

HVAC SYMBOLS LIST		
NOTE: ALL SYMBOLS NOT NECESSARILY USED		
GENERAL	VALVES	
UNDERFLOOR PIPING OR DUCTWORK ----- () -----	2-WAY CONTROL VALVE	
EXISTING TO REMAIN -----	3-WAY CONTROL VALVE	
EXISTING TO BE REMOVED -----	BALANCE/SHUT-OFF VALVE	
EXISTING TO BE ABANDONED -----	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	EXPANSION VALVE	
	ISOLATION VALVE - SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS	
	GATE VALVE	
	GLOBE VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	PRESSURE RELIEF VALVE	
	SOLENOID VALVE	
PIPING		
HEATING WATER SUPPLY ----- HWS -----		
HEATING WATER RETURN ----- HWR -----		
CHILLED WATER SUPPLY ----- CWS -----		
CHILLED WATER RETURN ----- CWR -----		
CONDENSER WATER SUPPLY ----- CS -----		
CONDENSER WATER RETURN ----- CR -----		
LOW PRESSURE STEAM ----- LPS(#) -----		
LOW PRESSURE CONDENSATE ----- LPR(#) -----		
HIGH PRESSURE STEAM ----- HPS(#) -----		
HIGH PRESSURE CONDENSATE ----- HPR(#) -----		
CONDENSATE PUMP DISCHARGE ----- CPD -----		
REFRIGERANT LIQUID ----- L -----		
REFRIGERANT SUCTION ----- S -----		
REFRIGERANT HOT GAS ----- HG -----		
COOLING COIL CONDENSATE ----- C -----		
VENT ----- V -----		
HEAT PUMP WATER SUPPLY ----- HPWS -----		
HEAT PUMP WATER RETURN ----- HPWR -----		
SPECIALTIES		
AUTOMATIC AIR VENT WITH BALL VALVE		
MANUAL AIR VENT		
CONCENTRIC INCREASER		
CONCENTRIC REDUCER		
ECCENTRIC INCREASER		
ECCENTRIC REDUCER		
FILL FUNNEL		
FLEXIBLE CONNECTION		
FLOW ARROW		
FLOW SWITCH		
GAUGE WITH BALL VALVE		
HEAT TRACED PIPE		
METER		
PIPE ANCHOR		
CAP		
DROP		
RISE		
PRESSURE/TEMPERATURE TEST PLUG		
PIPE ALIGNMENT GUIDE		
FIRE RATED PIPE SLEEVE		
SIGHT GLASS		
STRAINER		
THERMOMETER		
THRUST BLOCK		
STEAM TRAP		
UNION OR FLANGE		
VACUUM BREAKER		
VALVE IN RISER/DROP		
MISCELLANEOUS		
DUCT ACCESS DOOR		
FIRE DAMPER		
SMOKE DAMPER		
COMB. FIRE/SMOKE DAMPER		
DUCT VOLUME DAMPER		
MOTOR OPERATED DAMPER		
DUCT CHANGE IN ELEVATION		
FLEX DUCT		
TURNING VANES		
SPIN-IN FITTING		
DUCT SECTIONS		
POSITIVE PRESSURE (SUPPLY/OUTSIDE)		
NEGATIVE PRESSURE (RETURN/RELIEF)		
NEGATIVE PRESSURE (EXHAUST)		
CARBON DIOXIDE SENSOR		
HUMIDISTAT OR HUMIDITY SENSOR (MOUNT 48" A.F.F. U.N.O.)		
THERMOSTAT OR SPACE TEMPERATURE SENSOR (MOUNT 48" A.F.F. U.N.O.)		
SMOKE DETECTOR BY DIV. 26 DIV. 23 TO PROVIDE DUCT ACCESS DOOR AT EACH OF THESE LOCATIONS		
DIFFUSER		
RETURN AIR DEVICE		
TERMINAL BOXES, WITH/WITHOUT REHEAT		
CONNECT TO EXISTING		

GENERAL NOTES - HVAC (APPLY TO ALL HVAC DRAWINGS)

- THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO MECHANICAL CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
- COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLANS. FOR MULTIPLE LINEAR AIR DEVICES IN A CONTINUOUS ROW, INSTALL WITHOUT BORDER END CAP FOR CONTINUOUS LOOK ACROSS ROW.
- UNLESS NOTED OTHERWISE, PROVIDE DUCT TO DIFFUSERS THE SAME SIZE AS DIFFUSER NECK. PROVIDE FLEXIBLE DUCT CONNECTION TO THE DIFFUSER AND IT SHALL BE NO MORE THAN 5 FEET IN LENGTH.
- UNLESS NOTED OTHERWISE, PROVIDE DUCT TO TERMINAL BOXES THE SAME SIZE AS THE TERMINAL BOX INLET. PROVIDE TRANSITION FROM TERMINAL BOX OUTLET TO DISTRIBUTING DUCTWORK, AS REQUIRED.
- VOLUME DAMPERS:
 - PROVIDE VOLUME DAMPERS AT ALL HIGH VELOCITY DUCT CONNECTIONS TO SHAFTS AND VERTICAL RISER DUCTS.
 - PROVIDE VOLUME DAMPERS AT ALL LOW VELOCITY DUCT CONNECTIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, DUCT CONNECTIONS AT SHAFTS, TAKEOFFS TO SUBMAINS (SERVING TWO OR MORE BRANCH MAINS), TAKEOFFS TO BRANCH MAINS (SERVING TWO OR MORE OUTLETS) AND BRANCHES TO SINGLE TERMINALS OR OUTLETS.
 - PROVIDE ADDITIONAL DAMPERS AS NOTED ON THE DRAWINGS.
 - THE FACT THAT SOME, BUT NOT NECESSARILY ALL, VOLUME DAMPERS ARE SHOWN ON THE CONTRACT DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THESE REQUIREMENTS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS.
- PROVIDE INSULATED HWS AND HWR PIPING TO ALL AIR TERMINAL BOXES WITH REHEAT COILS, ALL CABINET UNIT HEATERS, AND ALL UNIT HEATERS. MINIMUM SIZE SHALL BE 3/4 INCH OR AS INDICATED ON THE DRAWINGS.
- PROVIDE VALVES AT ALL BRANCH CONNECTIONS TO PIPING MAINS (SHUT-OFF IN SUPPLY BRANCH CONNECTIONS AND COMBINATION BALANCE /SHUT-OFF VALVES ON ALL RETURN CONNECTIONS) AS FOLLOWS:
 - IN MECHANICAL ROOMS: ALL SUPPLY AND RETURN PIPING BRANCHES THAT SERVE MORE THAN ONE PIECE OF EQUIPMENT.
 - OUTSIDE MECHANICAL ROOMS: ALL SUPPLY AND RETURN PIPING BRANCHES THAT ARE GREATER THAN 1" AND SERVE MORE THAN ONE PIECE OF EQUIPMENT.
 - ADDITIONAL VALVE LOCATIONS AS INDICATED ON THE DRAWINGS.
 - LOCATE ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE.
- PROVIDE A TEMPERATURE SENSOR FOR EACH TERMINAL BOX AND EACH CEILING MOUNTED CABINET UNIT HEATER. PREFERRED LOCATIONS ARE INDICATED ON THE PLANS.
- IN RETURN AIR PLENUMS, PROVIDE AIR TRANSFER OPENINGS IN FULL HEIGHT WALLS TO PROVIDE A RETURN AIR PATH FROM EACH ROOM BACK TO THE AIR HANDLING EQUIPMENT. OPENINGS SHALL BE A MINIMUM OF 1.0 SQUARE FOOT WHERE ROOM SUPPLY CFM IS LESS THAN 400 CFM AND AN ADDITIONAL 1.0 SQUARE FOOT FOR EACH 400 CFM OR PORTION THEREOF.
- COORDINATE THE LOCATION OF FIN TUBE AND COVER WITH ALL ELECTRICAL OUTLETS, INCLUDING BUT NOT LIMITED TO, POWER, VOICE, AND DATA.

HVAC SHEET INDEX		
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H001	HVAC INDEX SHEET	2
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H303B	HVAC PIPING THIRD FLOOR PLAN AREA B	2
H304A	HVAC PIPING FOURTH FLOOR PLAN AREA A	2
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H305A	HVAC PIPING FIFTH FLOOR PLAN AREA A	2
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H603	HVAC DETAILS	2

#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



The Connor Group Kids & Community Partners



300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

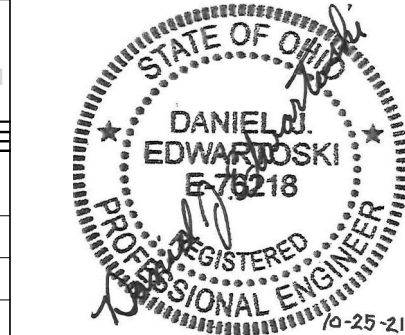
PHONE: (614) 461-4664
FAX: (614) 280-8881

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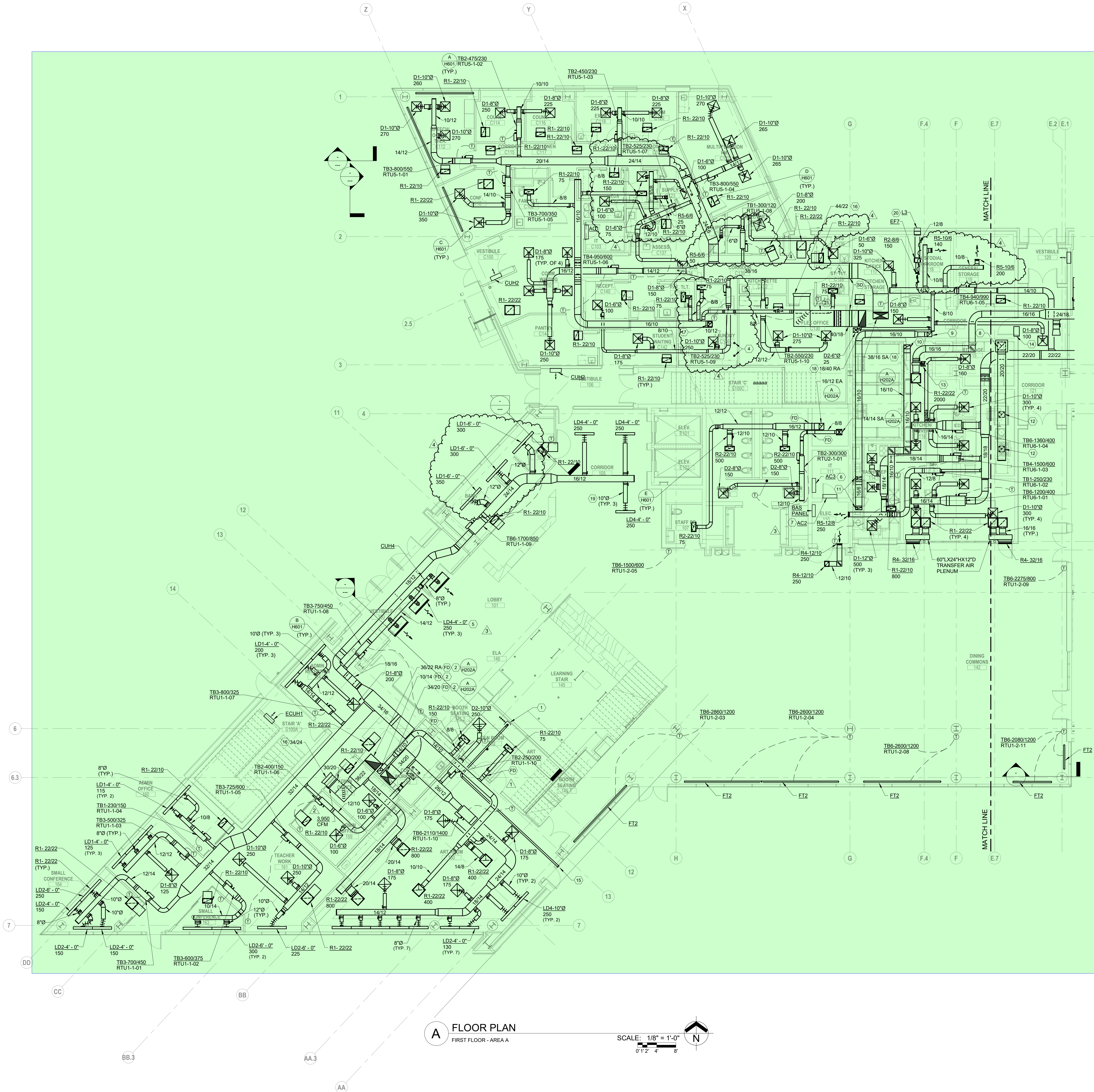
HVAC INDEX SHEET

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Dana Balch
DESIGNED BY: Dana (Edwards) Balch
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H001
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS



- CODED NOTES:**
1. PROVIDE SKUTT ENVIRONMENT2 FAN CAPABLE OF EXHAUST 140 CFM THROUGH UP TO 60'-0" OF 4" DUCT WITH THREE 90 DEGREE BENDS. MOUNT THE FAN TO THE WALL BEHIND THE KILN AND WITHIN 6'-0" OF THE KILN. RUN 3" FLEXIBLE ALUMINUM DUCT BETWEEN THE KILN AND THE FAN. RUN 4" PVC FROM THE FAN TO THE EXTERIOR OF THE BUILDING. FAN PLUGS INTO WALL RECEPTACLE AND IS MANUALLY TURNED ON WITH INTEGRAL SWITCH. REFER TO KILN MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. LOCATE FIRE DAMPER IN DUCT PENETRATION AT BOTTOM OF RATED SHAFT.
 3. NOT USED.
 4. 4" DIAMETER LAUNDRY VENT UP THROUGH ROOF. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
 5. LINEAR AIR DEVICE IN SIDEWALL WITH PLENUM. TAP OFF MAIN WITH DAMPER AND CONNECT TO BOTTOM OF LINEAR AIR DEVICE PLENUM. COORDINATION EXACT LOCATION, ELEVATION AND FINISH COLOR OF AIR DEVICE WITH ARCHITECT.
 6. INSTALL WALL HUNG AC3 BELOW CABLE TRAY ON WEST WALL OF IT ROOM. TOP OF UNIT SHALL BE 6'-0" A.F.F.
 7. INSTALL WALL HUNG AC2 ABOVE DOOR ON SOUTH WALL OF IT ROOM.
 8. 20/20 UP TO KITCHEN HOOD EXHAUST FAN EF3 ON ROOF. PROVIDE GREASE DUCT CLEANOUT AT BOTTOM OF VERTICAL. PROVIDE GREASE TRAP.
 9. 16/10 UP TO EXHAUST FAN EF6 ON ROOF.
 10. 12/12 UP TO EXHAUST FAN EF7 ON ROOF.
 11. PROVIDE PANT LEG DUCT FITTING. LEGS SHALL BE 16/6. MAKE CONNECTION TO (2) CONNECTIONS ON TOP OF DISHWASHER.
 12. PROVIDE TAPS OFF EXHAUST MAIN TO CONNECT TO (2) 13/14 CONNECTIONS ON GREASE HOOD. PROVIDE GREASE DUCT CLEANOUTS AT TAPS.
 13. PROVIDE MOTORIZED DAMPER AND BALANCE DAMPER. BALANCE TO 800 CFM. MOTORIZED DAMPER TO REMAIN CLOSED DURING KITCHEN HOOD OPERATION. OPEN WHEN HOOD IS NOT IN OPERATION.
 14. 24/24 TRANSFER DUCT.
 15. TERMINATE KILN EXHAUST DUCT THROUGH EXTERIOR WALL. PROVIDE CORROSION RESISTANT ALUMINUM ROUND DUCT WALL CAP WITH INTEGRAL ALUMINUM BACKDRAFT DAMPER. PAINT WALL CAP TO MATCH ADJACENT EXTERIOR FINISH. COORDINATE EXACT LOCATION WITH ARCHITECT.
 16. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 17. 16/10 UP TO EXHAUST FAN EF4 ON ROOF.
 18. UP TO RTU5.
 19. PROVIDE CABLE OPERATED DAMPER FOR ACCESS.
 20. PROVIDE SHEETMETAL PLENUM BEHIND LOUVER.
 21. SMOKE DETECTOR TO BE PROVIDED BY DIVISION 26.

A FLOOR PLAN
FIRST FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR
3	01/14/2022	BULLETIN 1 - INTERIOR
4	04/12/2022	BULLETIN 3 - INTERIOR



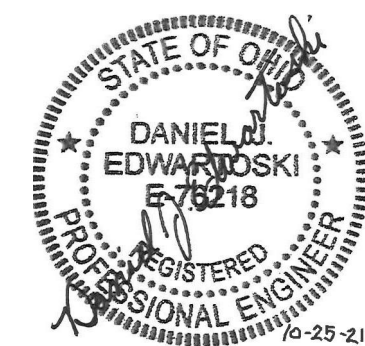
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



The Connor Group Kids & Community Partners



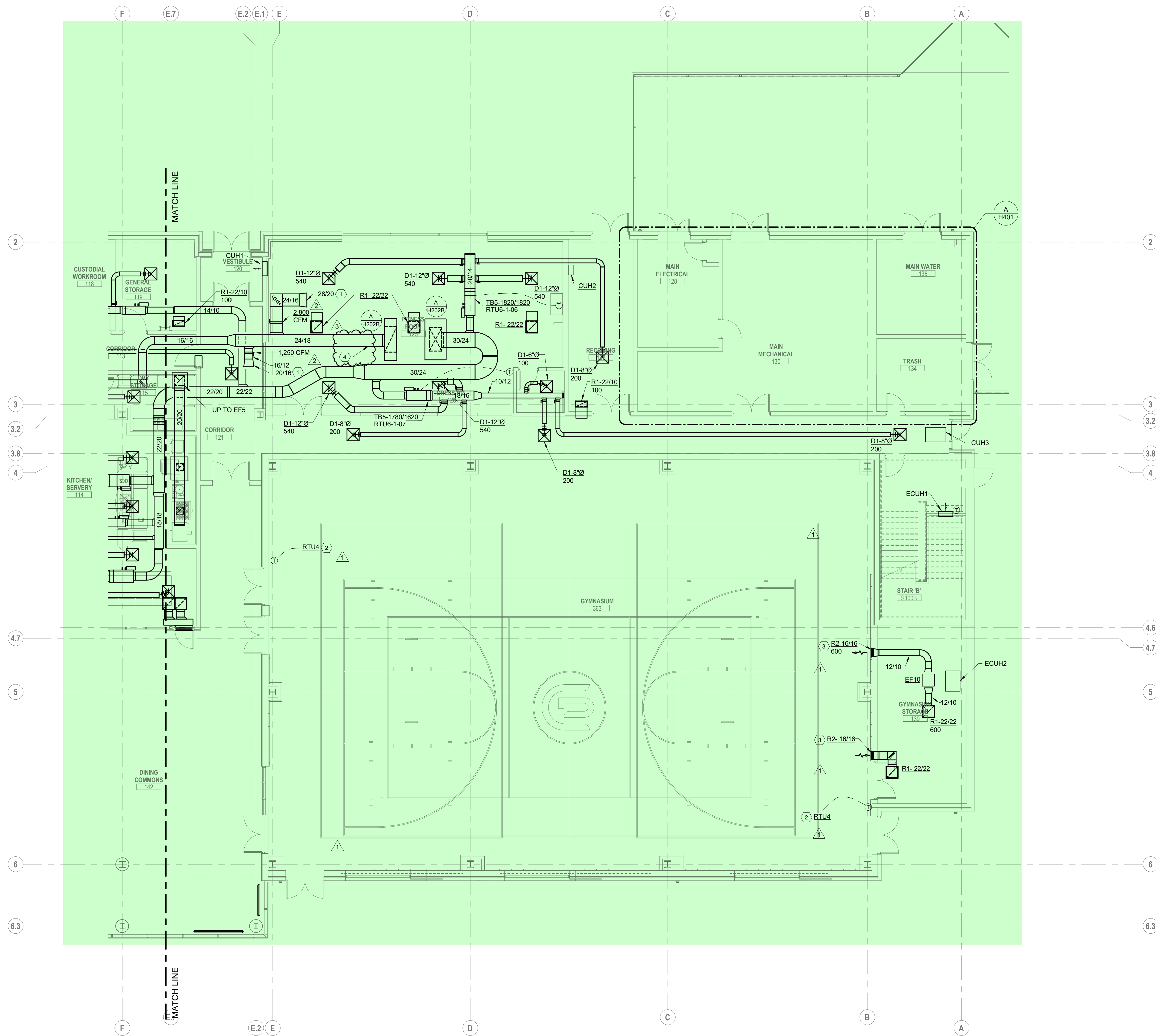
KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dana Bach
DESIGNED BY: Dan Edwards
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



DANIEL J. EDWARDS
REGISTERED PROFESSIONAL ENGINEER
No. 25-21

DRAWING TITLE:
**HVAC FIRST FLOOR PLAN
AREA A**

10/25/21	
DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187	
H201A	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	



A FLOOR PLAN
FIRST FLOOR - AREA B
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 - INSTALL TEMPERATURE SENSOR BOTTOM OF DEVICE 80" A.F.F. COORDINATE LOCATION OF SENSOR WITH ARCHITECTURAL ELEVATIONS. INSTALL CONDUIT IN WALL. EXPOSED CONDUIT IS NOT ACCEPTABLE.
 - COORDINATE LOCATION OF SIDEWALL GRILLE WITH ARCHITECTURAL ELEVATIONS.
 - SMOKE DETECTOR TO BE PROVIDED BY DIVISION 28.

