- FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.
- WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.
- WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.
- CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL PLANS.
- PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.
- PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.
- TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20'). DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS - USE VACUUM BREAKER TRAP PRIMER - SLOAN "TP" - MODEL VBF-72A - EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.
- COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES
- ALL JANITORS ROOMS SHALL HAVE FLOOR DRAINS.
- ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR CLEANOUT)
- ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.
- INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS.
- TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) - MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING - VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION		
	SOIL, WASTE, OR SANITARY SEWER		UNION
SS	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
-----	SANITARY VENT	RD	ROOF DRAIN
CWV	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
W	WATER (ON SITE)	VTR	VENT THRU ROOF
---	COLD WATER	HB	HOSE BIBB
---	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
---	HOT WATER RETURN	CO	CLEANOUT PLUG
SD	STORM DRAIN	FCO	FLOOR CLEANOUT
D	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
G	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE		DENOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE		RISER DESIGNATION
	CHECK VALVE		NEW CONNECTION TO EXISTING
	BALL VALVE		EXISTING PIPING TO BE REMOVED OR ABANDONED
	PLUG COCK - GAS COCK		EXISTING PIPING TO REMAIN
	PRESSURE REDUCING VALVE		CAP AND SEAL AIR OR WATER TIGHT
	STRAINER		TERMINATION POINT OF DEMOLITION

FIXTURE LEGEND

SYMBOL	DESCRIPTION
	NEW FIXTURE
	ROUGH IN AND FINAL CONNECT ONLY
	EXISTING FIXTURE TO REMAIN
	EXISTING FIXTURE TO BE REMOVED
	EXISTING FIXTURE (RELOCATED, OR REPAIRED - SEE NOTES)

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PLUMBING
GENERAL NOTES
AND LEGENDS

P0.00

ABATEMENT SCOPE COORDINATION NOTES

OWNER WILL HAVE SELECTIVE DEMOLITION PERFORMED IN SEPARATE ABATEMENT SCOPE OUTSIDE THIS CONTRACT. PLUMBING FIXTURES AND ABOVE SLAB DOMESTIC CW & HW WILL BE REMOVED THROUGHOUT THE PROJECT. ABOVE SLAB SANITARY SEWER, VENT, AND STORM DRAIN PIPING WILL REMAIN IN THE ABATEMENT SCOPE AND WILL BE DEMOLISHED AS NOTED IN THIS PROJECT.

GENERAL PLUMB. DEMO. NOTES

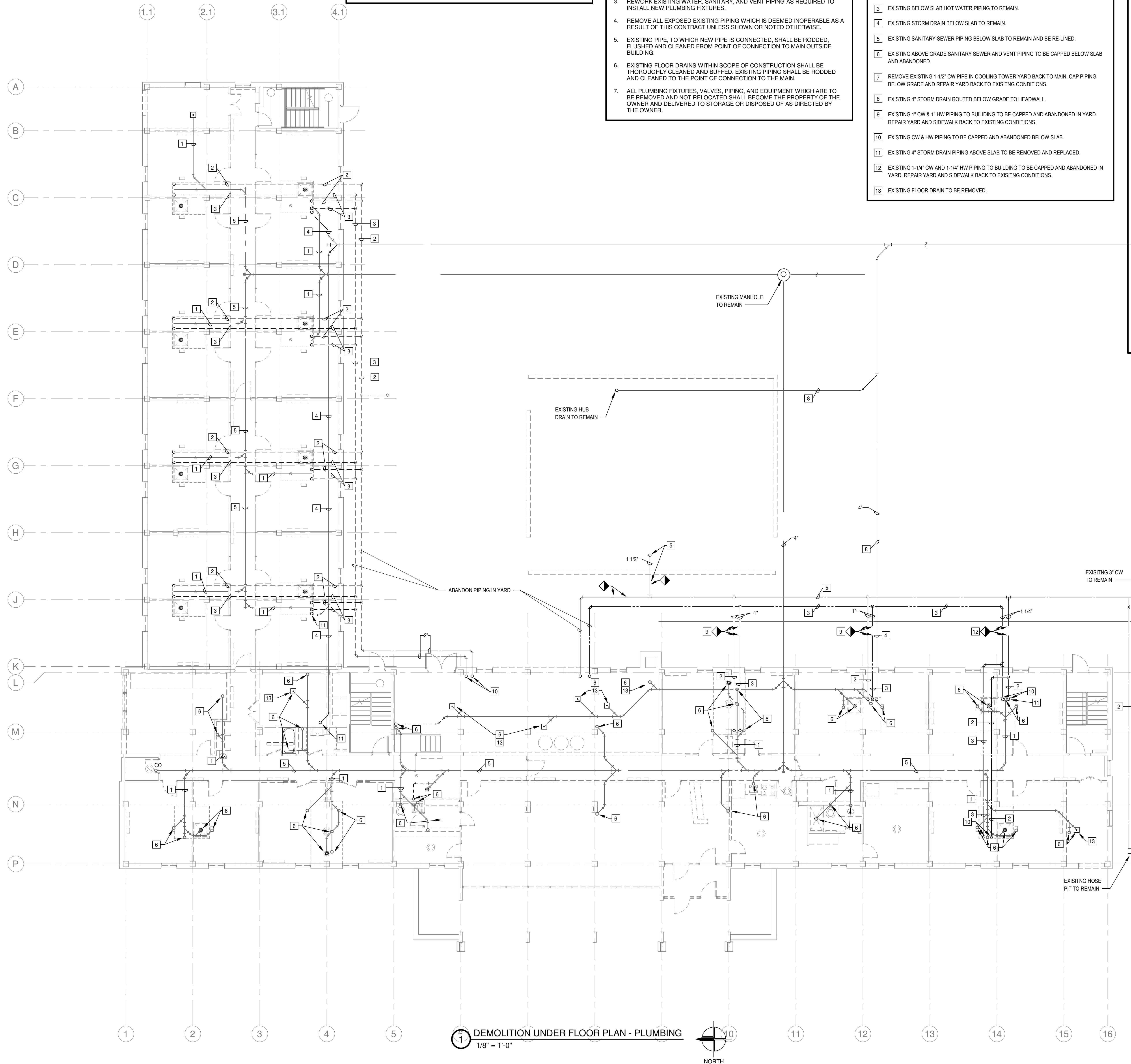
- FIELD VERIFY EXISTING PLUMBING FIXTURE LOCATIONS, TYPE, ETC. VERIFY EXISTING PLUMBING PIPING LOCATIONS, SIZES, ETC.
- CUT WALLS, FLOORS OR CEILINGS AS REQUIRED TO INSTALL NEW PIPING. ALL FURRING AND REPAIRING SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- REWORK EXISTING WATER, SANITARY, AND VENT PIPING AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES.
- REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE.
- EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
- EXISTING FLOOR DRAINS WITHIN SCOPE OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND BUFFED. EXISTING PIPING SHALL BE RODDED AND CLEANED TO THE POINT OF CONNECTION TO THE MAIN.
- ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

- REUSE EXISTING SAN SEWER FOR CONDENSATE DRAIN.
- EXISTING BELOW SLAB COLD WATER PIPING TO REMAIN.
- EXISTING BELOW SLAB HOT WATER PIPING TO REMAIN.
- EXISTING STORM DRAIN BELOW SLAB TO REMAIN.
- EXISTING SANITARY SEWER PIPING BELOW SLAB TO REMAIN AND BE RE-LINED.
- EXISTING ABOVE GRADE SANITARY SEWER AND VENT PIPING TO BE CAPPED BELOW SLAB AND ABANDONED.
- REMOVE EXISTING 1-1/2" CW PIPE IN COOLING TOWER YARD BACK TO MAIN. CAP PIPING BELOW GRADE AND REPAIR YARD BACK TO EXISTING CONDITIONS.
- EXISTING 4" STORM DRAIN ROUTED BELOW GRADE TO HEADWALL.
- EXISTING 1" CW & 1" HW PIPING TO BUILDING TO BE CAPPED AND ABANDONED IN YARD. REPAIR YARD AND SIDEWALK BACK TO EXISTING CONDITIONS.
- EXISTING CW & HW PIPING TO BE CAPPED AND ABANDONED BELOW SLAB.
- EXISTING 4" STORM DRAIN PIPING ABOVE SLAB TO BE REMOVED AND REPLACED.
- EXISTING 1-1/4" CW AND 1-1/4" HW PIPING TO BUILDING TO BE CAPPED AND ABANDONED IN YARD. REPAIR YARD AND SIDEWALK BACK TO EXISTING CONDITIONS.
- EXISTING FLOOR DRAIN TO BE REMOVED.

GENERAL DEMO. NOTES

- GENERAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
- OBTAIN ALL REQUIRED PERMITS FROM THE PROPER AUTHORITIES.
- NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF EXISTING UTILITY LINES INCLUDING BUT NOT LIMITED TO ELECTRICAL UTILITIES, DOMESTIC WATER, SANITARY SEWER, NATURAL GAS, CABLE TV, TELEPHONE AND INTERNET. CONTRACTOR SHALL PROTECT EXISTING UTILITY LINES.
- CONFORM TO APPLICABLE CODE FOR DEMOLITION WORK, SAFETY OF STRUCTURE, DUST CONTROL, AND ITEMS STORED WITHIN THE STRUCTURE.
- CONFORM TO APPLICABLE REGULATORY PROCEDURES IF HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED.
- DRAWINGS SHOWING EXISTING CONSTRUCTION AND UTILITIES ARE BASED ON SURVEY PROVIDED BY OWNER. VERIFY THAT CONSTRUCTION AND UTILITY ARRANGEMENTS ARE AS SHOWN. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION. BEGINNING OF ALTERATIONS WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS.
- MANY DIMENSIONS ARE DEPENDENT UPON EXISTING BUILDING CONDITIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND DIMENSIONS PRIOR TO BIDDING AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. THE SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, THE GENERAL CONTRACTOR HAS INDICATED HIS / HER FAMILIARITY WITH THE FIELD CONDITIONS. ANY DIMENSION REVISIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR REVIEW / APPROVAL.
- EXECUTE WORK BY METHODS WHICH WILL AVOID DAMAGE TO OTHER WORK. REPAIR OR REPLACE ITEMS DAMAGED DURING CONSTRUCTION. PROVIDE PROPER SURFACES TO RECEIVE PATCHING AND FINISHING.
- PROTECT EXISTING MATERIALS AND SURFACES, FIXTURES, EQUIPMENT AND OTHER ITEMS WHICH ARE NOT TO BE REMOVED.
- THE CONTRACTOR SHALL REMOVE, CUT, AND PATCH WORK IN A MANNER TO MINIMIZE DAMAGE, AND PROVIDE A MEANS OF RESTORING PRODUCTS AND FINISHES TO THEIR ORIGINAL CONDITION.
- REMOVE ALL DEBRIS AND ABANDONED ITEMS (SUCH AS UTILITIES) FROM CONCEALED AREAS WITHIN THE EXISTING STRUCTURE.
- WHERE NEW WORK ABUTS OR ALIGNS WITH EXISTING, PERFORM A SMOOTH AND EVEN TRANSITION. PATCH WORK AND USE MATERIALS THAT MATCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE.
- REMOVE TEMPORARY WORK THAT IS NOT TO REMAIN.
- DO NOT BURN OR BURY MATERIALS ON SITE.
- SCHEDULE ANY UTILITY OUTAGES WITH THE OWNER AT LEAST TWO WEEKS IN ADVANCE.
- PROTECT LANDSCAPING WHICH IS TO REMAIN FROM DEMOLITION ACTIVITIES.



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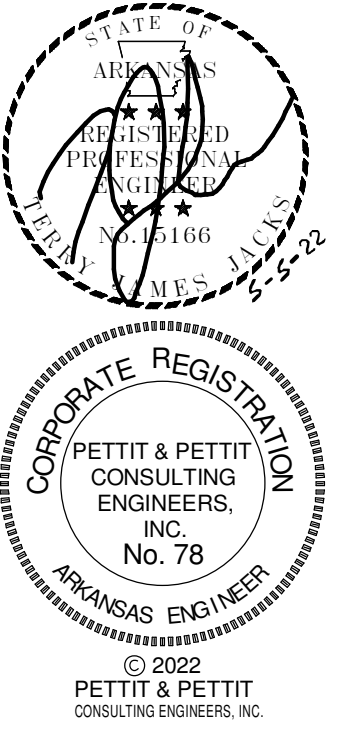
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UNDERFLOOR
DEMOLITION PLAN -
PLUMBING

P0.01



ABATEMENT SCOPE COORDINATION NOTES

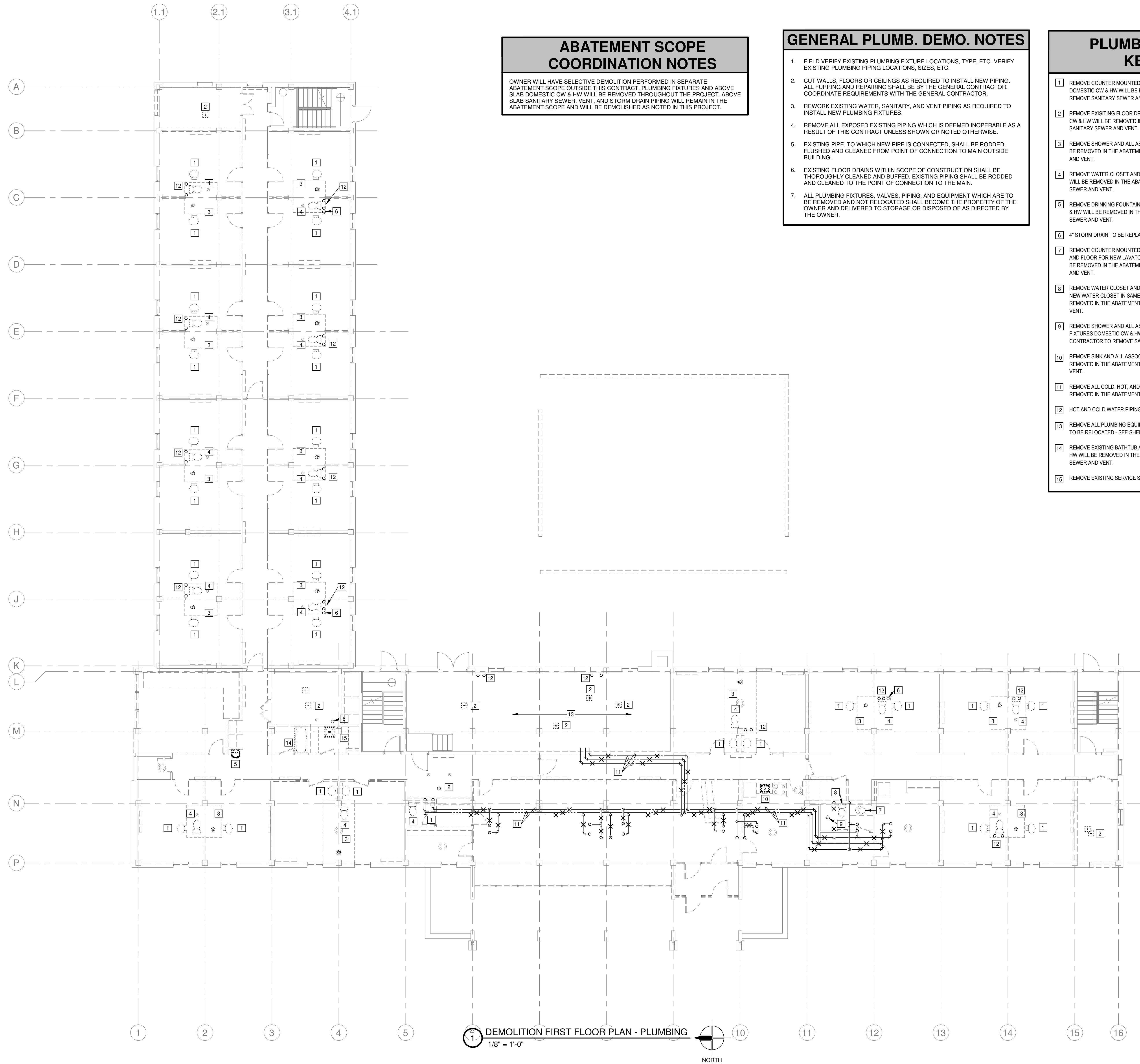
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GENERAL PLUMB. DEMO. NOTES

1. FIELD VERIFY EXISTING PLUMBING FIXTURE LOCATIONS, TYPE, ETC. VERIFY EXISTING PLUMBING PIPING LOCATIONS, SIZES, ETC.
2. CUT WALLS, FLOORS OR CEILINGS AS REQUIRED TO INSTALL NEW PIPING. ALL FURRING AND REPAIRING SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH THE GENERAL CONTRACTOR.
3. REWORK EXISTING WATER, SANITARY, AND VENT PIPING AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES.
4. REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE.
5. EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
6. EXISTING FLOOR DRAINS WITHIN SCOPE OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND BUFFED. EXISTING PIPING SHALL BE RODDED AND CLEANED TO THE POINT OF CONNECTION TO THE MAIN.
7. ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

- 1 REMOVE COUNTER MOUNTED LAVATORY AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 2 REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 3 REMOVE SHOWER AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 4 REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 5 REMOVE DRINKING FOUNTAIN AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 6 4" STORM DRAIN TO BE REPLACED.
- 7 REMOVE COUNTER MOUNTED LAVATORY AND ALL ASSOCIATED PIPING. PREPARE WALL AND FLOOR FOR NEW LAVATORY IN SAME PLACE. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 8 REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING. PREPARE WALL AND FLOOR FOR NEW WATER CLOSET IN SAME PLACE. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 9 REMOVE SHOWER AND ALL ASSOCIATED PIPING. PREPARE AREA FOR NEW SHOWER. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 10 REMOVE SINK AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 11 REMOVE ALL COLD, HOT, AND HOT WATER RETURN LINES ABOVE CEILING. TO BE REMOVED IN THE ABATEMENT SCOPE.
- 12 HOT AND COLD WATER PIPING ABOVE SLAB TO BE REMOVED IN THE ABATEMENT SCOPE.
- 13 REMOVE ALL PLUMBING EQUIPMENT AND PIPING. WATER HEATERS AND STORAGE TANKS TO BE RELOCATED - SEE SHEET P1.01 FOR NEW LOCATION.
- 14 REMOVE EXISTING BATHTUB AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 15 REMOVE EXISTING SERVICE SINK AND ALL ASSOCIATED PIPING.



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



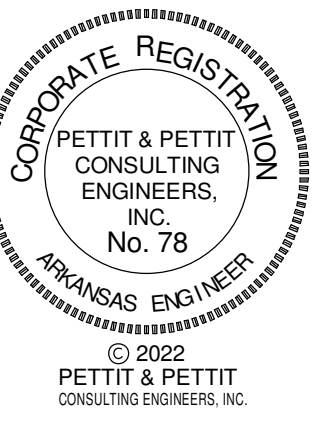
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FIRST FLOOR
DEMOLITION PLAN -
PLUMBING

P0.02



ABATEMENT SCOPE COORDINATION NOTES

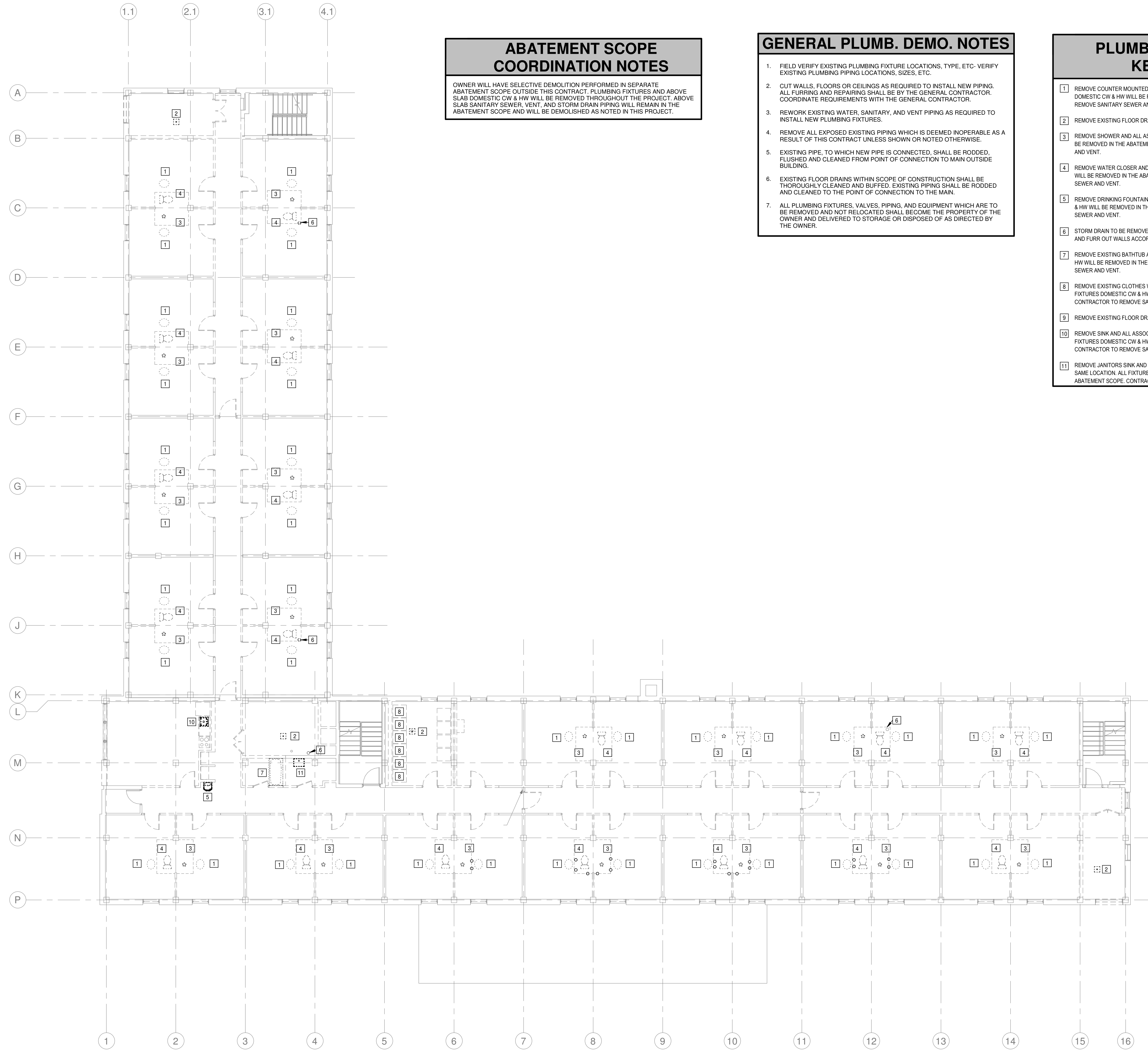
OWNER WILL HAVE SELECTIVE DEMOLITION PERFORMED IN SEPARATE ABATEMENT SCOPE OUTSIDE THIS CONTRACT. PLUMBING FIXTURES AND ABOVE SLAB DOMESTIC CW & HW WILL BE REMOVED THROUGHOUT THE PROJECT. ABOVE SLAB SANITARY SEWER, VENT, AND STORM DRAIN PIPING WILL REMAIN IN THE ABATEMENT SCOPE AND WILL BE DEMOLISHED AS NOTED IN THIS PROJECT.

GENERAL PLUMB. DEMO. NOTES

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3. REWORK EXISTING WATER, SANITARY, AND VENT PIPING AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES.
4. REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE.
5. EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
6. EXISTING FLOOR DRAINS WITHIN SCOPE OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND BUFFED. EXISTING PIPING SHALL BE RODDED AND CLEANED TO THE POINT OF CONNECTION TO THE MAIN.
7. ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

- 1 REMOVE COUNTER MOUNTED LAVATORY AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 2 REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING.
- 3 REMOVE SHOWER AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 4 REMOVE WATER CLOSER AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 5 REMOVE DRINKING FOUNTAIN AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 6 STORM DRAIN TO BE REMOVED. KEEP EXISTING PENETRATION THROUGH CONCRETE SLAB AND FURR OUT WALLS ACCORDINGLY.
- 7 REMOVE EXISTING BATHTUB AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 8 REMOVE EXISTING CLOTHES WASHER CONNECTIONS AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 9 REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING.
- 10 REMOVE SINK AND ALL ASSOCIATED PIPING. REPAIR FLOOR TO ORIGINAL CONDITION. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- 11 REMOVE JANITORS SINK AND ALL ASSOCIATED PIPING. PREPARE ARE FOR NEW SINK IN SAME LOCATION. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.



