

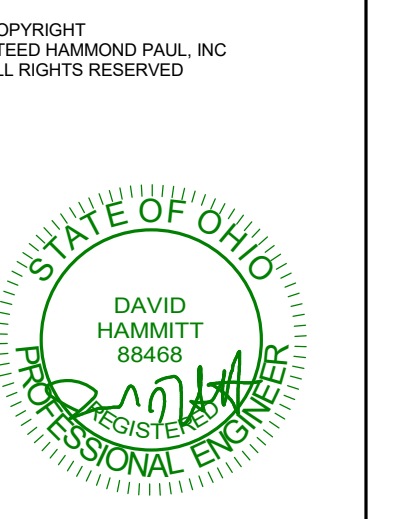
1 FIRST FLOOR DUCTWORK PLAN
 1/8" = 1'-0"

DUCT PLAN GENERAL NOTES:

- A. DUCTS SERVING DIFFUSERS AND GRILLES ARE TO BE THE SAME SIZE AS DIFFUSER NECK SIZE OR GRILLE FACE UNLESS NOTED OTHERWISE.
- B. AIR TRANSFER DUCTS ARE 6" X 6" UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE ADDITIONAL TRANSFER OPENINGS ABOVE CEILING AS NEEDED FOR AIR RETURN.
- C. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
- D. PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.

KEYNOTES

- M3 EXISTING ACUTHERM VAV DIFFUSER TO REMAIN.
- M4 RETURN AIR THROUGH ROOM #129.
- M5 COORDINATE THE EXACT LOCATION OF WALL PENETRATION WITH STRUCTURAL.
- M8 VRF TEMPERATURE CONTROL PANEL REQUIRING 120 V POWER.
- M9 BLANK OFF UNUSED PORTION OF EXISTING LOUVER WITH INSULATED SHEET METAL.
- M11 RETURN CONDENSING UNIT TO THIS LOCATION. RECONNECT ALL PIPING, ELECTRICAL, AND CONTROLS AS REQUIRED AND RE-SUPPORT. SALVAGE ALL REFRIGERANT.
- M12 EXISTING CFM TO REMAIN.
- M13 DUCT UP TO ABOVE.
- M14 OFFSET DUCT UNDER STEEL.
- M15 DUCT UP TO UNIT ON ROOF ABOVE.
- M16 CAVITY TO SERVE AS RETURN AIR PATH.
- M17 EXTEND LINED RETURN AIR DUCT AS SHOWN TO REDUCE NOISE.
- M18 INSTALL BOTTOM OF GRILLE AT 12" AFF.
- M30 LOW THROUGH-WALL TRANSFER.
- M31 HIGH THROUGH-WALL TRANSFER.



SHP

1086 North 4th St., Ste. 111
 223 Fairfield Ave., Ste. 100
 Columbus, OH 43201
 614.222.2124
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**ADDITION AND RENOVATION
 SPRINGER SCHOOL**
 2121 Madison Rd., Cincinnati, OH 45208