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1	11/12/2021	ADDENDUM 1 - INTERIOR
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3	01/14/2022	BULLETIN 1 - INTERIOR



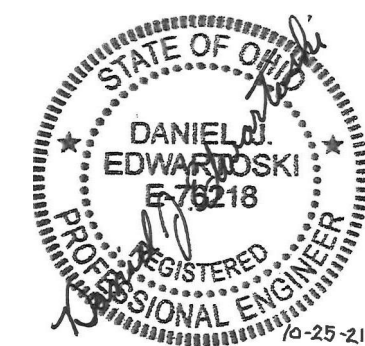
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FOR
The Connor Group Kids & Community Partners



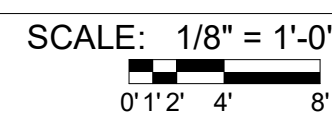
MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC FIRST FLOOR PLAN
AREA B**

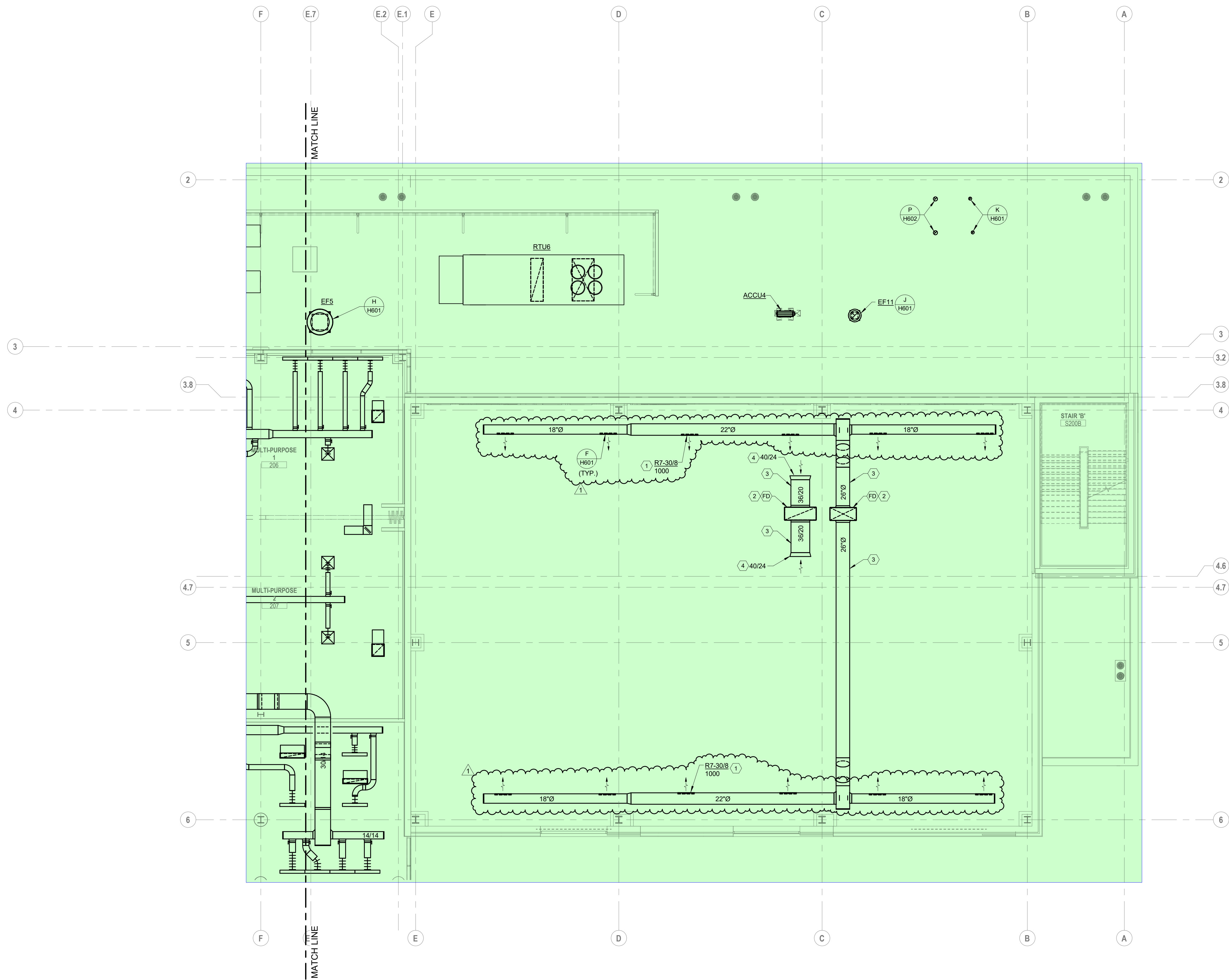
KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dave Bach
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



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H201B	
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| 10/25/21 | |
| DRAWN BY: KORDA | CHECKED BY: |
| Proj. # 18187 | |
| H202A | |
| INTERIOR PACKAGE
CONSTRUCTION DOCUMENT | |



A FLOOR PLAN
SECOND FLOOR - AREA B
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

- CODED NOTES:**
1. ANGLE AIR FLOW 45 DEGREES DOWNWARD TOWARD CENTER OF GYMNASIUM. COORDINATE AIR DEVICES WITH SUSPENDED LIGHTING. DEVICES ARE TO BE LOCATED SUCH THAT AIR IS NOT DIRECTLY ON LIGHTING.
 2. LOCATE FIRE DAMPER IN VERTICAL DUCT AT SHAFT PENETRATION.
 3. ROUTE DUCTWORK TIGHT TO UNDERSIDE OF DECK AND BETWEEN BEAMS.
 4. BELLMOUTH OPENING FOR RETURN AIR PLENUM.

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR



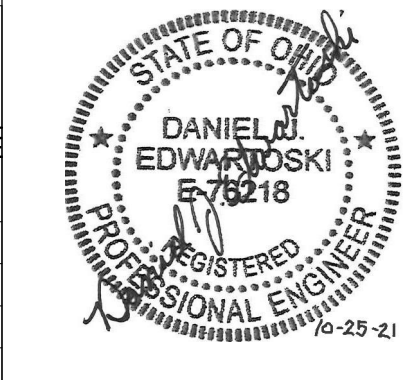
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



MOODY-NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC SECOND FLOOR PLAN
AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



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Proj. # 18187	
H202B	
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- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 - 8" DIAMETER FLEX CONNECTION TO WENGER SOUND BOOTH. BALANCE NORTH BOOTH 320C TO 65 CFM. BALANCE SOUTH BOOTH 320B TO 105 CFM. COORDINATE EXACT LOCATIONS WITH EQUIPMENT.
 - 8" DIAMETER RETURN DUCT CONNECTION TO WENGER SOUND BOOTH. TRANSITION TO 16/16 RECTANGULAR RETURN BOOT WITH INTERNAL LINING. COORDINATE EXACT LOCATIONS WITH EQUIPMENT.
 - 24/12 RETURN TRANSFER DUCT.
 - PROVIDE CABLE OPERATED DAMPER FOR ACCESS.
 - RETURN AIR TERMINALS TO RELIEVE AIR TO PLENUM. DO NOT OBSTRUCT DUCT CONNECTION.

A FLOOR PLAN
THIRD FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

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1	11/17/2021	ADDENDUM 2 - INTERIOR
2	01/14/2022	BULLETIN 1 - INTERIOR
3	04/10/2022	BULLETIN 3 - INTERIOR



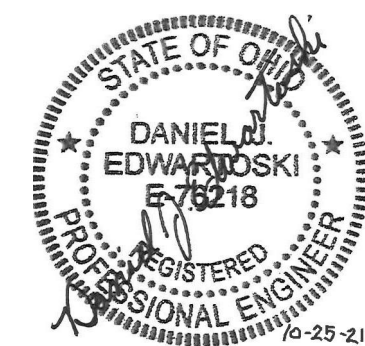
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



The Connor Group Kids & Community Partners

HVAC THIRD FLOOR PLAN
AREA A

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dana Bach
DESIGNED BY: Dan Edwards
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



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Proj. # 18187	
H203A	
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|--|---|--|
| RDA
ROTH ENGINEERING
ERMARK DRIVE
S, OHIO 43215

Dave Balch
Dan Edwards
Eric Stephens
TEL: 2018-217 |  | DRAWN BY: KORDA
CHECKED BY: KORDA

Proj. # 18187

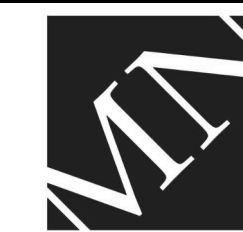
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CONSTRUCTION DOCUMENTS |
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#	DATE	CHANGE DESCRIPTION
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2	01/14/2022	BULLETIN 1 - INTERIOR
3	04/12/2022	BULLETIN 3 - INTERIOR



The Greater Dayton School
Deeds Park Dr.
DAYTON, OH 45404
FOR
**The Connor Group Kids &
Community Partners**



300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

HVAC THIRD FLOOR PLAN AREA B

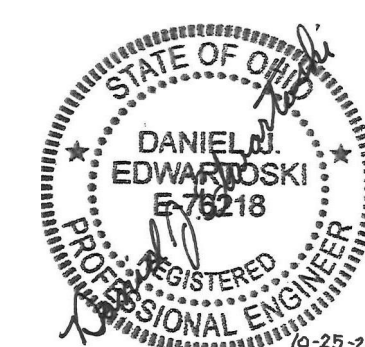
10/25/20

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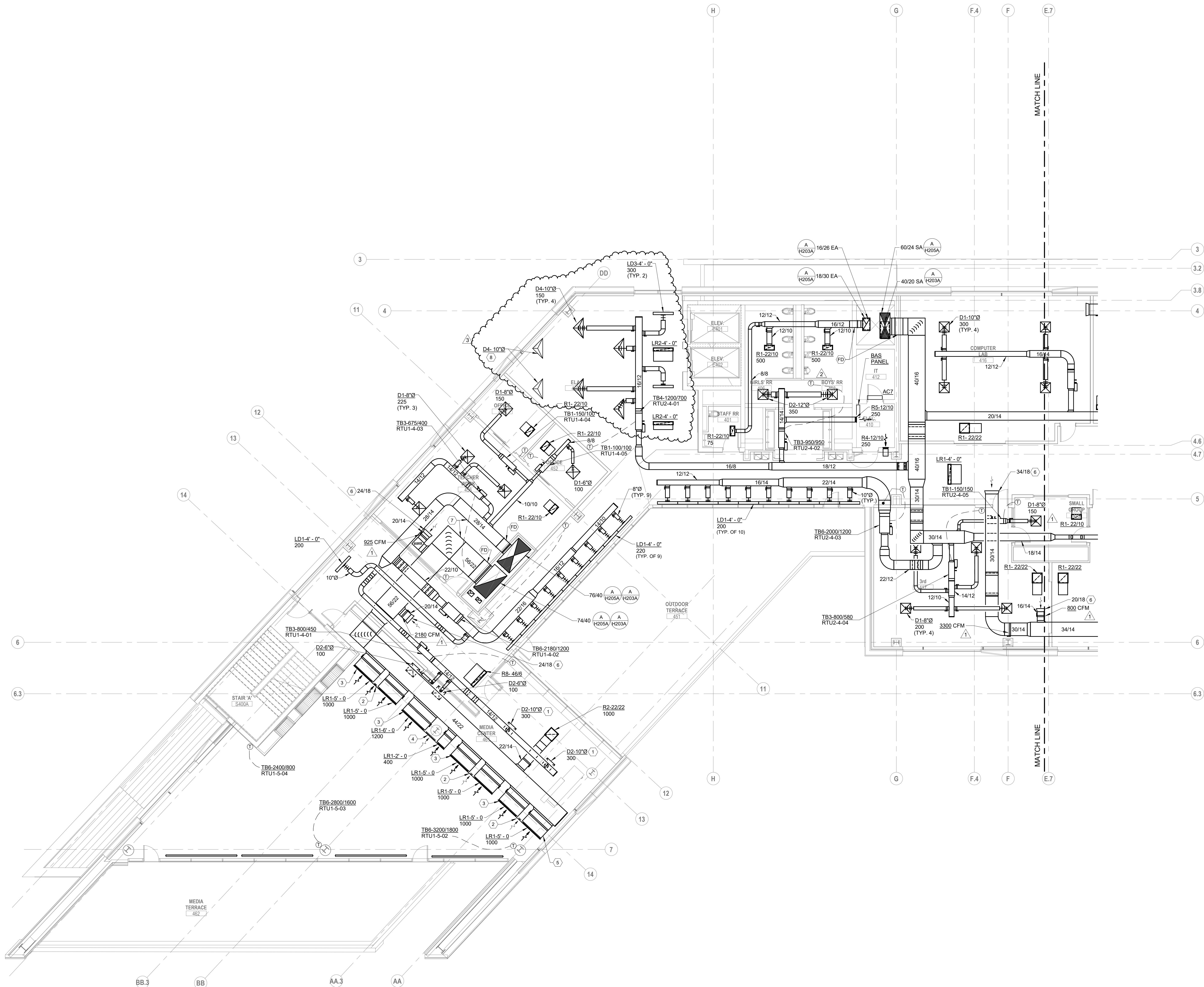
Proj. # 18187

H203B

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The logo for KORDA NEMETH ENGINEERING is displayed in a bold, black, sans-serif font. Below the company name, the address "1650 WATERMARK DRIVE SUITE 200 COLUMBUS, OHIO 43215" is listed. Further down, the contact details "DRAWN BY: Dave Balch", "DESIGNED BY: Dan Edwards/loski", "CHECKED BY: Eric Stephens", and "PROJECT NUMBER: 2018-217" are provided in a structured layout.



- CODED NOTES:
1. LOCATE TAP AND DAMPER AT UNDERSIDE OF DUCT.
 2. PROVIDE A 1'-0" INACTIVE SECTION AND BLANK OFF.
 3. PROVIDE BORDERS AND ACCESSORIES REQUIRED FOR A CONTINUOUS, SEAMLESS LOOK THROUGH ACTIVE AND INACTIVE SECTIONS.
 4. PROVIDE A 1'-0" INACTIVE SECTION AND BLANK OFF. COORDINATE WITH STRUCTURAL COLUMN.
 5. COORDINATE ELEVATION OF AIR DEVICES WITH ARCHITECT. TYPICAL.
 6. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 7. PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.
 8. RETURN AIR TERMINALS TO RELIEVE AIR TO PLENUM. DO NOT OBSTRUCT DUCT CONNECTION.

A FLOOR PLAN
FOURTH FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION
1	11/17/2021	ADDENDUM 2 - INTERIOR
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3	04/10/2022	BULLETIN 3 - INTERIOR



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners

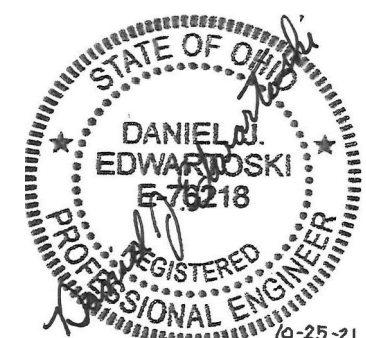


300 SPRUCE STREET
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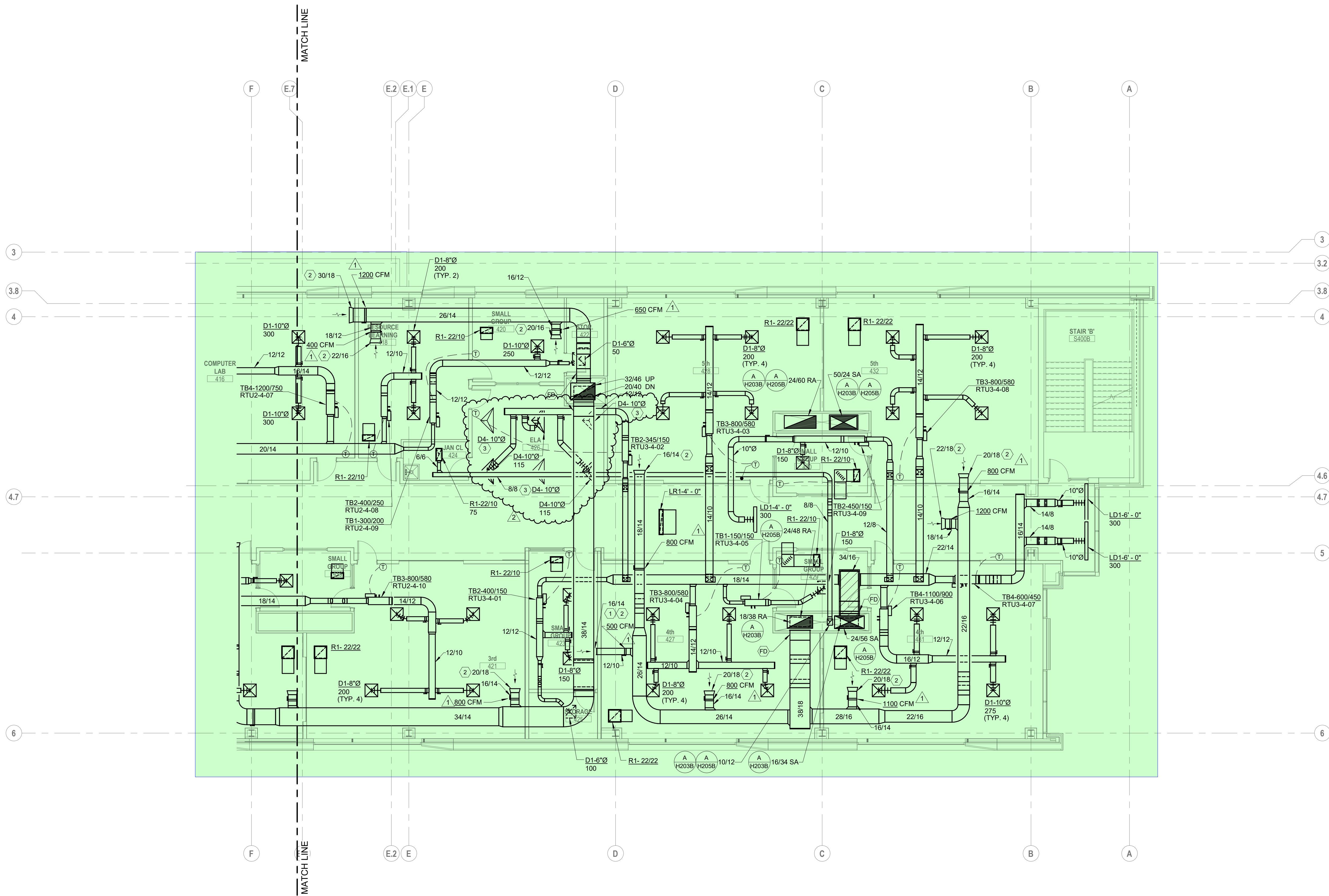
**HVAC FOURTH FLOOR PLAN
AREA A**

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H204A
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. PROVIDE CLEARANCE FOR FULL OPENING OF TRANSFER DUCT.
 2. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 3. RETURN AIR TERMINALS TO RELIEVE AIR TO PLENUM. DO NOT OBSTRUCT DUCT CONNECTION.



A FLOOR PLAN
FOURTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

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1	11/17/2021	ADDENDUM 2 - INTERIOR
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The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



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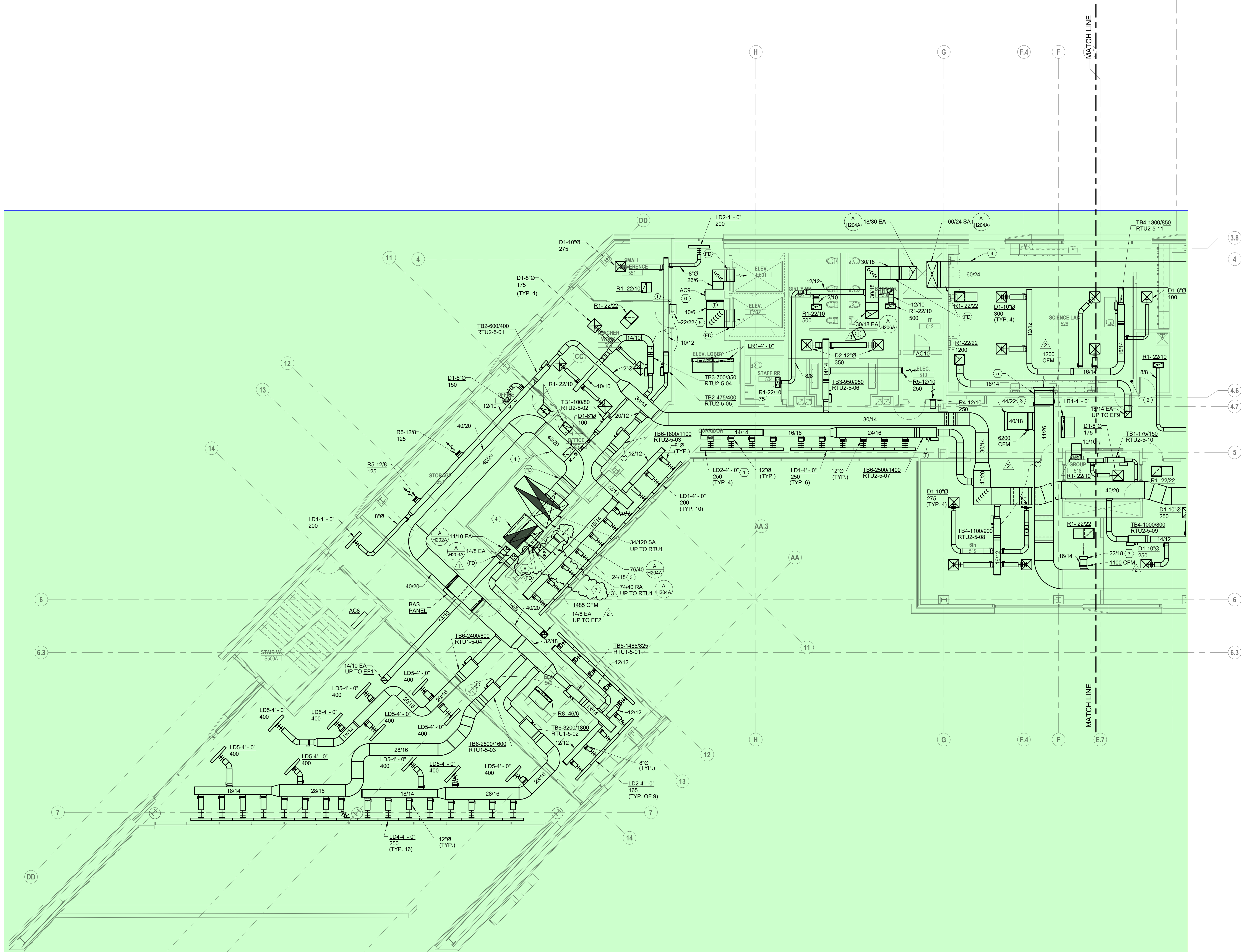
DRAWING TITLE:
**HVAC FOURTH FLOOR PLAN
AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dave Balch
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA
CHECKED BY: KORDA
Proj. # 18187
H204B
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS

- CODED NOTES:
1. PROVIDE CABLE OPERATED DAMPER FOR ACCESS.
 2. WALL SWITCH FOR MANUAL EXHAUST FAN CONTROL.
 3. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
 4. PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.
 5. PROVIDE CLEARANCE FOR FULL OPENING OF TRANSFER DUC.
 6. PROVIDE ΔC_9 TEMPERATURE SENSOR IN RETURN DUCT.
 7. SMOKE DETECTOR TO BE PROVIDED BY DIVISION 26.
 8. SMOKE DETECTOR TO BE PROVIDED BY DIVISION 26. LOCATE ABOVE LEVEL 05 FLOOR PENETRATION.