1 DEMOLITION SECOND FLOOR PLAN - PLUMBING
1/8" = 1'-0"



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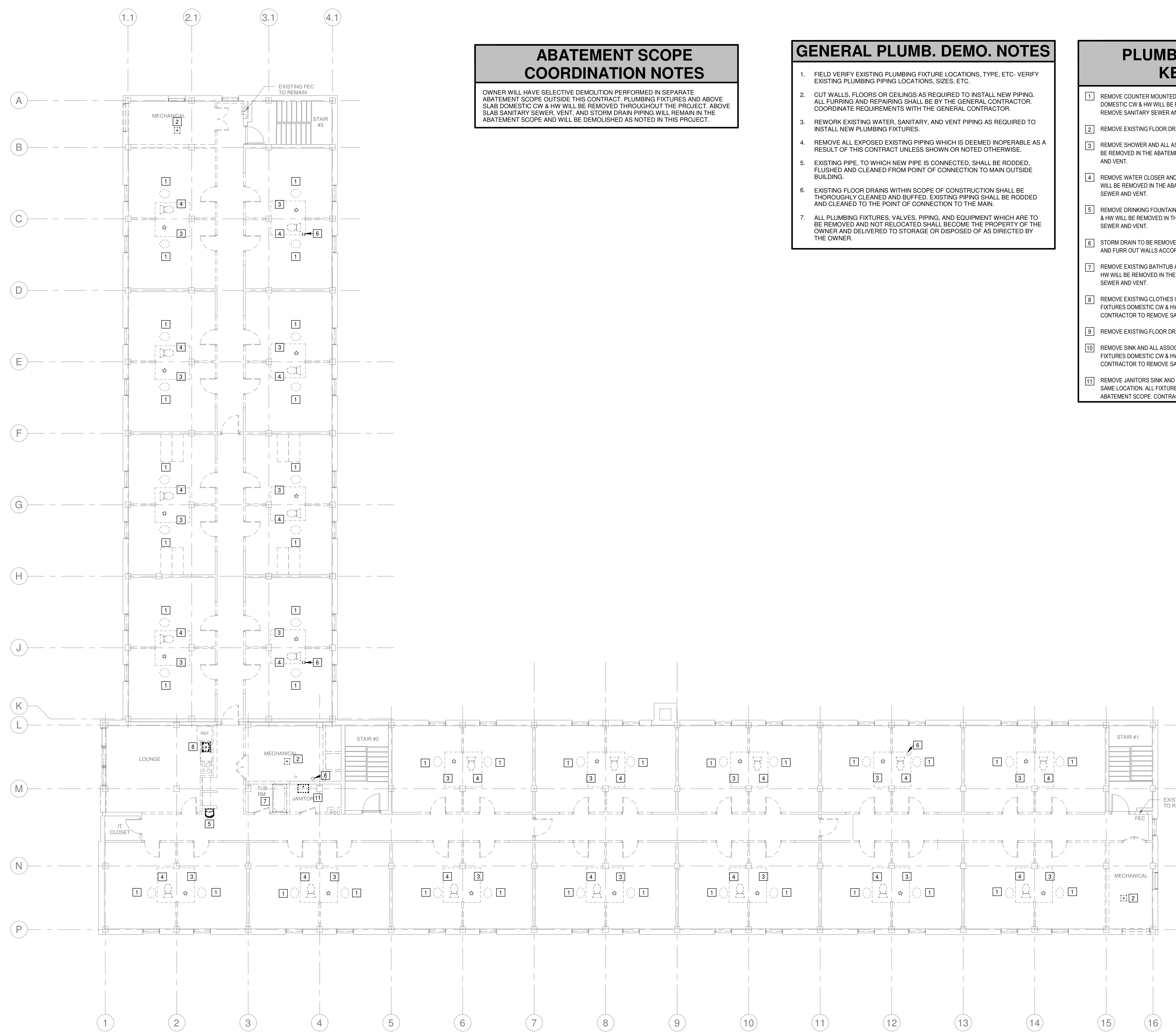
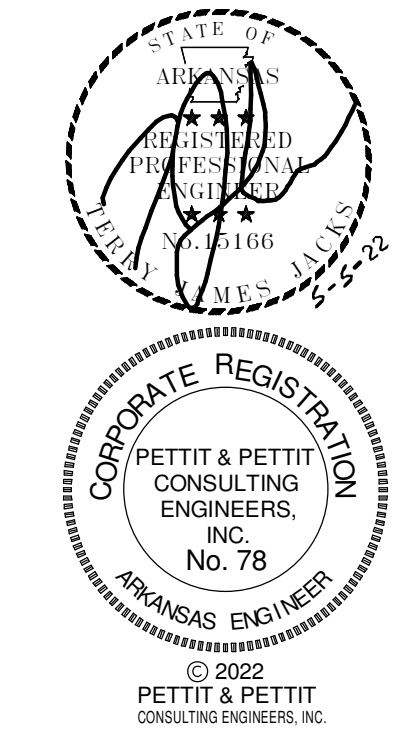
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SECOND FLOOR
DEMOLITION PLAN -
PLUMBING

P0.03



ABATEMENT SCOPE COORDINATION NOTES

OWNER WILL HAVE SELECTIVE DEMOLITION PERFORMED IN SEPARATE ABATEMENT SCOPE OUTSIDE THIS CONTRACT. PLUMBING FIXTURES AND ABOVE SLAB DOMESTIC CW & HW WILL BE REMOVED THROUGHOUT THE PROJECT. ABOVE SLAB SANITARY SEWER, VENT, AND STORM DRAIN PIPING WILL REMAIN IN THE ABATEMENT SCOPE AND WILL BE DEMOLISHED AS NOTED IN THIS PROJECT.

GENERAL PLUMB. DEMO. NOTES

- FIELD VERIFY EXISTING PLUMBING FIXTURE LOCATIONS, TYPE, ETC.- VERIFY EXISTING PLUMBING PIPING LOCATIONS, SIZES, ETC.
- CUT WALLS, FLOORS OR CEILINGS AS REQUIRED TO INSTALL NEW PIPING. ALL FURRING AND REPAIRING SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- REWORK EXISTING WATER, SANITARY, AND VENT PIPING AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES.
- REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE.
- EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
- EXISTING FLOOR DRAINS WITHIN SCOPE OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND BUFFED. EXISTING PIPING SHALL BE RODDED AND CLEANED TO THE POINT OF CONNECTION TO THE MAIN.
- ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

- REMOVE COUNTER MOUNTED LAVATORY AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING.
- REMOVE SHOWER AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE WATER CLOSER AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE DRINKING FOUNTAIN AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- STORM DRAIN TO BE REMOVED. KEEP EXISTING PENETRATION THROUGH CONCRETE SLAB AND FURR OUT WALLS ACCORDINGLY.
- REMOVE EXISTING BATHTUB AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE EXISTING CLOTHES WASHER CONNECTIONS AND ALL ASSOCIATED PIPING. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING.
- REMOVE SINK AND ALL ASSOCIATED PIPING. REPAIR FLOOR TO ORIGINAL CONDITION. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.
- REMOVE JANITORS SINK AND ALL ASSOCIATED PIPING. PREPARE ARE FOR NEW SINK IN SAME LOCATION. ALL FIXTURES DOMESTIC CW & HW WILL BE REMOVED IN THE ABATEMENT SCOPE. CONTRACTOR TO REMOVE SANITARY SEWER AND VENT.

1 DEMOLITION THIRD FLOOR PLAN - PLUMBING
1/8" = 1'-0" NORTH

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THIRD FLOOR
DEMOLITION PLAN -
PLUMBING

P0.04

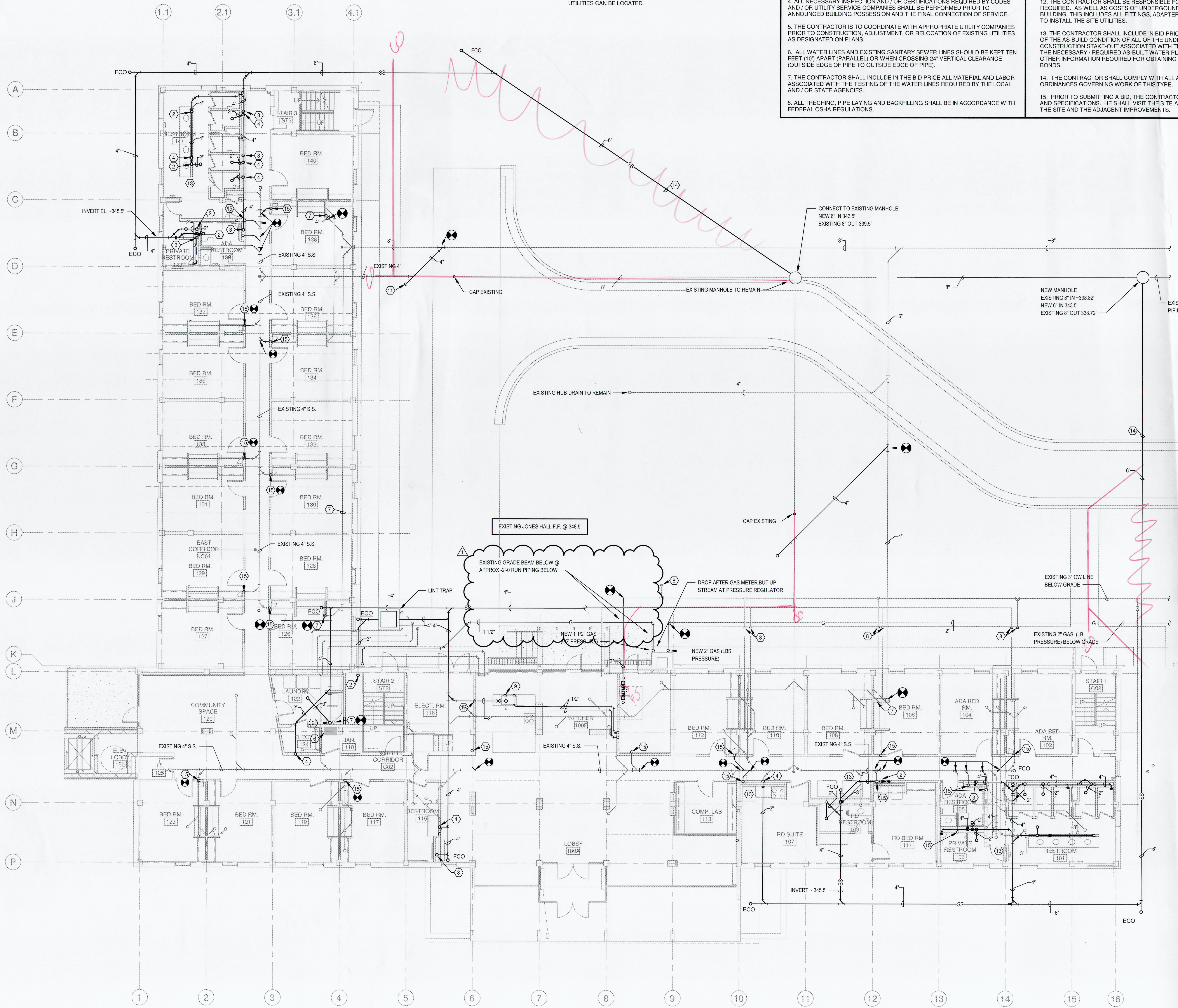


ARKANSAS STATE LAW REQUIRES THE EXCAVATOR TO LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PROTECTION ACT. THIS LAW REQUIRES THE EXCAVATOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-6998 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING TO ENSURE ANY EXISTING UTILITIES CAN BE LOCATED.

PLUMBING UTILITY NOTES

1. THE LOCATION AND / OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES ON SITE OR IN RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTION TO ANY EXISTING LINES. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE TIE-INS / CONNECTIONS WITH ALL UTILITY COMPANIES.
3. ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.
4. ALL NECESSARY INSPECTION AND / OR CERTIFICATIONS REQUIRED BY CODES AND / OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
5. THE CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
6. ALL WATER LINES AND EXISTING SANITARY SEWER LINES SHOULD BE KEPT TEN FEET (10') APART (PARALLEL) OR WHEN CROSSING 24" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
7. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER LINES REQUIRED BY THE LOCAL AND / OR STATE AGENCIES.
8. ALL TRECHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
9. ALL MATERIALS CONSTRUCTION AND INSPECTION FOR WATER LINES SHALL BE PER CITY OF RUSSELLVILLE STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPARTMENT AND THE CITY / COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR OFFS WITH THE CITY / COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
11. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COSTS OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING. THIS INCLUDES ALL FITTINGS, ADAPTERS, AND CONNECTORS REQUIRED TO INSTALL THE SITE UTILITIES.
13. THE CONTRACTOR SHALL INCLUDE IN BID PRICE THE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES. CONSTRUCTION STAKE-OUT ASSOCIATED WITH THE PROJECT. PREPARATION OF THE NECESSARY / REQUIRED AS-BUILT WATER PLANS TO BE SUBMITTED AND ALL OTHER INFORMATION REQUIRED FOR OBTAINING PERMITS AND RELEASE OF BONDS.
14. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES GOVERNING WORK OF THIS TYPE.
15. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS. HE SHALL VISIT THE SITE AND INSPECT THE CONDITIONS OF THE SITE AND THE ADJACENT IMPROVEMENTS.

16. THE CONTRACTORS SHALL CALL "ONE-CALL" FOR LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
17. ANY PAVEMENT MARKING AND PARKING LOT RESTRICTION REQUIRED AS A RESULT OF THIS CONTRACT, SHALL CONFORM TO REQUIREMENTS GIVEN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). MUTCD REQUIREMENTS THAT PARKING SPACES BE MARKED IN WHITE, LANDSCAPING, ETC.
18. FIELD VERIFY EXACT LOCATIONS OF EXISTING UTILITIES, IRRIGATION, LANDSCAPING, ETC.
19. CUT SIDEWALKS AND PAVEMENT AS REQUIRED. SIDEWALKS TO BE CUT FROM JOINT TO JOINT. REPAIR GROUNDS, SIDEWALKS, AND PAVEMENT BACK TO ORIGINAL CONDITION. PROVIDE NEW SOD AS REQUIRED.
20. CAREFULLY COORDINATE ALL WORK WITH OWNER. ALL AREAS DISTURBED BY EXCAVATION OR CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS. ALL ROAD, STREET, PARKING LOT, AND SIDEWALK CROSSINGS SHALL BE CAREFULLY COORDINATED WITH OWNER. THE CONTRACTOR TO BORE BENEATH EXISTING WHEREVER POSSIBLE. COORDINATE WITH OWNER AND ENGINEER.
21. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB EXISTING DIRECT BURIED PHONE LINES, ELECTRICAL, WATER AND SEWER LINES, AND IRRIGATION SYSTEMS. REPAIR AS REQUIRED. COORDINATE WITH OWNER.

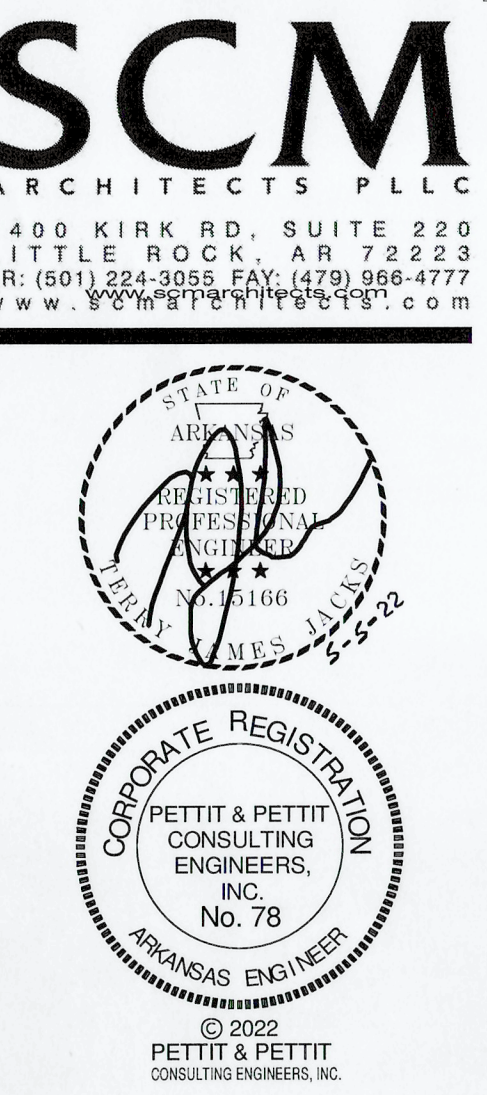


PLUMBING KEYED NOTES

- 1 CLEANOUT.
- 2 3" SAN SEWER FROM ABOVE.
- 3 4" SAN SEWER FROM ABOVE.
- 4 2" SAN SEWER FROM ABOVE.
- 5 EXISTING 4" SAN SEWER. CONTRACTOR TO VERIFY SIZE (MUST BE 4" OR LARGER) AND SCOPE PIPE TO VERIFY CONDITION. ROD PIPE AND CONNECT TO PIPE IF STILL IN WORKING CONDITION.
- 6 EXISTING STORM DRAIN LINE TO REMAIN.
- 7 4" STORM FROM ABOVE. ROUTED THROUGH EXISTING OPENING IN FLOOR.
- 8 CAP WATER LINE. SEE DEMO FOR LOCATIONS.
- 9 1/2" CW & HW UP TO SINK.
- 10 COORDINATE WORK IN THIS AREA WITH OTHER TRADES.
- 11 CONNECT EXISTING WASTE PIPE TO STORM DRAIN PIPE. WASTE PIPE WILL BE USED FOR CONDENSATE DRAIN. THOROUGHLY ROD AND CLEAN EXISTING PIPE BEFORE CONNECTING TO STORM.
- 12 2" VENT UP.
- 13 ELBOWS AT BASE OF STACK TO BE LONG RADIUS. TYPICAL ALL SHEETS.
- 14 PATCH AND REPAIR EXISTING SIDEWALK / DRIVEWAY WHERE NEW SS PIPING IS REQUIRED TO CROSS.
- 15 FIXED AIR GAP FOR HVAC CONDENSATE. REFER TO DETAIL. ROUTE VENT UP IN NEW WALL ABOVE. SAW CUT FLOOR AS REQUIRED TO CONNECT TO EXISTING SANITARY SEWER PIPING BELOW SLAB. REFER TO EXISTING SANITARY SEWER PIPING NOTE THIS SHEET.
- 16 PIPE ROUTING, ARRANGEMENT AND SPACING SHALL COMPLY WITH ARKANSAS DEPT OF HEALTH REQUIREMENTS AND ALL LOCAL CODES.

EXISTING SANITARY SEWER PIPING NOTES

1. ALL NEW PLUMBING FIXTURES SHALL BE CONNECTED TO AND ROUTED THROUGH NEW SANITARY SEWER PIPING AS SHOWN.
2. EXISTING SANITARY SEWER PIPING BELOW SLAB TO BE REPURPOSED FOR HVAC CONDENSATE DRAIN PIPING.
3. VERIFY ALL EXISTING SANITARY SEWER PIPING IS DISCONNECTED FROM EXISTING FIXTURES AND CAP ALL OPENINGS NOT BEING REUSED FOR CONDENSATE REMOVAL.
4. EXISTING SANITARY SEWER PIPING TO BE REROUTED IN EXTERIOR YARD TO EXISTING STORM DRAIN PIPING IN YARD.
5. EXISTING SANITARY SEWER PIPING TO BE RELINED USING CURED IN PLACE PIPE (CIPP) LINING PROCESS.



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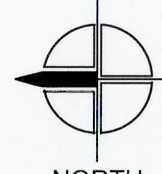
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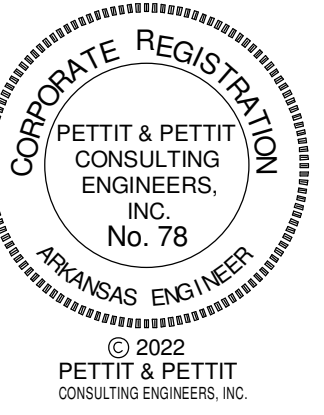
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REVISED
UNDERFLOOR PLAN
- PLUMBING

P1.00R

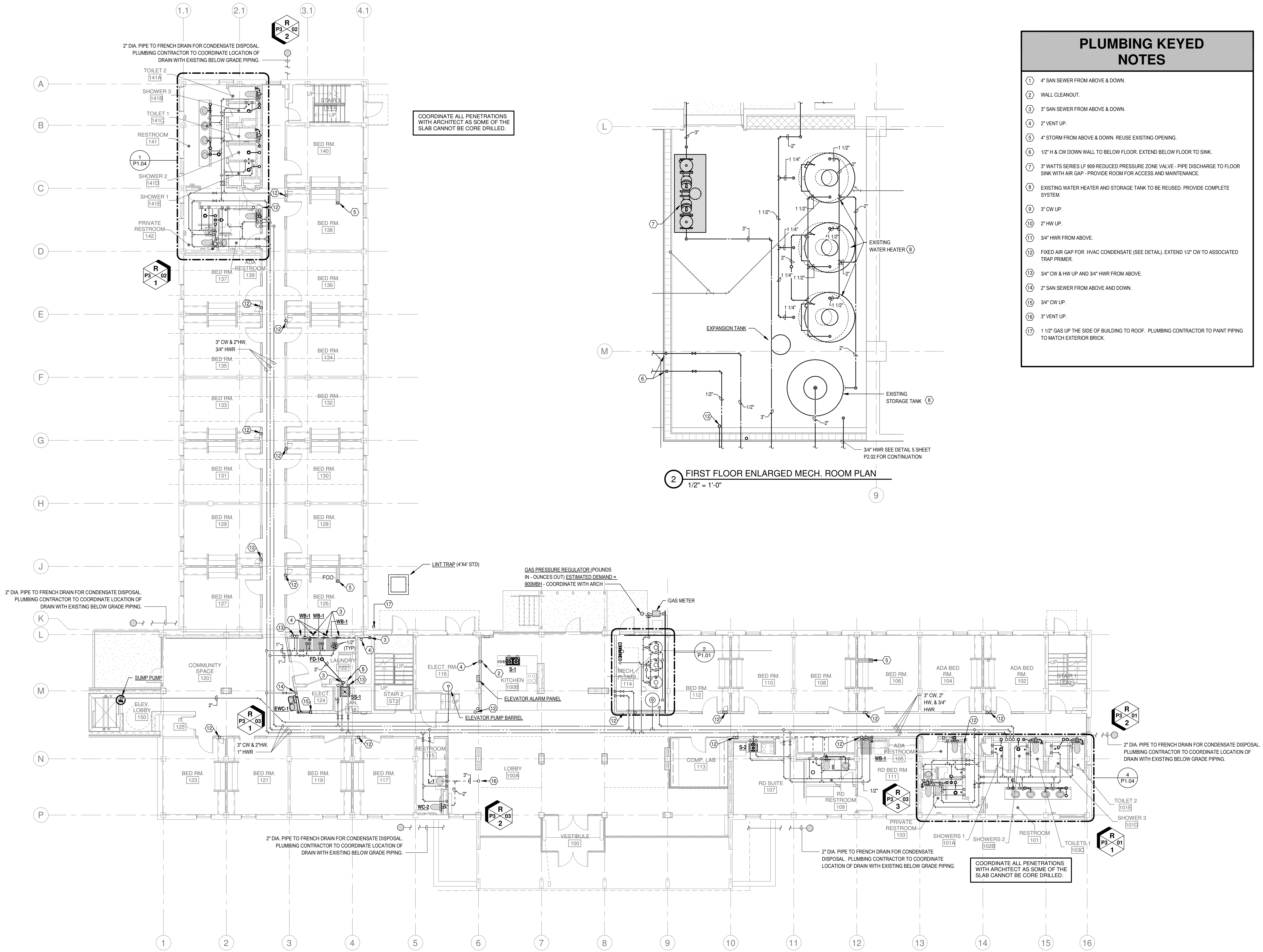
1 UNDER FLOOR PLAN - PLUMBING
1/8" = 1'-0"





PLUMBING KEYED NOTES

- 1 4" SAN SEWER FROM ABOVE & DOWN.
- 2 WALL CLEANOUT.
- 3 3" SAN SEWER FROM ABOVE & DOWN.
- 4 2" VENT UP.
- 5 4" STORM FROM ABOVE & DOWN. REUSE EXISTING OPENING.
- 6 1/2" H & CW DOWN WALL TO BELOW FLOOR. EXTEND BELOW FLOOR TO SINK.
- 7 3" WATTS SERIES LF 900 REDUCED PRESSURE ZONE VALVE - PIPE DISCHARGE TO FLOOR SINK WITH AIR GAP - PROVIDE ROOM FOR ACCESS AND MAINTENANCE.
- 8 EXISTING WATER HEATER AND STORAGE TANK TO BE REUSED. PROVIDE COMPLETE SYSTEM.
- 9 3" CW UP.
- 10 2" HW UP.
- 11 3/4" HWR FROM ABOVE.
- 12 FIXED AIR GAP FOR HVAC CONDENSATE (SEE DETAIL). EXTEND 1/2" CW TO ASSOCIATED TRAP PRIMER.
- 13 3/4" CW & HW UP AND 3/4" HWR FROM ABOVE.
- 14 2" SAN SEWER FROM ABOVE AND DOWN.
- 15 3/4" CW UP.
- 16 3" VENT UP.
- 17 1 1/2" GAS UP THE SIDE OF BUILDING TO ROOF. PLUMBING CONTRACTOR TO PAINT PIPING TO MATCH EXTERIOR BRICK.



COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

2 FIRST FLOOR ENLARGED MECH. ROOM PLAN
1/2" = 1'-0"

1 FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"

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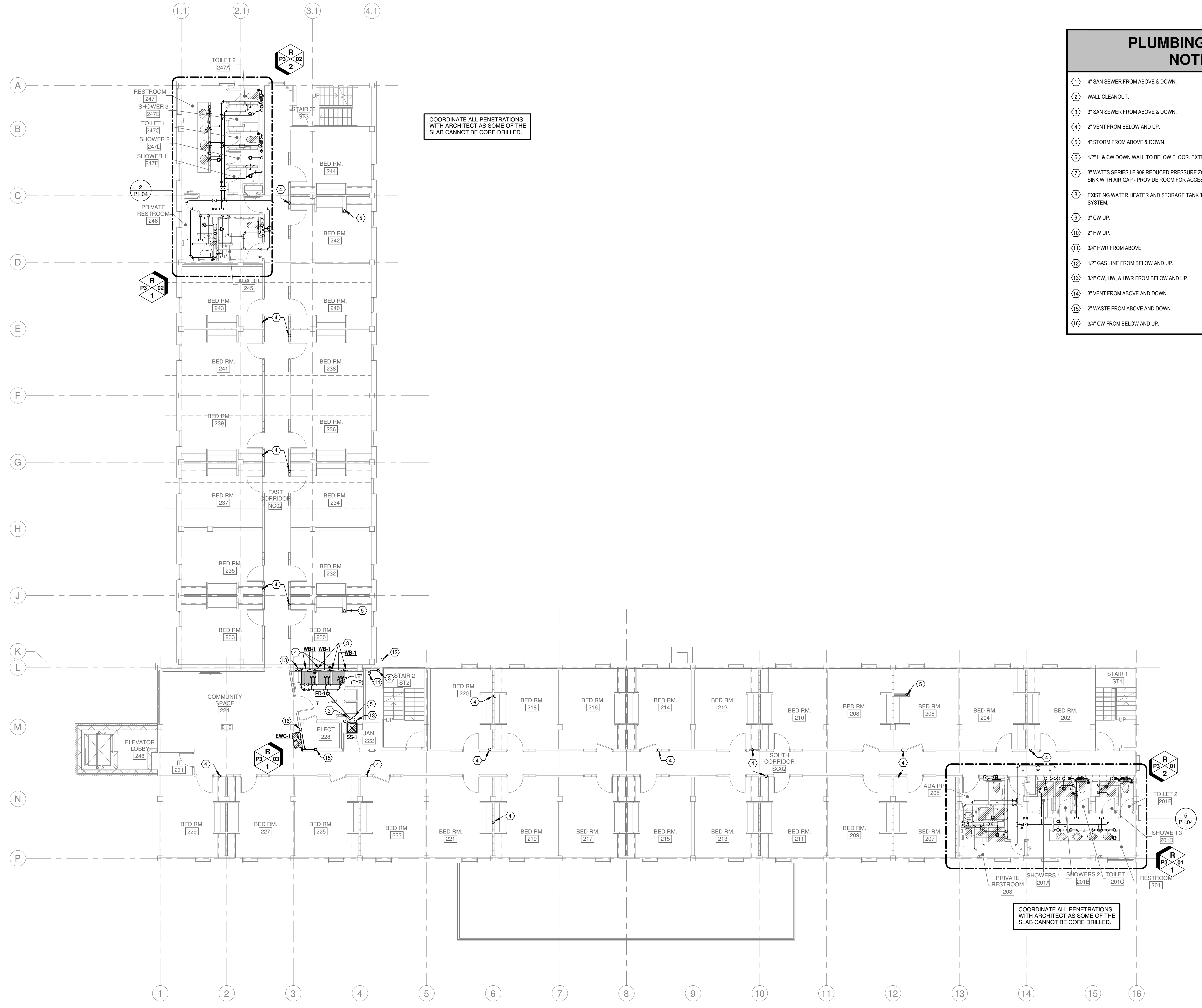
FIRST FLOOR PLAN
- PLUMBING

P1.01



PLUMBING KEYED NOTES

- ① 4" SAN SEWER FROM ABOVE & DOWN.
- ② WALL CLEANOUT.
- ③ 3" SAN SEWER FROM ABOVE & DOWN.
- ④ 2" VENT FROM BELOW AND UP.
- ⑤ 4" STORM FROM ABOVE & DOWN.
- ⑥ 1/2" H & CW DOWN WALL TO BELOW FLOOR. EXTEND BELOW FLOOR TO SINK.
- ⑦ 3" WATTS SERIES LF 900 REDUCED PRESSURE ZONE VALVE - PIPE DISCHARGE TO FLOOR SINK WITH AIR GAP - PROVIDE ROOM FOR ACCESS AND MAINTENANCE.
- ⑧ EXISTING WATER HEATER AND STORAGE TANK TO BE REUSED. PROVIDE COMPLETE SYSTEM.
- ⑨ 3" CW UP.
- ⑩ 2" HW UP.
- ⑪ 3/4" HWR FROM ABOVE.
- ⑫ 1/2" GAS LINE FROM BELOW AND UP.
- ⑬ 3/4" CW, HW, & HWR FROM BELOW AND UP.
- ⑭ 3" VENT FROM ABOVE AND DOWN.
- ⑮ 2" WASTE FROM ABOVE AND DOWN.
- ⑯ 3/4" CW FROM BELOW AND UP.



COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

① SECOND FLOOR PLAN - PLUMBING
1/8" = 1'-0"

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SECOND FLOOR
PLAN - PLUMBING

P1.02



PLUMBING KEYED NOTES	
①	4" SAN SEWER FROM ABOVE & DOWN.
②	WALL CLEANOUT.
③	3" SAN SEWER FROM ABOVE & DOWN.
④	2" VENT FROM BELOW AND UP. X-RAY SLAB AND COORDINATE EXACT LOCATION W/ EXISTING STRUCTURE.
⑤	4" STORM FROM ABOVE & DOWN.
⑥	1/2" H & CW DOWN WALL TO BELOW FLOOR. EXTEND BELOW FLOOR TO SINK.
⑦	3" WATTS SERIES LF 909 REDUCED PRESSURE ZONE VALVE. PIPE DISCHARGE TO FLOOR SINK WITH AIR GAP - PROVIDE ROOM FOR ACCESS AND MAINTENANCE.
⑧	EXISTING WATER HEATER AND STORAGE TANK TO BE REUSED. PROVIDE COMPLETE SYSTEM.
⑨	3" CW FROM BELOW.
⑩	2" HW FROM BELOW.
⑪	3/4" HWR FROM ABOVE.
⑫	1/2" GAS LINE FROM BELOW AND UP.
⑬	3/4" CW & HW FROM BELOW AND 3/4" HWR DOWN.
⑭	3" VENT TO ROOF.
⑮	3/4" CW FROM BELOW.



COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

COORDINATE ALL PENETRATIONS WITH ARCHITECT AS SOME OF THE SLAB CANNOT BE CORE DRILLED.

① THIRD FLOOR PLAN - PLUMBING
1/8" = 1'-0"
NORTH

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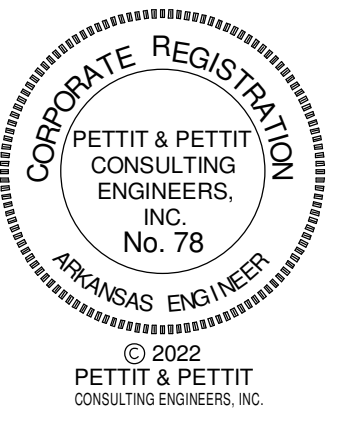
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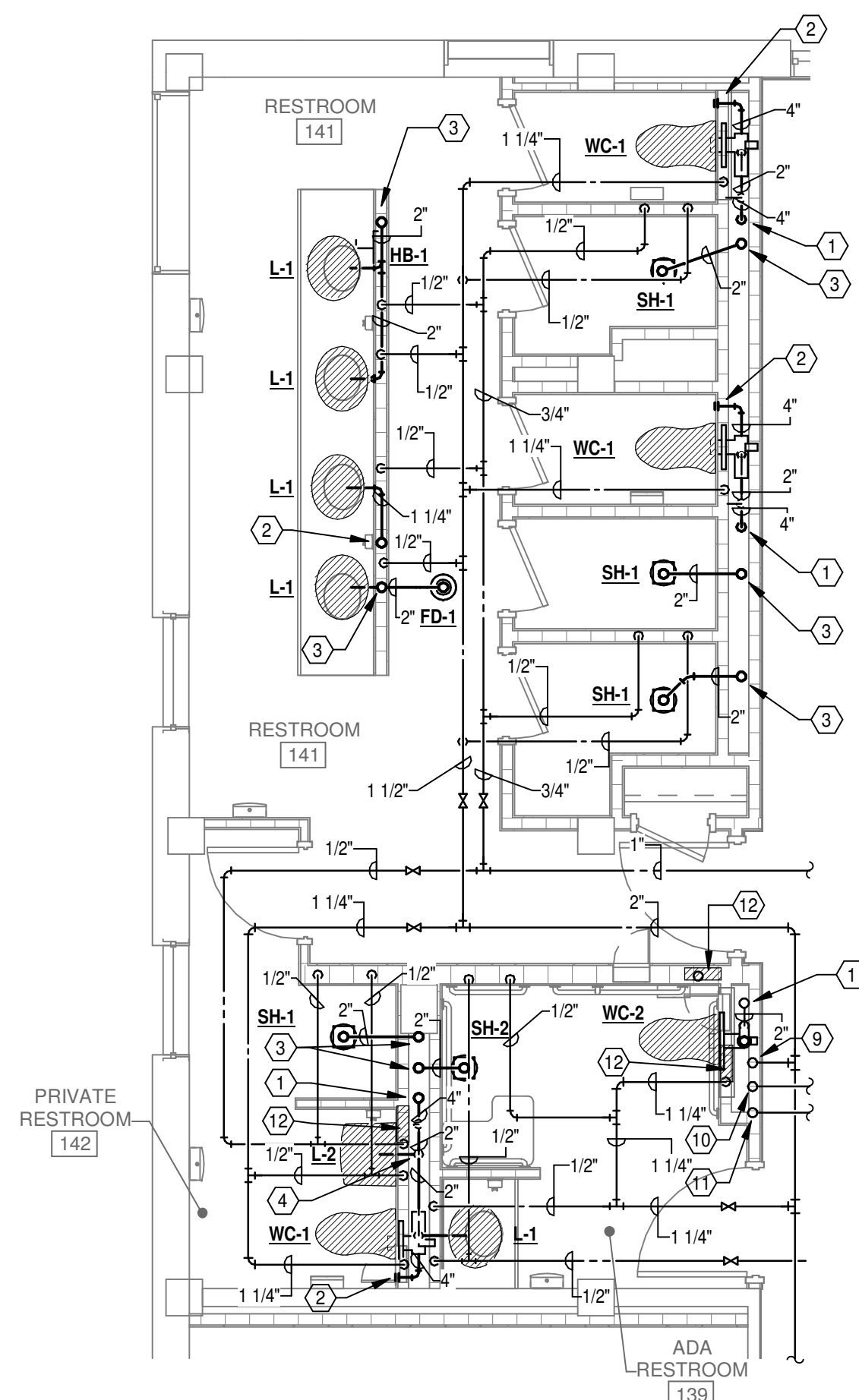
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THIRD FLOOR PLAN
- PLUMBING

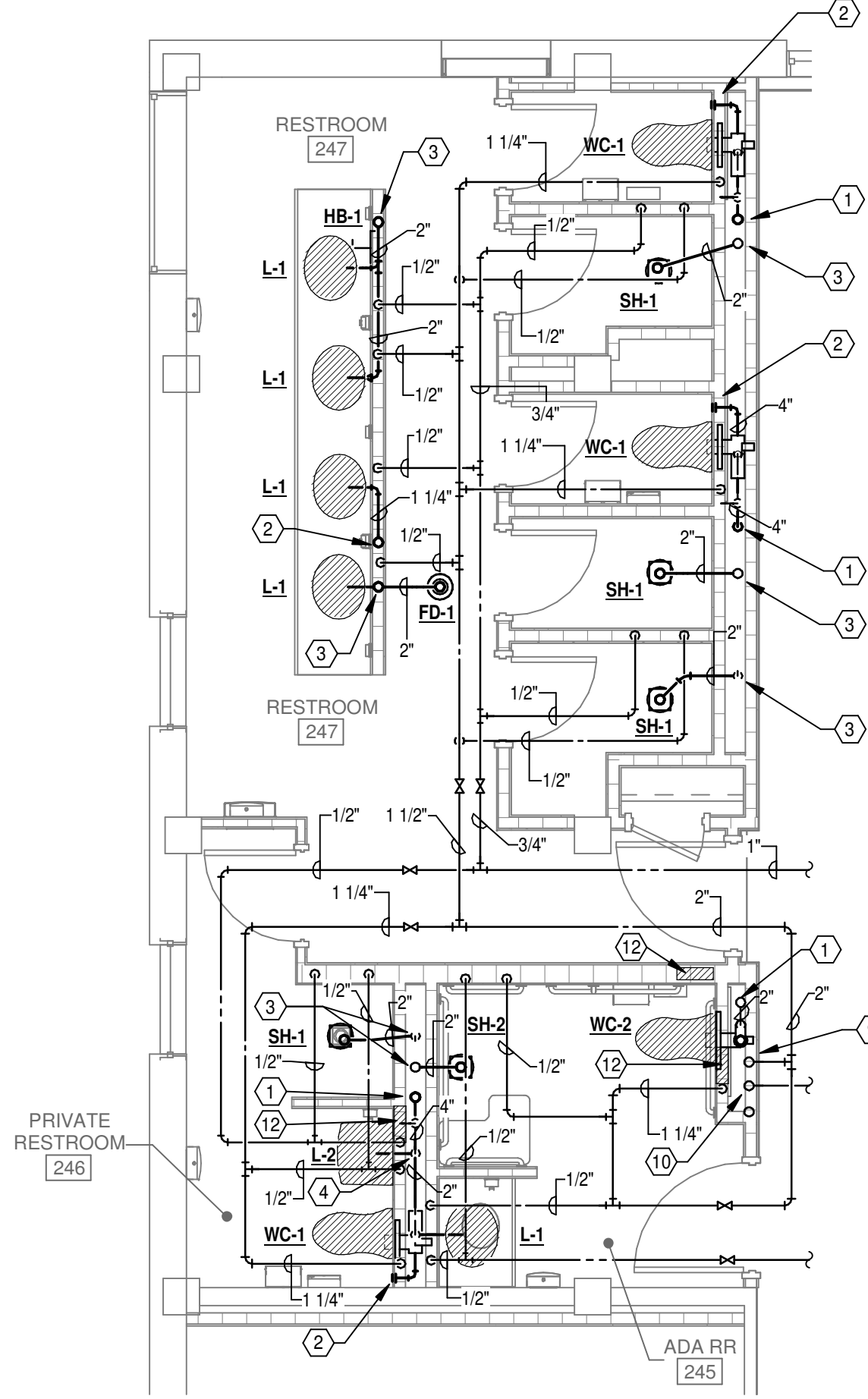
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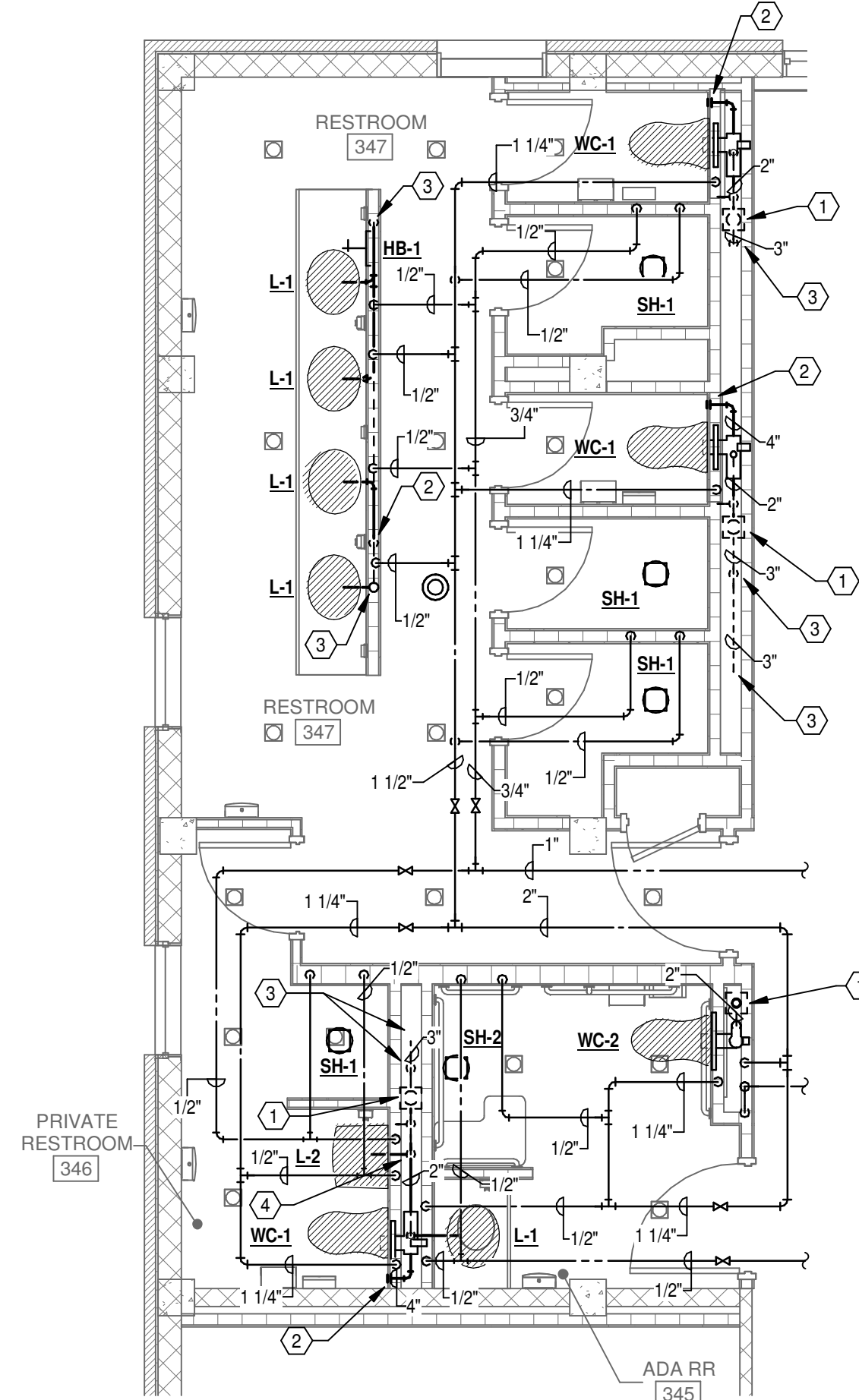
PLUMBING KEYED NOTES	
①	4" SAN SEWER FROM ABOVE & DOWN.
②	WALL CLEANOUT.
③	3" SAN SEWER FROM ABOVE & DOWN.
④	2" VENT UP.
⑤	4" STORM FROM ABOVE & DOWN. REUSE EXISTING OPENING.
⑥	1/2" H & CW DOWN WALL TO BELOW FLOOR. EXTEND BELOW FLOOR TO SINK.
⑦	3" WATTS SERIES LF 909 REDUCED PRESSURE ZONE VALVE. PIPE DISCHARGE TO FLOOR SINK WITH AIR GAP. PROVIDE ROOM FOR ACCESS AND MAINTENANCE.
⑧	EXISTING WATER HEATER AND STORAGE TANK TO BE REUSED. PROVIDE COMPLETE SYSTEM.
⑨	3" CW UP.
⑩	2" HW UP.
⑪	3/4" HWR FROM ABOVE.
⑫	FIXED AIR GAP FOR HVAC CONDENSATE (SEE DETAIL). EXTEND 1/2" CW TO ASSOCIATED TRAP PRIMER.
⑬	3/4" CW & HW UP AND 3/4" HWR FROM ABOVE.
⑭	2" SAN SEWER FROM ABOVE AND DOWN.
⑮	3/4" CW UP.
⑯	3" VENT UP.
⑰	1 1/2" GAS UP THE SIDE OF BUILDING TO ROOF. PLUMBING CONTRACTOR TO PAINT PIPING TO MATCH EXTERIOR BRICK.



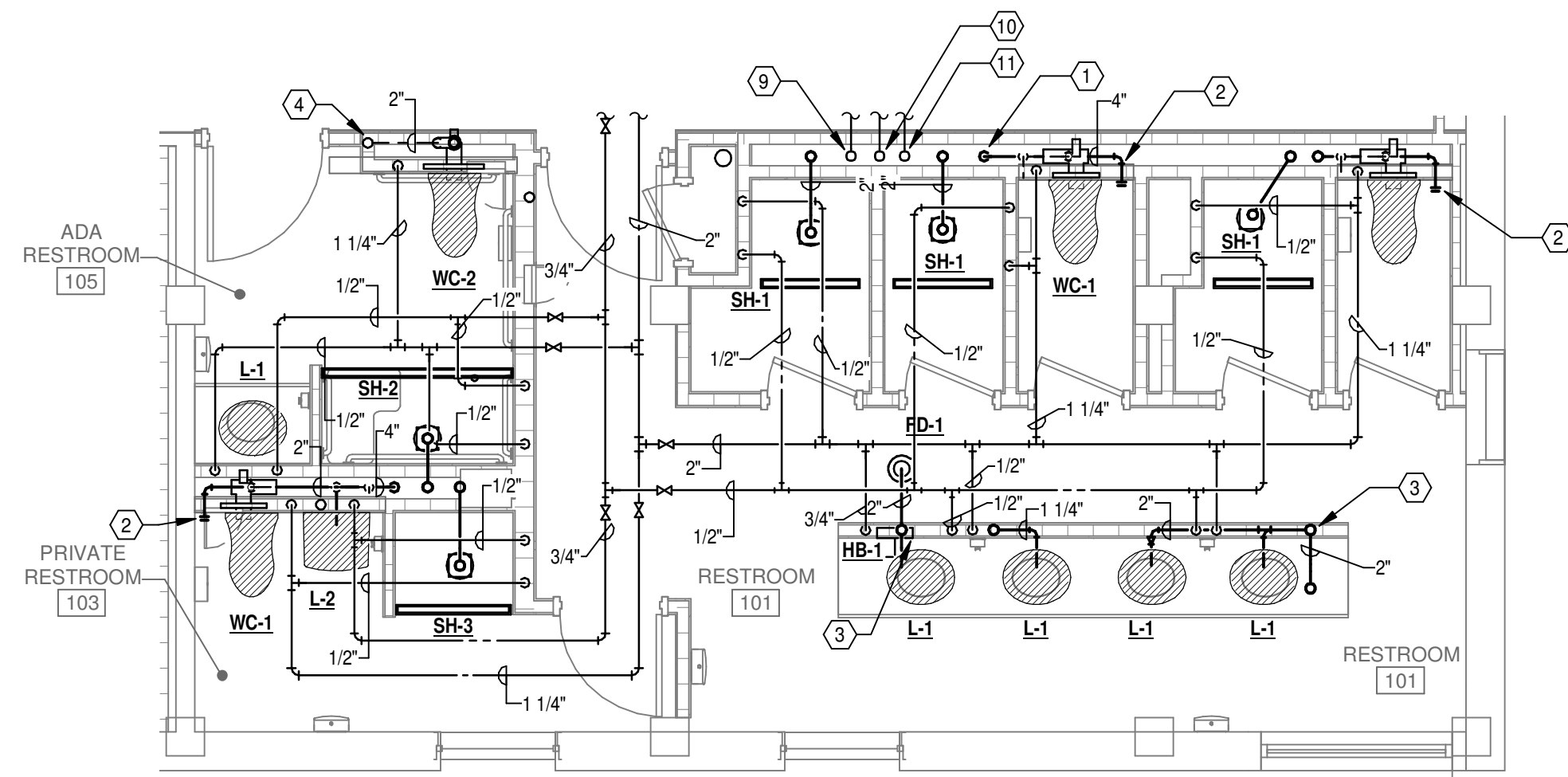
1 17-1ST FLOOR ENLARGED PLAN RM141
1/4" = 1'-0"



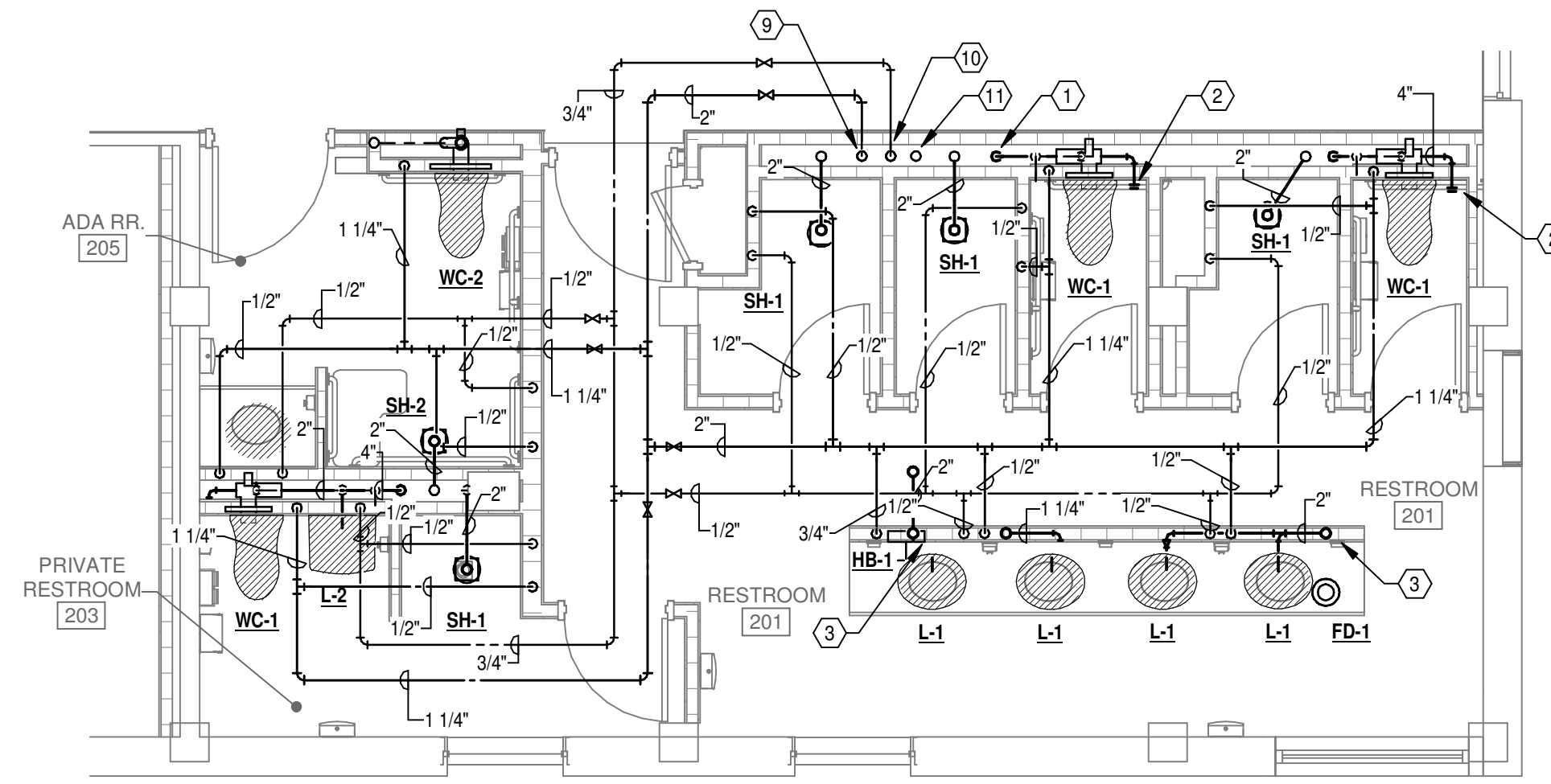
2 19-2ND FLOOR ENLARGED PLAN RM247
1/4" = 1'-0"