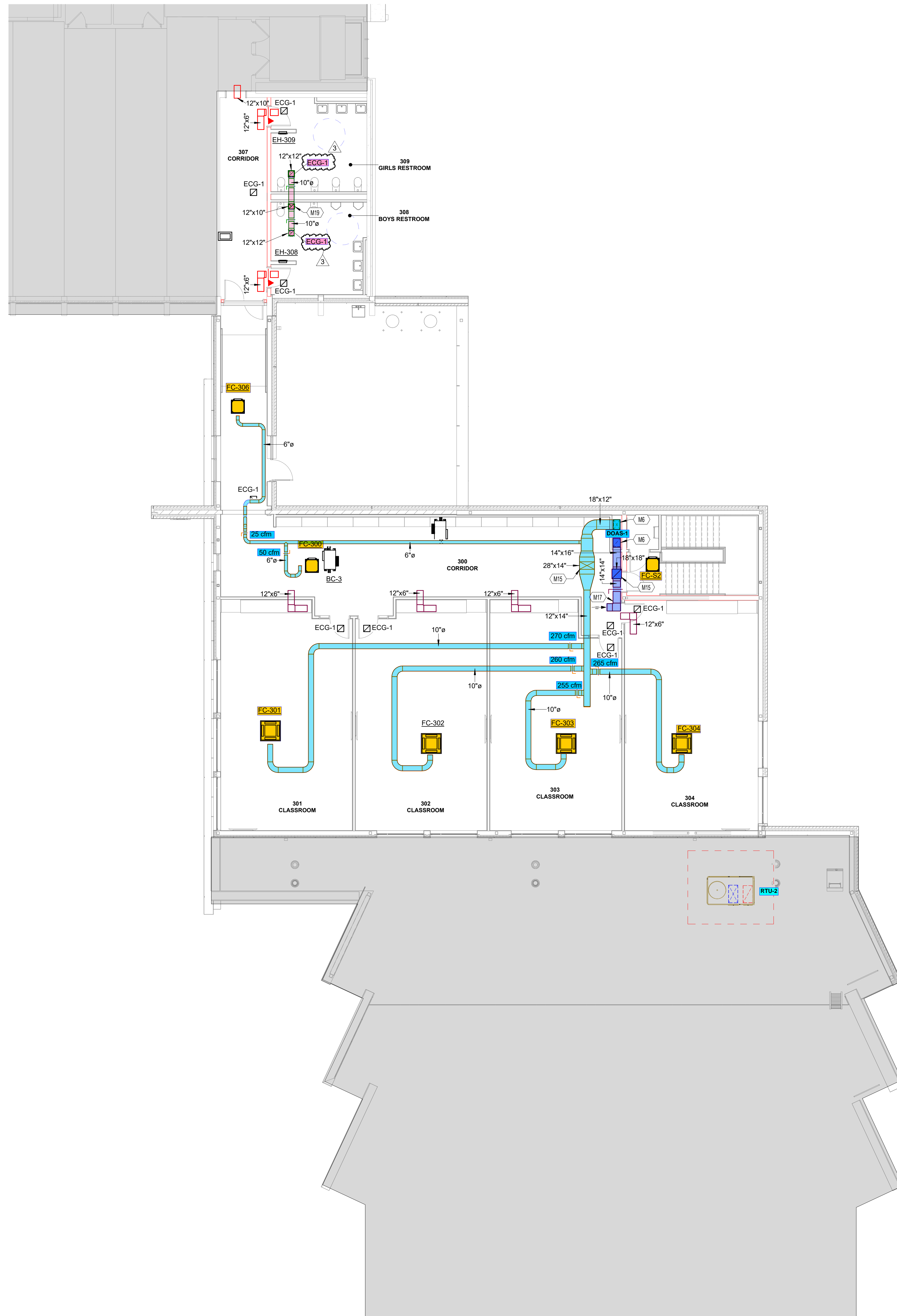
ISSUANCES

12-09-22	SCHEMATIC DESIGN
03-24-23	DESIGN DEVELOPMENT
06-02-23	90% CD
06-30-23	PERMIT & BID SET
07-21-23	ADDENDUM #2
07-28-23	ADDENDUM #3

DUCTWORK PLAN - FIRST FLOOR

DATE 7/14/2023
 COMM NO. 202209.01

M101

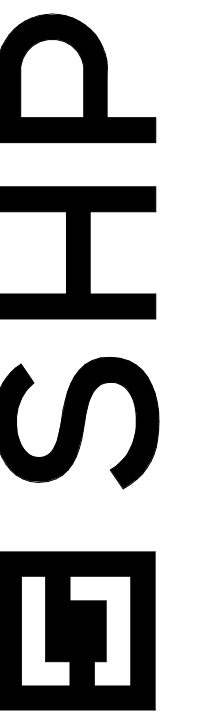


DUCT PLAN GENERAL NOTES:

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- B. AIR TRANSFER DUCTS ARE 6" X 6" UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE ADDITIONAL TRANSFER OPENINGS ABOVE CEILING AS NEEDED FOR AIR RETURN.
- C. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
- D. PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.

KEYNOTES

- M6 FIRE DAMPER AT RATED DECK BELOW. ACCESSIBLE FROM THIS LEVEL.
- M15 DUCT UP TO UNIT ON ROOF ABOVE.
- M17 EXTEND LINED RETURN AIR DUCT AS SHOWN TO REDUCE NOISE.
- M19 ROUTE DUCT UP TO FAN ON ROOF ABOVE.



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**ADDITION AND RENOVATION
SPRINGER SCHOOL**
2121 Madison Rd., Cincinnati, OH 45208