A FLOOR PLAN
FIFTH FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR
3	01/14/2022	BULLETIN 1 - INTERIOR



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



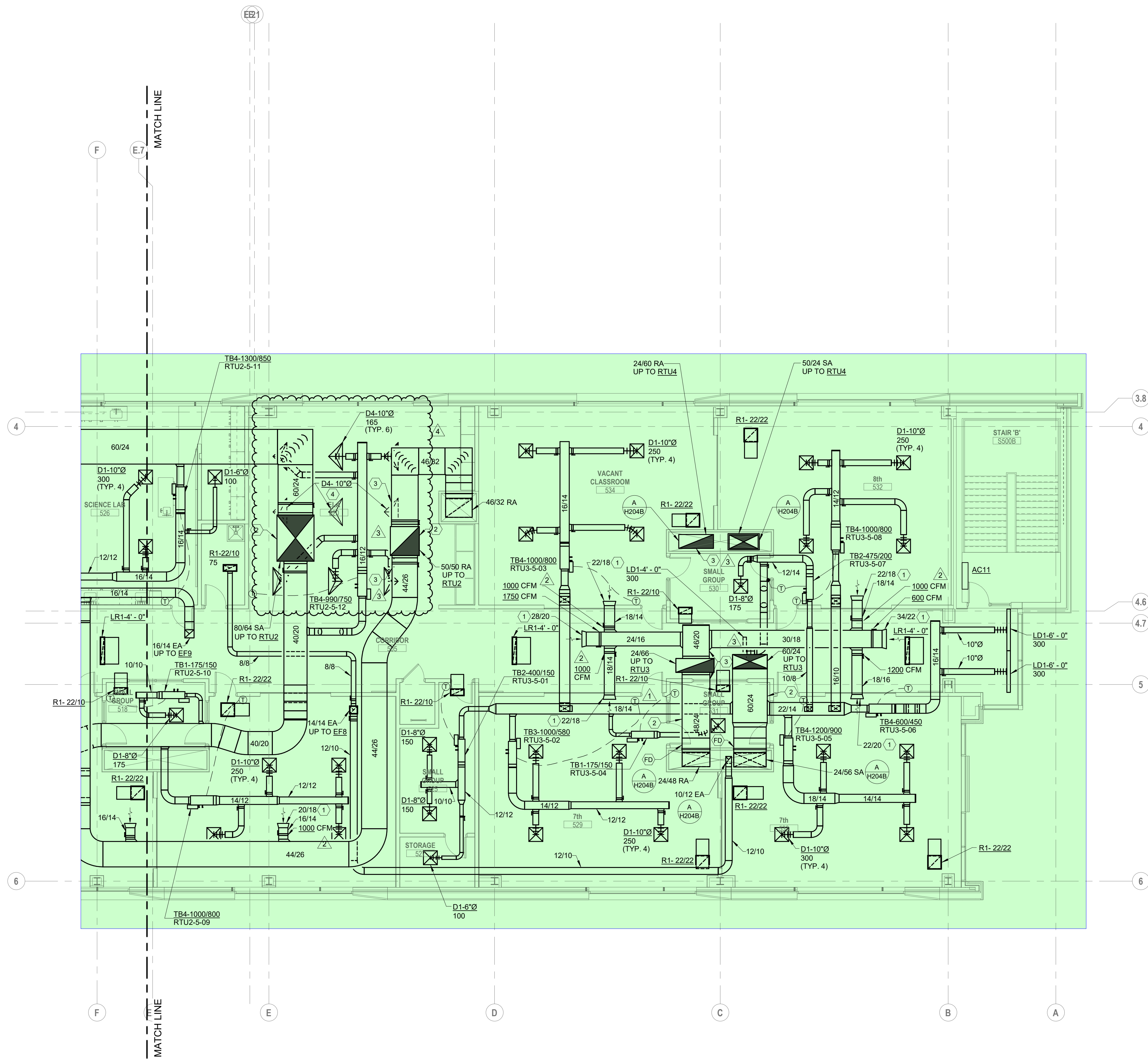
MOODY-NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC FIFTH FLOOR PLAN
AREA A**

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dave Bach
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H205A
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS



A FLOOR PLAN
FIFTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"
0' 1" 2' 4' 8'

- CODED NOTES:**
1. BELLMOUTH OPENING FOR RETURN AIR PLENUM
 2. PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.
 3. SMOKE DETECTOR TO BE PROVIDED BY DIVISION 26.
 4. RETURN AIR TERMINALS TO RELIEVE AIR TO PLENUM. DO NOT OBSTRUCT DUCT CONNECTION.

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR
3	01/14/2022	BULLETIN 1 - INTERIOR
4	04/12/2022	BULLETIN 3 - INTERIOR



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

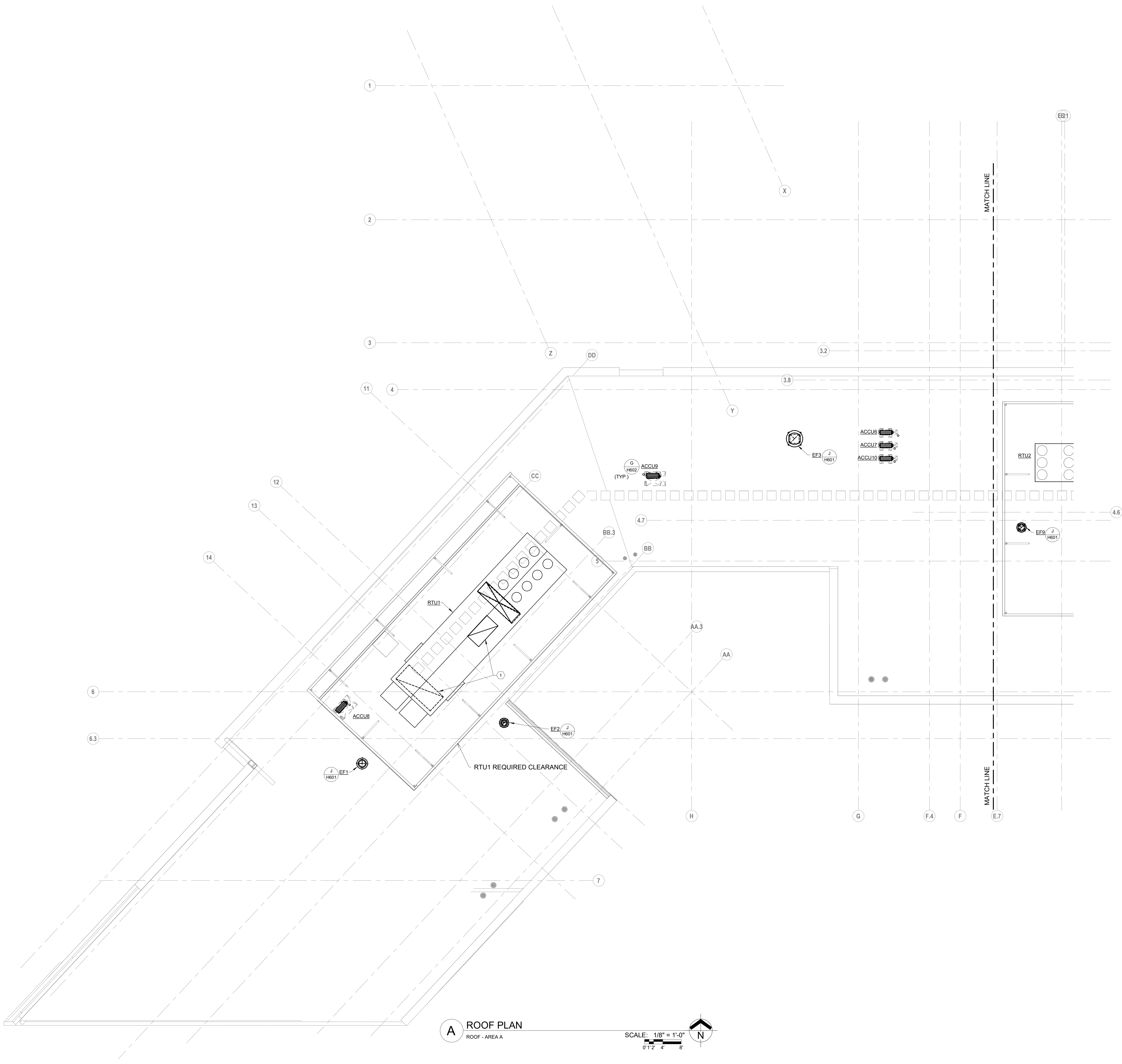
DRAWING TITLE:
**HVAC FIFTH FLOOR PLAN
AREA B**

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217

STATE OF OHIO
DANIEL J. EDWARDS
REGISTERED PROFESSIONAL ENGINEER
No. 23,921

10/25/21	
DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187	
H205B	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

- CODED NOTES:
1. RETURN PLENUM CURB UNDER ROOFTOP UNIT. RETURN CONNECTION FROM UNIT AND FLOOR BELOW BOTH CONNECT TO PLENUM CURB.



A ROOF PLAN
ROOF - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

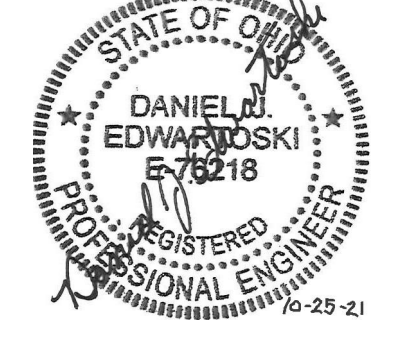
#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



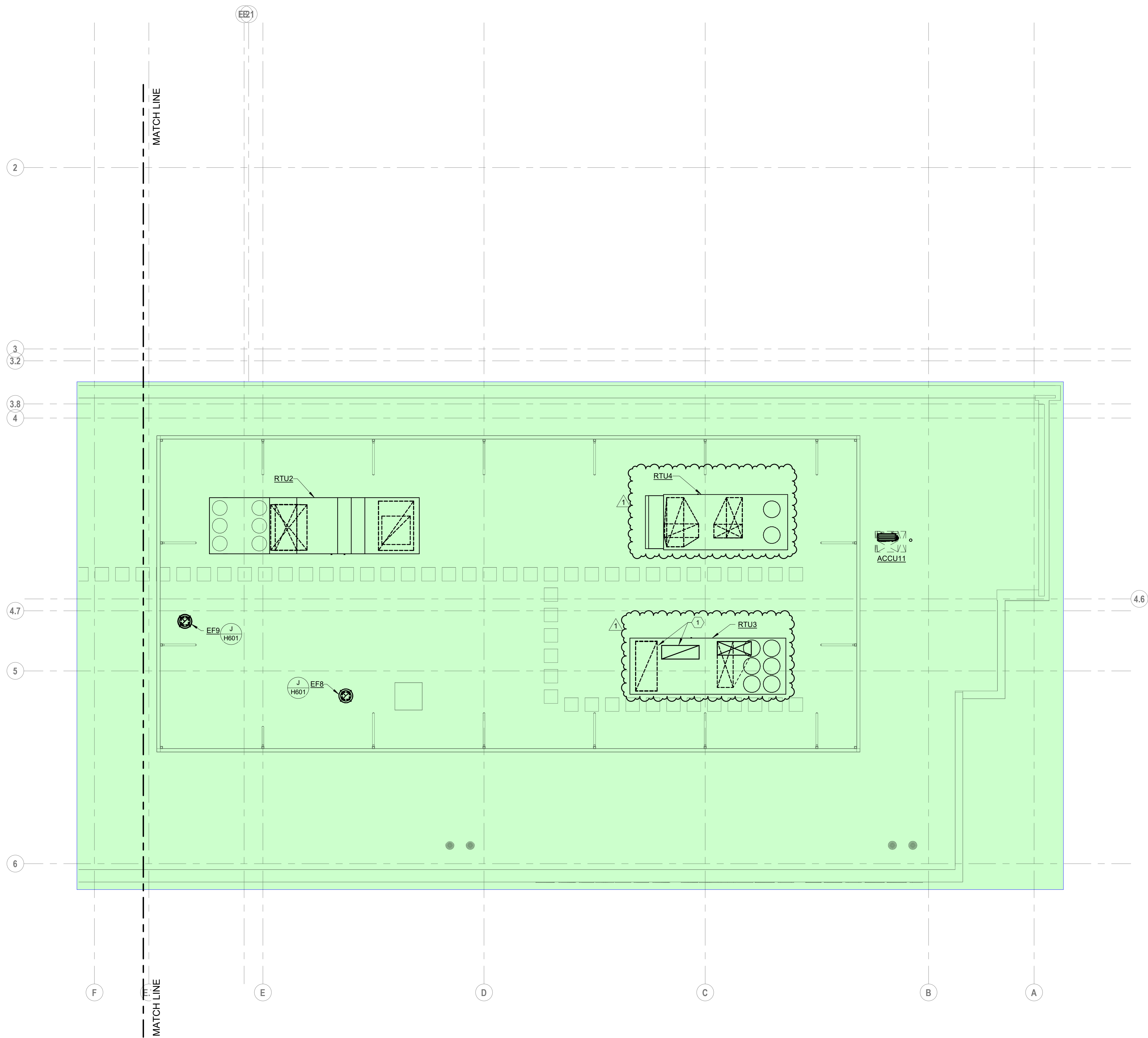
MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE: HVAC ROOF PLAN AREA A	
	10/25/21
	DRAWN BY: KORDA CHECKED BY: KORDA
	Proj. # 18187
H206A	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	



KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Dave Bach
DESIGNED BY: Dave Edwards (MECH)
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



A ROOF PLAN
ROOF - AREA B

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

- CODED NOTES:**
1. RETURN PLENUM CURB UNDER ROOFTOP UNIT. RETURN CONNECTION FROM UNIT AND FLOOR BELOW BOTH CONNECT TO PLENUM CURB.

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



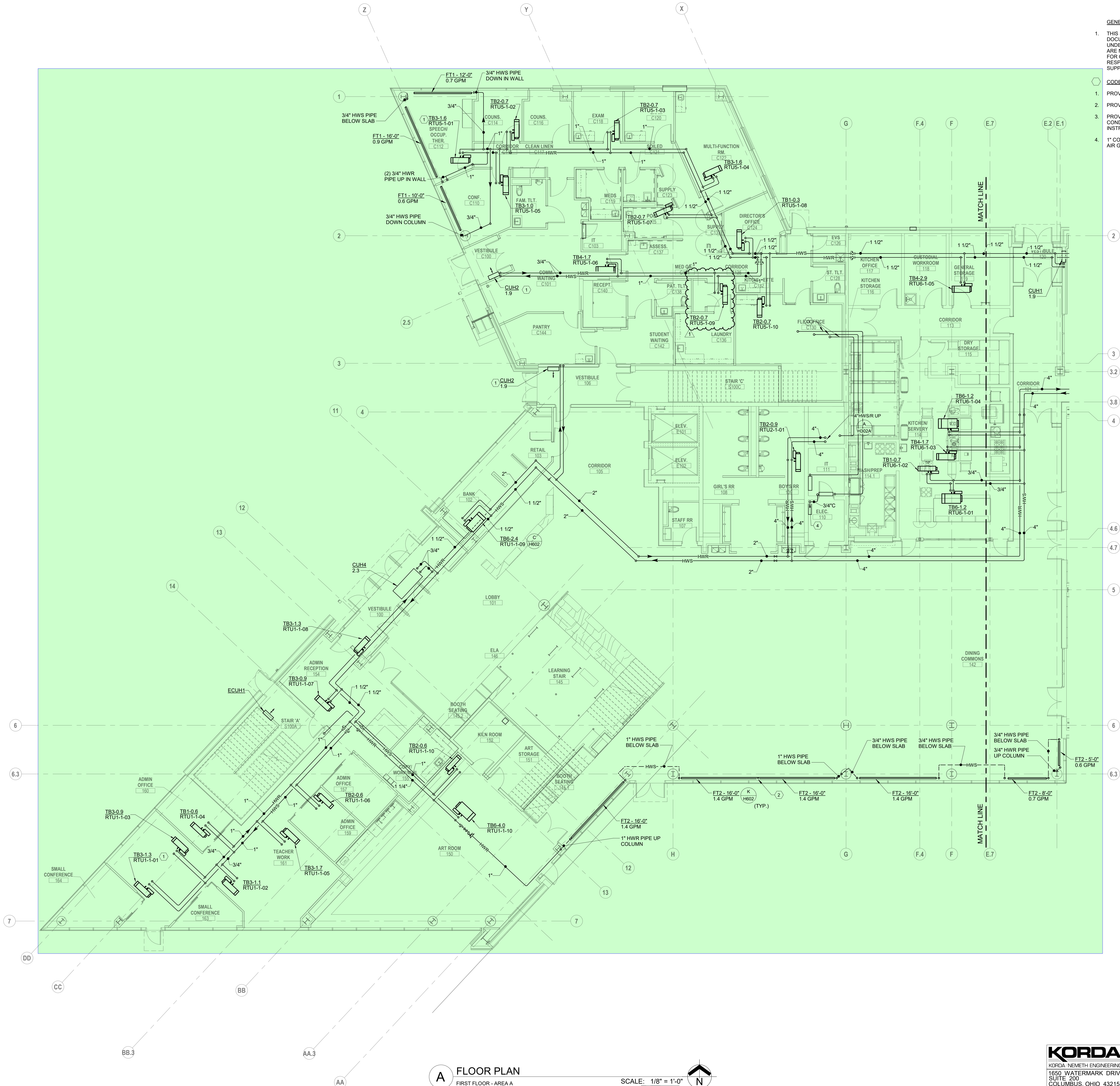
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
HVAC ROOF PLAN AREA B

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA
CHECKED BY: KORDA
Proj. # 18187
H206B
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS



- GENERAL NOTES:**
- THIS SHEET IS FOR INFORMATION ONLY AND NOT INTENDED TO DOCUMENT ALL UNDERGROUND MECHANICAL WORK. PROPOSED UNDERGROUND PATHWAYS FOR MAJOR MECHANICAL DISTRIBUTION ARE NOTE TO ASSIST OTHER TRADES. REFER TO FIT-OUT PACKAGE FOR COMPLETE MECHANICAL DESIGN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL UNDERGROUND HOT WATER SUPPLY AND RETURN PIPING.
- CODED NOTES:**
- PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
 - PROVIDE TRIM AND END PIECES FOR CONTINUOUS LOOK.
 - PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 - 1" CONDENSATE DRAIN DOWN TO FLOOR DRAIN. TERMINATE WITH 2" AIR GAP AT FLOOR DRAIN FUNNEL.

#	DATE	CHANGE DESCRIPTION
1	04/12/2022	BULLETIN 3 - INTERIOR



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners

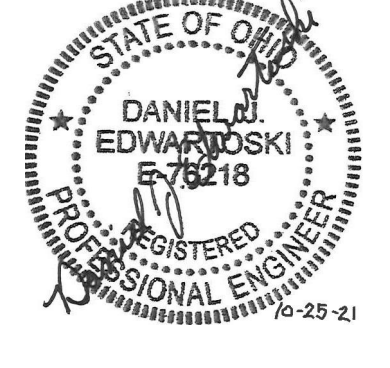


MOODY-NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

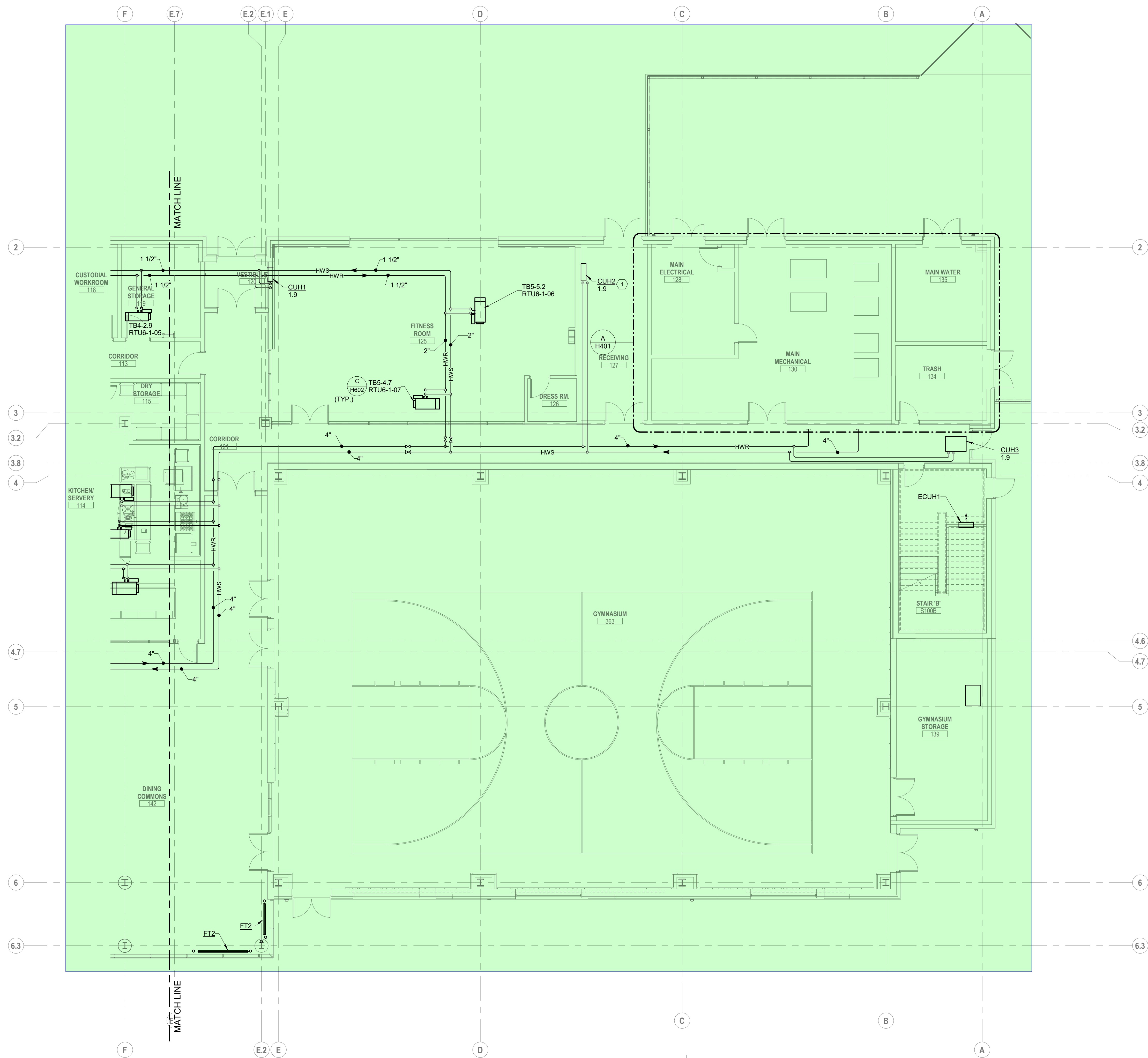
DRAWING TITLE:
**HVAC PIPING FIRST FLOOR
PLAN AREA A**



KORDA
KORDA, NEWHEM ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Steinhilber
PROJECT NUMBER: 2018-217



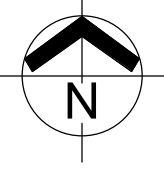
10/25/21	
DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187	
H301A	
INTERIOR PACKAGE CONSTRUCTION DOCUMENT	



- CODED NOTES:
1. PROVIDE 3-WAY VALVE.