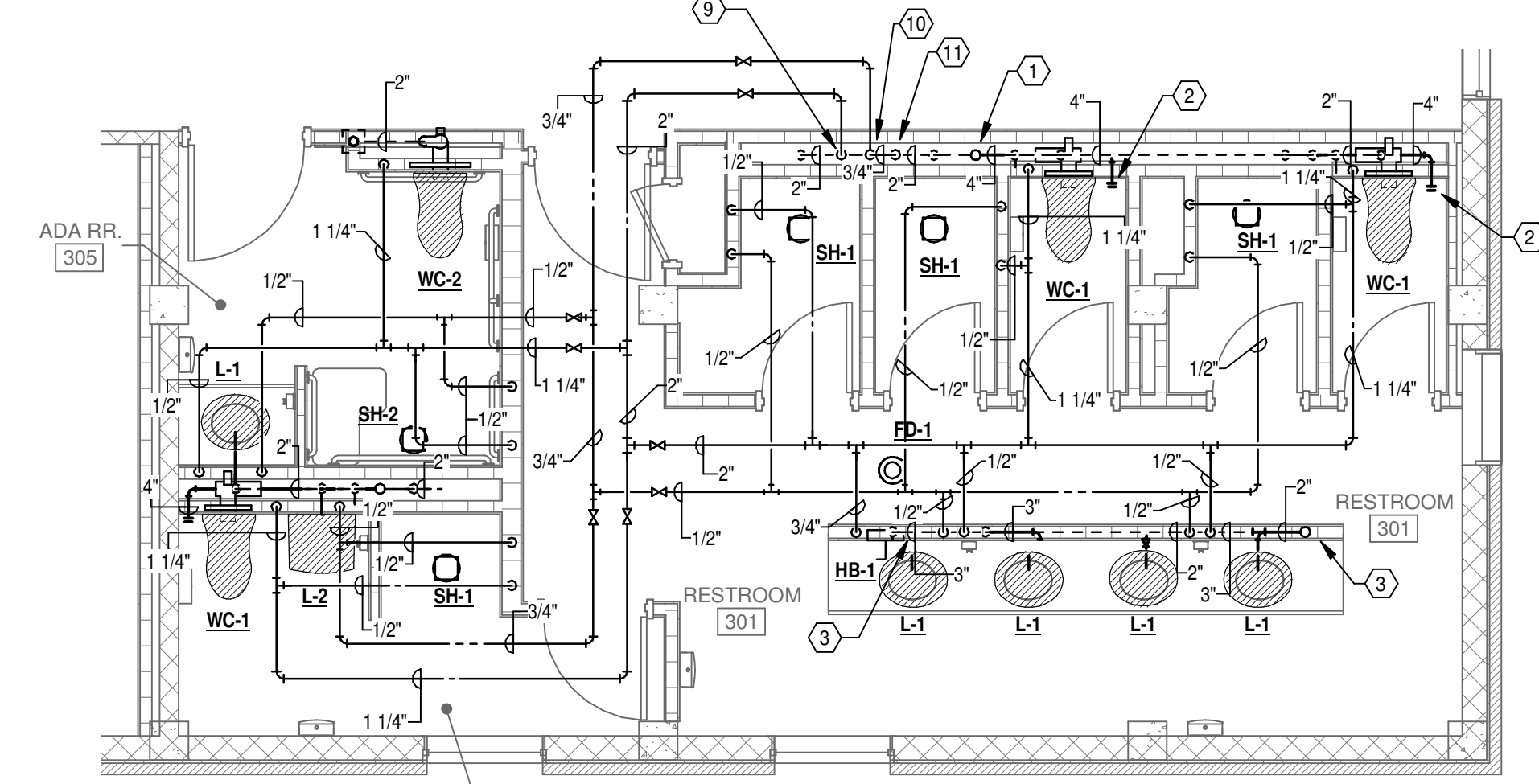
3 21-3RD FLOOR ENLARGED PLAN RM347
1/4" = 1'-0"



4 16- 1ST FLOOR ENLARGED PLUMBING RM101
1/4" = 1'-0"



5 18-2ND FLOOR ENLARGED PLAN RM201
1/4" = 1'-0"



6 20-3RD FLOOR ENLARGED PLAN RM301
1/4" = 1'-0"

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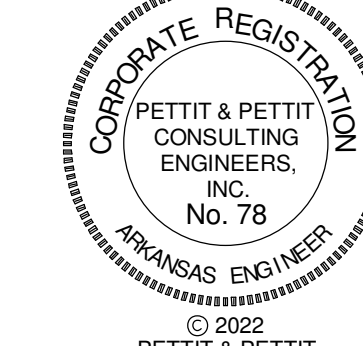
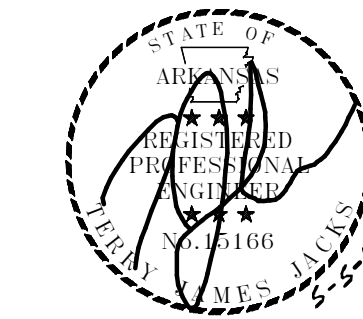
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ENLARGED PLANS -
PLUMBING

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1 ROOF PLAN - PLUMBING
 1/8" = 1'-0"
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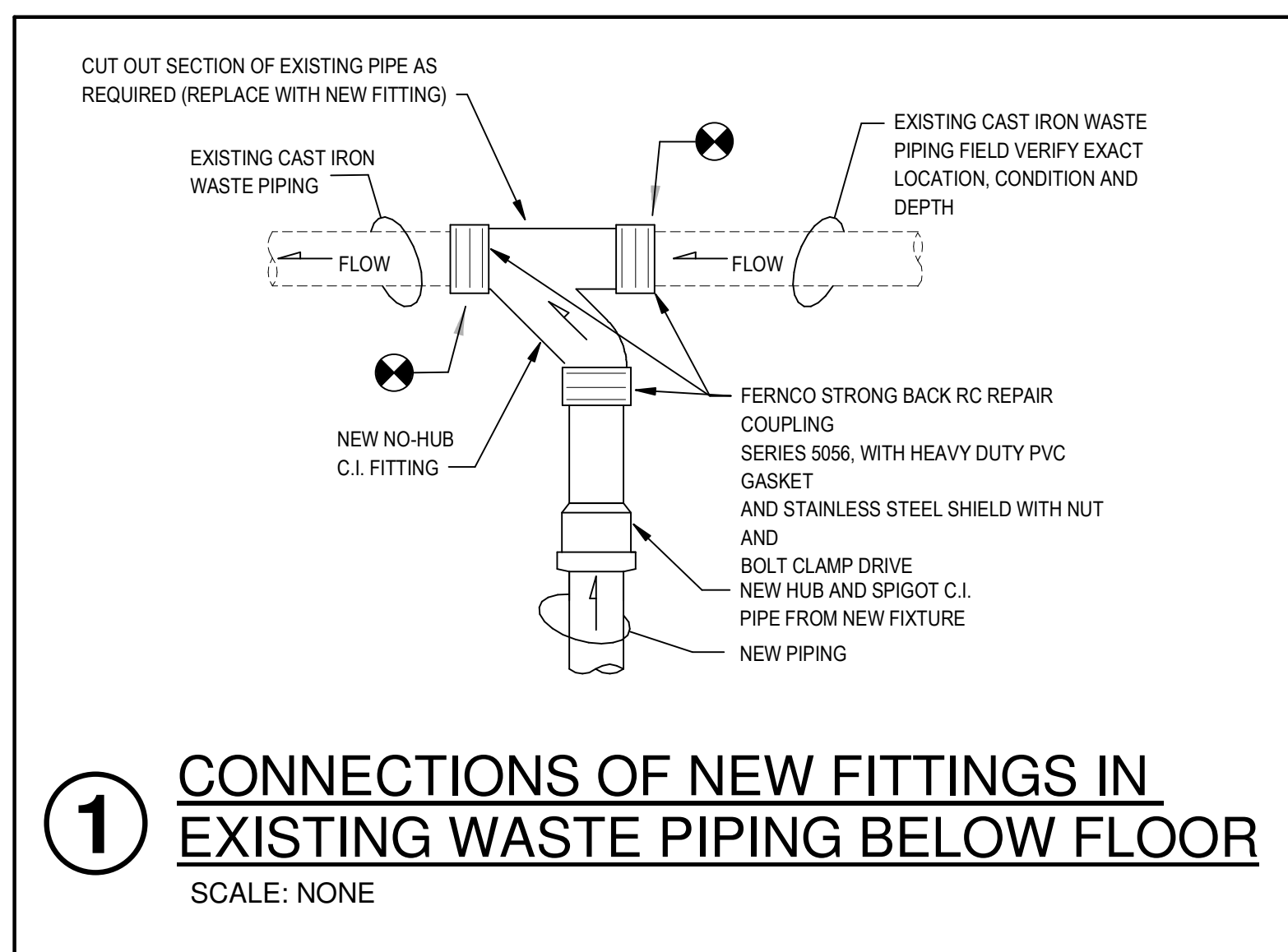
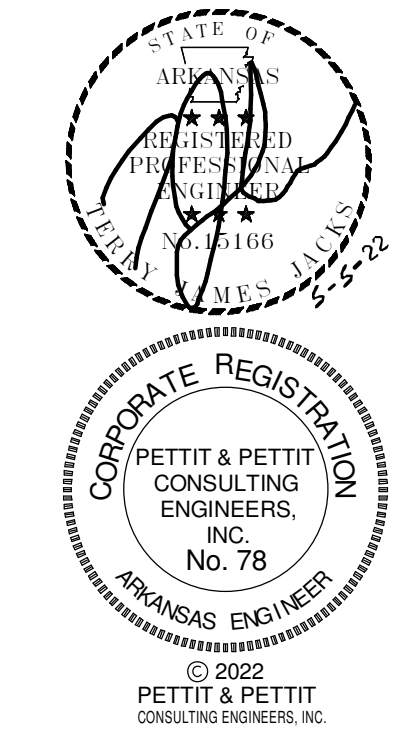
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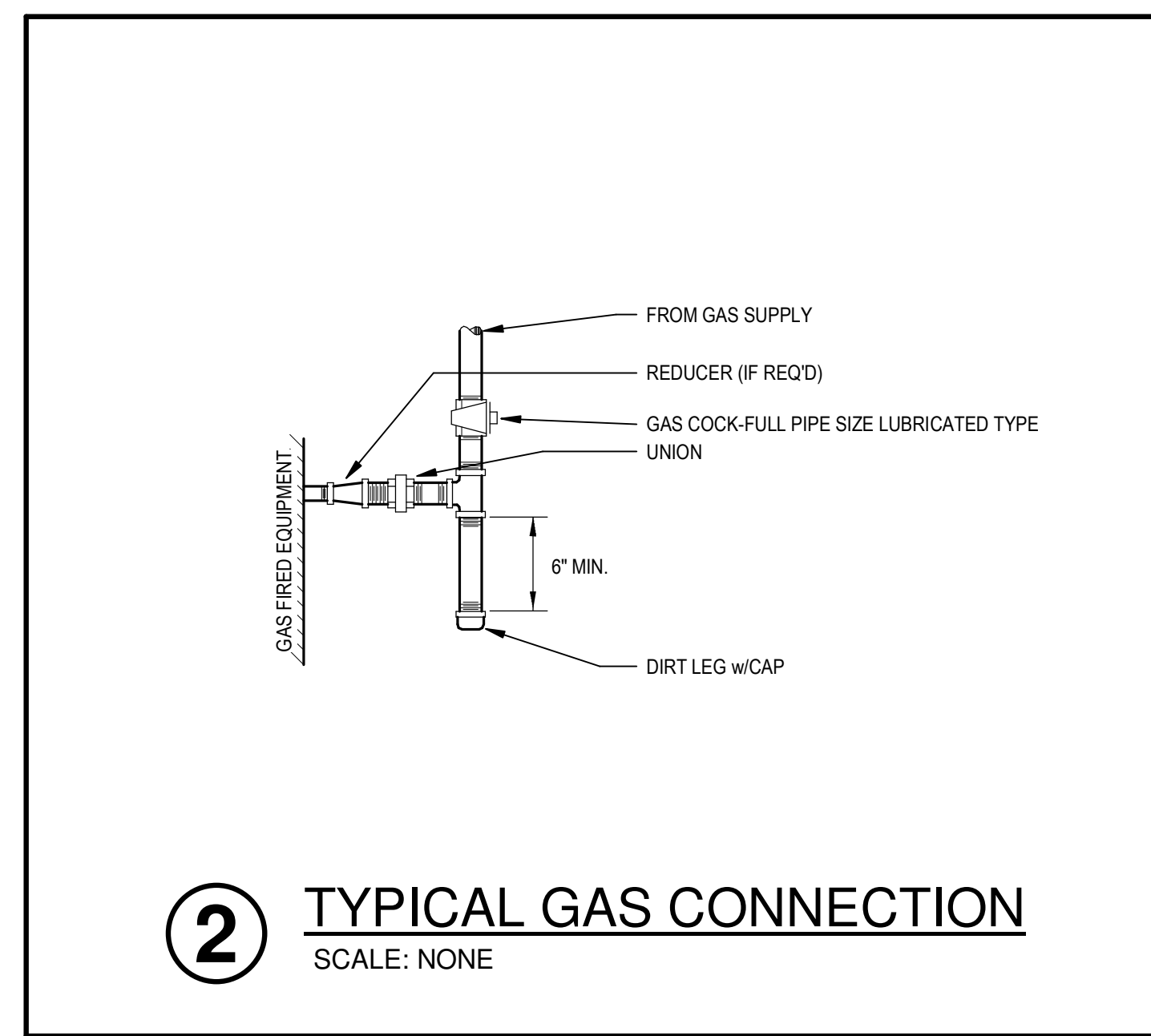
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ROOF PLAN -
 PLUMBING

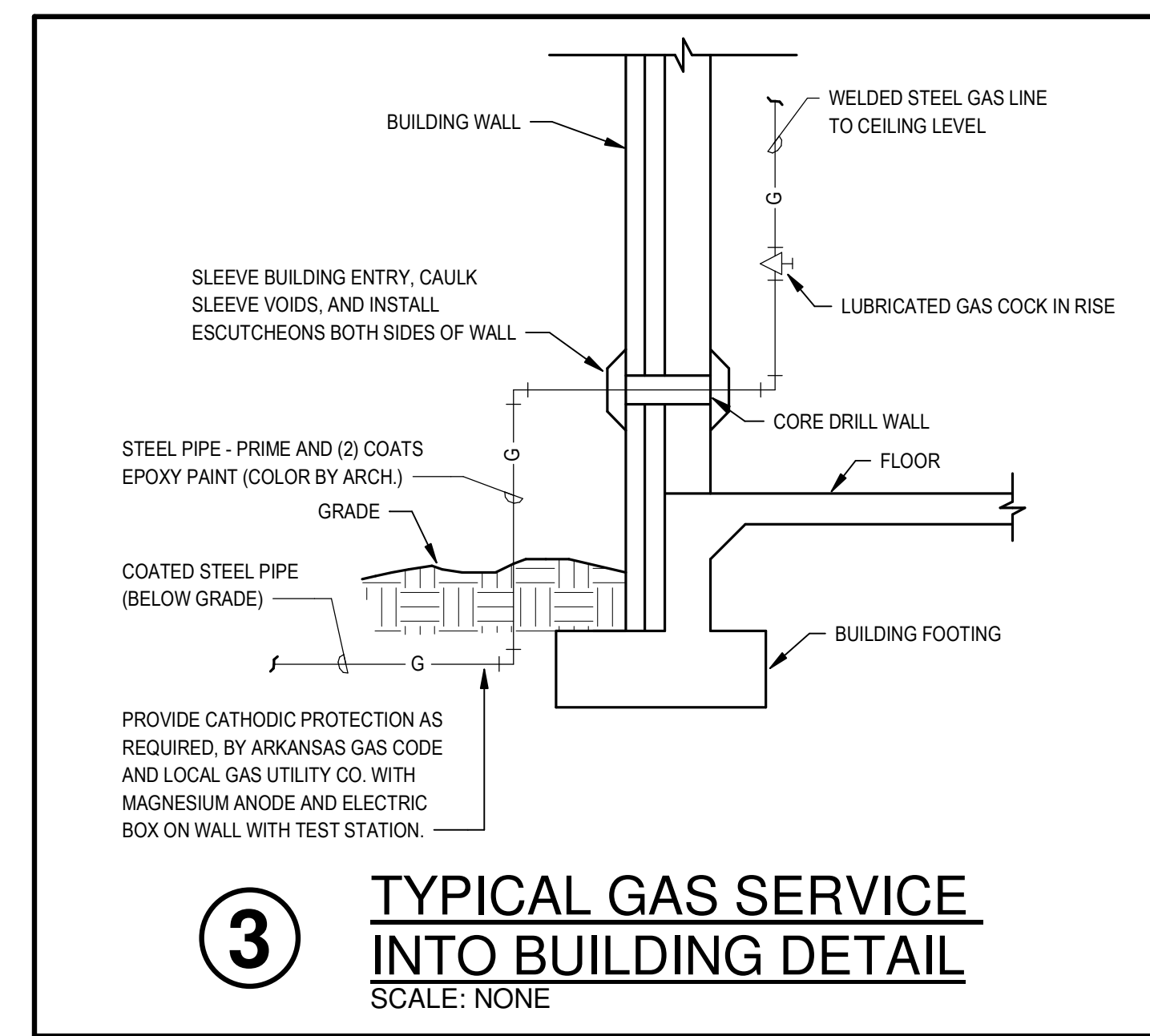
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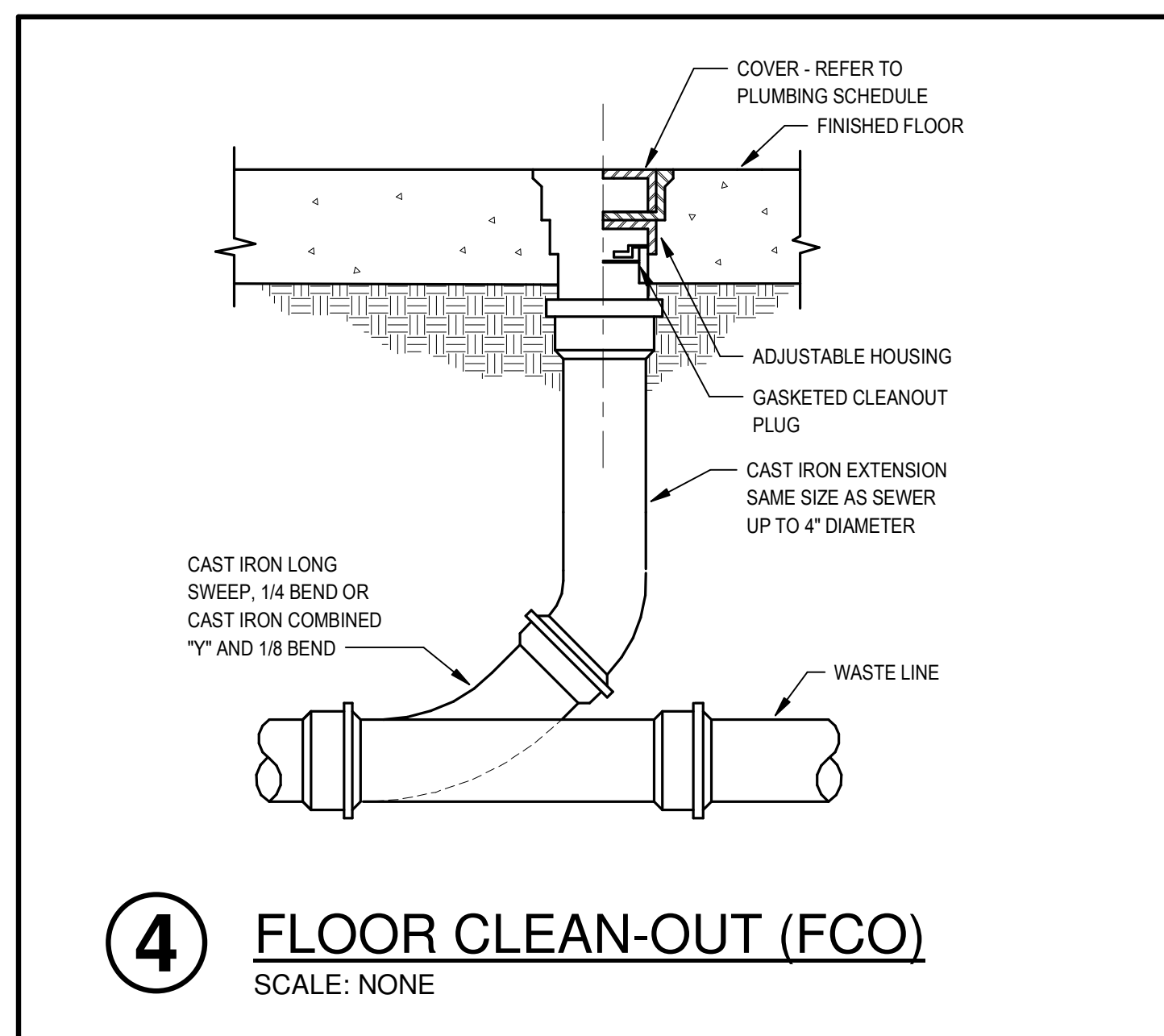
1 CONNECTIONS OF NEW FITTINGS IN EXISTING WASTE PIPING BELOW FLOOR
SCALE: NONE



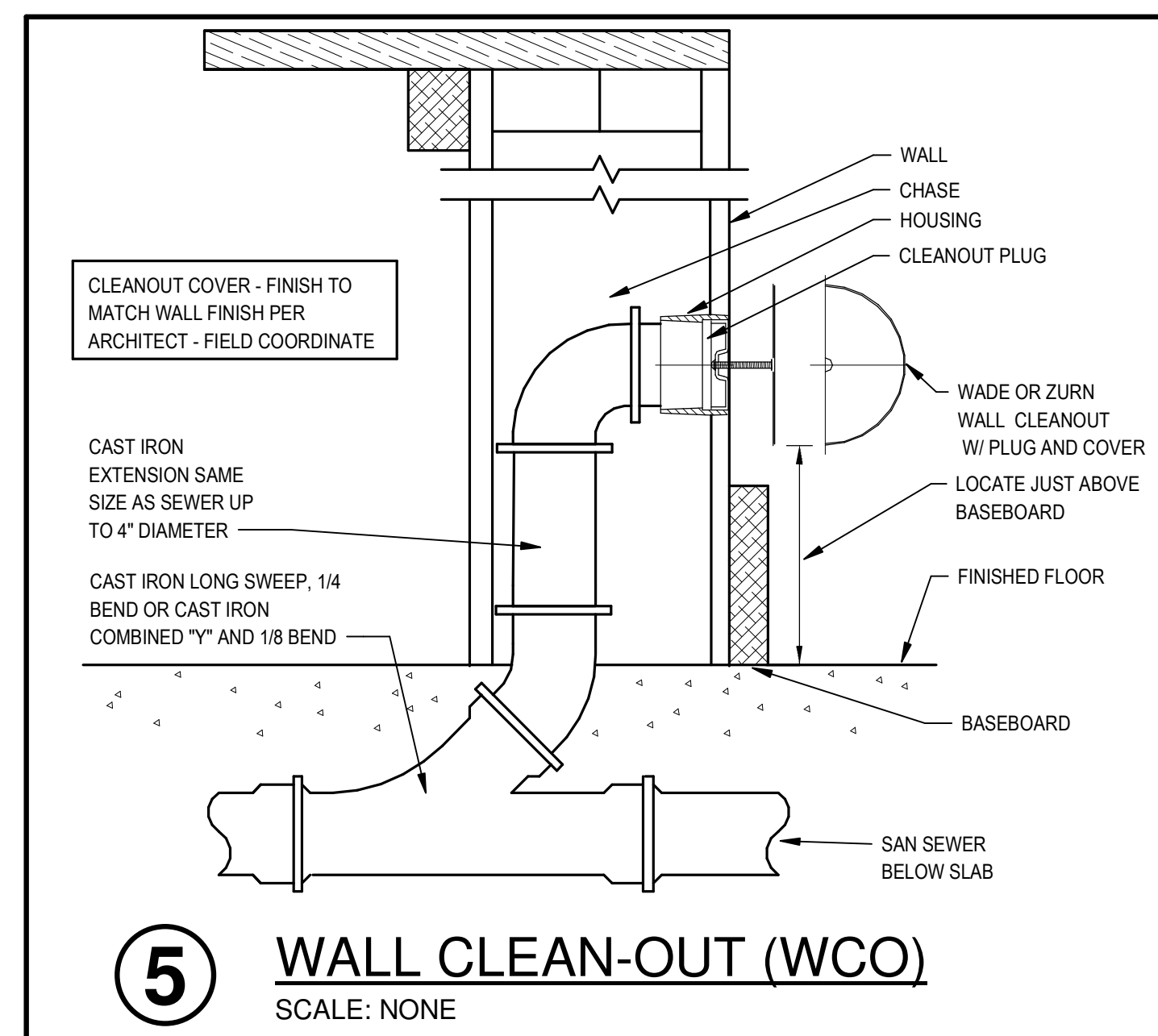
2 TYPICAL GAS CONNECTION
SCALE: NONE



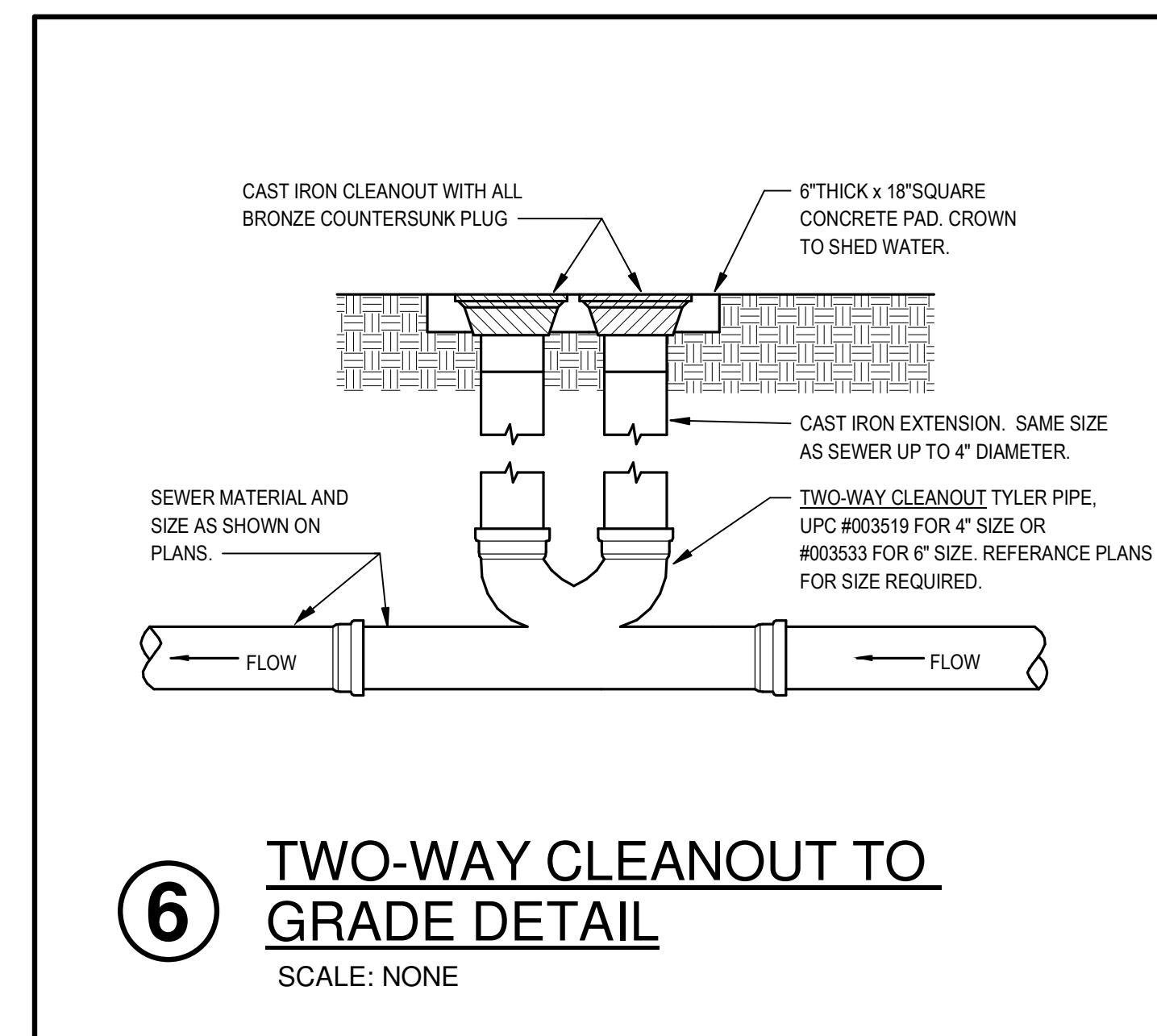
3 TYPICAL GAS SERVICE INTO BUILDING DETAIL
SCALE: NONE