ISSUANCES

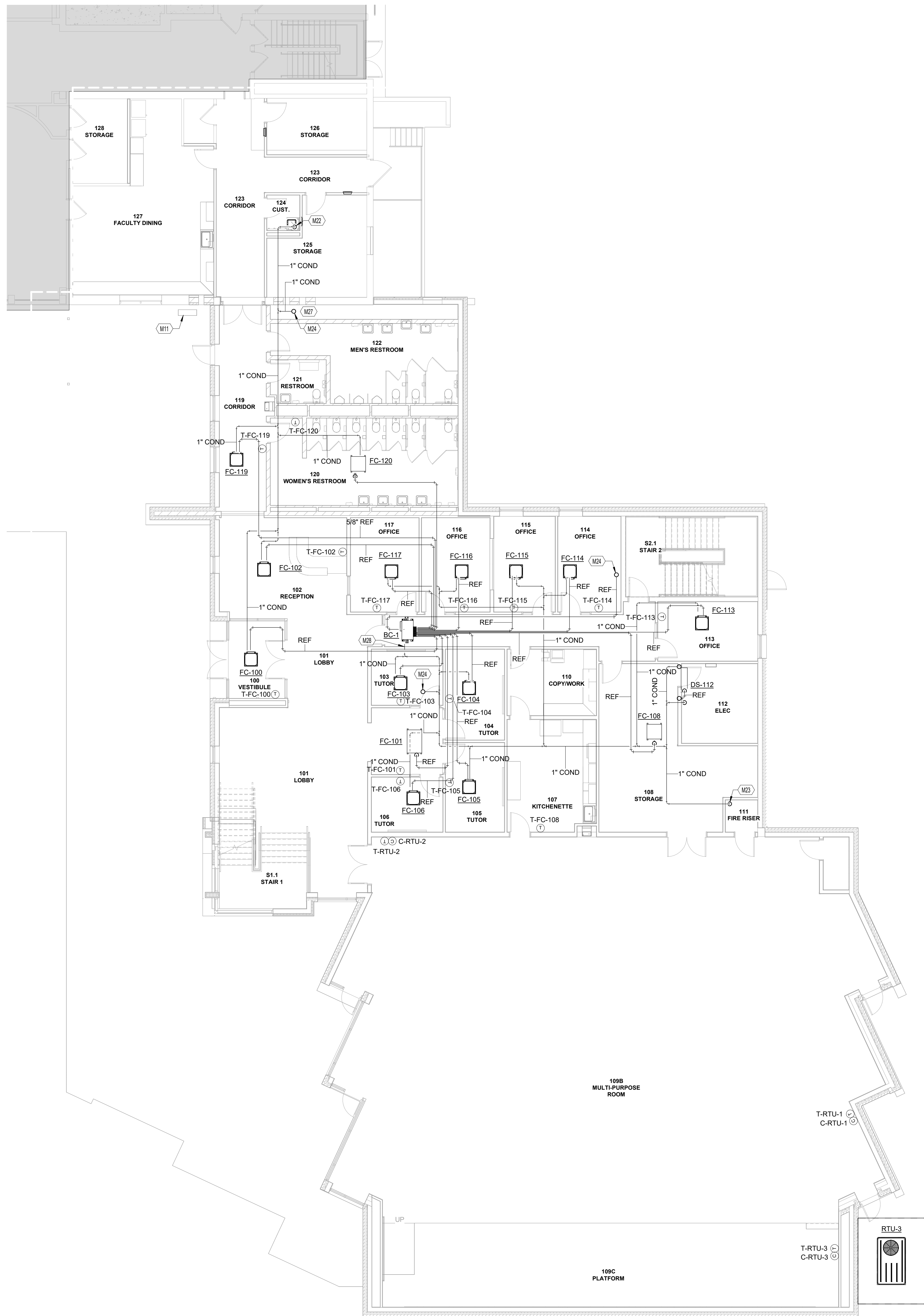
12-09-22	SCHEMATIC DESIGN
03-24-23	DESIGN DEVELOPMENT
06-02-23	90% CD
06-30-23	PERMIT & BID SET
07-28-23	ADDENDUM #1

DUCTWORK PLAN - THIRD FLOOR

DATE 7/14/2023
COMM NO. 20220909.01

M103

1 THIRD FLOOR DUCTWORK PLAN
M103 1/8" = 1'-0"

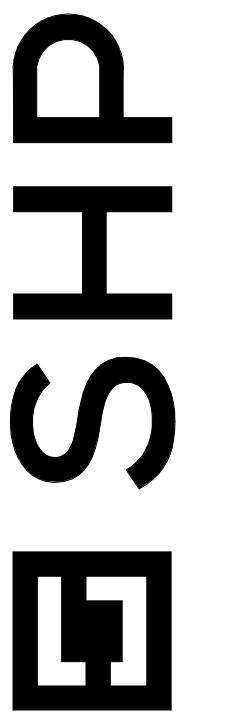


GENERAL NOTES:

- A. VRF LINES/ET ROUTES ARE SCHEMATIC IN NATURE.
- B. VRF REFRIGERANT PIPING AND CONDENSATE SHALL BE CONCEALED THROUGHOUT WITHIN NEW STUD WALLS, RACEWAY CHANNELS, OR ABOVE CEILING. PIPING EXPOSED TO VIEW IS NOT PERMITTED.
- C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.
- E. INSULATE CAPPED EXISTING PIPING PER SPECIFICATIONS.