A FLOOR PLAN
FIRST FLOOR - AREA B

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'



#	DATE	CHANGE DESCRIPTION



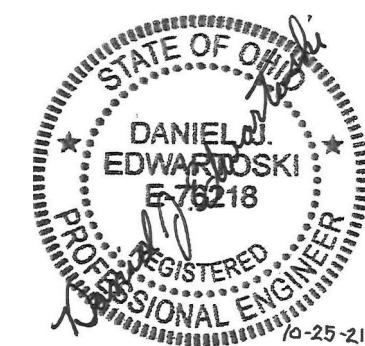
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



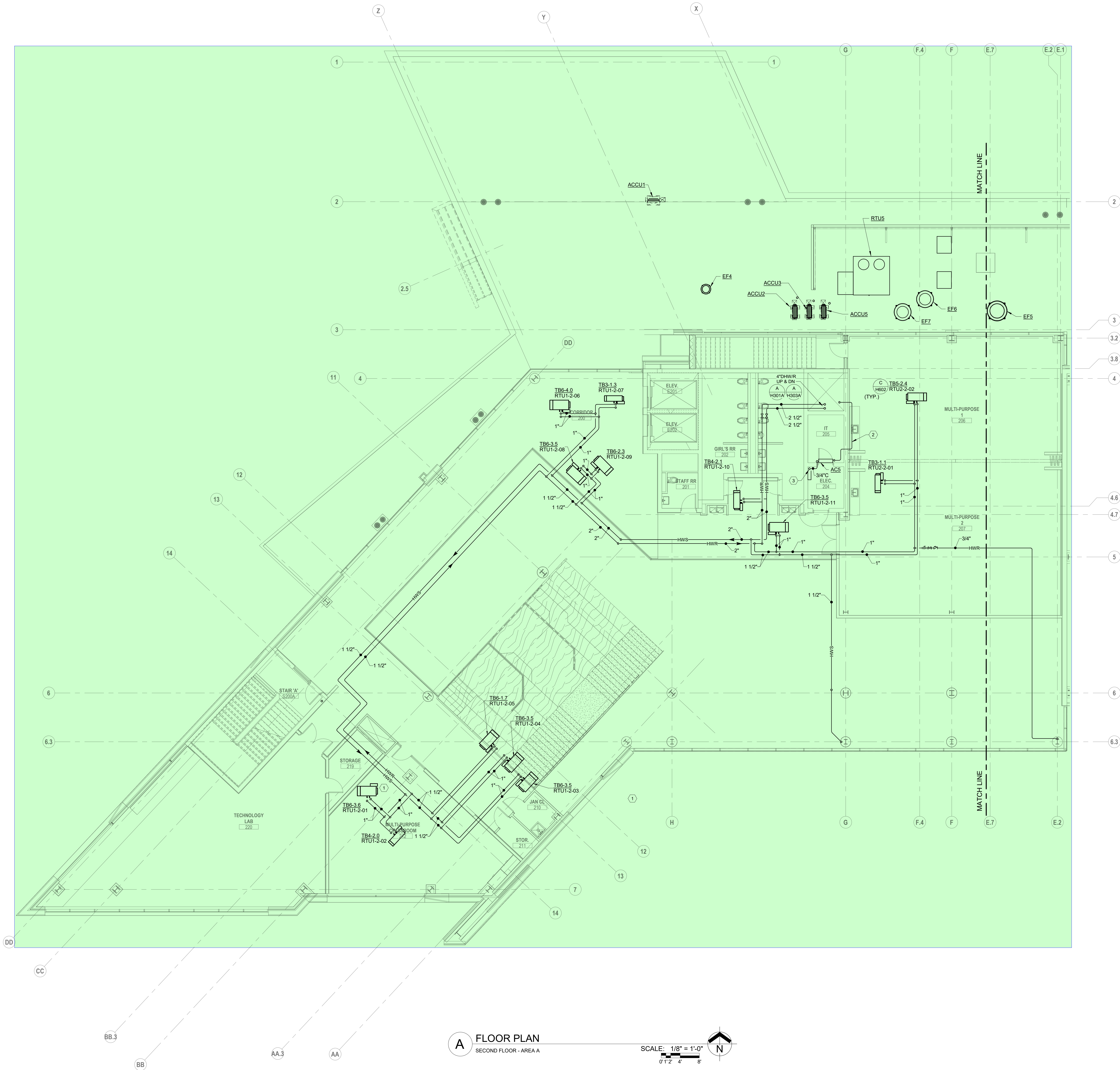
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC PIPING FIRST FLOOR
PLAN AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister (EIT)
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H301B
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS



- CODED NOTES:**
1. PROVIDE 3-WAY VALVE.
 2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 3. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.

A FLOOR PLAN
SECOND FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION



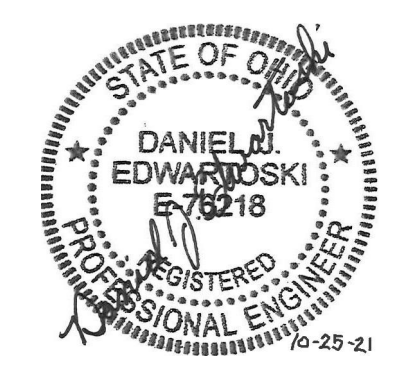
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



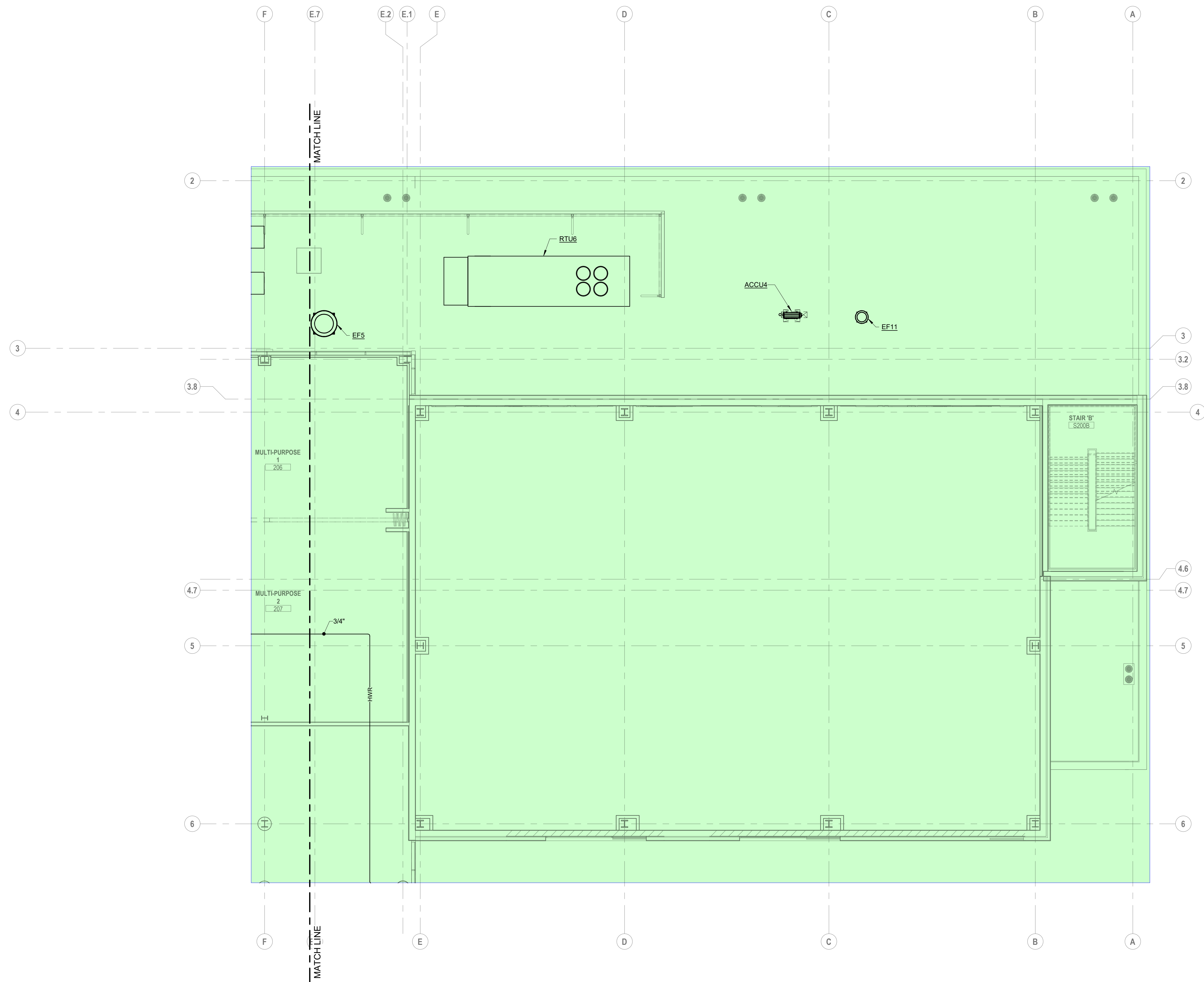
MOODY-NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC PIPING SECOND FLOOR
PLAN AREA A**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217

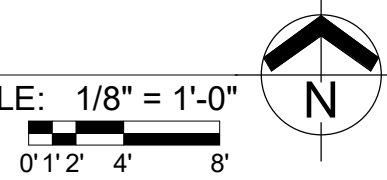


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Proj. # 18187
H302A
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS



A FLOOR PLAN
SECOND FLOOR - AREA B

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



#	DATE	CHANGE DESCRIPTION



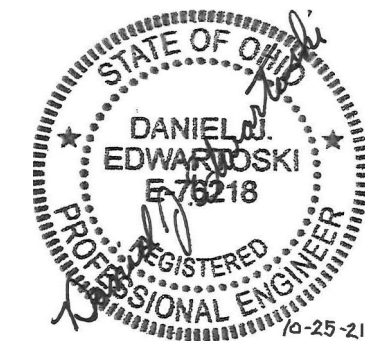
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



MOODY+NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

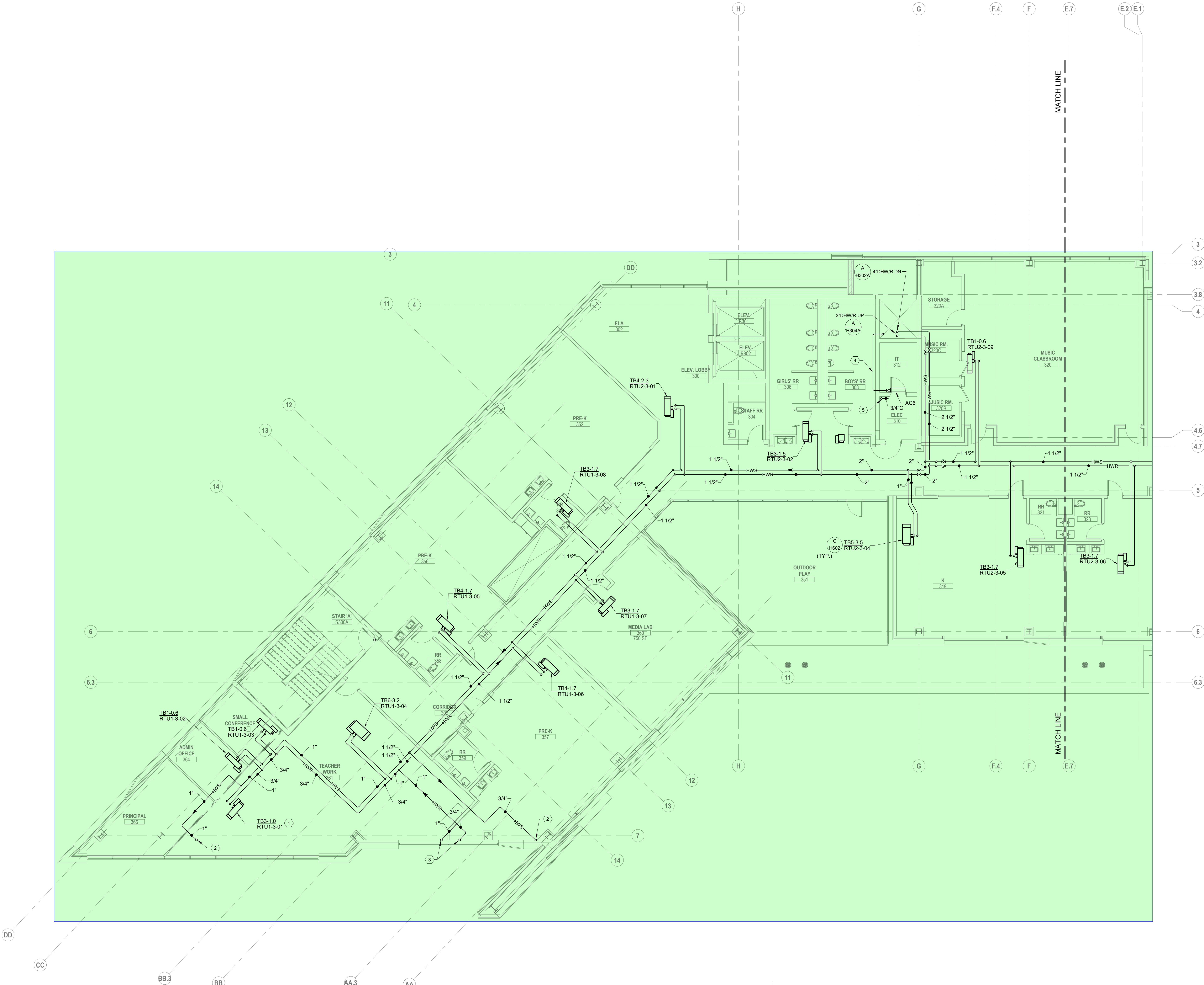
DRAWING TITLE:
**HVAC PIPING SECOND FLOOR
PLAN AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21	
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Proj. # 18187	
H302B	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

- CODED NOTES:
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
 2. HWS UP TO FINNED TUBE ABOVE.
 3. HWR UP TO FINNED TUBE ABOVE.
 4. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 5. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.



A FLOOR PLAN
THIRD FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION



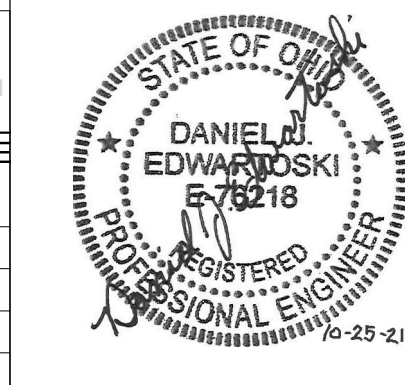
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



The Connor Group Kids & Community Partners

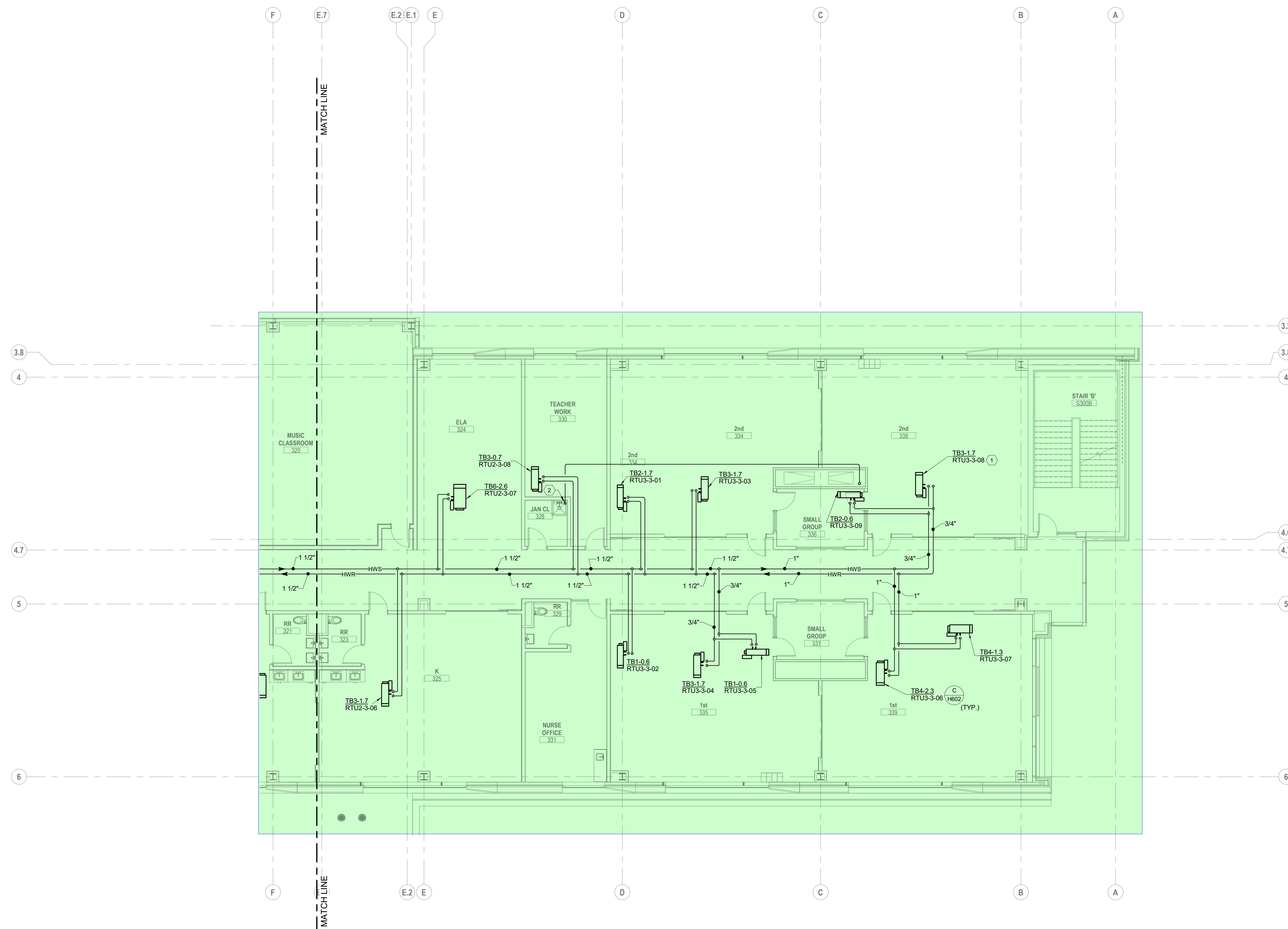
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**HVAC PIPING THIRD FLOOR
PLAN AREA A**

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



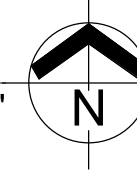
10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H303A
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS

-  CODED NOTES:
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL A/H602.
 2. ROUTE CONDENSATE DRAIN DOWN TO MOP SINK.

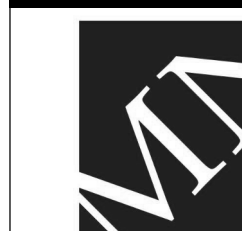


A FLOOR PLAN
THIRD FLOOR - AREA B

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

[illegible]

The Greater Dayton School
Deeds Park Dr.
DAYTON, OH 45404
FOR
**The Connor Group Kids &
Community Partners**



300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

HVAC PIPING THIRD FLOOR PLAN AREA B

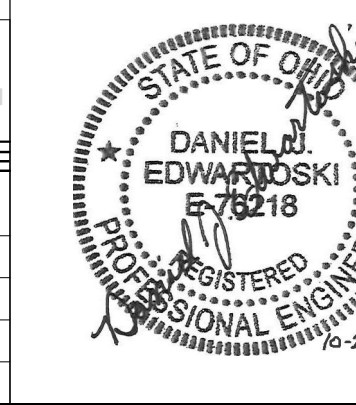
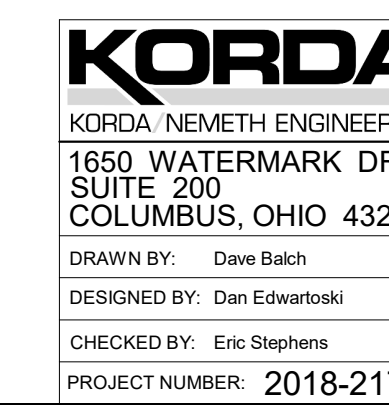
10/25/20

DRAWN BY: KORDA	CHECKED BY: KORDA
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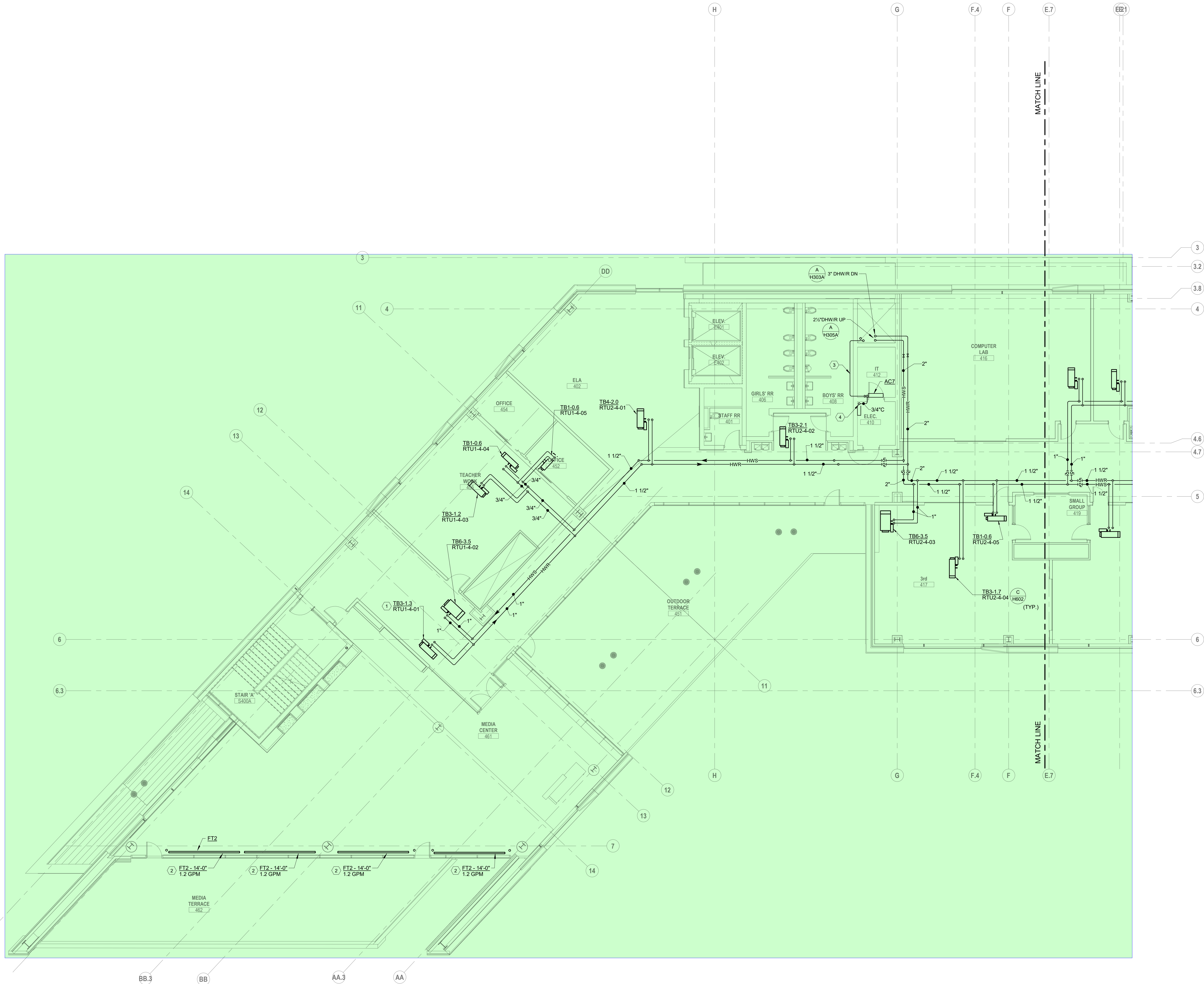
Proj. # 18187

H303B

INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS

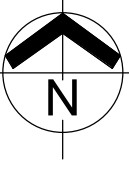


- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
 2. FINNED TUBE HWS & HWR SERVED FROM THIRD FLOOR CEILING.
 3. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 4. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.