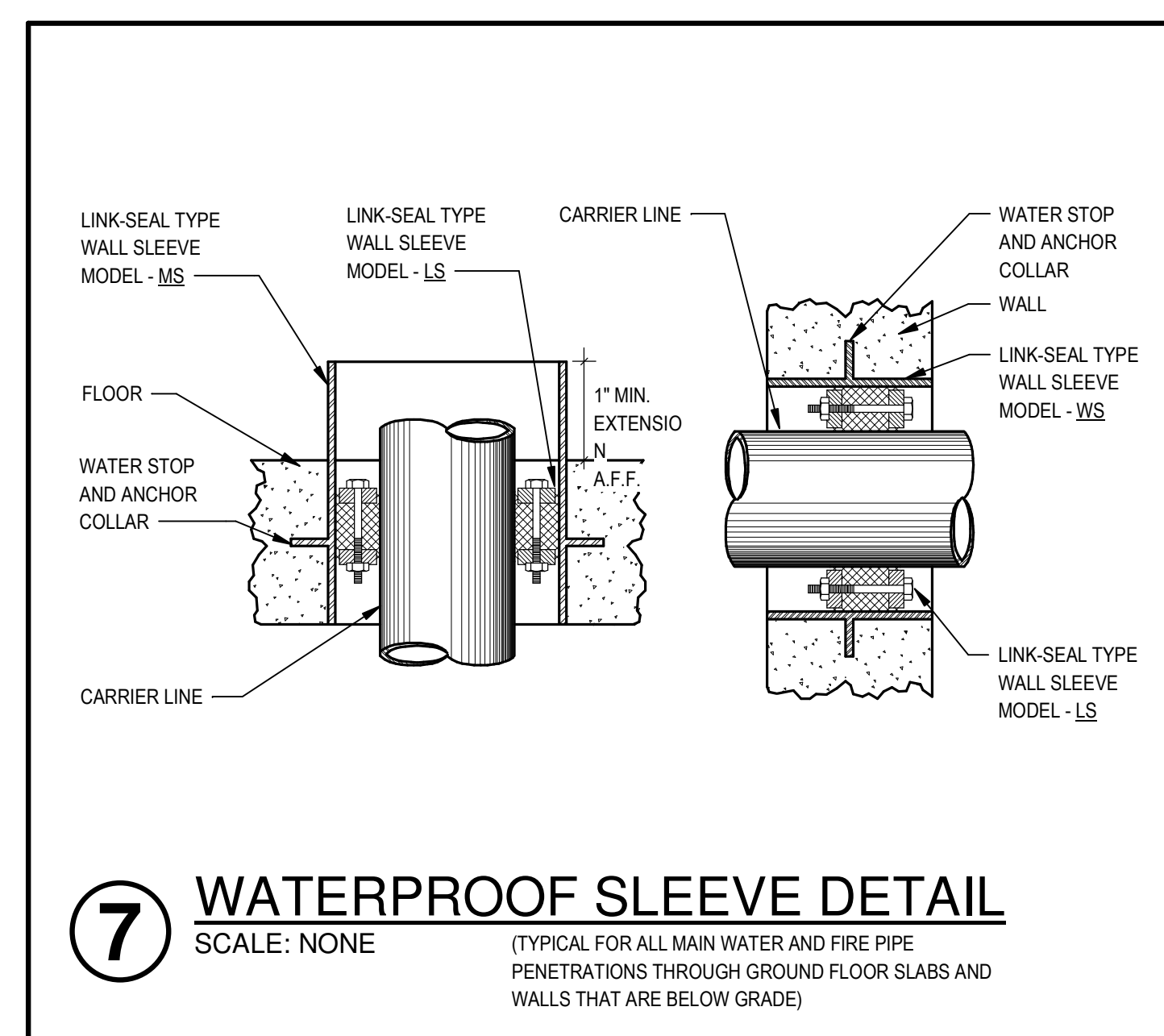
4 FLOOR CLEAN-OUT (FCO)
SCALE: NONE



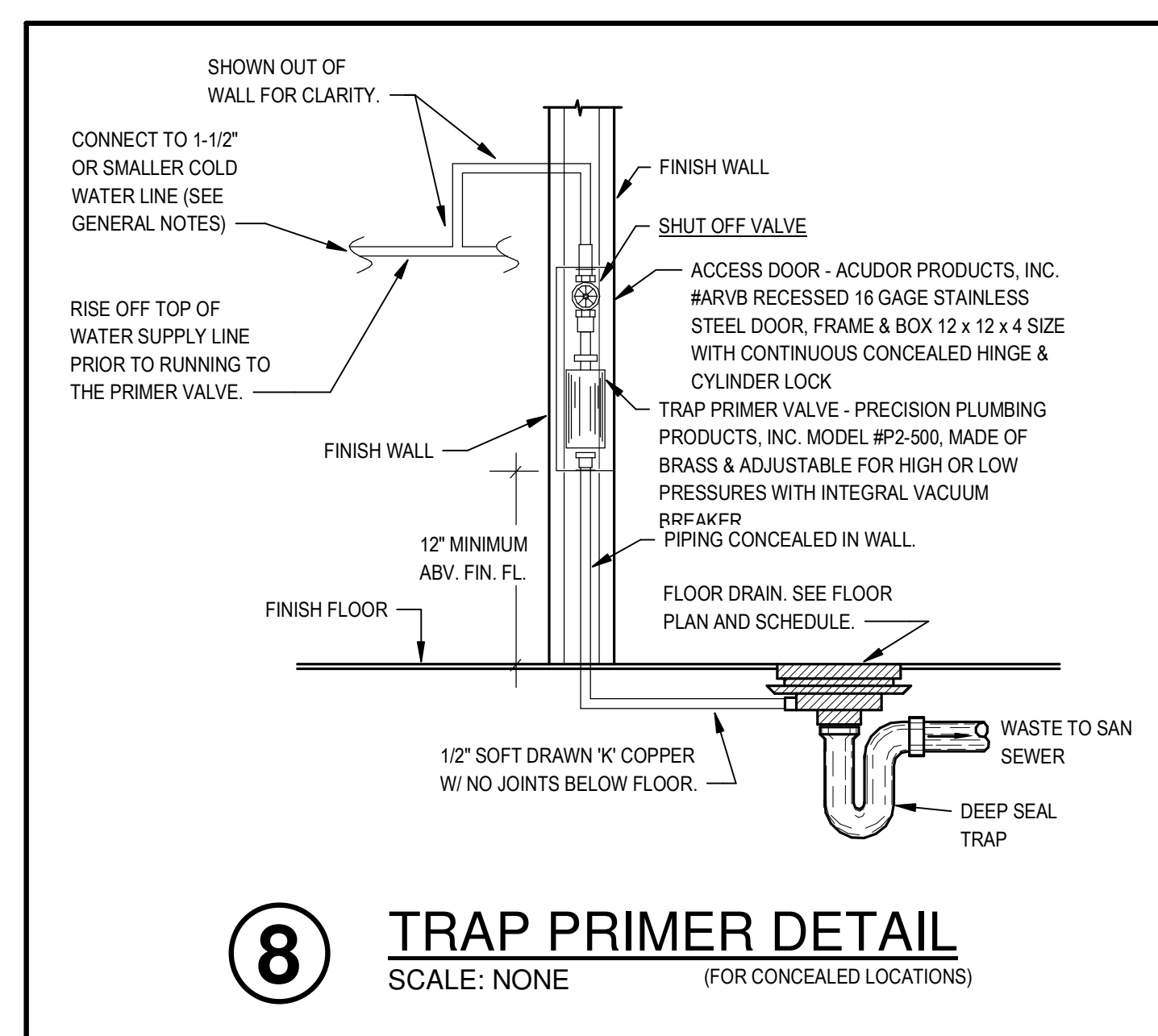
5 WALL CLEAN-OUT (WCO)
SCALE: NONE



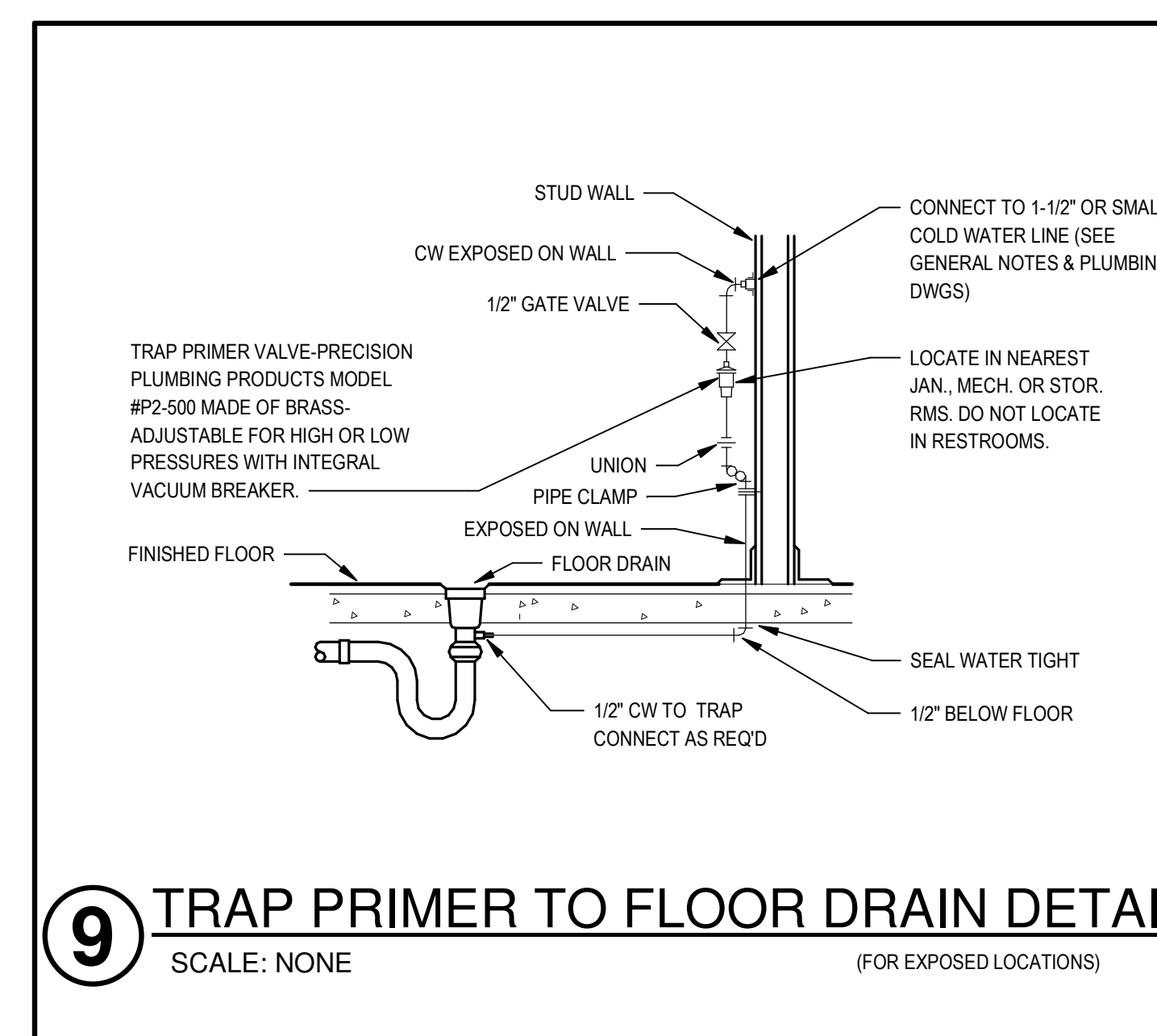
6 TWO-WAY CLEANOUT TO GRADE DETAIL
SCALE: NONE



7 WATERPROOF SLEEVE DETAIL
SCALE: NONE
(TYPICAL FOR ALL MAIN WATER AND FIRE PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)



8 TRAP PRIMER DETAIL
SCALE: NONE
(FOR CONCEALED LOCATIONS)

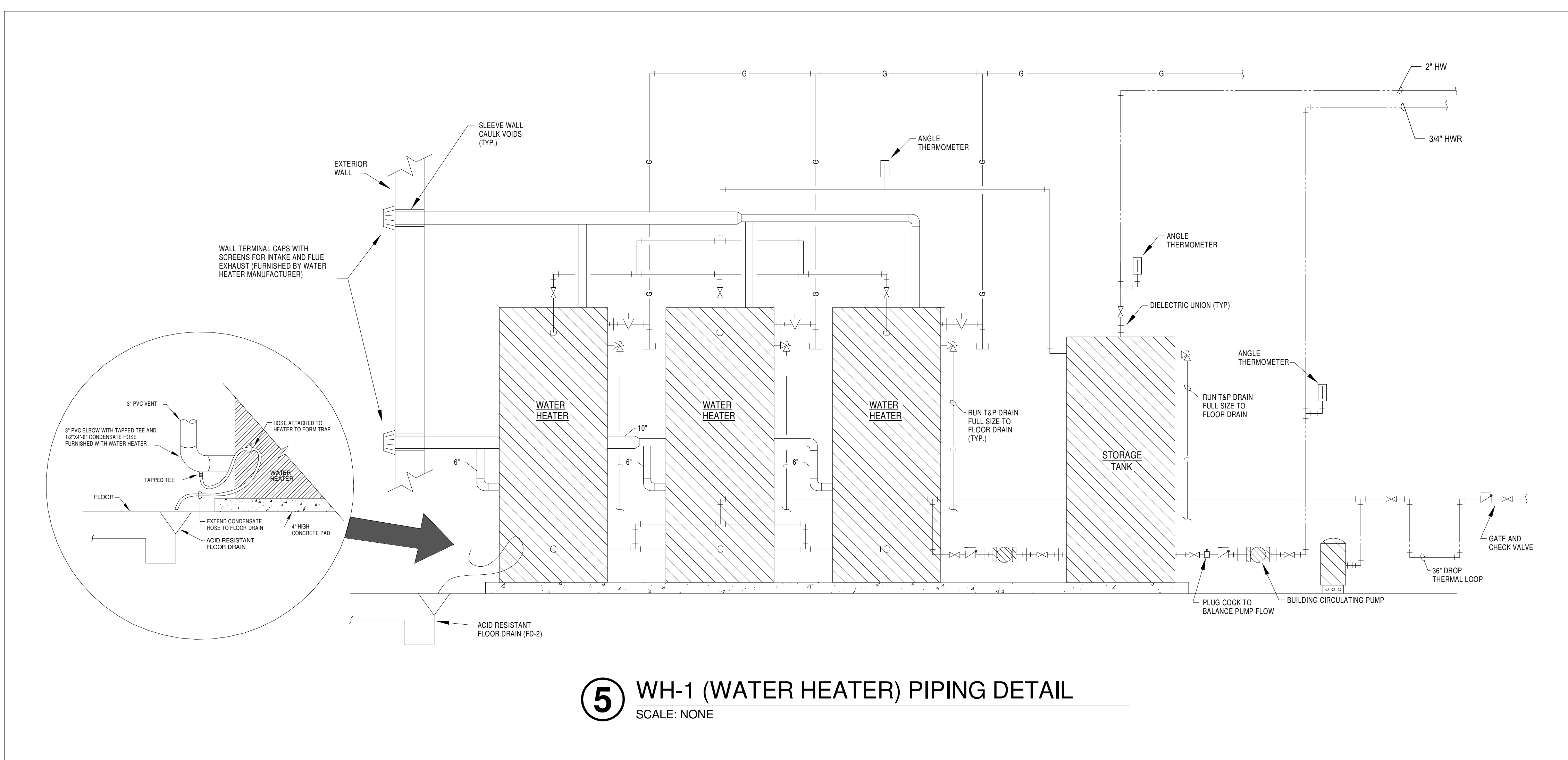
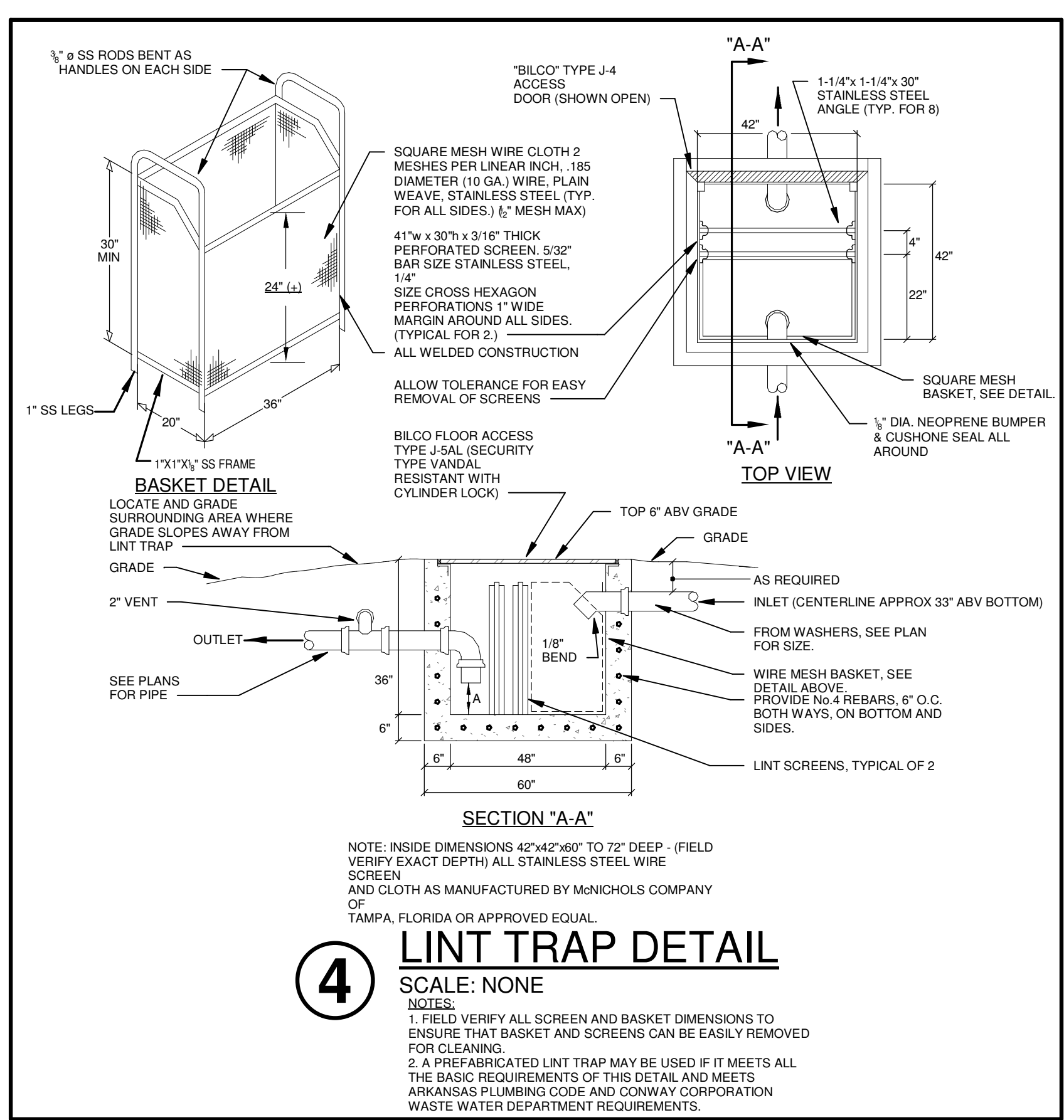
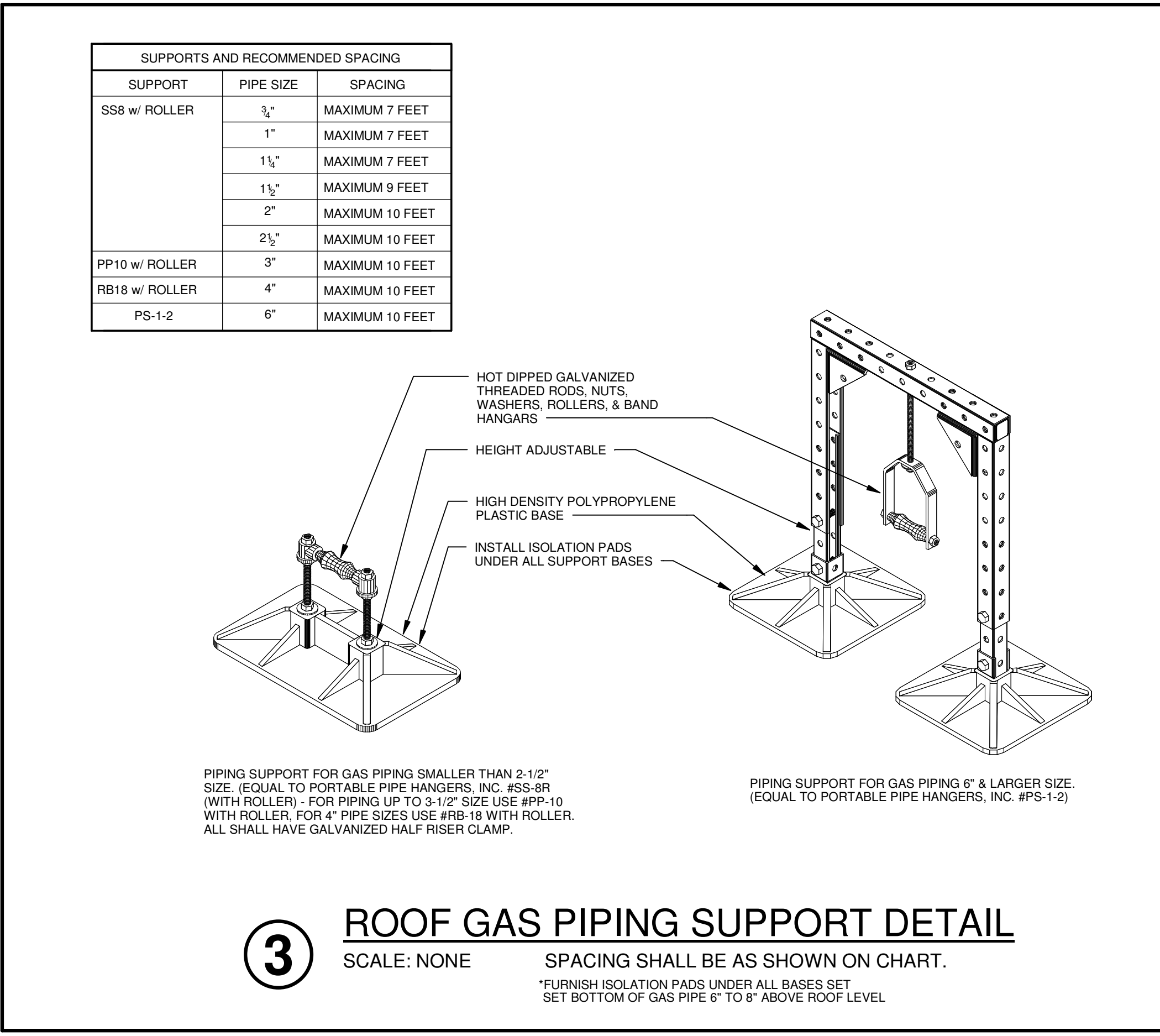
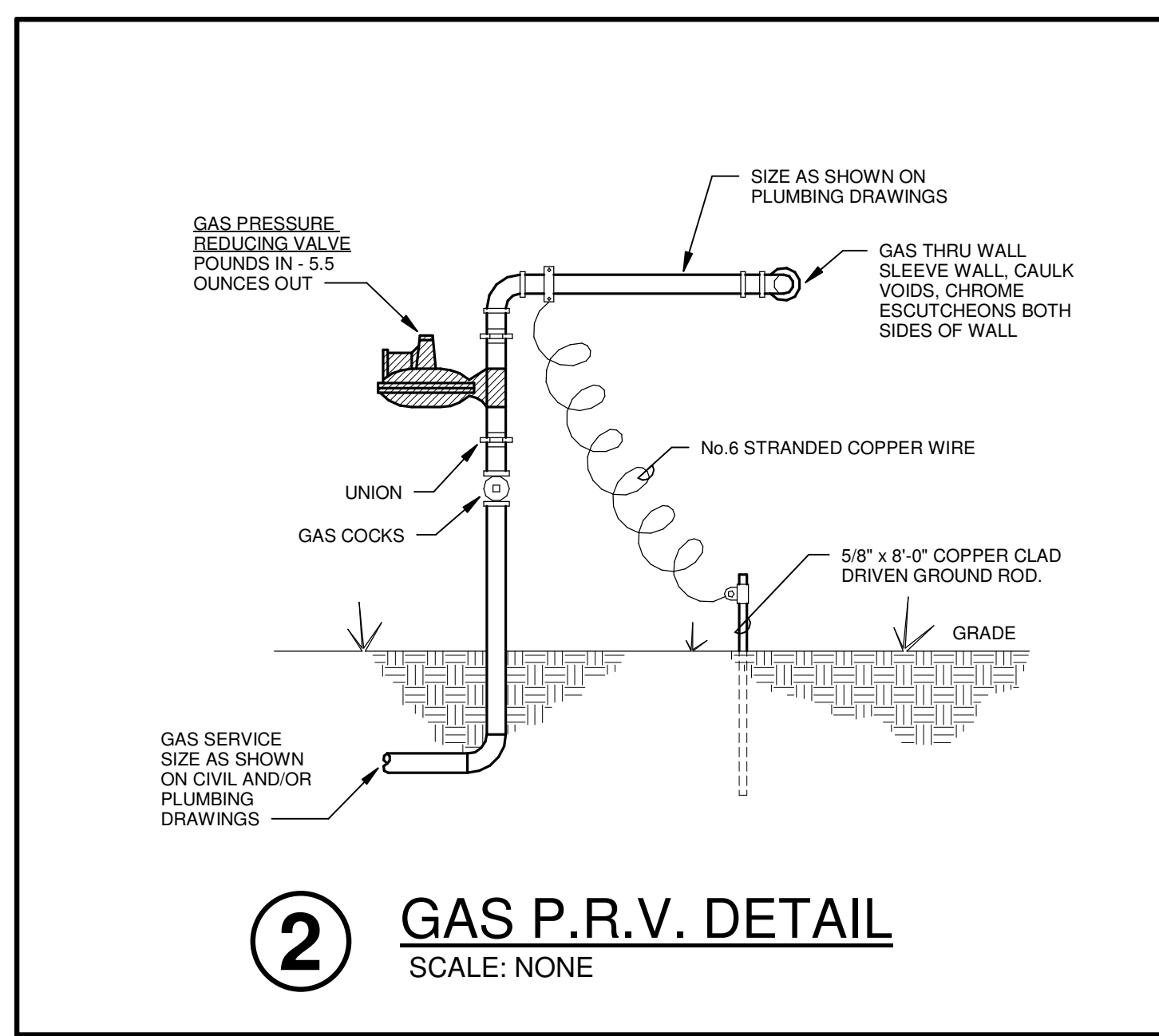
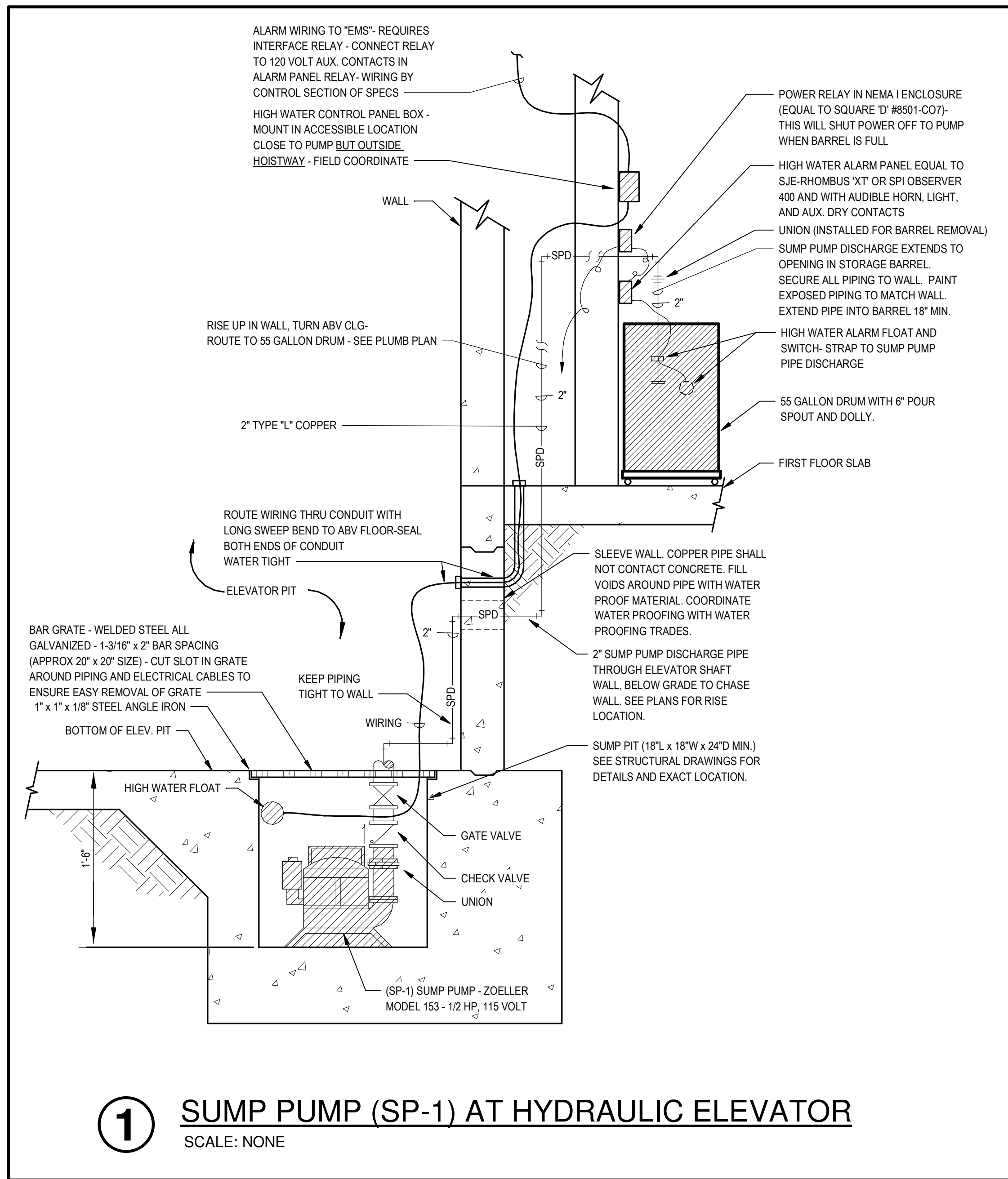
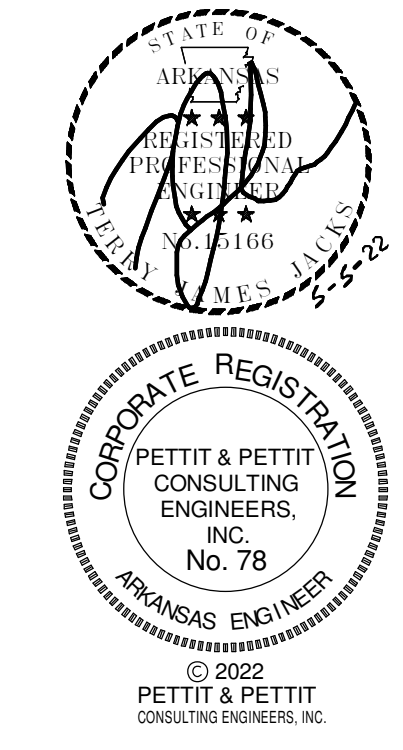