KEYNOTES

- M11 RETURN CONDENSING UNIT TO THIS LOCATION. RECONNECT ALL PIPING, ELECTRICAL, AND CONTROLS AS REQUIRED AND RE-SUPPORT. SALVAGE ALL REFRIGERANT.
- M22 DISCHARGE CONDENSATE INTO MOP BASIN.
- M23 DISCHARGE CONDENSATE INTO FLOOR DRAIN.
- M24 PIPING UP TO ABOVE.
- M27 OFFSET PIPING IN THIS AREA AS REQUIRED TO AVOID EXISTING FINS AND TO MINIMIZE PENETRATIONS OF EXISTING STRUCTURE.
- M28 PROVIDE CONDENSATE PIPE FROM BC BOX AS REQUIRED BY MANUFACTURER.



**ADDITION AND RENOVATION
SPRINGER SCHOOL**
2121 Madison Rd., Cincinnati, OH 45208

ISSUANCES

12-09-22	SCHEMATIC DESIGN
03-24-23	DESIGN DEVELOPMENT
06-02-23	90% CD
06-30-23	PERMIT & BID SET

**HVAC PIPING
PLAN - FIRST
FLOOR**

DATE 6/30/2023
COMM NO. 20220909.01

M201

1 FIRST FLOOR MECHANICAL PIPING PLAN
M201 1/8" = 1'-0"

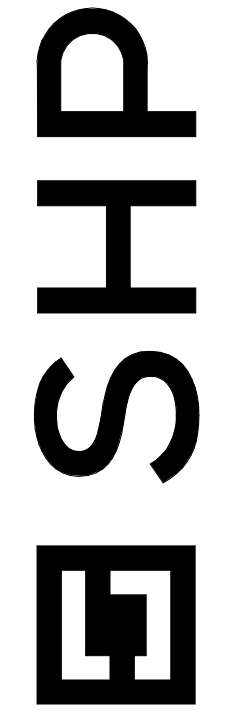


GENERAL NOTES:

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- B. VRF REFRIGERANT PIPING AND CONDENSATE SHALL BE CONCEALED THROUGHOUT WITHIN NEW STUD WALLS, RACEWAY CHANNELS, OR ABOVE CEILINGS. PIPING EXPOSED TO VIEW IS NOT PERMITTED.
- C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.
- E. INSULATE CAPPED EXISTING PIPING PER SPECIFICATIONS.

KEYNOTES

- M24 PIPING UP TO ABOVE.
- M25 PIPING DOWN TO BELOW.
- M27 OFFSET PIPING IN THIS AREA AS REQUIRED TO AVOID EXISTING FINS AND TO MINIMIZE PENETRATIONS OF EXISTING STRUCTURE.
- M28 PROVIDE CONDENSATE PIPE FROM BC BOX AS REQUIRED BY MANUFACTURER.