A FLOOR PLAN
FOURTH FLOOR - AREA A

SCALE: 1/8" = 1'-0"
0' 1" 2' 4' 8'



#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



MOODY-NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

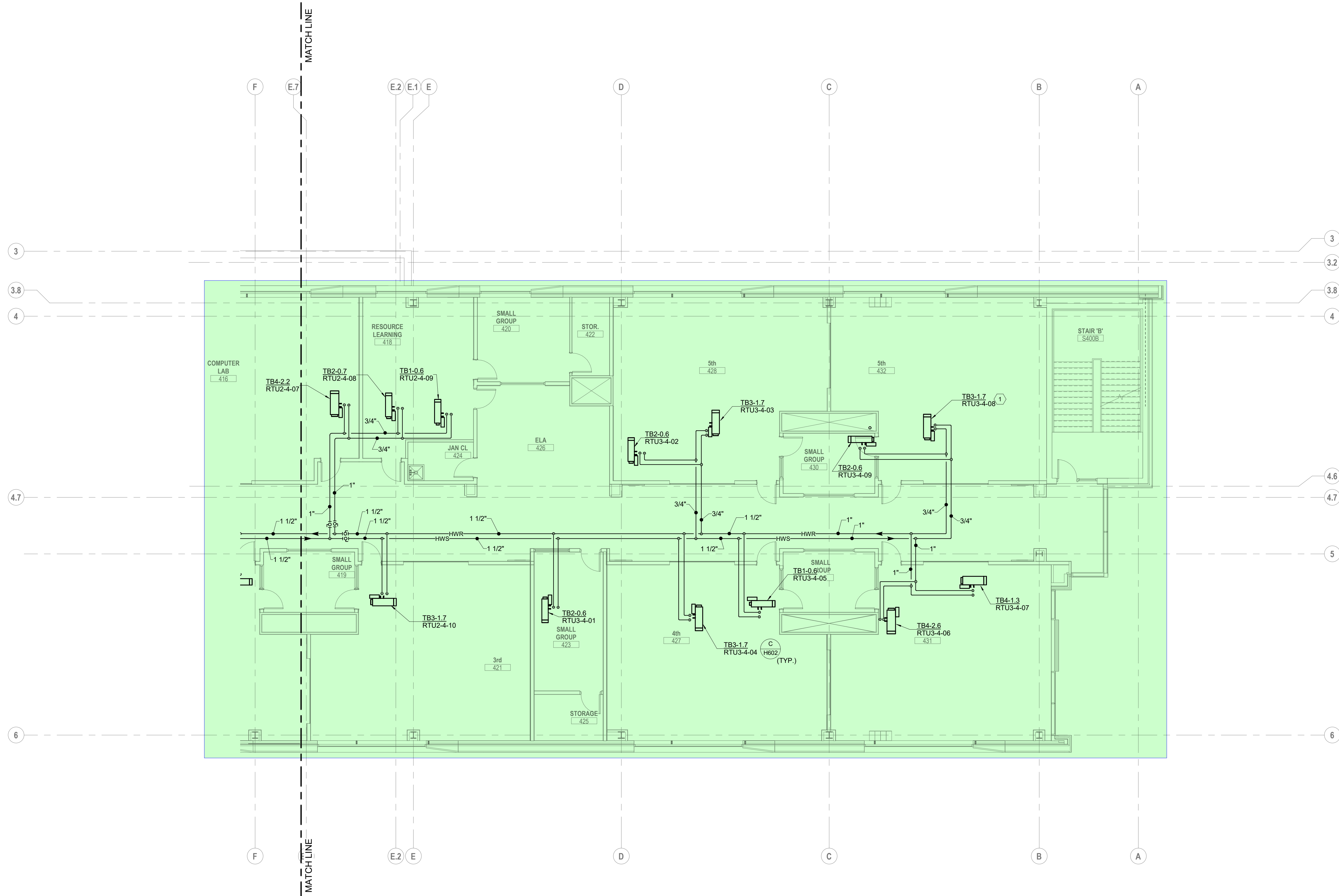
DRAWING TITLE:
**HVAC PIPING FOURTH FLOOR
PLAN AREA A**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Bach
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217

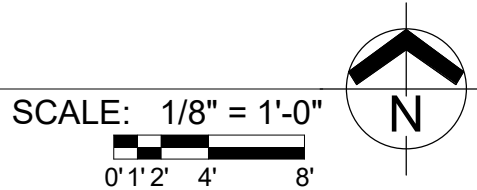


10/25/21
DRAWN BY: KORDA
CHECKED BY: KORDA
Proj. # 18187
H304A
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS

- CODED NOTES:
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.



A FLOOR PLAN
FOURTH FLOOR - AREA B



#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



MOODY+NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

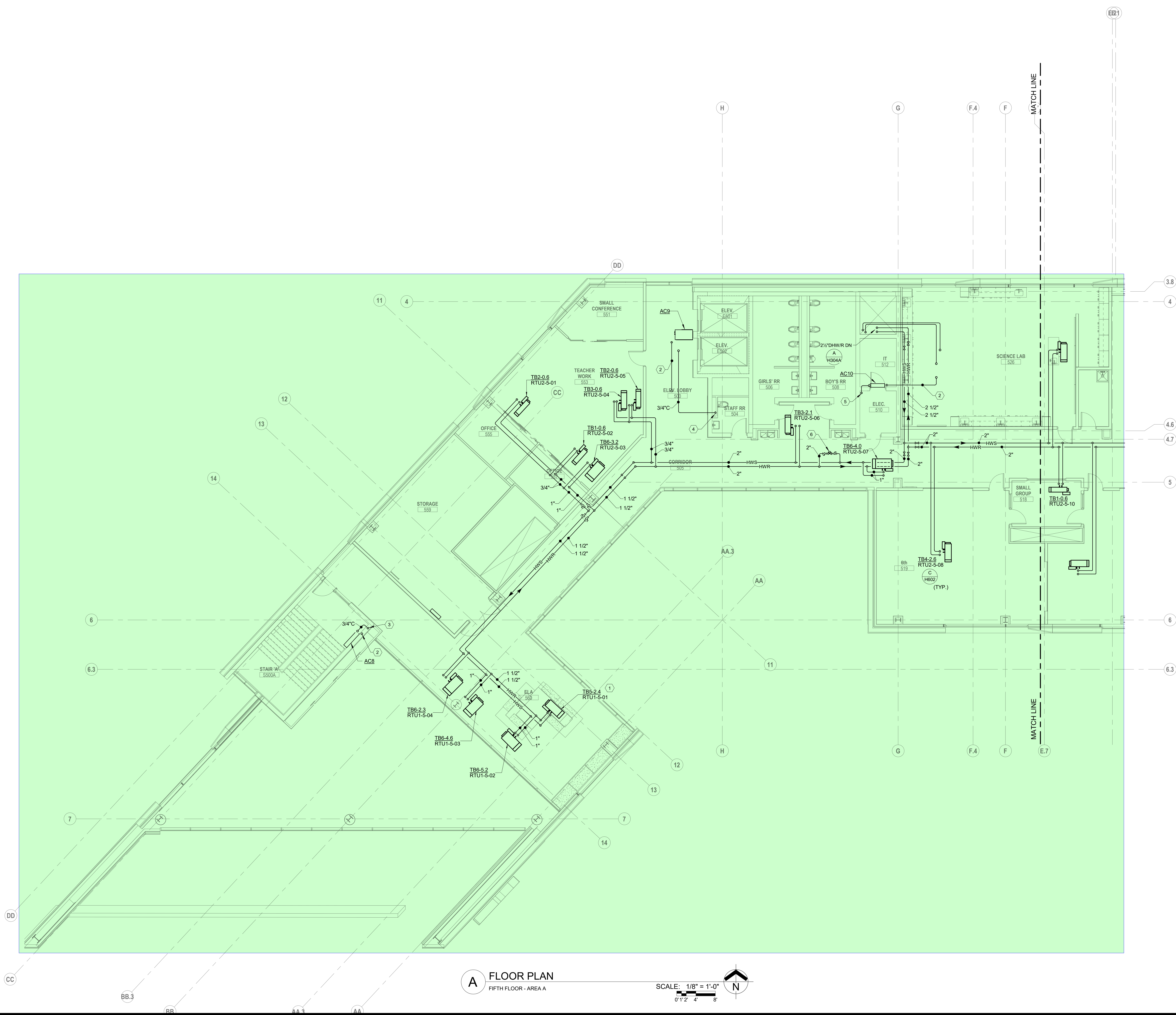
DRAWING TITLE:
**HVAC PIPING FOURTH FLOOR
PLAN AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dave Balch
DESIGNED BY: Dave Edmister (EIT)
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H304B
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
 2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 3. ROUTE CONDENSATE DRAIN DOWN TO BELOW.
 4. ROUTE CONDENSATE DRAIN DOWN TO WALL BOX.
 5. 3/4" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.
 6. MINIMUM FLOW MODULATING TWO-WAY BYPASS VALVE.



A FLOOR PLAN
FIFTH FLOOR - AREA A
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



The Connor Group Kids & Community Partners



MOODY-NOLAN

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

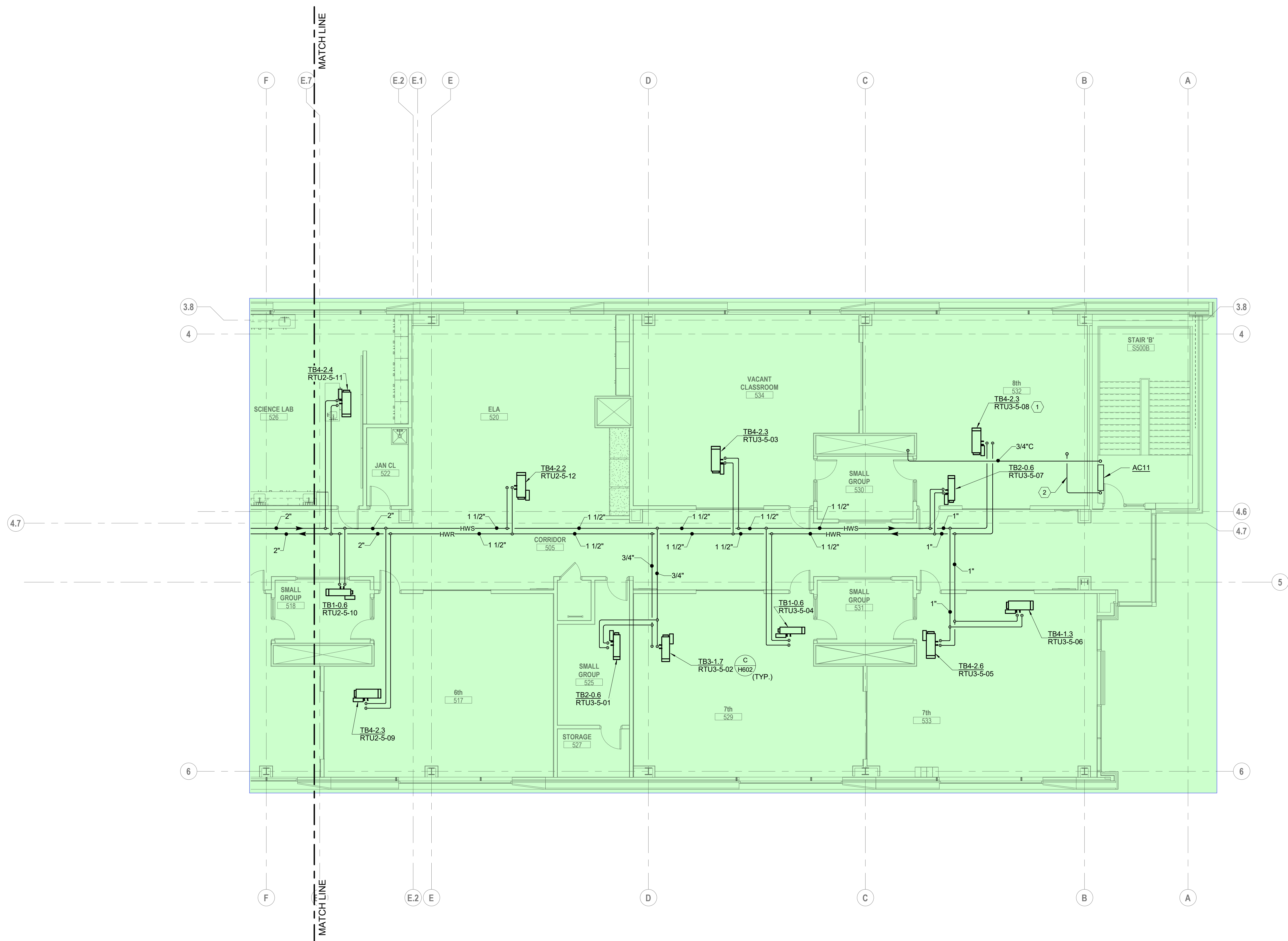
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**HVAC PIPING FIFTH FLOOR
PLAN AREA A**

10/25/21	
DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187	
H305A	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dave Edmister
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
 2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.



A FLOOR PLAN
FIFTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

N

#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



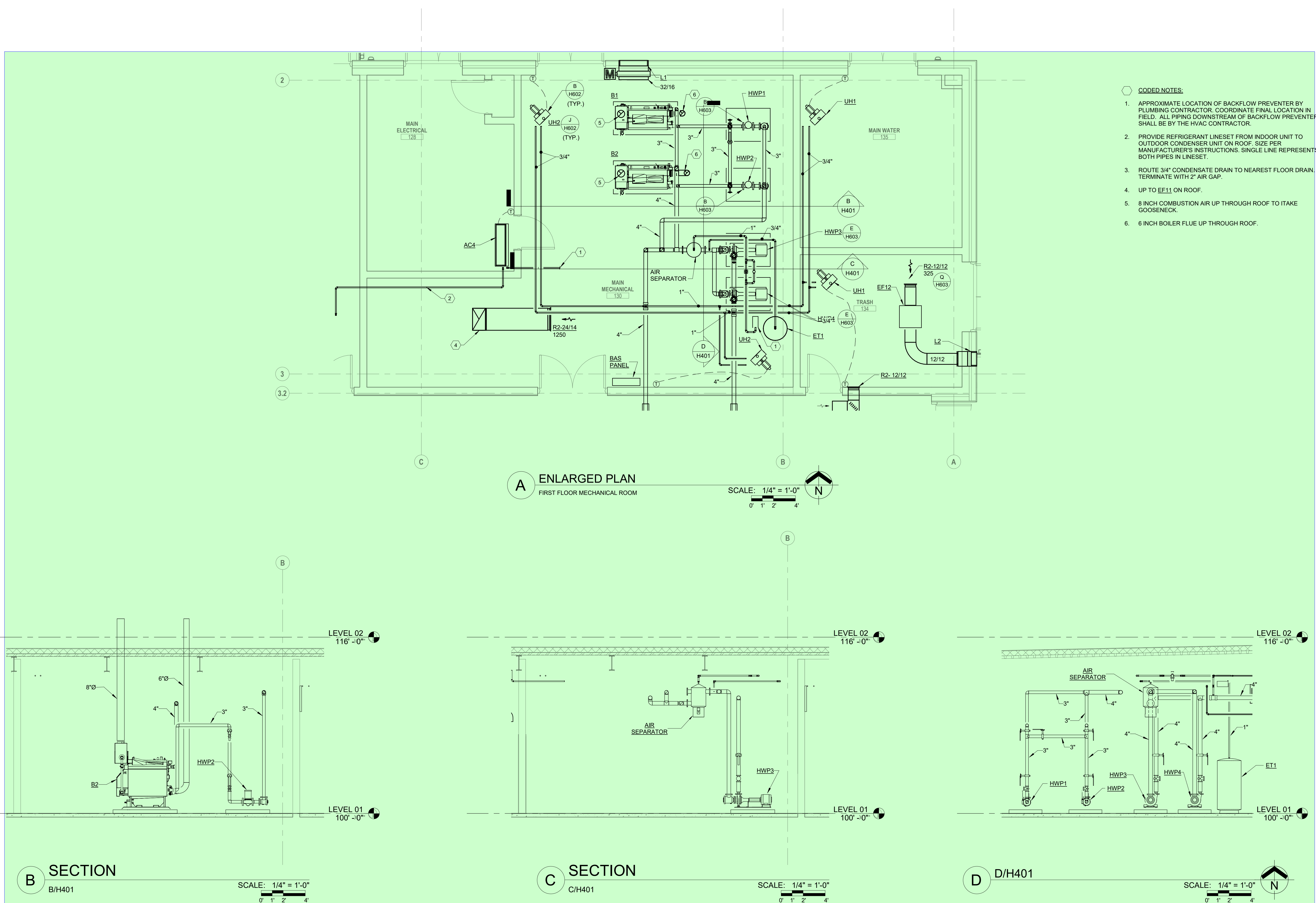
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
**HVAC PIPING FIFTH FLOOR
PLAN AREA B**

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dave Balch
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21
DRAWN BY: KORDA CHECKED BY: KORDA
Proj. # 18187
H305B
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS



- CODED NOTES:**
1. APPROXIMATE LOCATION OF BACKFLOW PREVENTER BY PLUMBING CONTRACTOR. COORDINATE FINAL LOCATION IN FIELD. ALL PIPING DOWNSTREAM OF BACKFLOW PREVENTER SHALL BE BY THE HVAC CONTRACTOR.
 2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
 3. ROUTE 3/4" CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. TERMINATE WITH 2" AIR GAP.
 4. UP TO EF11 ON ROOF.
 5. 8 INCH COMBUSTION AIR UP THROUGH ROOF TO ITAKE GOOSENECK.
 6. 6 INCH BOILER FLUE UP THROUGH ROOF.

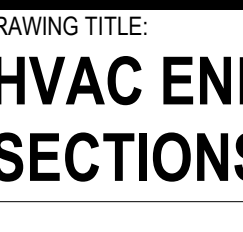
#	DATE	CHANGE DESCRIPTION



The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR



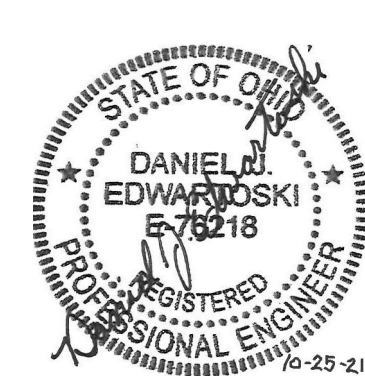
The Connor Group Kids & Community Partners



MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
HVAC ENLARGED PLANS & SECTIONS

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: Dana Balch
DESIGNED BY: Dan Edwards (etl)
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217



10/25/21	
DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187	
H401	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

ROOFTOP AIR HANDLING UNIT SCHEDULE

UNIT DATA												SUPPLY FAN DATA			RETURN/EXHAUST FAN DATA			EVAPORATOR DATA						HEATING DATA						CONDENSER FAN DATA		COMPRESSOR DATA		UNIT ELECTRICAL DATA				PHYSICAL DATA DATA		INDICATED COMPONENTS PROVIDED BY		REMARKS		
TAG	LOCATION	SERVES	MANUFACTURER MODEL	NOMINAL TONS	TOTAL CFM	MIN. O.A. CFM	E.S.P. IN. W.G.	T.S.P. IN. W.G.	FILTER EFFICIENCY	EER	IEER	HP	BHP	RPM	HP	BHP	RPM	TOTAL MBH	SENSIBLE MBH	E.A.T. DB	W.B.	L.A.T. DB	W.B.	AMB DB	REFRIG.	INPUT MBH	OUTPUT MBH	FUEL TYPE	E.A.T. °F	L.A.T. °F	NO. OF STAGES	NO. OF FANS	NO. OF COMP.	MCA	MOC	VOLTS	PHASE	L X W X H (INCHES)	WEIGHT (LBS)	DIV 23	DIV 26			
RTU1	HIGH ROOF AREA A	ACADEMIC WEST	INNOVENT CAHU-50000-AC-460	150	50,000	10,000	3.5	5.4	2" MERV 8 4" MERV 14	12.9	-	4 @ 20HP	4 @ 17.6HP	2,085	2 @ 10HP	2 @ 9.1HP	1,160	1,412	1,276	79.0	64.6	55.7	55.2	95	R410A	NO GAS HEAT						8	4		305.5	350	460	3	502 X 138 X 128	26,400	A B	-	E F J L M	
RTU2	HIGH ROOF AREA B	ACADEMIC CENTER	DAIKIN RPS080D	80	28,000	6,500	2.5	5.1	2" MERV 8 12" MERV 14	9.7	14.0	1 @ 40HP	1 @ 32.3HP	1,320	1 @ 20HP	1 @ 15.7HP	782	901.4	760.9	79.6	65.3	54.8	54.6	95	R410A							6	6		207.1	250	460	3	370 X 99 X 97	13,500	A B	-	D F J L M O	
RTU3	HIGH ROOF AREA B	ACADEMIC EAST	DAIKIN MPS061E	60	17,500	5,200	3.0	5.1	2" MERV 8 4" MERV 14	10.0	13.0	1 @ 30HP	1 @ 23.0HP	1,022	1 @ 5HP	-	-	679.2	518.3	80.9	66.1	53.9	53.3	95	R410A							6	4		156.8	175	460	3	275 X 98 X 73	8,900	A B	-	D F J L M	
RTU4	HIGH ROOF AREA B	GYMNASIUM	DAIKIN MPS040F	40	12,800	4,000	2.0	3.8	2" MERV 8 4" MERV 14	10.1	13.0	1 @ 15HP	1 @ 10.8HP	1,268	3 @ 1HP	-	-	461.4	358.7	81.2	66.4	55.6	54.5	95	R410A	800	640	NG	40.0	86.1	MOD.	4	4		101.0	110	460	3	246 X 98 X 73	5,500	A B	-	C D F G H J L M	
RTU5	LOW ROOF AREA A	COMMUNITY SERVICES	DAIKIN DPS015A	15	6,000	1,000	1.5	3.3	2" MERV 8 4" MERV 14	11.1	18.0	1 @ 8HP	1 @ 4.9HP	1,664	1 @ 4HP	1 @ 2.3HP	1,989	174.9	155.1	78.3	64.4	54.7	54.6	95	R410A	NO GAS HEAT						2	1 INTERTER SCROLL 1 FIXED SCROLL		35.8	45	460	3	91 X 97 X 57	2,500	A	-	C D F K L M	
RTU6	LOW ROOF AREA B	KITCHEN/LOCKERS	VALENT VXE-312	30	9,000	9,000	2.0	4.1	2" MERV 8 4" MERV 14	-	-	2 @ 7.5HP	2 @ 4.2 HP	1,637	2 @ 1HP	2 @ .58HP	1,190	397.6	284.4	85.2	69.4	55.9	55.9	95	R410A	600	480	NG	32.4	81.8	4	6	2		89.9	110	460	3	248 X 98 X 101	7,500	A B	-	100% OA WITH ENERGY RECOVERY D H K L M N	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
○ INDICATED ELECTRICAL COMPONENTS: A. DISCONNECT SWITCH B. VARIABLE FREQUENCY DRIVE C. VARIABLE SPEED COMPRESSOR D. 24" ROOF CURB W/ ISO. RAIL E. 36" PLENUM CURB W/ ISO. RAIL F. DRY BULB ECONOMIZER G. HOT GAS REHEAT COIL H. MODULATING GAS HEAT J. POWER EXHAUST W/ SPACE PRESSURE CONTROL K. POWER EXHAUST L. BACNET CARD M. OA FLOW STATION N. DRY BULB REHEAT COIL O. PROVIDE WITH PLENUM RETURN FAN, PROP EXHAUST FAN IS NOT ACCEPTABLE																																												