9 TRAP PRIMER TO FLOOR DRAIN DETAIL
SCALE: NONE
(FOR EXPOSED LOCATIONS)

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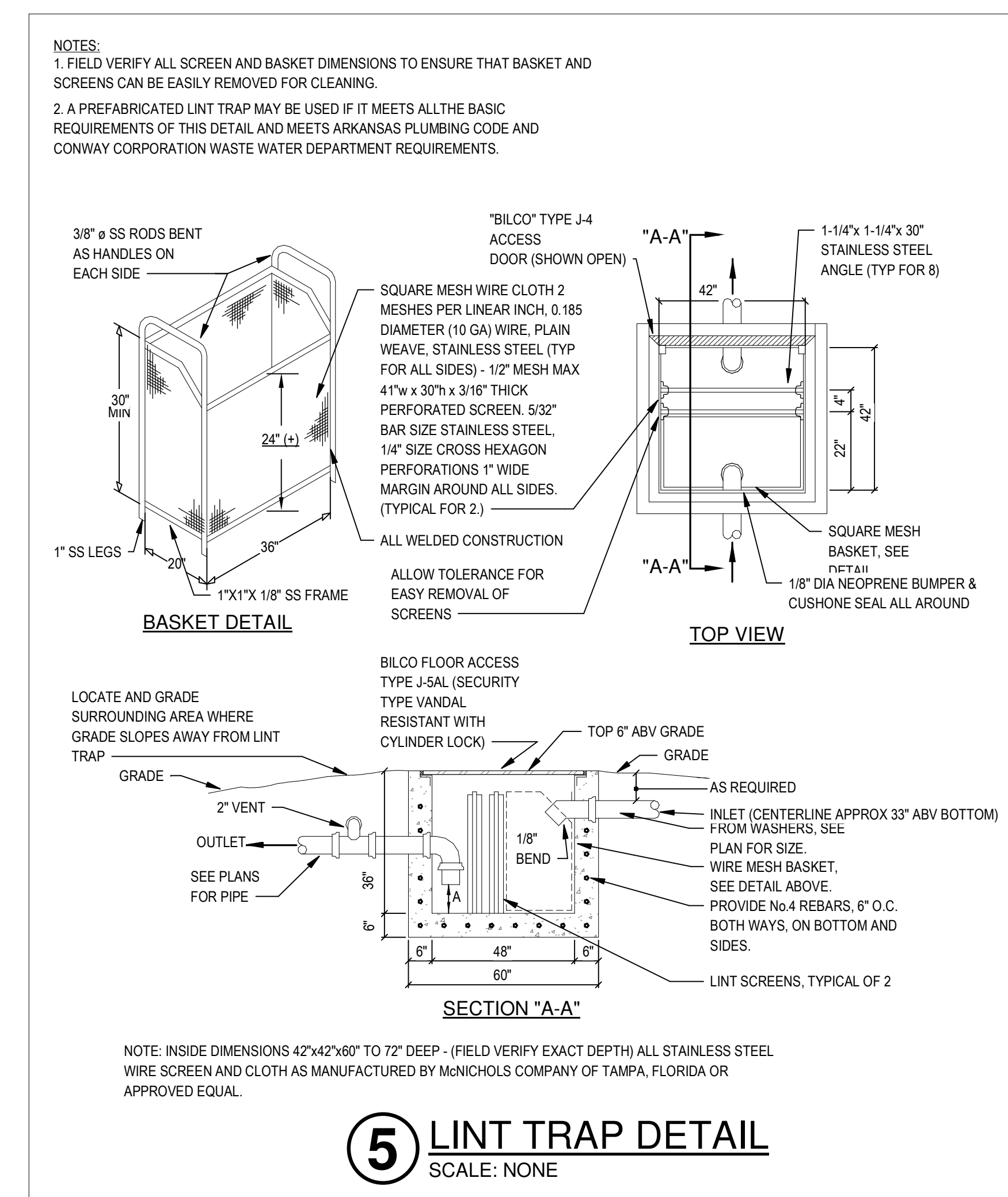
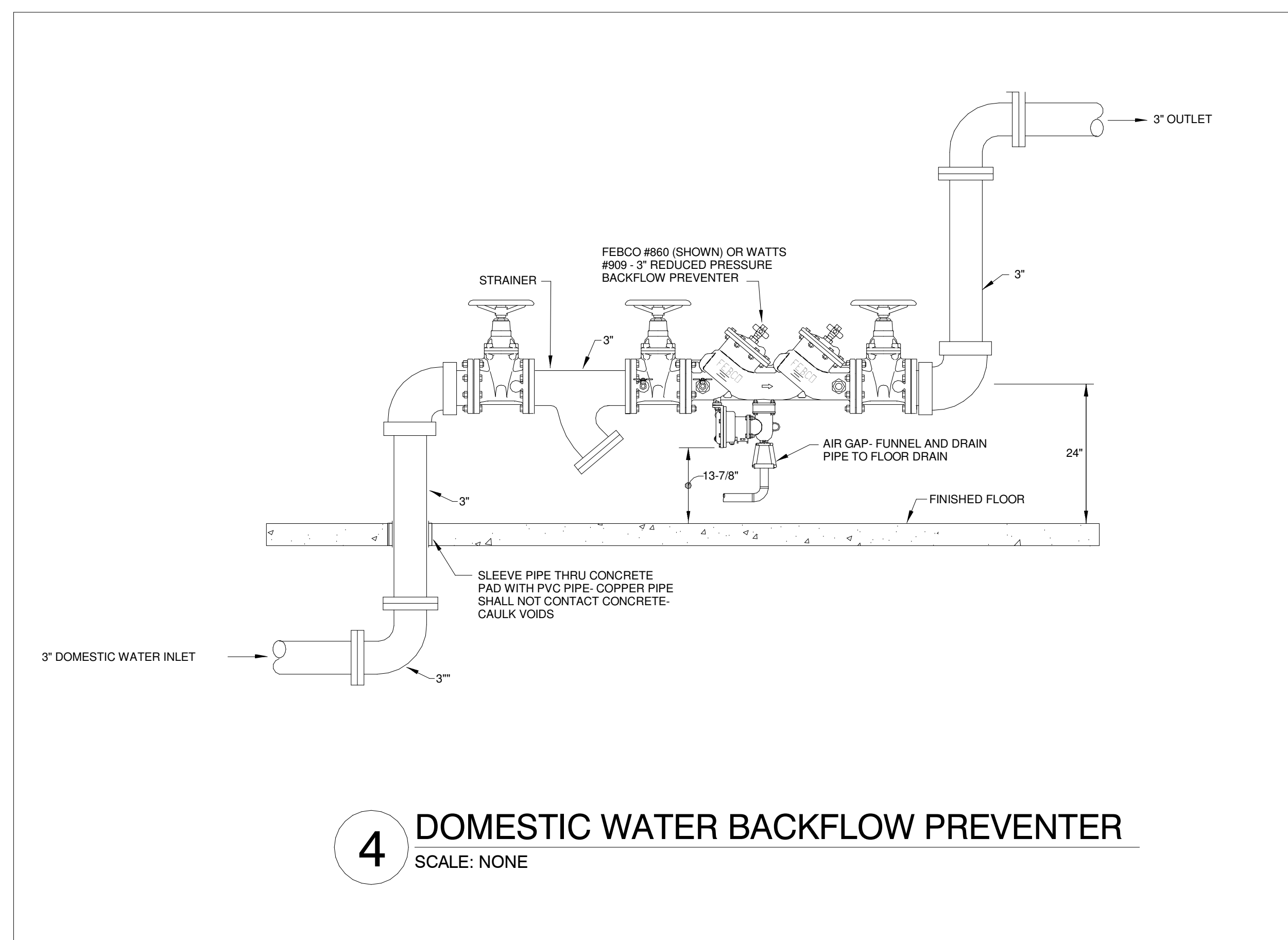
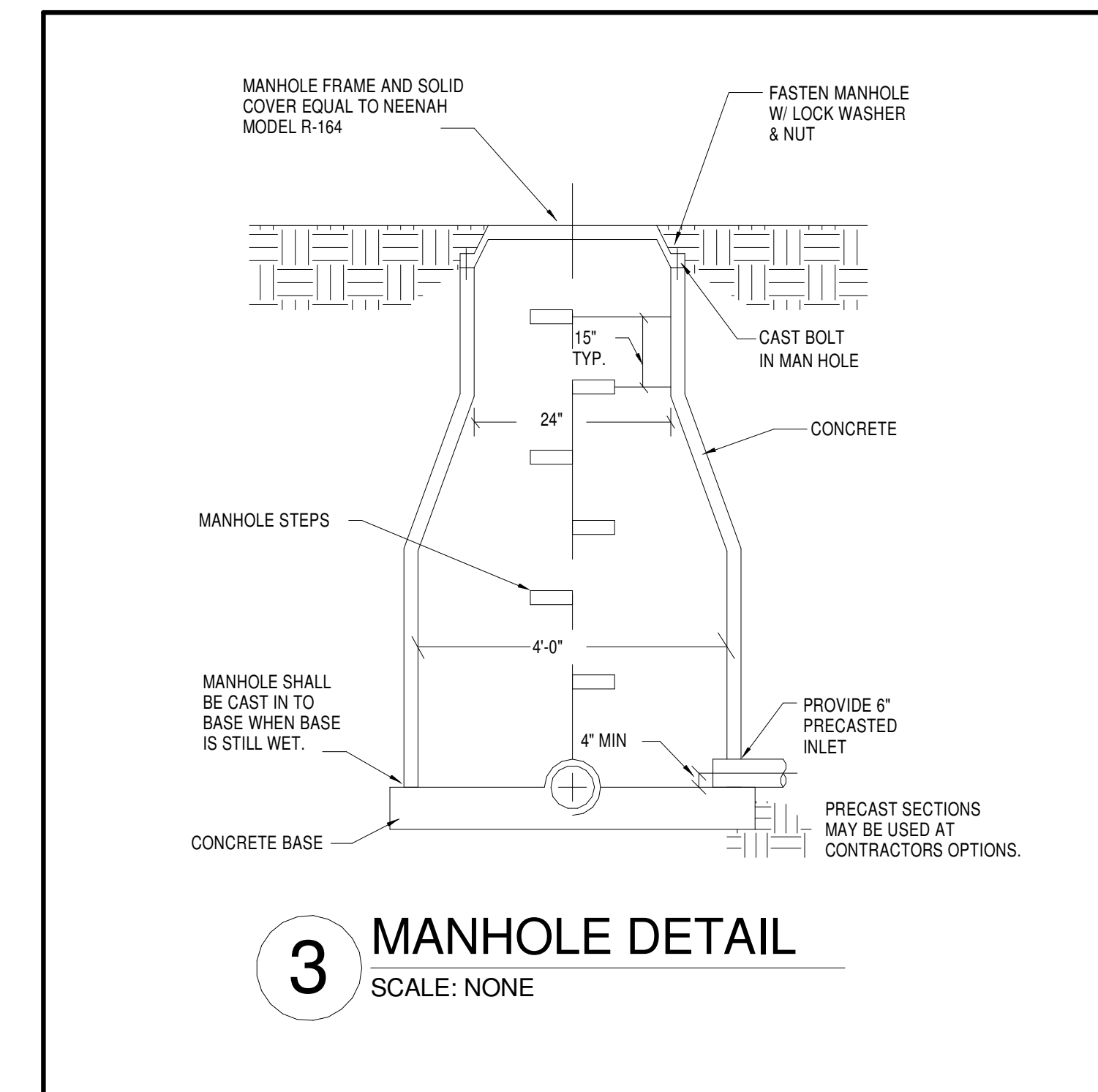
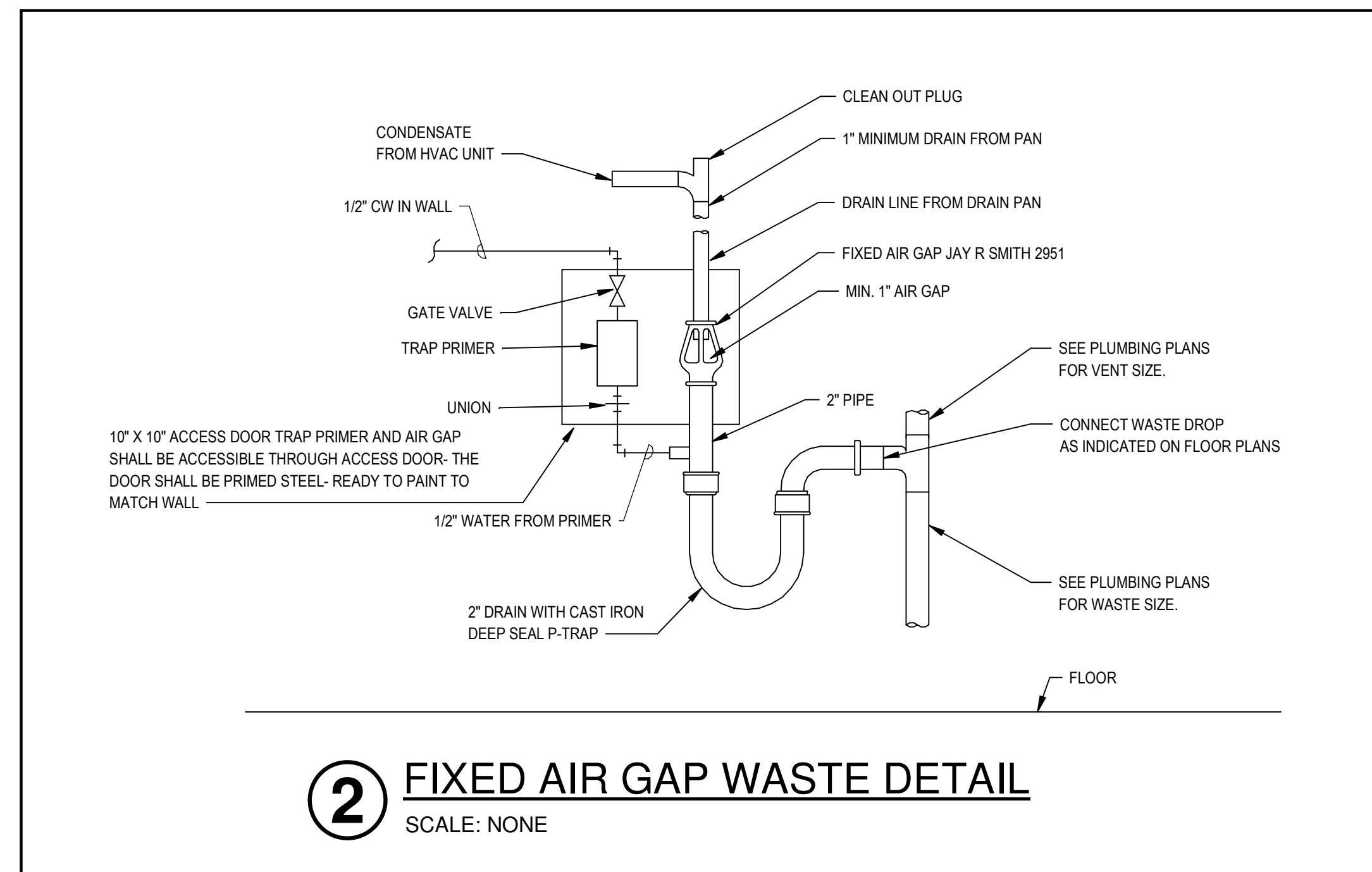
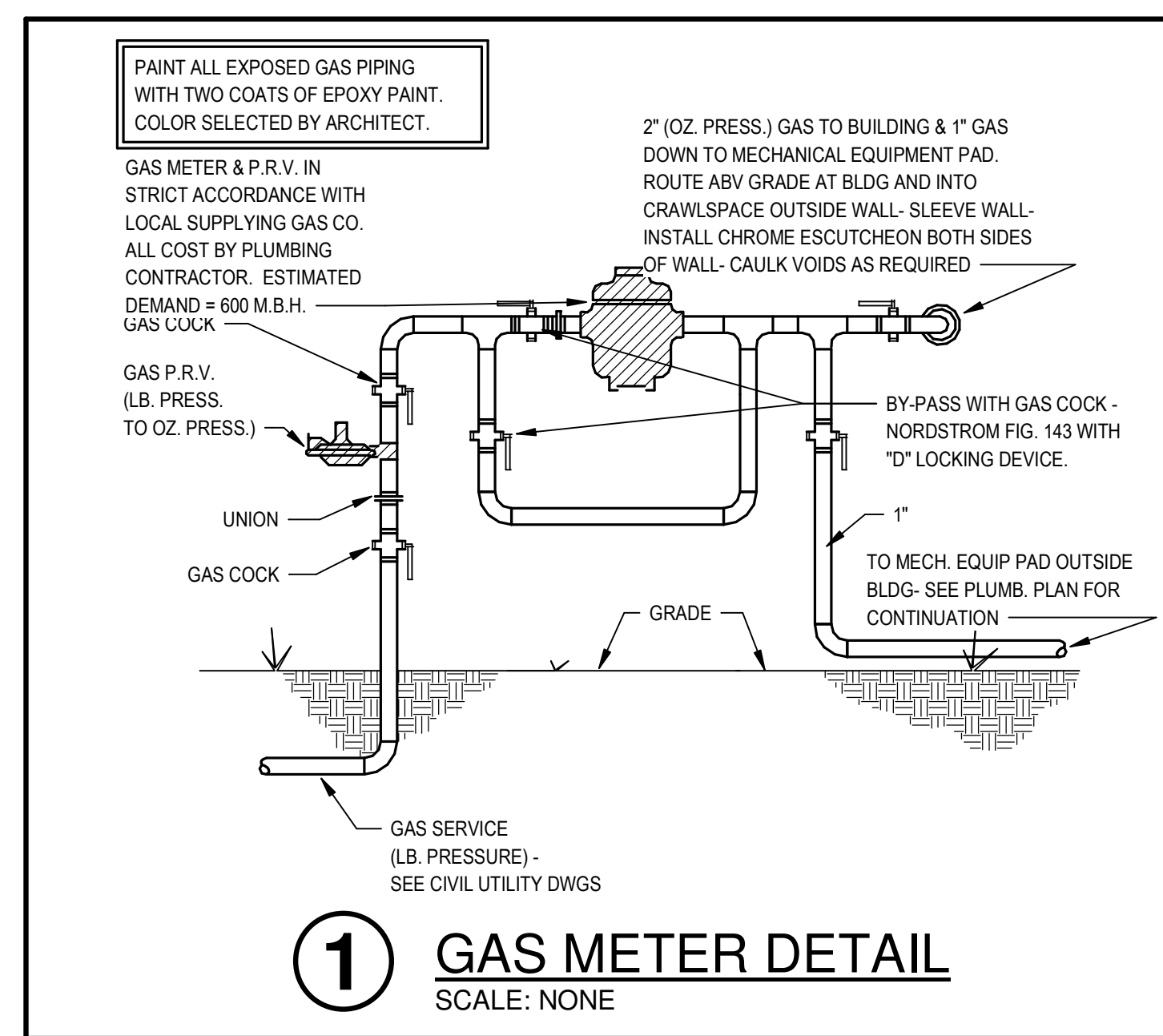