**ADDITION AND RENOVATION
SPRINGER SCHOOL**
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ISSUANCES

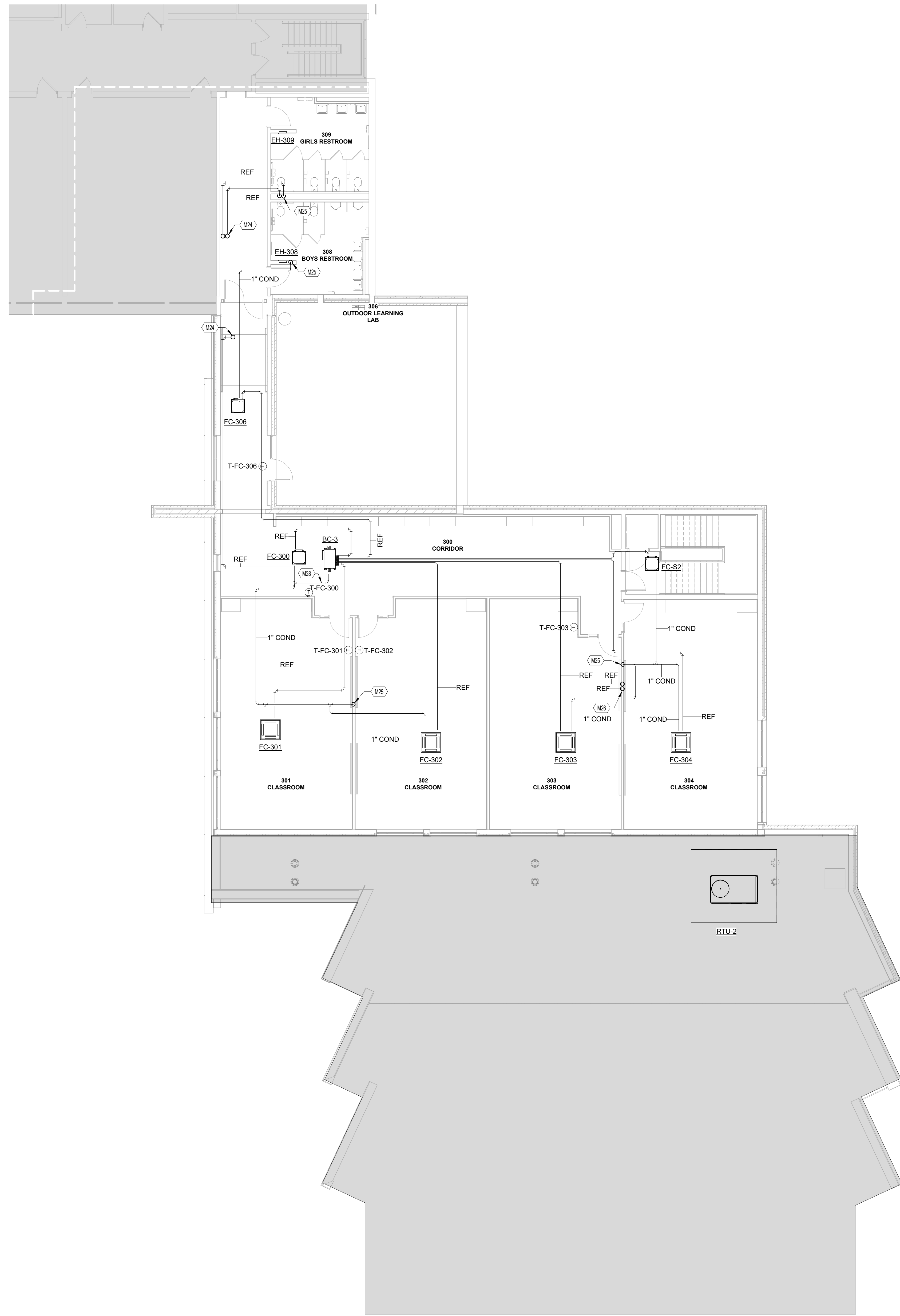
12-09-22	SCHEMATIC DESIGN
03-24-23	DESIGN DEVELOPMENT
06-02-23	90% CD
06-30-23	PERMIT & BID SET

**HVAC PIPING
PLAN -
SECOND
FLOOR**

DATE 6/30/2023
COMM NO. 20220909.01

M202

1 SECOND FLOOR FLOOR MECHANICAL PIPING PLAN
M202 1/8" = 1'-0"

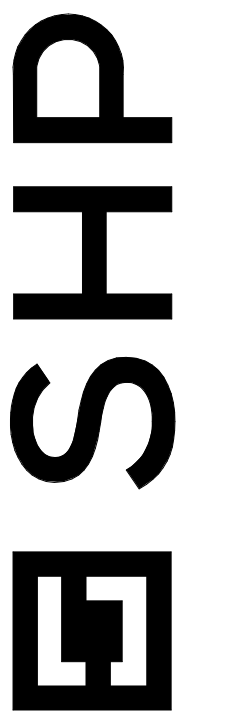


GENERAL NOTES:

- A. VRF LINESET ROUTES ARE SCHEMATIC IN NATURE.
- B. VRF REFRIGERANT PIPING AND CONDENSATE SHALL BE CONCEALED THROUGHOUT WITHIN NEW STUD WALLS, RACEWAY CHANNELS, OR ABOVE CEILINGS. PIPING EXPOSED TO VIEW IS NOT PERMITTED.
- C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.
- E. INSULATE CAPPED EXISTING PIPING PER SPECIFICATIONS.

KEYNOTES

- M24 PIPING UP TO ABOVE.
- M25 PIPING DOWN TO BELOW.
- M26 PIPING UP AND DOWN.
- M28 PROVIDE CONDENSATE PIPE FROM BC BOX AS REQUIRED BY MANUFACTURER.



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ISSUANCES

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03-24-23	DESIGN DEVELOPMENT
06-02-23	90% CD
06-30-23	PERMIT & BID SET

**HVAC PIPING
PLAN - THIRD
FLOOR**

DATE 6/30/2023
COMM NO. 20220909.01

M203