AIR COOLED SPLIT SYSTEM SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN
PER SPECIFICATIONS APPROVED EQUAL MANUFACTURERS ARE ACCEPTABLE

TAG	AC LOCATION	ACCU LOCATION	MODEL	HEATING CAPACITY MBH	COOLING CAPACITY MBH	CONDENSER DATA		ELECTRICAL DATA				INDICATED COMPONENT PROVIDED BY		REMARKS										
						REFRIGERANT	NO. FANS	MCA	MOC	VOLTS	PHASE	HVAC	ELEC											
AC1/ ACCU1	IT C103	LOW ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC2/ ACCU2	IT 111	LOW ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC3/ ACCU3	IT 111	LOW ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6 7										
			RZR18TAVJUA					16.5	20	208			(A)											
AC4/ ACCU4	MAIN ELEC 128	LOW ROOF	FTX36NVJU	36 @ 47°F	34.4	R410A	1	-	-	208	1	(D)	(A)	1 2 3 4 5 6										
			RX36NMVJUA					19.8	20	208			(A)											
AC5/ ACCU5	IT 205	LOW ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC6/ ACCU6	IT 312	HIGH ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC7/ ACCU7	IT 410	HIGH ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC8/ ACCU8	WEST STAIR S500A	HIGH ROOF	FTX36NVJU	36 @ 47°F	34.4	R410A	1	-	-	208	1	(D)	(A)	1 2 3 4 5 6 7										
			RX36NMVJUA					19.8	20	208			(A)											
AC9/ ACCU9	ELEV LOBBY 500	HIGH ROOF	FBQ24PVJU	27	24	R410A	1	1.8	15	208	1	(D)	(A)	1 2 3 6 7 8										
			RZQ24TAVJUA					16.5	20	208			(A)											
AC10/ ACCU10	IT 512	HIGH ROOF	FAQ18TAVJU	-	18	R410A	1	0.5	15	208	1	(D)	(A)	1 2 3 5 6										
			RZR18TAVJUA					16.5	20	208			(A)											
AC11/ ACCU11	EAST STAIR S500B	HIGH ROOF	FTX36NVJU	36 @ 47°F	34.4	R410A	1	-	-	208	1	(D)	(A)	1 2 3 4 5 6										
			RX36NMVJUA					19.8	20	208			(A)											
INDICATED ELECTRICAL COMPONENTS: (A) DISCONNECT SWITCH (B) CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH (C) CONTROL PANEL (D) WIRE CONTROLLER															○ REMARKS: 1. CONDENSATE PUMP SHALL BE FURNISHED BY HVAC CONTRACTOR AND FIELD INSTALLED IN AC BY HVAC CONTRACTOR. 2. UNIT SHALL BE CAPABLE OF 0°F AMBIENT OPERATION. 3. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION. 4. POWER FEED FOR OUTDOOR UNIT ONLY. 5. WIRED CONTROLLER. 6. ON EMERGENCY POWER. 7. REDUNDANT COOLING FOR MDF ROOM. 8. TEMPERATURE SENSOR IN THE RETURN AIR DUCT.									

FAN SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON GREENHECK
KEY: CENT.-CENTRIFUGAL, PROP.-PROPELLER, F.C.-FORWARD CURVED, B.I.-BACKWARD, INCLINED, A.F.-AIRFOIL.

UNIT DATA													MOTOR DATA				SOUND RATING IN SONES	INDICATED COMPONENTS PROVIDED BY DIV 23 DIV 26		REMARKS
TAG	LOCATION	FUNCTION	MODEL	CFM	T.S.P. IN. W.G.	FAN TYPE	WHEEL TYPE	RPM	TIP SPEED FPM	TYPE OF DRIVE	TYPE OF DAMPER	TYPE OF CONTROL	HP	RPM	VOLTS	PHASE				
EF1	HIGH ROOF	ART/KILN EXHAUST	GB-140HP	1,025	1.5	DOWNBLAST	CENT.	1,908	-	BELT	BACKDRAFT	BAS	0.75	1,725	480	3	16.8	A	D	
EF2	HIGH ROOF	TOILET EXHAUST	CUBE-100HP	300	1.25	UPBLAST	CENT.	1,883	-	BELT	BACKDRAFT	BAS	1/4	1,725	120	1	10.1	A	D	
EF3	HIGH ROOF	TOILET EXHAUST	GB-240HP	5,375	1.5	DOWNBLAST	CENT.	1,120	-	BELT	BACKDRAFT	BAS	3	1,725	480	3	19.9	A	D	
EF4	LOW ROOF	COMMUNITY SERVICES EXHAUST	GB-100HP	375	1.0	DOWNBLAST	CENT.	1,754	-	BELT	BACKDRAFT	BAS	1/4	1,725	120	1	10.5	A	D	
EF5	LOW ROOF	KITCHEN HOOD EXHAUST	CUBE-300XP-50	4,400	2.5	UPBLAST	CENT.	1,404	-	BELT	NONE	HOOD INTERLOCK	5	1,725	480	3	22	A	D	
EF6	LOW ROOF	DISHWASHER HOOD EXHAUST	CUBE-160XP-10	1,200	1.5	UPBLAST	CENT.	1,925	-	BELT	NONE	DISHWASHER INTERLOCK	1	1,725	480	3	12.8	A	D	
EF7	ABOVE CEILING	GENERAL EXHAUST	CSP-A190	150	0.25	SQUARE INLINE	CENT.	1,400	-	DIRECT	BACKDRAFT	BAS	50 W	1,725	120	1	3.0	A	D	PROVIDE SPEED CONTROLLER PROVIDE ISOLATION KIT
EF8	HIGH ROOF	TOILET EXHAUST	GB-100HP	450	1.5	DOWNBLAST	CENT.	2,140	-	BELT	BACKDRAFT	BAS	1/2	1,725	120	1	12.1	A	D	
EF9	HIGH ROOF	SCIENCE LAB EXHAUST	CUBE-120	1,200	0.75	UPBLAST	CENT.	1,405	-	BELT	BACKDRAFT	BAS	1/2	1,725	120	1	12.6	A	D	
EF10	ABOVE CEILING	GYM STORAGE EXHAUST	SQ-120-C	600	0.25	SQUARE INLINE	CENT.	860	-	DIRECT	BACKDRAFT	BAS	1/8	1,725	120	1	3.2	A	D	PROVIDE SPEED CONTROLLER PROVIDE ISOLATION KIT
EF11	LOW ROOF	MECH ROOM VENTILATION	GB-120	1,250	0.25	DOWNBLAST	CENT.	1,170	-	BELT	BACKDRAFT	-	1/4	1,725	120	1	5.8	A	D	
EF12	ABOVE CEILING	GENERAL EXHAUST	SQ-95-D	325	0.5	SQUARE INLINE	CENT.	1,454	-	DIRECT	BACKDRAFT	BAS	1/8	1,550	120	1	7.3	A	D	PROVIDE SPEED CONTROLLER PROVIDE ISOLATION KIT
EF13	LOW ROOF	DISHWASHER ROOM EXHAUST	CUBE-140HP-S	800	1.0	UPBLAST	CENT.	1,480	-	BELT	NONE	HOOD INTERLOCK	1/2	1,725	120	1	13.3	A	D	
CODED NOTES: A. DISCONNECT SWITCH B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH C. CONTROL PANEL D. LINE VOLTAGE STARTER E. REDUCED VOLTAGE STARTER F. TWO SPEED STARTERS G. VARIABLE FREQUENCY DRIVE H. EMERGENCY POWER J. PLUG-IN UNIT K. THERMOSTAT L. WALL SWITCH																				

FINNED RADIATION SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON RUNTAL

UNIT DATA						CABINET			HEATING WATER			REMARKS
TAG	LOCATION	MODEL	TYPE	BTU/HR/FT		HIGH	DEEP	LENGTH	E.W.T. °F	L.W.T. °F	GPM	
FT1	SEE PLANS	R2F-3	PEDESTAL MOUNT	815		12"	4.8"	SEE PLANS	140	110	SEE PLANS	HEIGHT INCLUDES PEDESTAL MOUNT TWO - SIDED FINISH
FT2	SEE PLANS	R2F-5	PEDESTAL MOUNT	1245		17.8"	4.8"	SEE PLANS	140	110	SEE PLANS	HEIGHT INCLUDES PEDESTAL MOUNT TWO - SIDED FINISH

HEAT RECOVERY SCHEDULE

UNIT DATA						REMARKS
TAG	WINTER IN	WINTER OUT	SUMMER IN	SUMMER OUT	A.P.D. IN. W.G.	
RTU1 OA	0.0 °F 9,000 CFM	32.4 °F 9,000 CFM	95.0 °F / 75.0 °F 9,000 CFM	85.2 °F / 69.4 °F 9,000 CFM	0.94	-
RTU1 EA	72.0 °F 4,400 CFM	2.8 °F 4,400 CFM	75.0 °F / 62.4 °F 4,400 CFM	94.0 °F / 74.4 °F 4,400 CFM	0.47	-

LOUVER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON AIROLITE

TAG	LOCATION	MODEL	FUNCTION	DIMENSIONS H x W x D	FREE FACE AREA	CFM	MAXIMUM A.P.D. IN. W.G.	MAXIMUM VELOCITY FPM	DAMPER	REMARKS
L1	MAIN MECH	K6776	INTAKE	16x32x6	2.34	1,250	0.05	679	MOTORIZED	INTERLOCK WITH OPERATION OF EF11
L2	TRASH	K6776	EXHAUST	16x16x6	0.92	325	0.05	352	BACKDRAFT	
L3	TRASH	K6776	EXHAUST	16x8x6	0.46	150	0.05	330	BACKDRAFT	

HOT WATER BOILER SCHEDULE																					
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON ATH																					
UNIT DATA								GAS DATA			WATER DATA					BLOWER MOTOR			INDICATED COMPONENTS PROVIDED BY DIV 23 DIV 26		REMARKS
TAG	LOCATION	MODEL	TYPE	FUEL	BURNER	INPUT MBH	OUTPUT MBH	PRESSURE AVAILABLE	DESIGN PRESSURE	GAS FLOW CFH	OPERATING PRESSURE	E.W.T. °F	L.W.T. °F	GPM	RELIEF PRESSURE	HP	VOLTS	PHASE			
B1/B2	FIRST FLOOR MECH ROOM	KN20	-	NAT. GAS	-	1,999	1,799	14 IN. W.G.	7 IN. W.G.	1,999	45 PSI	110	140	120	100 PSI	-	208	1	B	-	
INDICATED ELECTRICAL COMPONENTS: A. DISCONNECT SWITCH B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH C. CONTROL PANEL D. LINE VOLTAGE PANEL E. REDUCED VOLTAGE STARTER F. TWO SPEED STARTERS G. VARIABLE FREQUENCY DRIVE H. EMERGENCY POWER																					

PUMP SCHEDULE																	
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON BELL & GOSSETT																	
KEY: C.C.-CLOSE COUPLED END SUCTION, H.S.C.-FLEXIBLE COUPLED HORIZONTAL SPLIT CASE, F.C.-FLEXIBLE COUPLED END SUCTION, I.L.-IN LINE																	
TAG	LOCATION	MODEL	FUNCTION	TYPE	GPM	FT. HD.	EFF. %	SUCTION SIZE	DISCHARGE SIZE	IMPELLER DIAMETER	RPM	HP	VOLTS	PHASE	PROVIDED BY DIV 23 DIV 26	REMARKS	
HWP1-2	MECH RM	e90-2AAC	PRIMARY	I.L.	120	25	70.4	2"	2"	5.5"	3450	1.5	480	3	-	A,E	-
HWP3-4	MECH RM	e1510-2BD	SECONDARY	F.C.	240	75	73.7	2.5"	2"	9.5"	1740	7.5	480	3	G	-	-
○ INDICATED ELECTRICAL COMPONENTS: A. DISCONNECT SWITCH C. CONTROL PANEL E. LINE VOLTAGE STARTER G. VARIABLE FREQUENCY DRIVE B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH D. LINE VOLTAGE PANEL F. TWO SPEED STARTERS H. EMERGENCY POWER																	

SHEETMETAL PLANS: SIZE-MAX CFM/MIN CFM UNIT-FLOOR-NUMBER						
CLG ONLY TERMINAL BOX SCHEDULE						
VARIABLE AND CONSTANT AIR VOLUME COOLING ONLY TERMINAL BOXES UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS						
PIPING PLANS (FOR REF): SIZE UNIT-FLOOR-NUMBER						
UNIT DATA		NECK SIZE	CFM RANGE	MAX. DISCH. N.C. LEVEL @ 2" ΔP	MAX. S.P. DROP	REMARKS
TB11	ESV	6	80-300	26	0.1	-
TB12	ESV	8	301-600	32	0.1	-
TB13	ESV	10	601-900	29	0.1	-
TB14	ESV	12	901-1,500	33	0.1	-
TB15	ESV	14	1,501-1,800	29	0.1	-
TB16	ESV	16	1,801-3,200	30	0.1	-

SHEETMETAL PLANS: SIZE-MAX CFM/MIN CFM UNIT-FLOOR-NUMBER					Tb1 / 0.5 GPM Tb2 / 1.0 GPM Tb3 / 1.6 GPM Tb4 / 2.4 GPM Tb5 / 3.6 GPM Tb6 / 5.3 GPM Tb13 / COOL		HOT WATER REHEAT TERMINAL BOX SCHEDULE									
PIPING PLANS (FOR REF): SIZE-GPM UNIT-FLOOR-NUMBER							VARIABLE AND CONSTANT AIR VOLUME TERMINAL BOXES WITH HOT WATER HEATING COILS UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS									
UNIT DATA		NECK SIZE	CFM RANGE	MAX. DISCH. N.C. LEVEL @ 2" ΔP	MAX. S.P. DROP	UNIT DATA								REMARKS		
TAG	MODEL					MBH	GPM	WATER ΔT	E.A.T. °F	L.A.T. °F	MAX COIL PD (FTH)	MIN. # OF ROWS				
Tb1	ESV	6	80-300	26	0.3	7.3	0.5	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			
Tb2	ESV	8	301-600	32	0.3	14.6	1.0	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			
Tb3	ESV	10	601-900	29	0.5	24.3	1.6	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			
Tb4	ESV	12	901-1,500	33	0.5	36.5	2.4	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			
Tb5	ESV	14	1,501-1,800	29	0.5	54.7	3.6	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			
Tb6	ESV	16	1,801-3,200	30	0.7	79.0	5.3	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.			

ELECTRIC CABINET UNIT HEATER SCHEDULE														
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON INDEECO														
UNIT DATA					AIR DATA			HEATING ELEMENTS			INDICATED COMPONENTS PROVIDED BY DIV 23 DIV 26		REMARKS	
TAG	LOCATION	MODEL	TYPE	KW	CFM	E.A.T. °F	L.A.T. °F	NO.	TOTAL KW	VOLTS	PHASE	PROVIDED BY DIV 23 DIV 26		
ECUH1	STAIR	CU1 922U05	WALL RECESSED	5	250	65	128	1	5	-	-	A,K	-	UNIT MOUNTED THERMOSTAT
ECUH2	SEE PLANS	CU1 922U05	CEILING RECESSED	5	250	65	128	1	5	-	-	A,K	-	REMOTE MOUNTED THERMOSTAT TRIM FOR CEILING RECESSED MOUNT
CODED NOTES: A. DISCONNECT SWITCH C. CONTROL PANEL G. VARIABLE FREQUENCY DRIVE L. WALL SWITCH B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH D. LINE VOLTAGE PANEL H. EMERGENCY POWER J. PLUG-IN UNIT K. THERMOSTAT E. REDUCED VOLTAGE STARTER F. TWO SPEED STARTERS														

HOT WATER UNIT HEATER SCHEDULE																			
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TRANE																			
UNIT DATA					AIR DATA				WATER DATA				MOTOR DATA				INDICATED COMPONENTS PROVIDED BY		REMARKS
TAG	LOCATION	MODEL	TYPE	MBH	CFM	E.A.T. °F	L.A.T. °F	A.P.D. IN. W.G.	E.W.T. °F	L.W.T. °F	GPM	W.P.D. FT. HD.	HP	RPM	VOLTS	PHASE	DIV 23	DIV 26	
FROM SUBMITTAL																			
UH1 / 450 CFM / 1.9 GPM	SEE PLANS	S-A18	HUNG	10	500	60	79	-	140	110	1.9	2.2	0.02	1,550	120	1	A	K	-
UH2 / 730 CFM / 3.6 GPM	SEE PLANS	S-A36	HUNG	20	850	60	83	-	140	110	3.6	2.2	1/20	1,000	120	1	A	K	-
☐ CODED NOTES: A. DISCONNECT SWITCH B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH C. CONTROL PANEL D. LINE VOLTAGE PANEL E. REDUCED VOLTAGE STARTER F. TWO SPEED STARTERS G. VARIABLE FREQUENCY DRIVE H. EMERGENCY POWER J. PLUG-IN UNIT K. THERMOSTAT L. WALL SWITCH																			

EXPANSION TANK SCHEDULE									
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON BELL & GOSSETT									
TAG	LOCATION	MODEL	FUNCTION	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MINIMUM PRESSURE (PSIG)	MAXIMUM PRESSURE (PSIG)	AIR PRECHARGE (PSIG)	REMARKS
ET1	MECH ROOM	B-600	HOT WATER	158	158	40	100	40	

FROM SUBMITTAL:

CUH1, 2, 3 / 620 CFM / 1.9 GPM

CUH4 / 940 CFM / 2.3 GPM

HOT WATER CABINET UNIT HEATER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TRANE

UNIT DATA					AIR DATA				WATER DATA			MOTOR DATA				INDICATED COMPONENTS PROVIDED BY DIV 23 DIV 26		REMARKS
TAG	LOCATION	MODEL	TYPE	MBH	CFM	E.A.T. °F	L.A.T. °F	A.P.D. IN. W.G.	E.W.T. °F	L.W.T. °F	GPM	W.P.D. FT. HD.	HP	RPM	VOLTS	PHASE		
CUH1	SEE PLANS	FFHB040	WALL RECESSED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	PROVIDE UNIT MOUNTED THERMOSTAT
CUH2	SEE PLANS	FFB040	WALL MOUNTED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	PROVIDE REMOTE MOUNTED THERMOSTAT
CUH3	SEE PLANS	FFHB040	CEILING RECESSED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	PROVIDE REMOTE MOUNTED THERMOSTAT PROVIDE TRIM FOR CEILING RECESSED MOUNT
CUH4	SEE PLANS	FFEB100	CEILING RECESSED	36	1000	65	95	-	140	110	2.3	10.0	-	-	120	1	A,F	PROVIDE REMOTE MOUNTED THERMOSTAT PROVIDE TRIM FOR CEILING RECESSED MOUNT

CODED NOTES:

A. DISCONNECT SWITCH

B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH

C. CONTROL PANEL

D. LINE VOLTAGE PANEL

E. REDUCED VOLTAGE STARTER

F. TWO SPEED STARTERS

G. VARIABLE FREQUENCY DRIVE

H. EMERGENCY POWER

I. PLUG-IN UNIT

J. THERMOSTAT

K. WALL SWITCH

REGISTER & DIFFUSER SCHEDULE											
UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS NECK SIZES ARE GIVEN ON DRAWINGS.											
TAG	LOCATION	MODEL	FUNCTION	FACE TYPE	FRAME TYPE	LOUVER TYPE	MATERIAL	FINISH	DAMPER	N.C. MAX.	REMARKS
D1	SEE PLANS	OMNI	SA	LOUVERED	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE EQUALIZING GRID
D2	SEE PLANS	OMNI	SA	LOUVERED	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE EQUALIZING GRID
D3	SEE PLANS	TMR	SA	LOUVERED	DUCT MOUNTED	N/A	STEEL	WHITE	IN DUCT	25	-
D4	SEE PLANS	SGP-CF-24" TRI	SA	TRIANGLE SLOT	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	10" DIAMETER CONNECTION COMPATIBLE WITH ARMSTRONGS DESIGNFLEX SHAPES CEILING SYSTEM
LD1	SEE PLANS	ML39	SA	(2) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD2	SEE PLANS	ML39	SA	(2) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD3	SEE PLANS	ML39	SA	(3) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD4	SEE PLANS	ML39	SA	(3) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD5	SEE PLANS	ML39	SA	(4) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD6	SEE PLANS	ML39	SA	(4) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LR1	SEE PLANS	CT-580	RA	-	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	6" NOMINAL DUCT WIDTH 0" DEFLECTION
LR2	SEE PLANS	CT-580	RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	6" NOMINAL DUCT WIDTH 0" DEFLECTION
R1	SEE PLANS	50F	RA/EA	½"x½"x½"	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	
R2	SEE PLANS	50F	RA/EA	½"x½"x½"	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	
R3	SEE PLANS	63FL	HEAVY DUTY RA	-	SURFACE	FIXED	ZERO DEGREE STEEL	WHITE	IN DUCT	25	GYMNASIUM
R4	SEE PLANS	350RL	RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R5	SEE PLANS	300RL	SA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R6	SEE PLANS	R301F	SA/RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R7	SEE PLANS	S-DL	SA	LOUVERED	DUCT MOUNTED	ROTATING DRUM	ALUMINIUM	WHITE	AIR SCOOP	25	GYMNASIUM
R8	SEE PLANS	350RL	RA	-	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	