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DATE: May 5, 2022



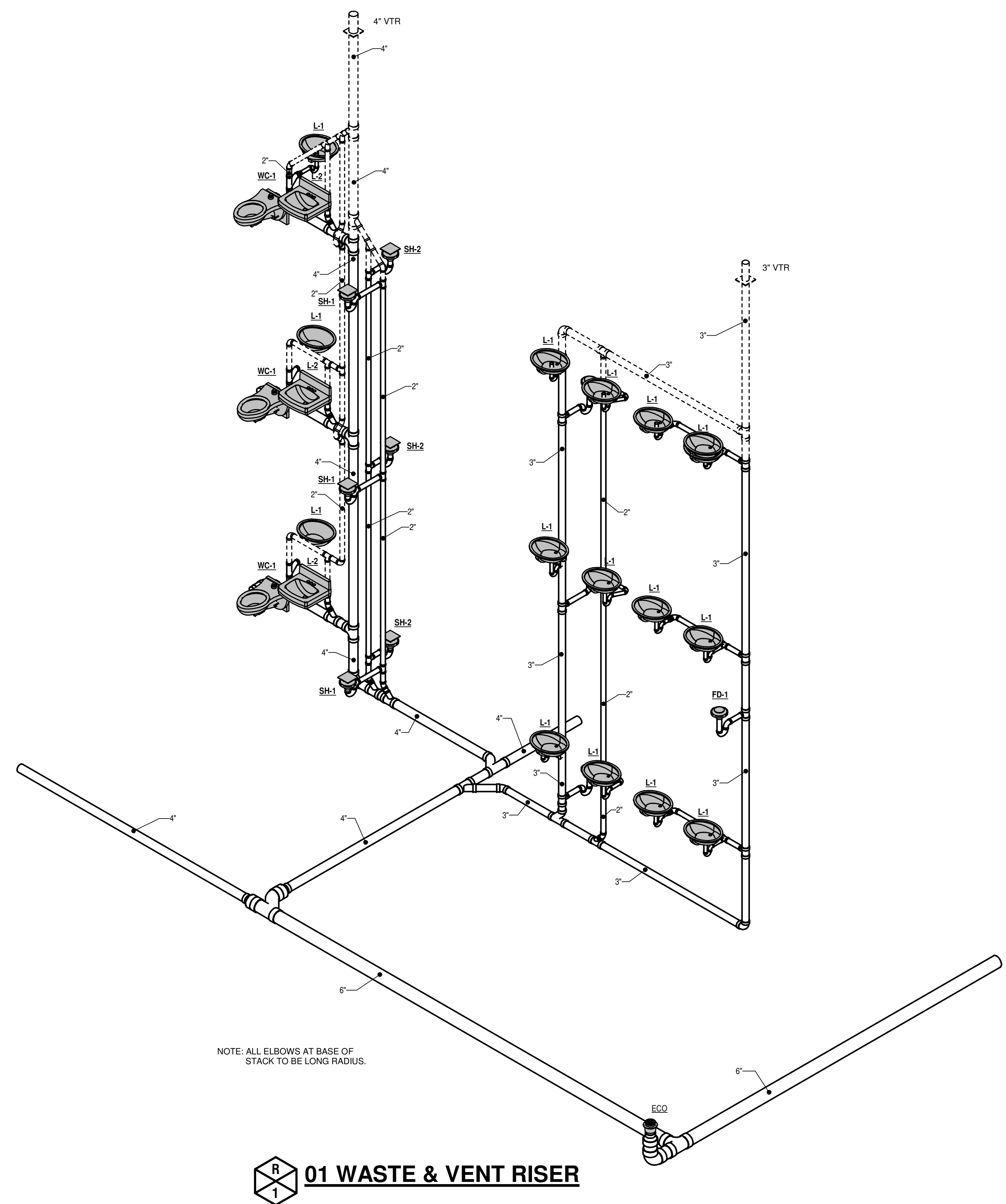
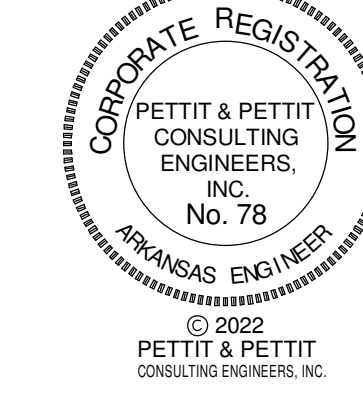
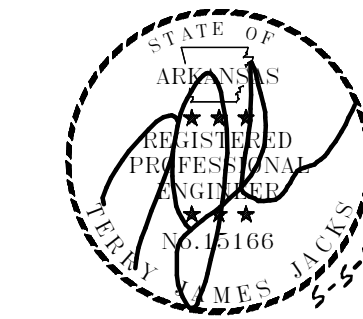
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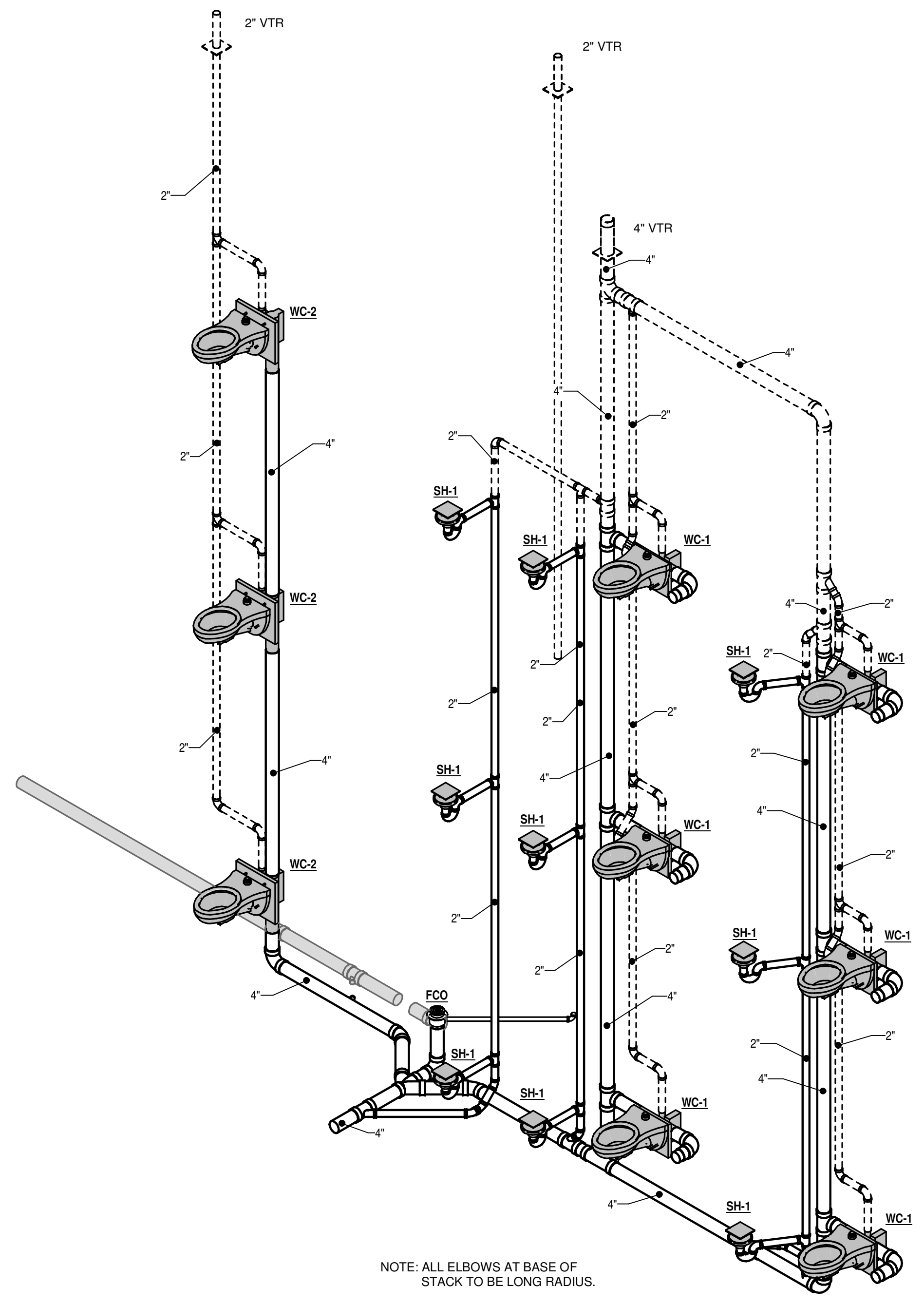
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PLUMBING DETAILS
P2.03



01 WASTE & VENT RISER



02 WASTE & VENT RISER

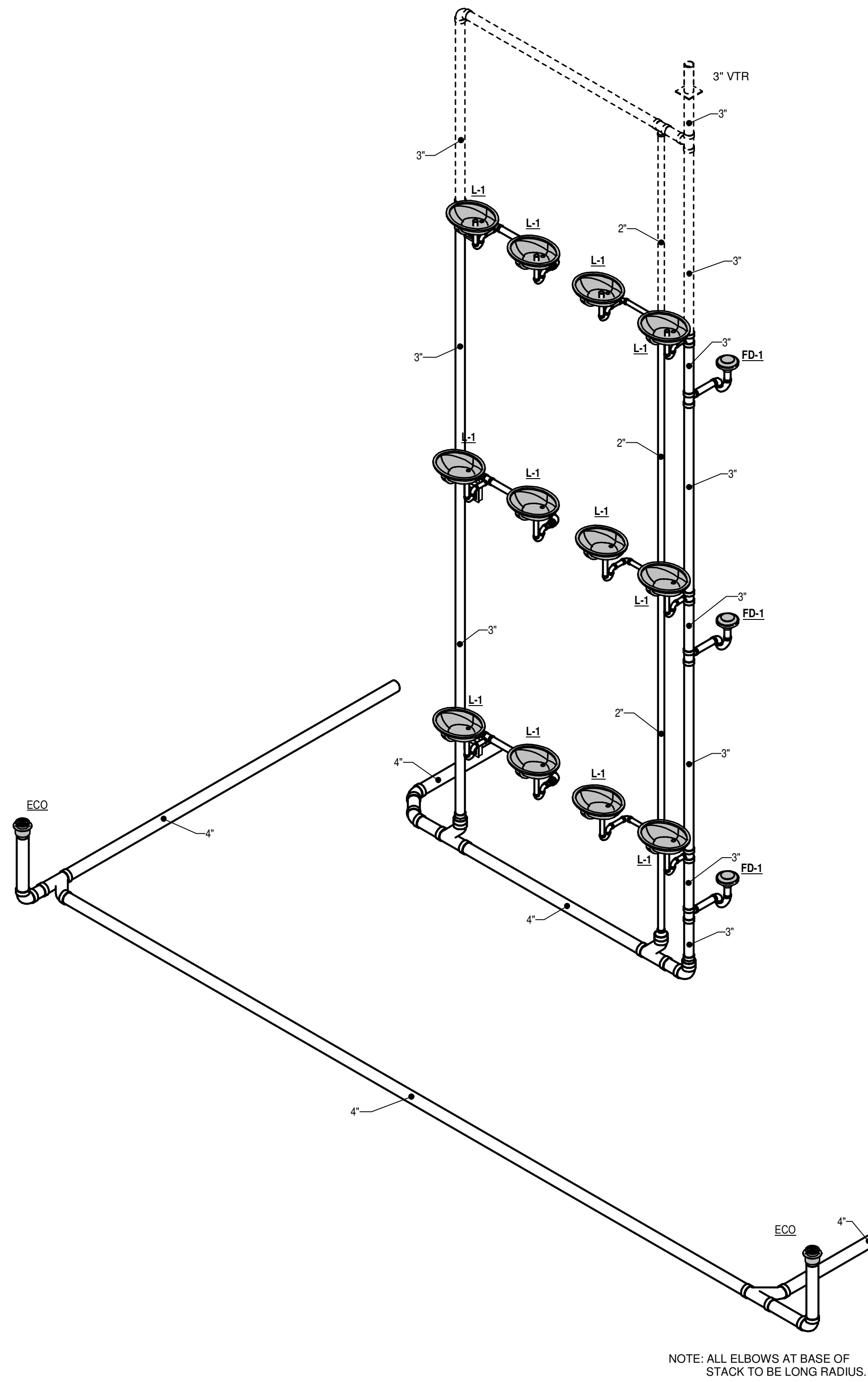
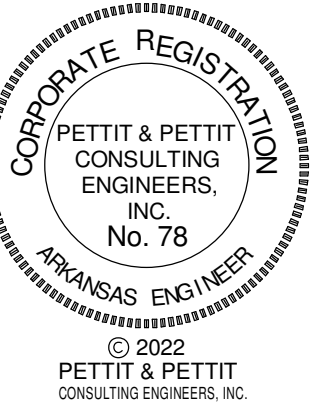
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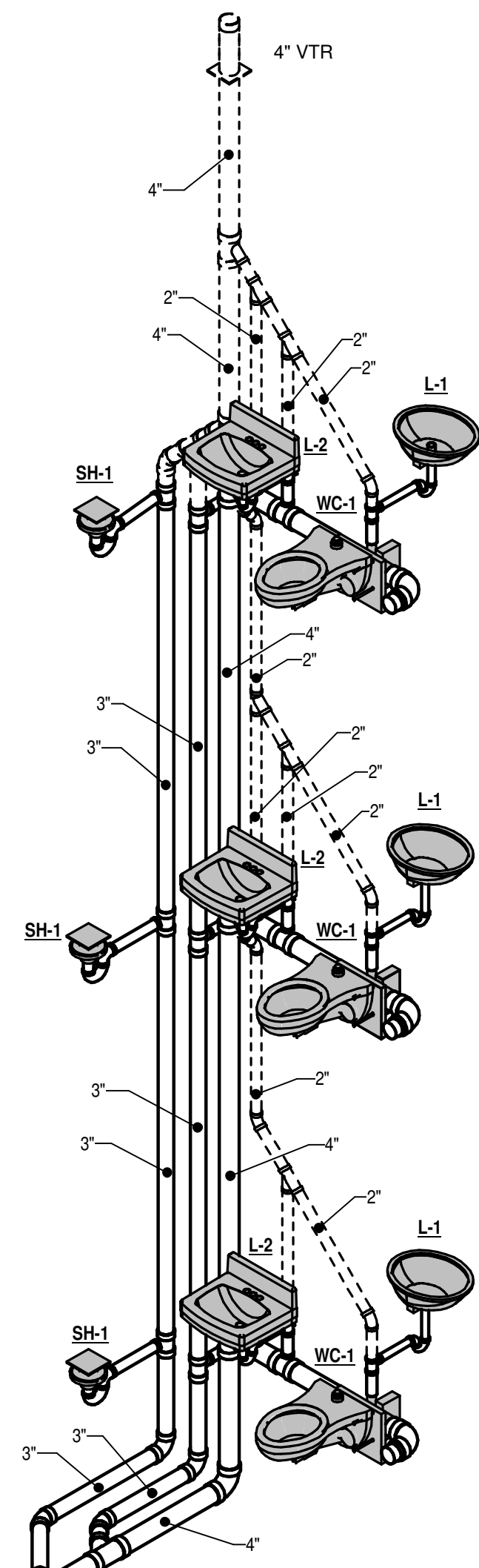
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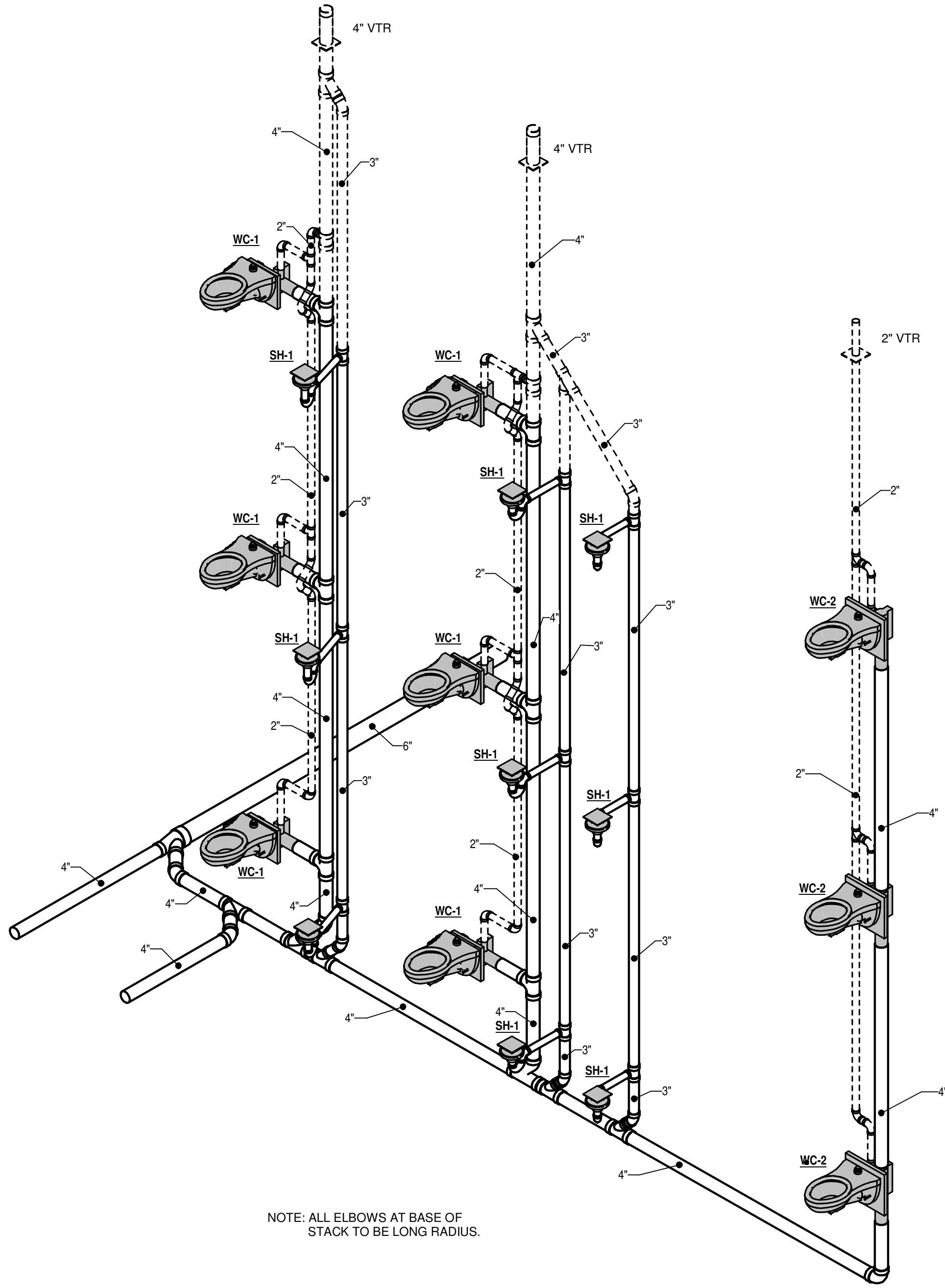
PLUMBING RISERS
P3.01



03 WASTE & VENT RISER



NOTE: ALL ELBOWS AT BASE OF STACK TO BE LONG RADIUS.



04 WASTE & VENT RISER

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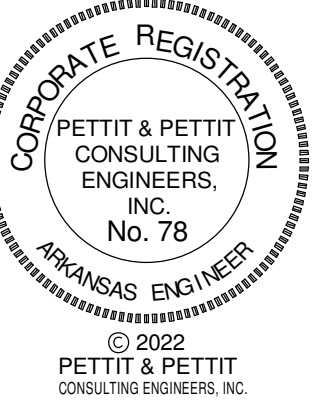
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PLUMBING RISERS

P3.02



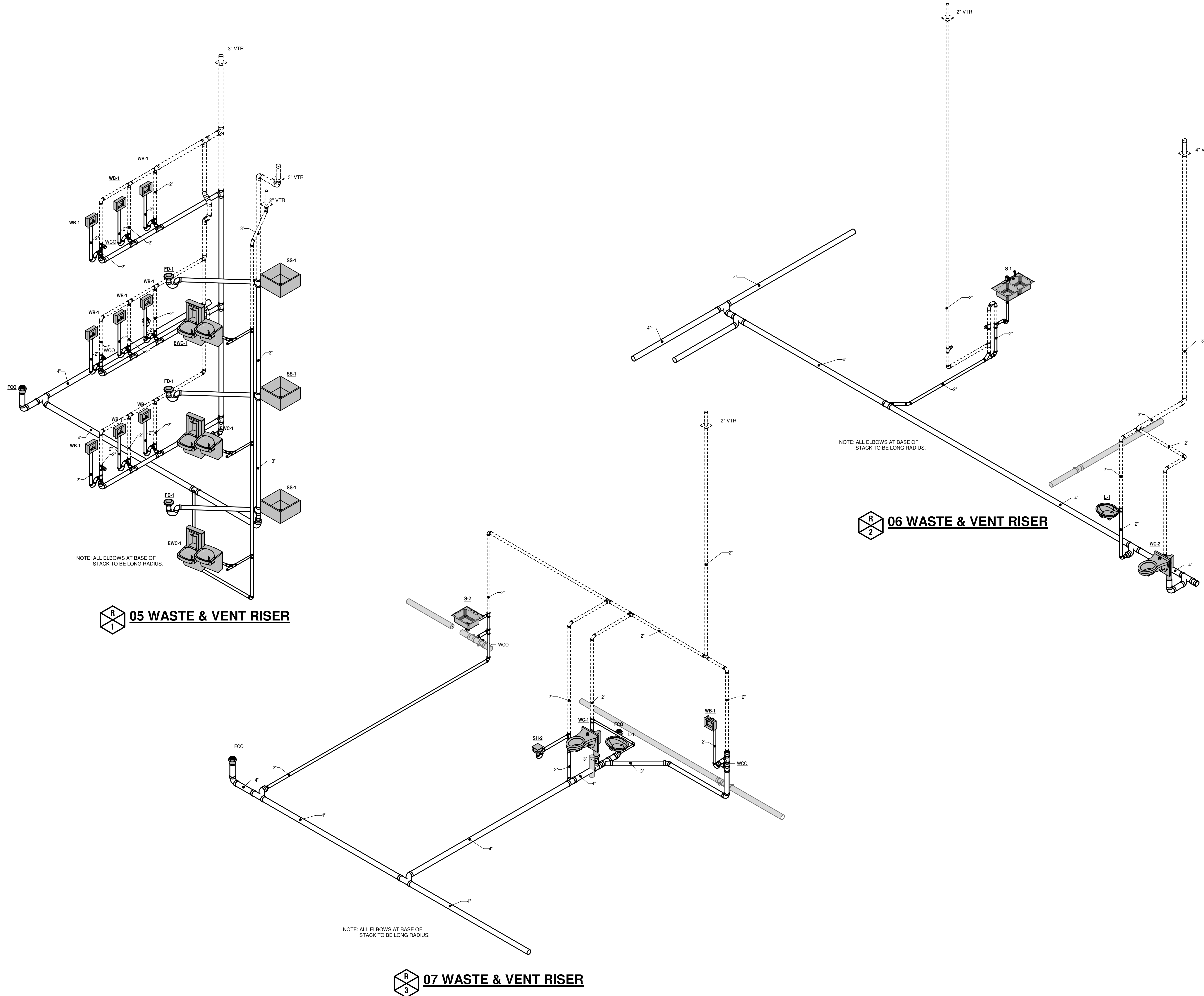
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21054
DATE:
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PLUMBING RISERS
P3.03



05 WASTE & VENT RISER

06 WASTE & VENT RISER

07 WASTE & VENT RISER



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PLUMBING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	ADA COMPLIANT	TRIM	SUPPLIES	TRAP	GPM	SUPPORT	COMMENTS	
EWC-1	Oasis International	PGFBSBFL	Versacooler II (with VersaFilter System) Split Level shall deliver 8 gallons of 60 degree F water at 80 degree in let water and 90 degree F ambient. Bubblers shall be chrome-plated brass (or stainless steel) and built in regulator to deliver smooth ready stream at supply pressures from 20 to 125 psi. Model shall include PG&C and VersaFilter Sports Bottle Filler with handle free activation. Cooler top shall be 304 stainless steel with anti-splash design. Cooler frame shall be 16-gauge welded steel and prime coated for corrosion protection. Cabinet Finish shall be Brushed Stainless Steel. Water cooler shall have 5-year warranty on sealed refrigeration system and most component parts.			McQuire H-ST2LK heavy cast brass straight stop with loose key handle, 1/2 inch size;	McQuire 8088 (1-1/4 inch) polished chrome plated cast brass adjustable ground swivel pattern with cleanout;		Zurn Z-1225-BL 'Rigid Plate System' having steel uprights with support plates, and bearing jacks mounted on adjustable header	NOTE: See Architectural drawings for exact locations and mounting height requirements.	
HB-1	Woodford Manufacturing Company	B79	Wall Hydrant, ASSE backflow preventer, 3/4 inch inlet and outlet, 360 degree inlet orientation, polished brass finish, loose tee key lockable box. fits inside 4 inch stud wall.								
L-1	Kohler	K-2211	Caston® Undermount lavatory, 19 inch by 15 inch size, vitreous china, oval basin, front overflow.		Kohler K-15265-4NDRA 'Corallia' lavatory faucet with 1/4 inch spout with standard water guard 0.5 gpm aerator, lever handles for 8" centers, coupling nuts, rigid connectors, McQuire 155-A drain with perforated strainer and 1-1/4 inch tailpiece. Contractor to furnish and install below deck thermostatic mixing valve equal to Acom S170 (105° F tempered water to be delivered to HW side of faucet)	McQuire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, c.p. brass nipple to wall;	McQuire 8872 (1-1/4 inch) polished chrome plated cast brass adjustable "P" trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Counter Mounted	NOTE: All exposed supply (hot and cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Tsubro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.	
L-2	Kohler	K-2032	'Greenwich' wall mounted, 20 inch by 18 inch size, vitreous china with back, rectangular basin, splash lip, front overflow and two soap depressions		Kohler K-15240-4NDRA 'Corallia' lavatory faucet with 4 7/16 inch spout with vandal resistant 0.5 gpm aerator, ADA lever handles, McQuire 155-A drain with perforated strainer and 1-1/4 inch tailpiece; Furnish and install below deck thermostatic mixing valve equal to Acom S170 at each lav. (105 F tempered water to delivered to HW side of faucet)	McQuire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, c.p. brass nipple to wall;	McQuire 8872 (1-1/4 inch) polished chrome plated cast brass adjustable "P" trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Zurn Z-1231 concealed arm carrier having steel uprights with adjustable	NOTE: All exposed supply (hot and cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Tsubro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.	
S-1	Just	DL-ADA-1933-A-GIR	Double Compartment, 19 inch by 33 inch by 8 1/2 inch size, 18 gauge Type 304 (18-8) stainless steel, self rimming, hand blended satin finish, underside undercoated, compartment and faucet deck recessed 3/16 inch below outside of sink, (2) J-35 stainless steel cup strainer with removable stainless steel basket, rubber seat stopper and 1 1/2 inch O.D. chrome plated brass tail piece 4 inches long, punch 4 holes for sidespray.		T&S B-2730 Single lever deck mount faucet, Ceramic Cartridge, 9" Swivel Spout, 2.2 gpm aerator, 10" deck plate, temperature limit stop, 4" reinforced flexible sidespray w/ hose guide.	McQuire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall;	McQuire 8912 (1-1/2 inch) polished chrome plated cast brass adjustable "P" trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Counter Mounted		
S-2	Just	SL-ADA-N21-A-R	Single Compartment, 19 inch x 21 inch x 1/2 inch size, 18 gauge Type 304 (18-8) stainless steel, self rimming, hand blended satin finish, underside undercoated, compartment and faucet deck recessed 3/16 inch below outside of sink, J-35-SSP stainless steel flat strainer, 1-1/2 inch od stainless steel tailpiece 4 inches long, punch (3) holes for 8 inch faucet.	Yes	T&S B-2730 Single lever deck mount faucet, Ceramic Cartridge, 9" Swivel Spout, 2.2 gpm aerator, 10" deck plate, temperature limit stop.	McQuire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall;	McQuire 8912 (1-1/2 inch) polished chrome plated cast brass adjustable "P" trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Counter Mounted		
SH-1			Site Built Shower- See Architectural Drawings. Plumbing contractor to provide and install Wade 1100G-5 inch diameter nickel bronze shower drain with membrane clamping flange (verify exact clamping flange required with architectural requirements), Symmons 'Origins' model 9601 2.0-231-X-P pressure balancing mixing valve, all brass construction, adjustable stop screw, integral service stops, super c.p. brass showerhead with 2.0 gpm flow restrictor, arm and flange.								
SH-2			Site Built Shower- See Architectural Drawings. Plumbing contractor to provide and install Wade 1100G-5 inch diameter nickel bronze shower drain with membrane clamping flange (verify exact clamping flange required with architectural requirements), Symmons 9605-630-2-0-231-X 'Origins' pressure balancing mixing valve, all brass construction, adjustable stop screw, integral service stops, lever diverter with volume control, super c.p. brass showerhead with 2.0 gpm flow restrictor, arm and flange, wall / hand shower with 60 degree metal hose, wall connection and flange, in-line vacuum breaker, 30 inch slide bar.								
SH-3			Site Built Shower- See Architectural Drawings. Plumbing contractor to provide and install Wade 1100G-5 inch diameter nickel bronze shower drain with membrane clamping flange (verify exact clamping flange required with architectural requirements), Symmons 'Origins' model 9601 2.0-231-X-P pressure balancing mixing valve, all brass construction, adjustable stop screw, integral service stops, super c.p. brass showerhead with 2.0 gpm flow restrictor, arm and flange.								
SS-1	ELKAY	MS-MOD-E507	20 inch x 24 inch x 11 1/4 inch, 304 Stainless Steel, 3 inch outlet. Provide 'T-40' mop hanger, 'T-35' hose, and 'BP' stainless steel back splash panels.		T&S B-0665-BSTP faucet, polished chrome finish, integral stops, threaded spout, pail hook, wall brace, lever handles, vacuum breaker, 8inch centers.				Cast Iron 3 inch size, deep seal type below floor	Floor Mounted	
WP-1	IPS Corporation	FB200ST	11.62 inch by 9.5 inches tall by 3.6 inches deep, 18 GA. steel box, two 1/2 inch hose bibs, 2inch chase hole with 2 inch rubber washer and lock nut at drain. Provide 18 GA. steel cover.								
WC-1	Kohler	K-4325	Kingston® vitreous china, siphon jet, 1.6 GPF, elongated rim, wall mounted, 1-1/2 inch top spud bowl. Clonite 95-SS 'Industrial' Seat- finish white, extra heavy duty plastic for elongated bowl, open front with concealed check hinge, self-sustaining feature and stainless steel hinge post.	No	Sloan 111-1.6-VO "Regal" exposed flush Valve, Angle Stop, Vacuum Breaker, 1-1/2" Top Spud - 1.6 GPF, wall flange, set screw.	Integral with Fixture			Zurn Z-1203 Series 'Rigid System' Adjustable Horizontal carrier, or Z1204 Vertical carrier. Extra Heavy Duty 750 LB Carrier.	Rim of fixture shall be mounted 17 1/2" above finished floor. Control for ADA flush valve shall be mounted on the wide side of the toilet area. In locations where this occurs to the right of the fixture, furnish and install Sloan 111-C1-YC-YK "Regal" exposed flush valve. Provide Sloan model VBF-72-A vacuum breaker trap primer accessory as required in restrooms with floor drain.	
WC-2	Kohler	K-4325	Kingston®, vitreous china, siphon jet, 1.60 GPF, elongated rim, wall mounted, 1-1/2 inch top spud bowl. Clonite 95-SS 'Industrial' Seat- finish white, extra heavy duty plastic for elongated bowl, open front with concealed check hinge, self-sustaining feature and stainless steel hinge post.	Yes	Sloan 111-1.6-VO "Regal" exposed flush Valve, Angle Stop, Vacuum Breaker, 1-1/2" Top Spud - 1.6 GPF, wall flange, set screw.	Integral with Fixture			Zurn Z-1203 Series 'Rigid System' Adjustable Horizontal carrier, or Z1204 Vertical carrier. Extra Heavy Duty 750 LB Carrier.	Rim of fixture shall be mounted 17 1/2" above finished floor. Control for ADA flush valve shall be mounted on the wide side of the toilet area. In locations where this occurs to the right of the fixture, furnish and install Sloan 111-C1-YC-YK "Regal" exposed flush valve. Provide Sloan model VBF-72-A vacuum breaker trap primer accessory as required in restrooms with floor drain.	

EQUIPMENT (BY OTHERS) - ROUGH IN AND MAKE FINAL CONNECTIONS FOR EQUIPMENT AS INDICATED ON PLANS. FURNISH MCGUIRE, ZURN, OR KOHLER STRAIGHT STOP, (1/2" IPS) OR FEMALE INLET AND OUTLET AND POLISHED CHROMIUM PLATED CAST BRASS, MCGUIRE HEAVY-DUTY (1 1/4") P-TRAP WITH CLEANOUT AND OTHER TRIM AS INDICATED ON PLANS. ALL EXPOSED PIPING SHALL BE CHROMEPLATED AND ESCUTCHEONS SHALL BE C.P. CAST BRASS SET SCREW TYPE.

DRAIN SCHEDULE

SYMBOL	MANUFACTURER	REMARKS
FD-1	WADE SERIES 1100STD FLOOR DRAIN, CAST IRON BODY WITH FLANGE, CLAMPING COLLAR, SEEPAGE OPENINGS AND 7" DIA. NICKEL BRONZE STRAINER -WITH TRAP PRIMER TAP	TYPICAL TLT FD -FURNISH WITH TRAP PRIMER

NOTE: ALL FLOOR DRAINS SHALL BE ACCESSORIZED FOR VANDAL PROOF INSTALLATION
ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS

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1 Addendum No. 2 06-02-22

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REVISED PLUMBING
SCHEDULES

P4.01R

VRF CONDENSING UNIT (CU-7)

CONTRACTOR NOTE

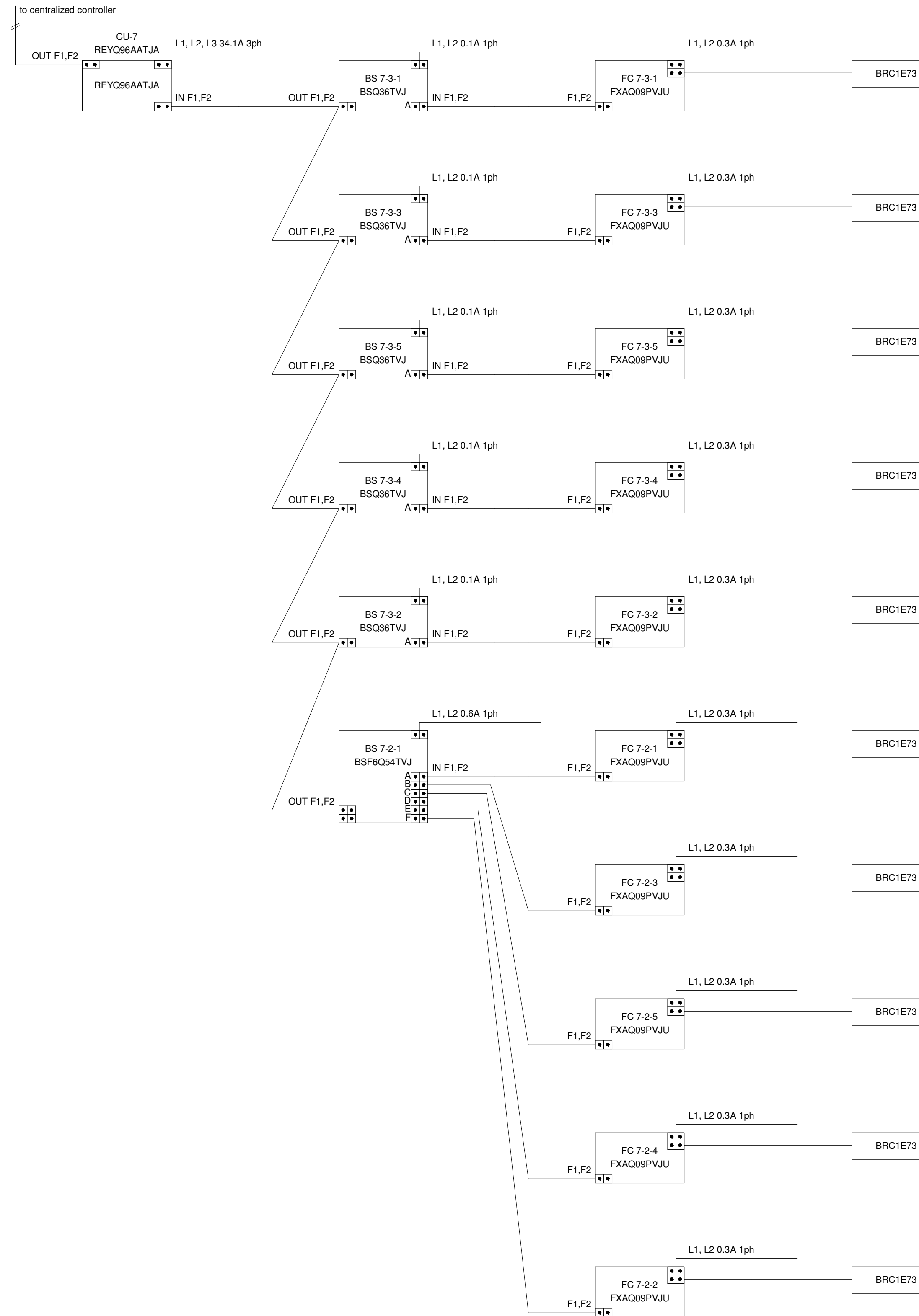
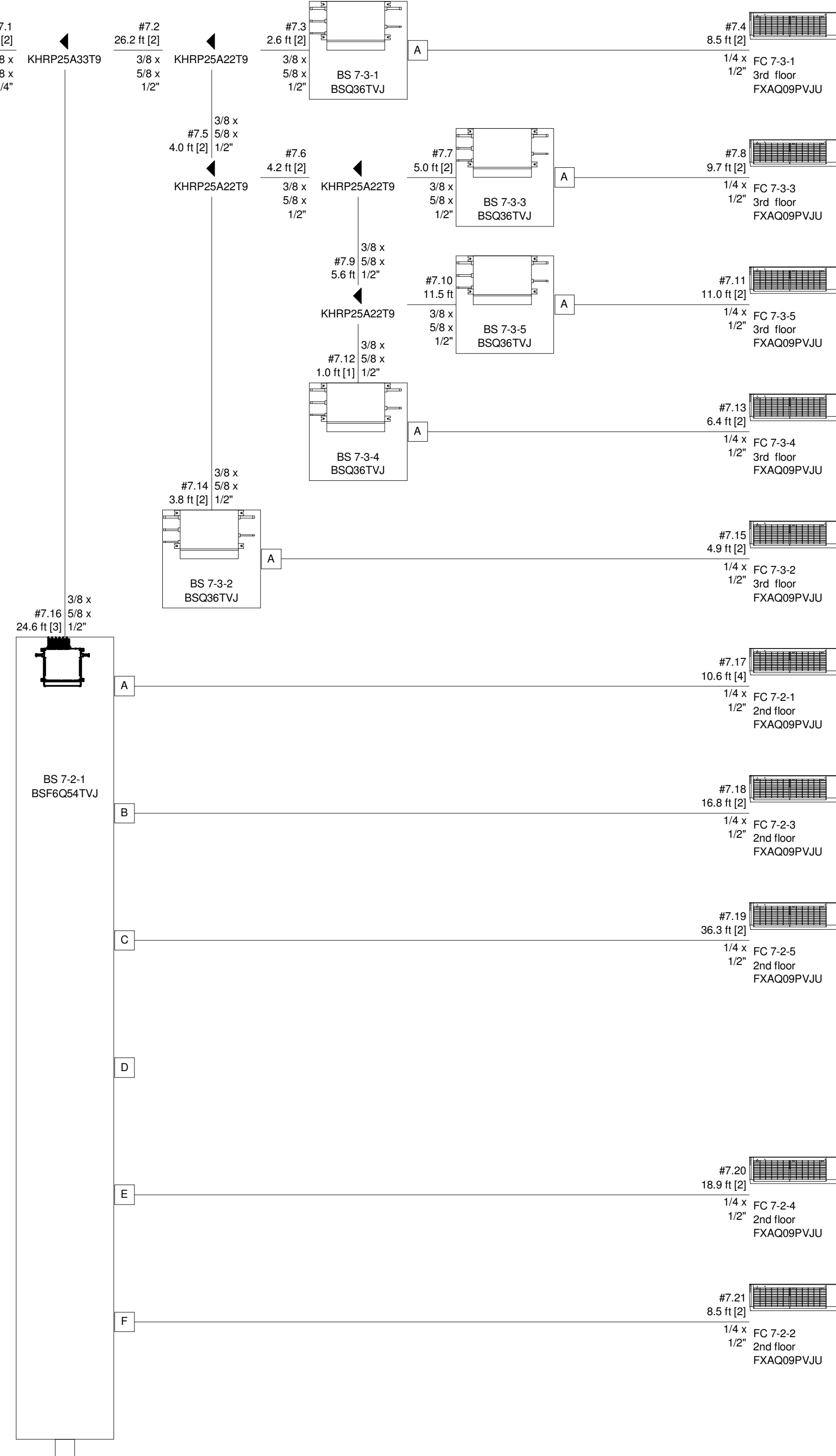
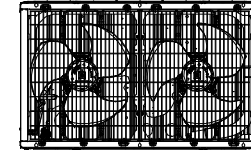
CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



PIPING DIAGRAM

WIRING DIAGRAM

CU-7 (Roof)
REY96AATJA



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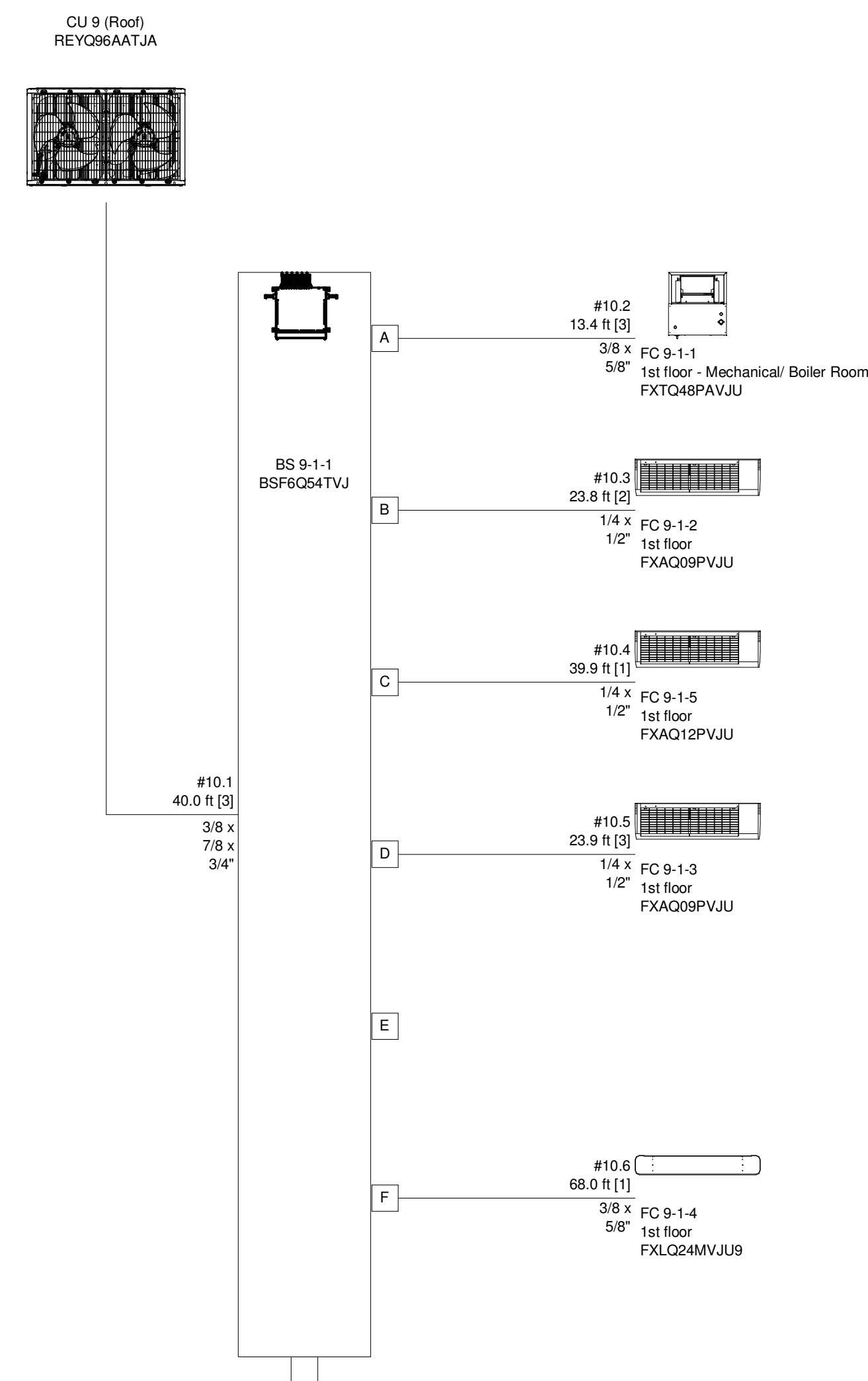
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VRV RISER
DIAGRAM - HVAC

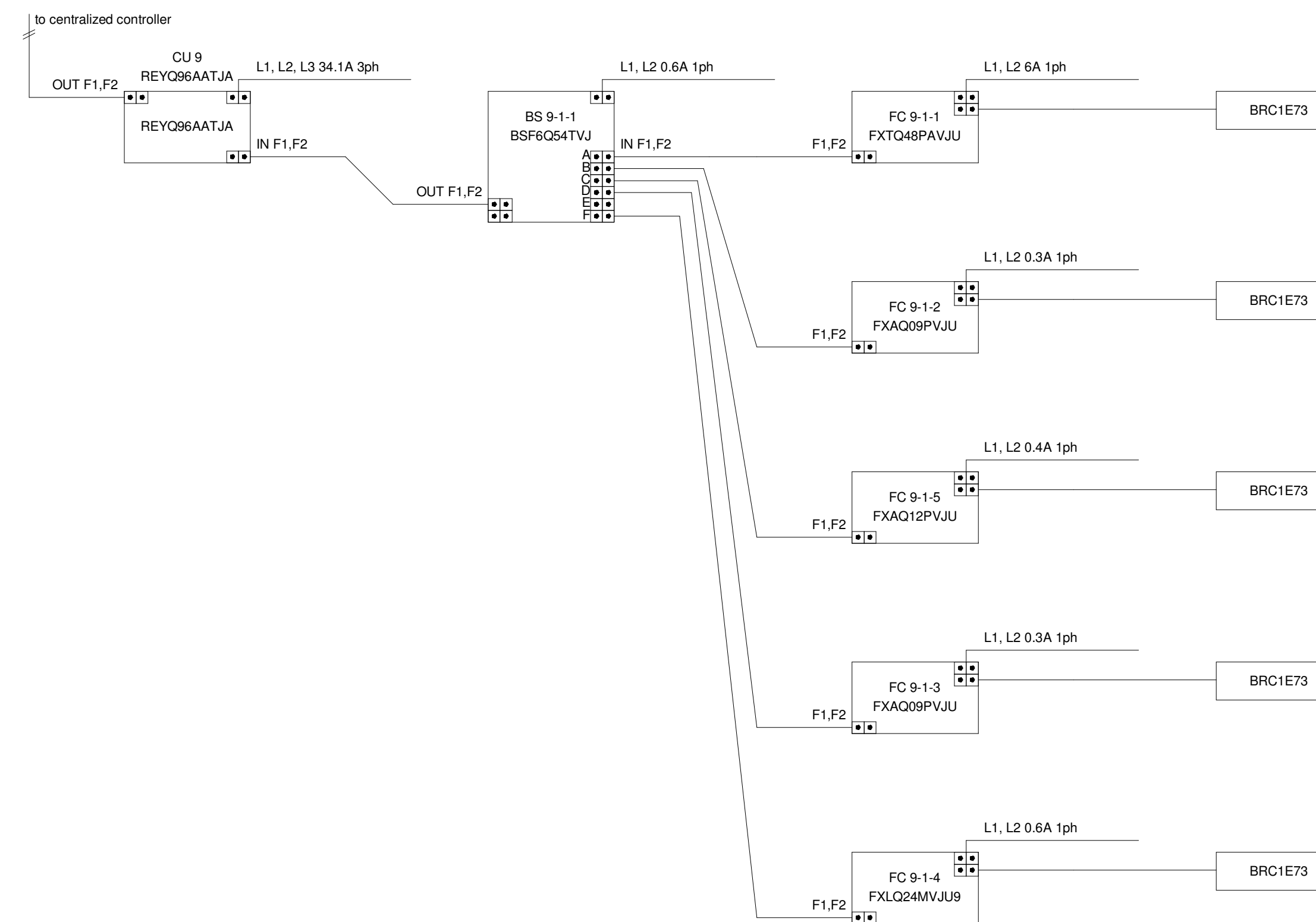
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VRF CONDENSING UNIT (CU-9)

PIPING DIAGRAM



WIRING DIAGRAM



CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURER. VERIFY EXACT PIPING LENGTHS AND ROUTING REQUIRED.



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VRV RISER
DIAGRAM - HVAC

M4.09