#	DATE	CHANGE DESCRIPTION
1	04/12/2022	BULLETIN 3 - INTERIOR



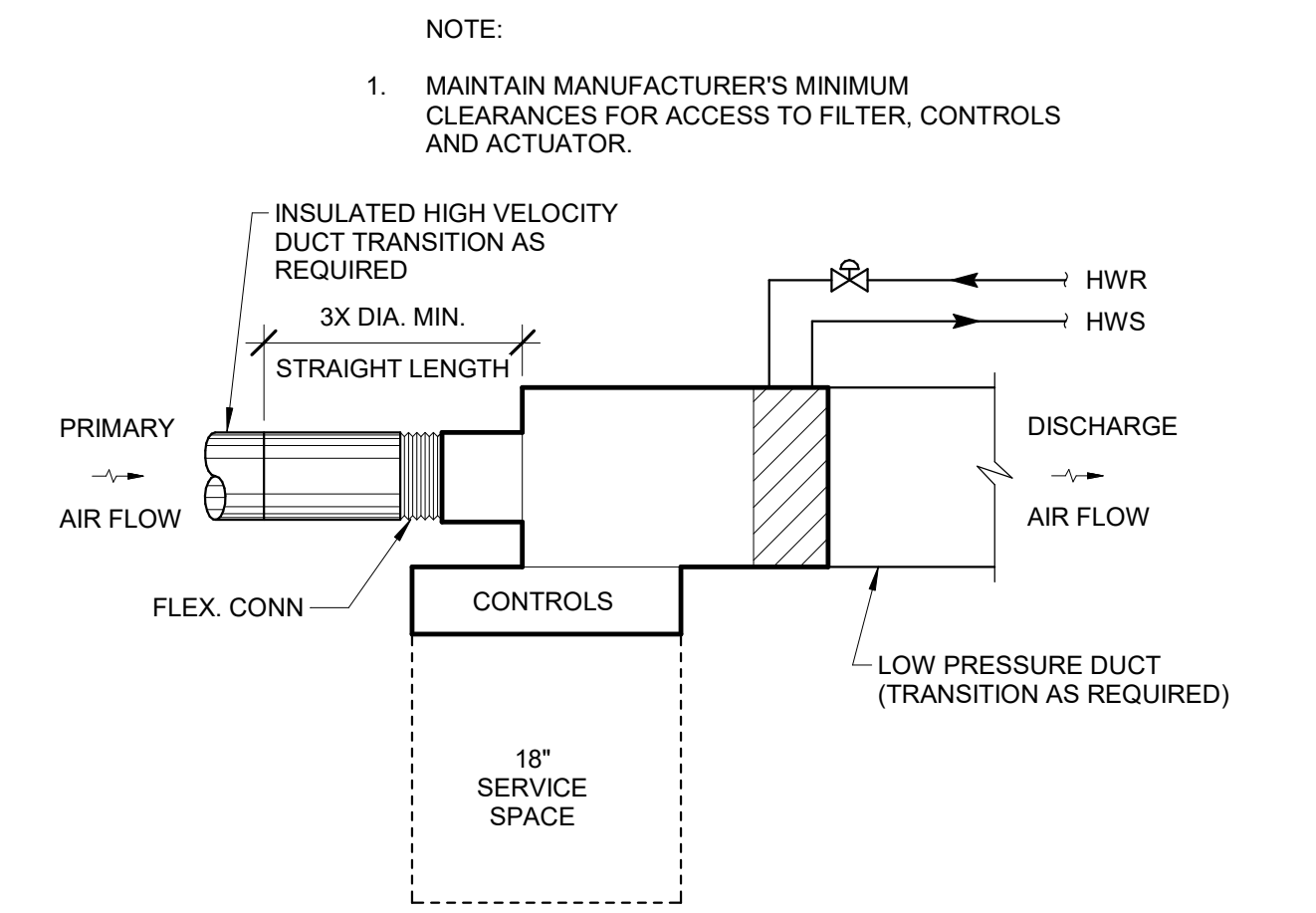
The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners



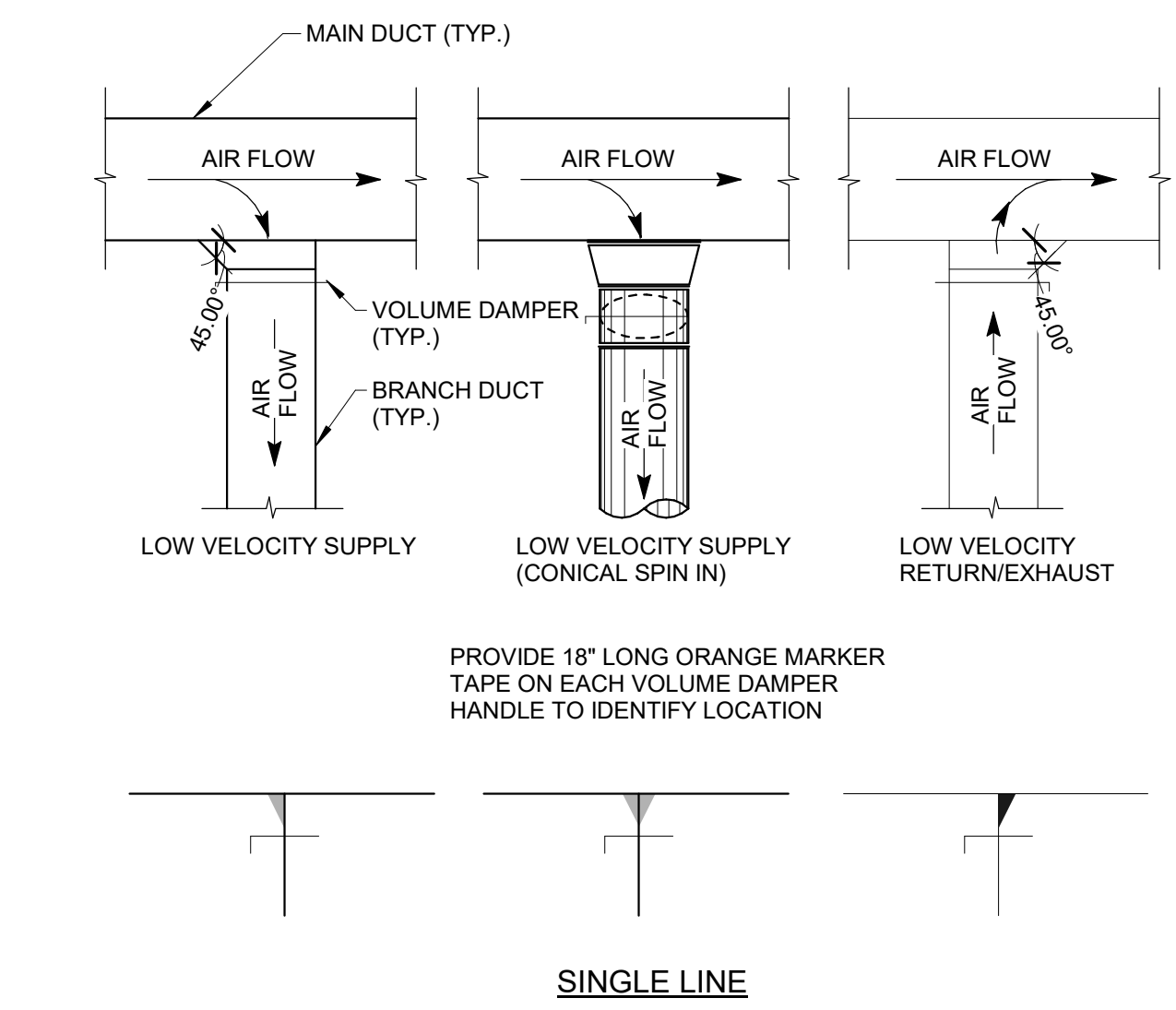
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

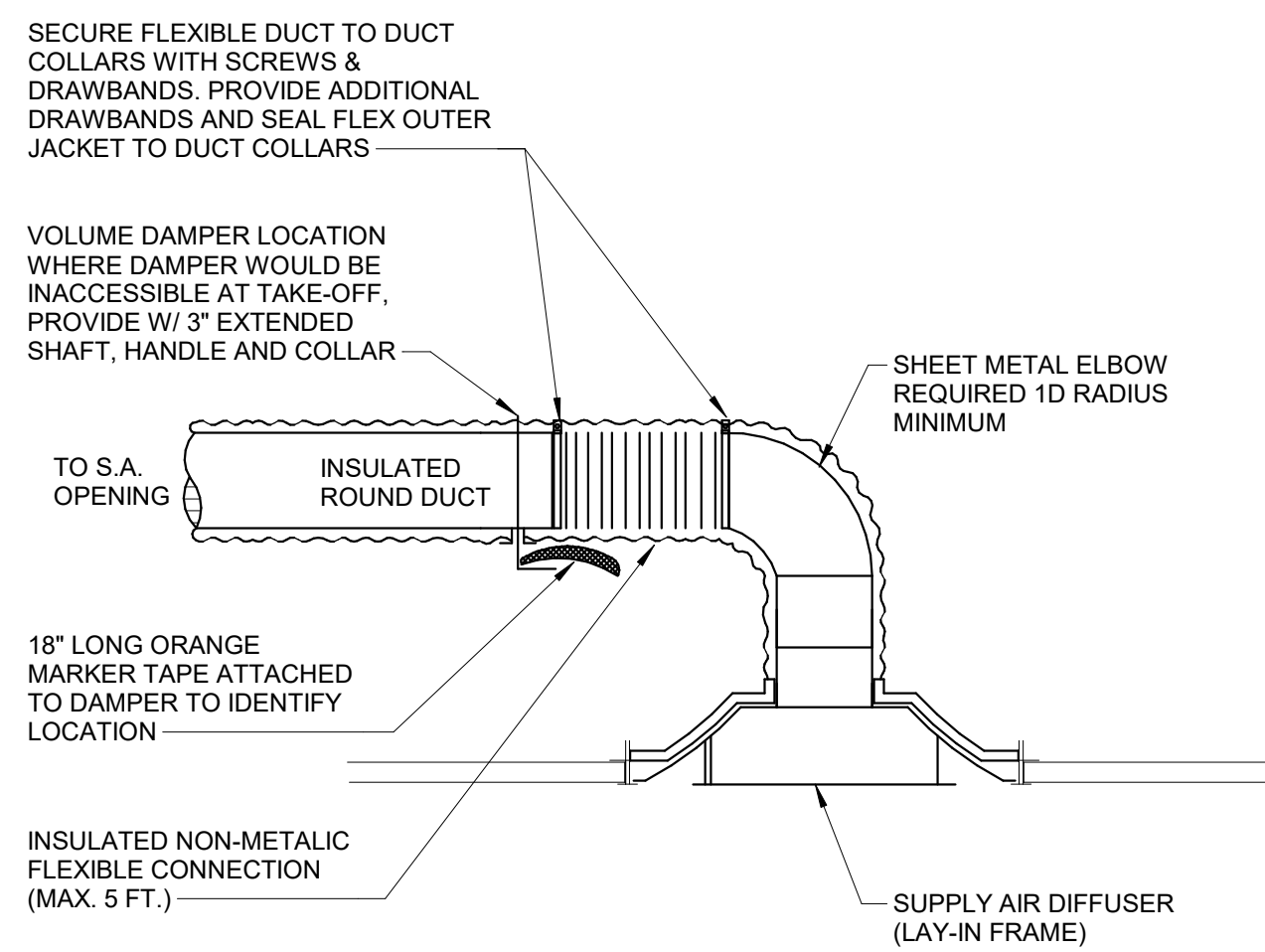
DRAWING TITLE:			
HVAC SCHEDULES			
	10/25/21		
	DRAWN BY: KORDA	CHECKED BY: KORDA	
	Proj. # 18187		
	H502		
	INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		



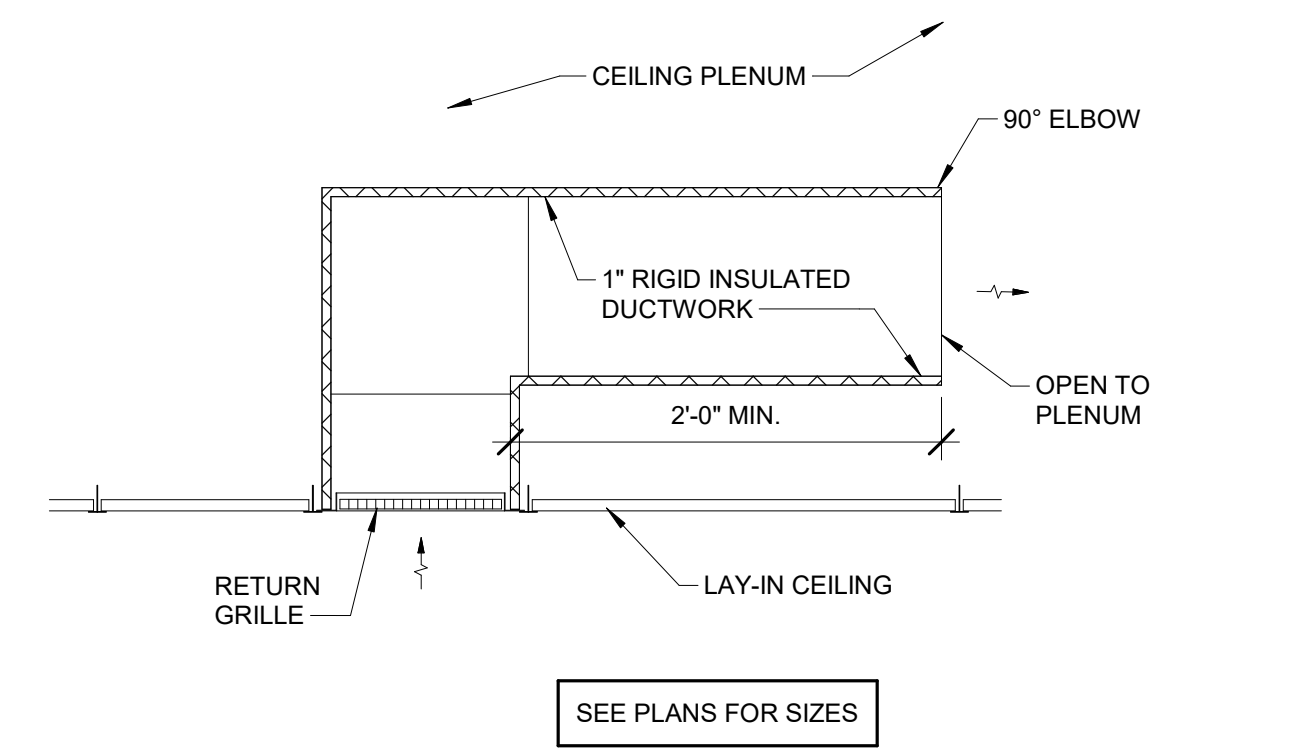
A DETAIL PLAN VIEW
V.A.V. TERMINAL BOX N.T.S.



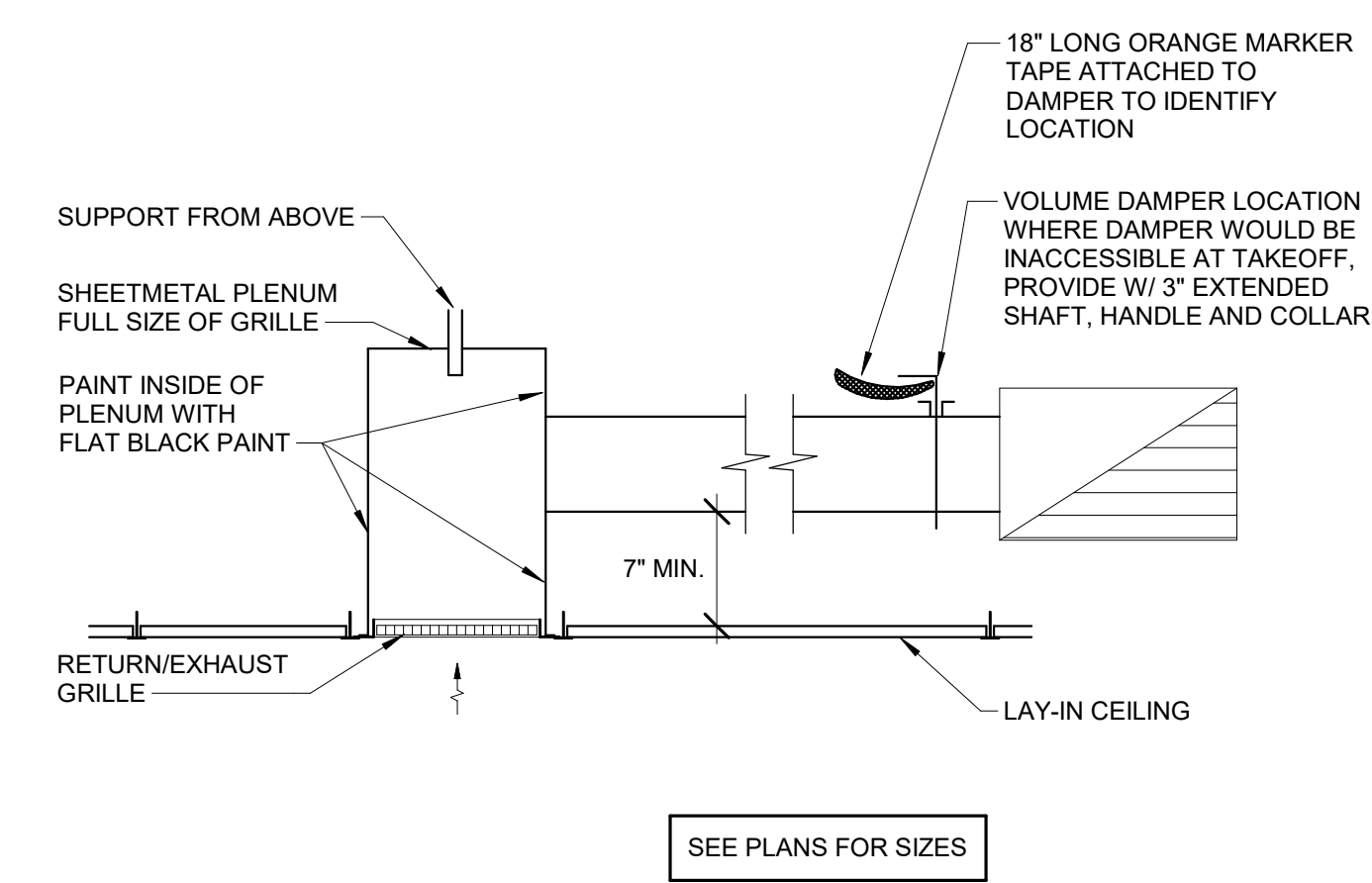
B DETAIL SINGLE LINE
TYPICAL DUCT CONNECTIONS N.T.S.



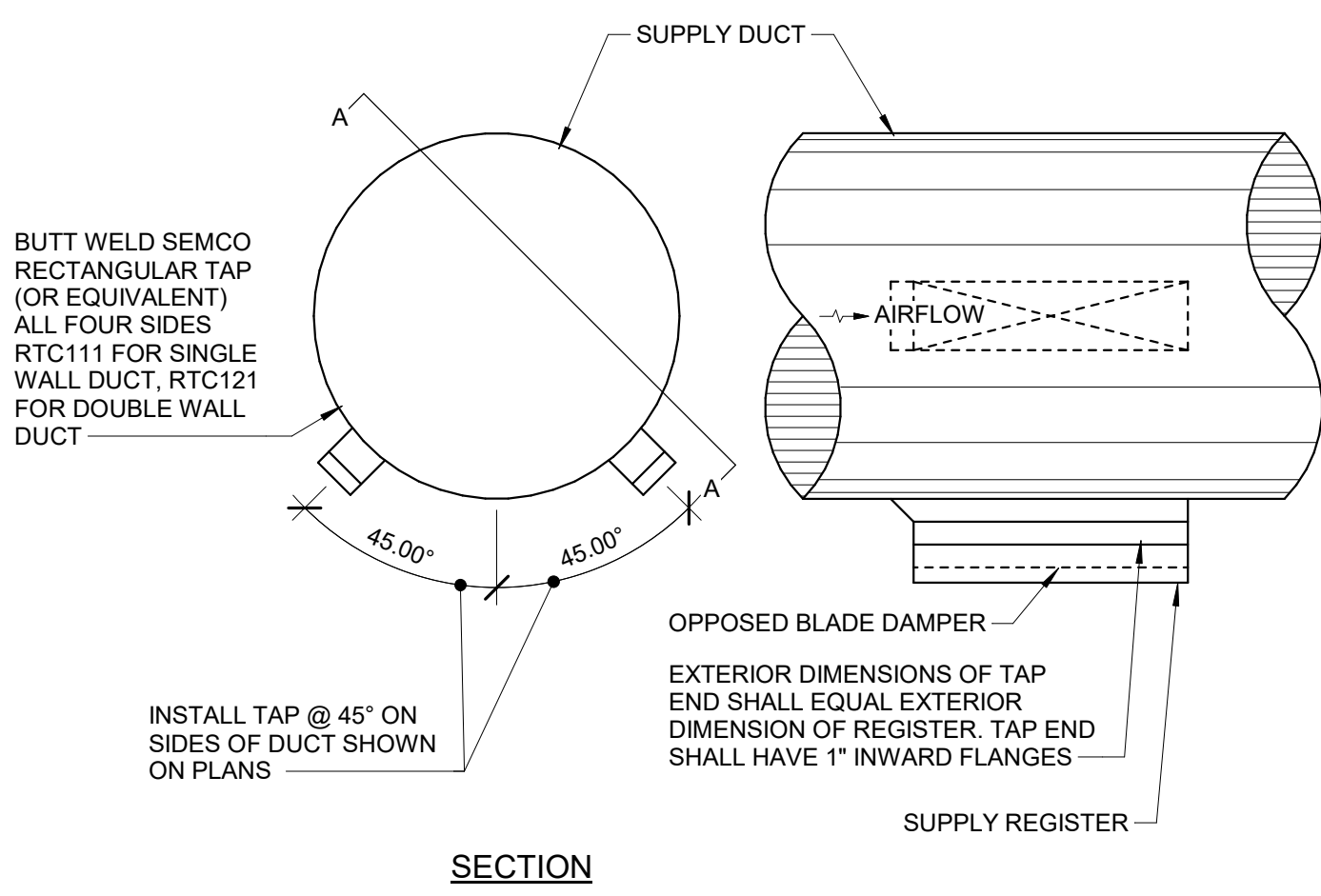
C DETAIL
DIFFUSER MOUNTING (SUPPLY DUCT CLOSE TO CEILING) N.T.S.



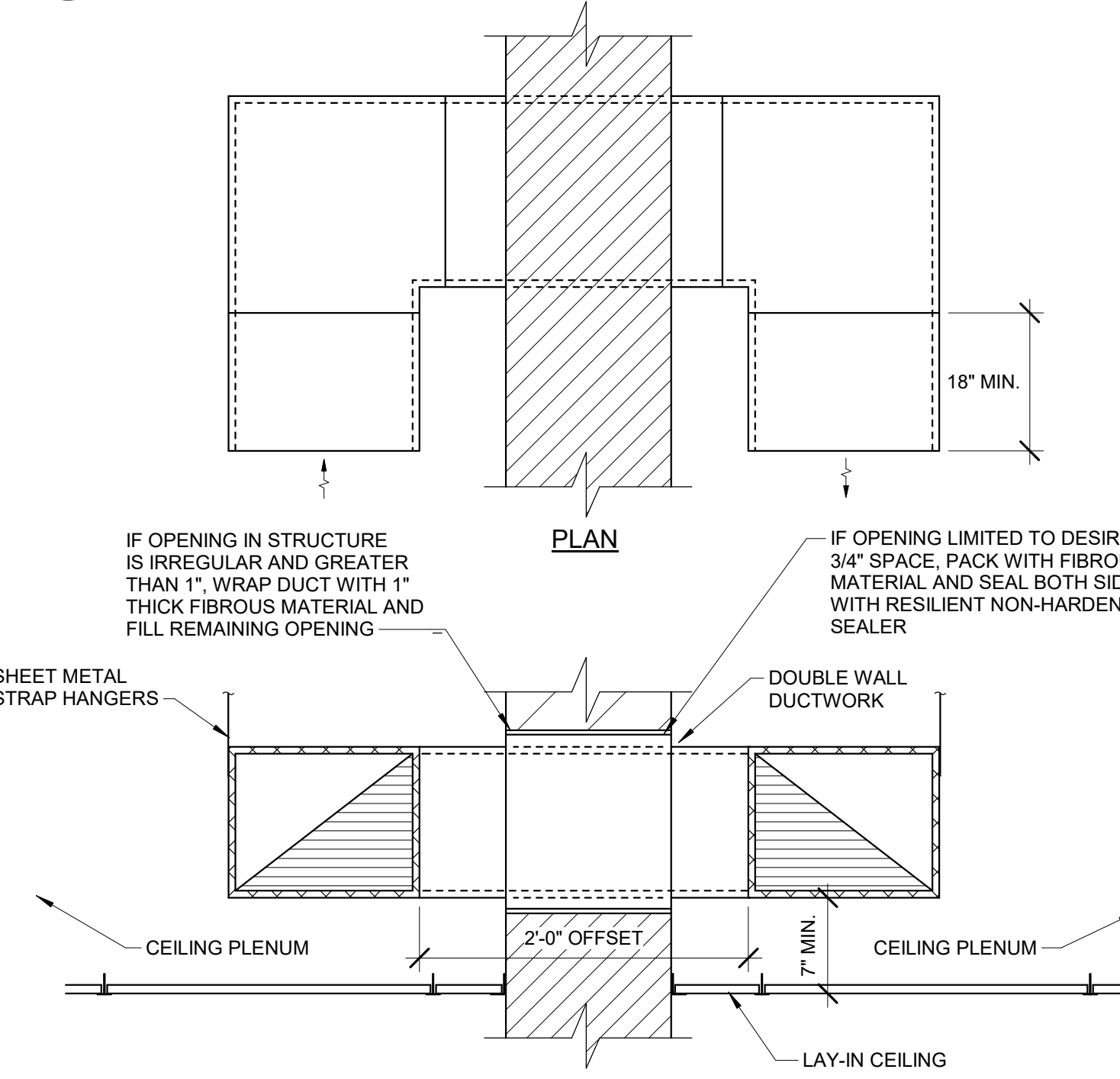
D DETAIL
PLENUM RETURN GRILLE CONNECTION. TYPICAL N.T.S.



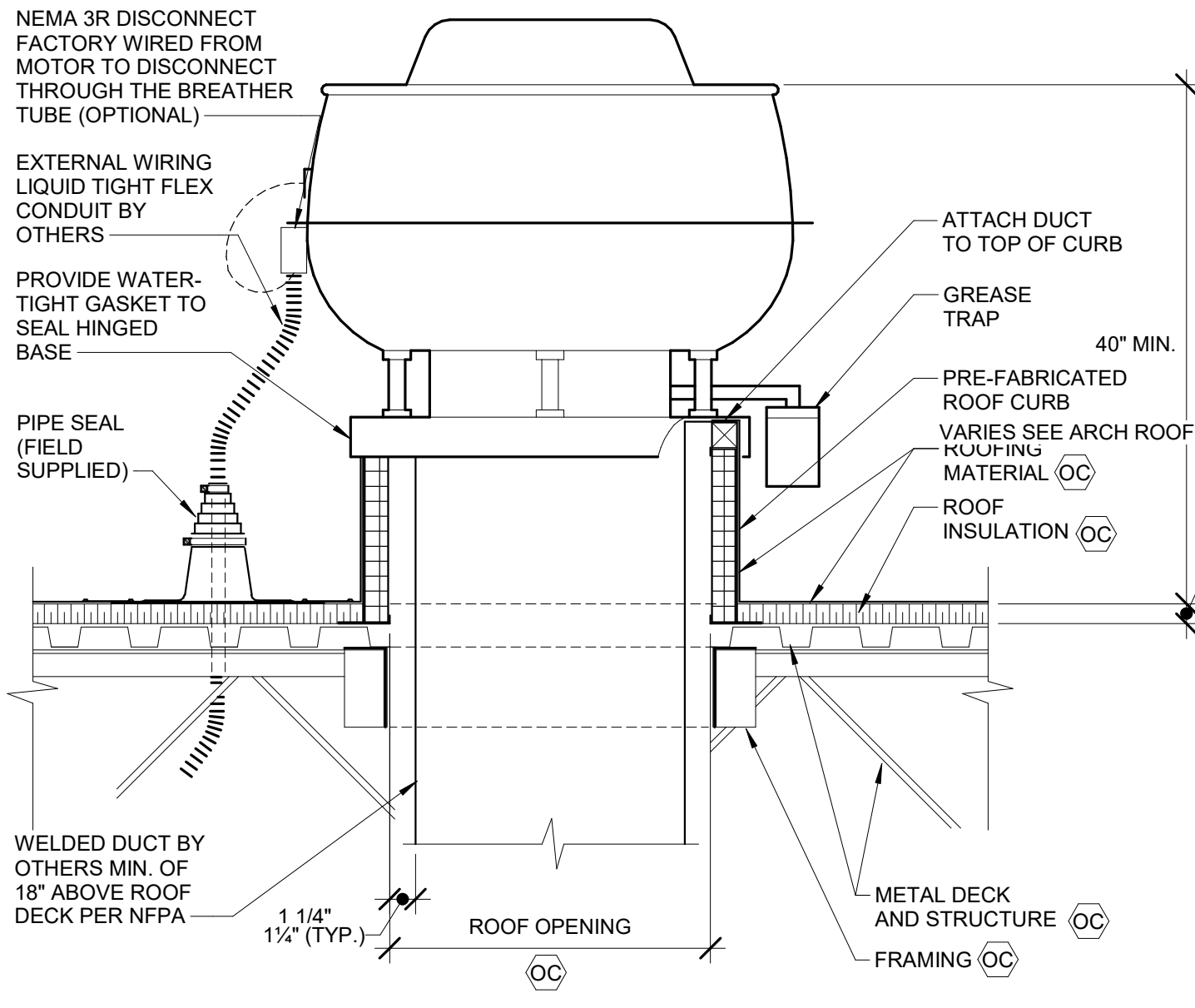
E DETAIL
TYP. FOR ALL RETURN AND EXHAUST CONNECTIONS N.T.S.



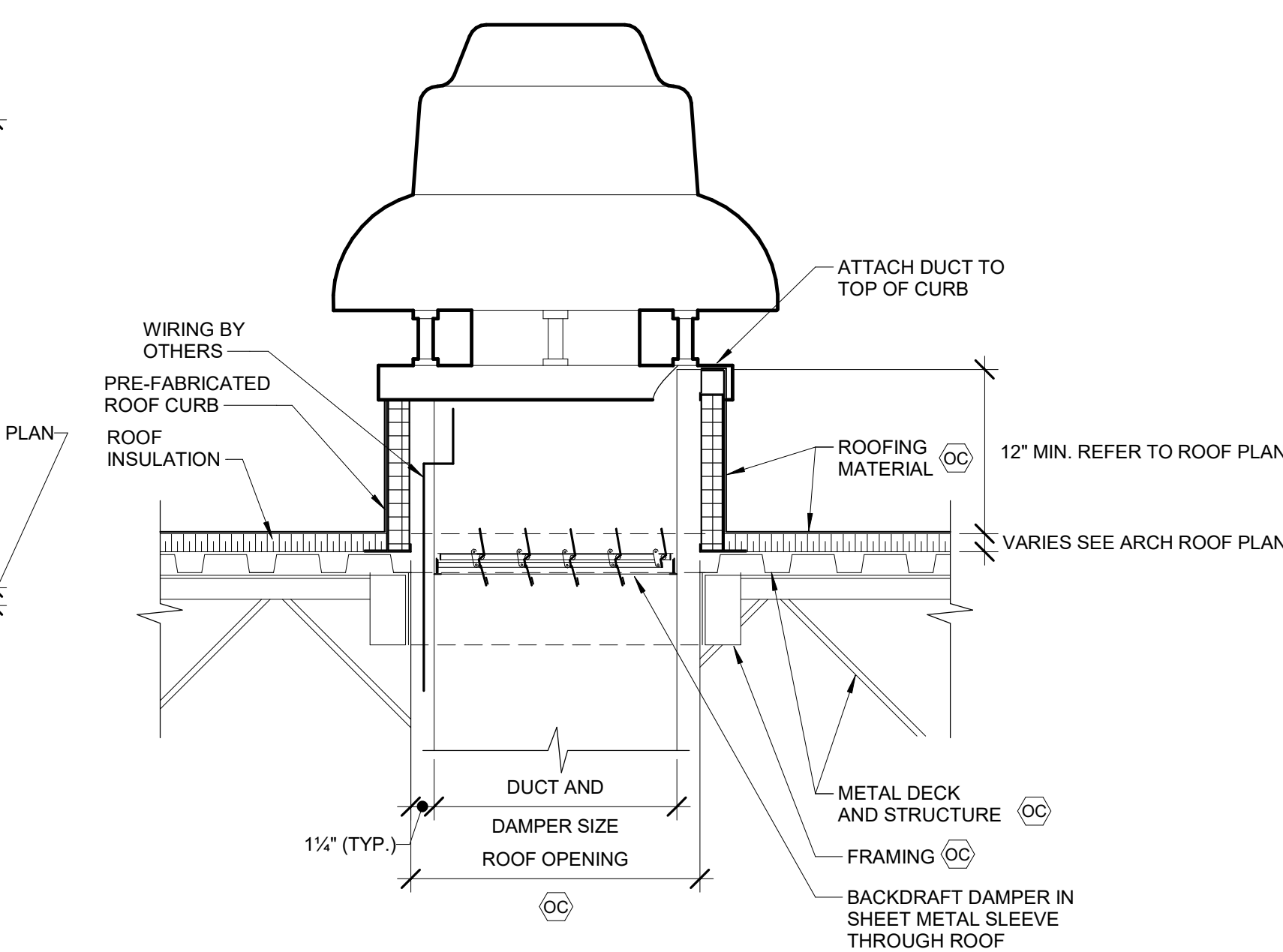
F DETAIL
DUCT MOUNTED DIFFUSER N.T.S.



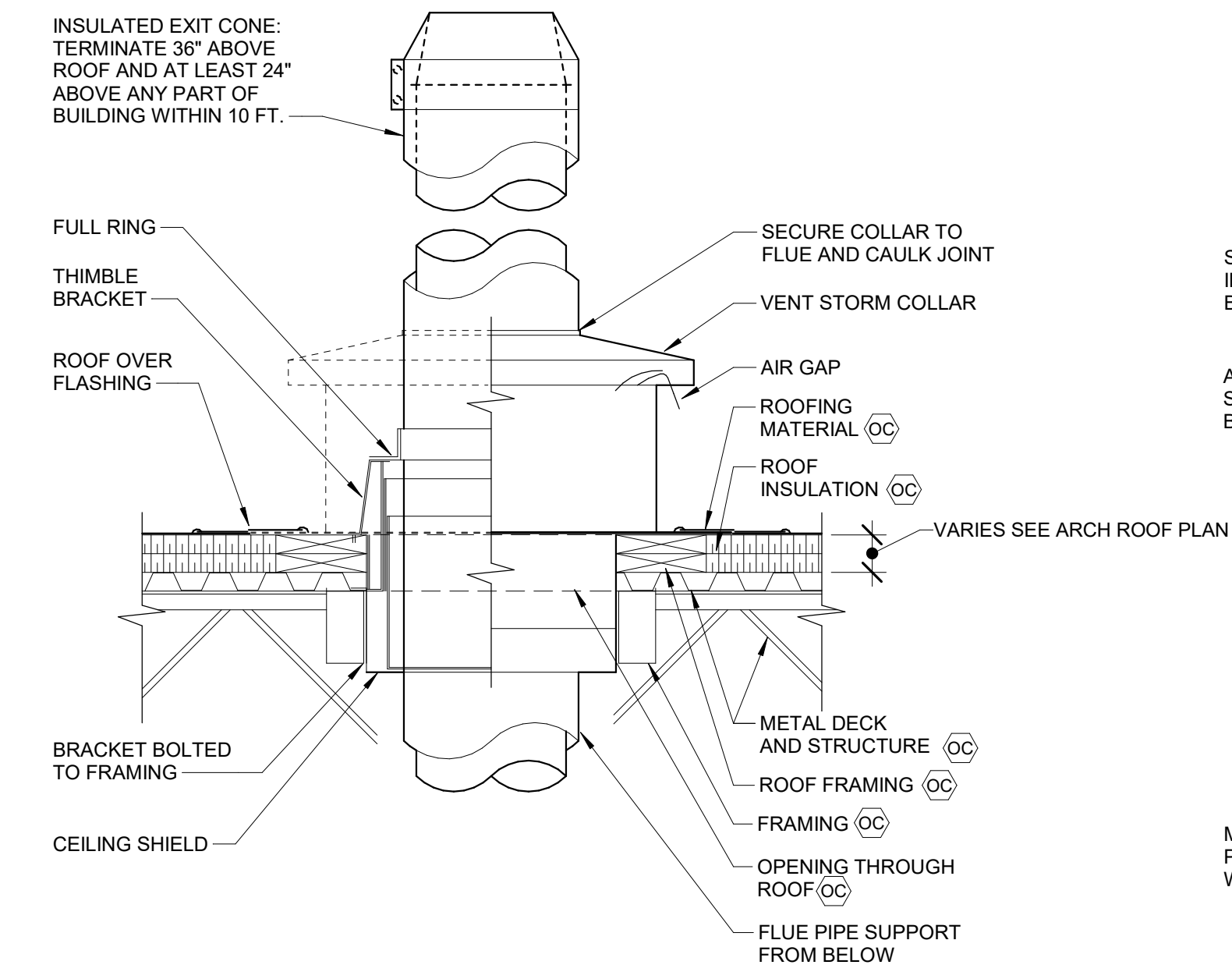
G DETAIL
ACOUSTICAL TRANSFER DUCT THROUGH WALL N.T.S.



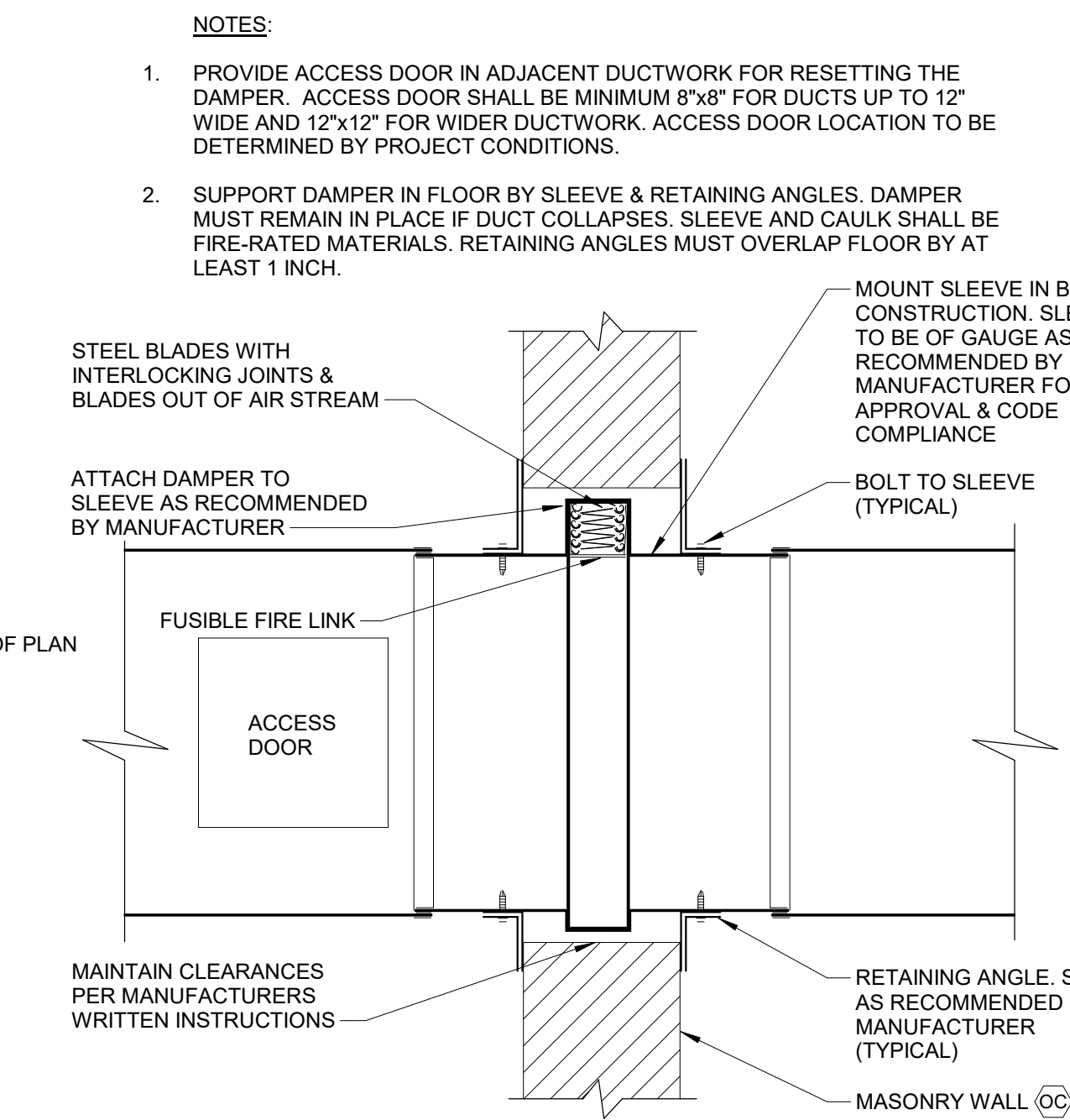
H DETAIL
ROOF MOUNTED EXHAUST FAN (GREASE) (KITCHEN HOOD EXHAUST) N.T.S.



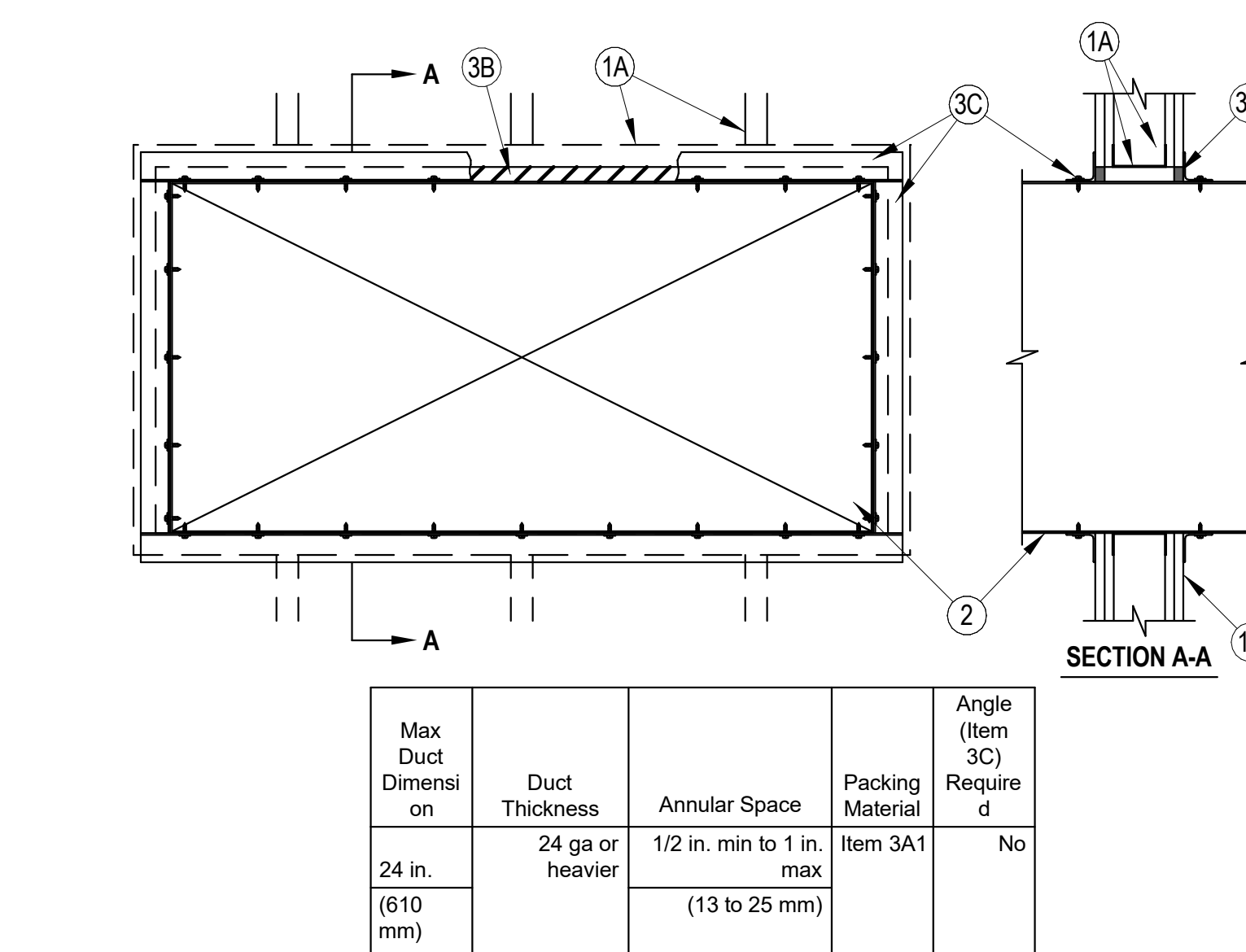
J DETAIL
ROOF MOUNTED EXHAUST FAN N.T.S.



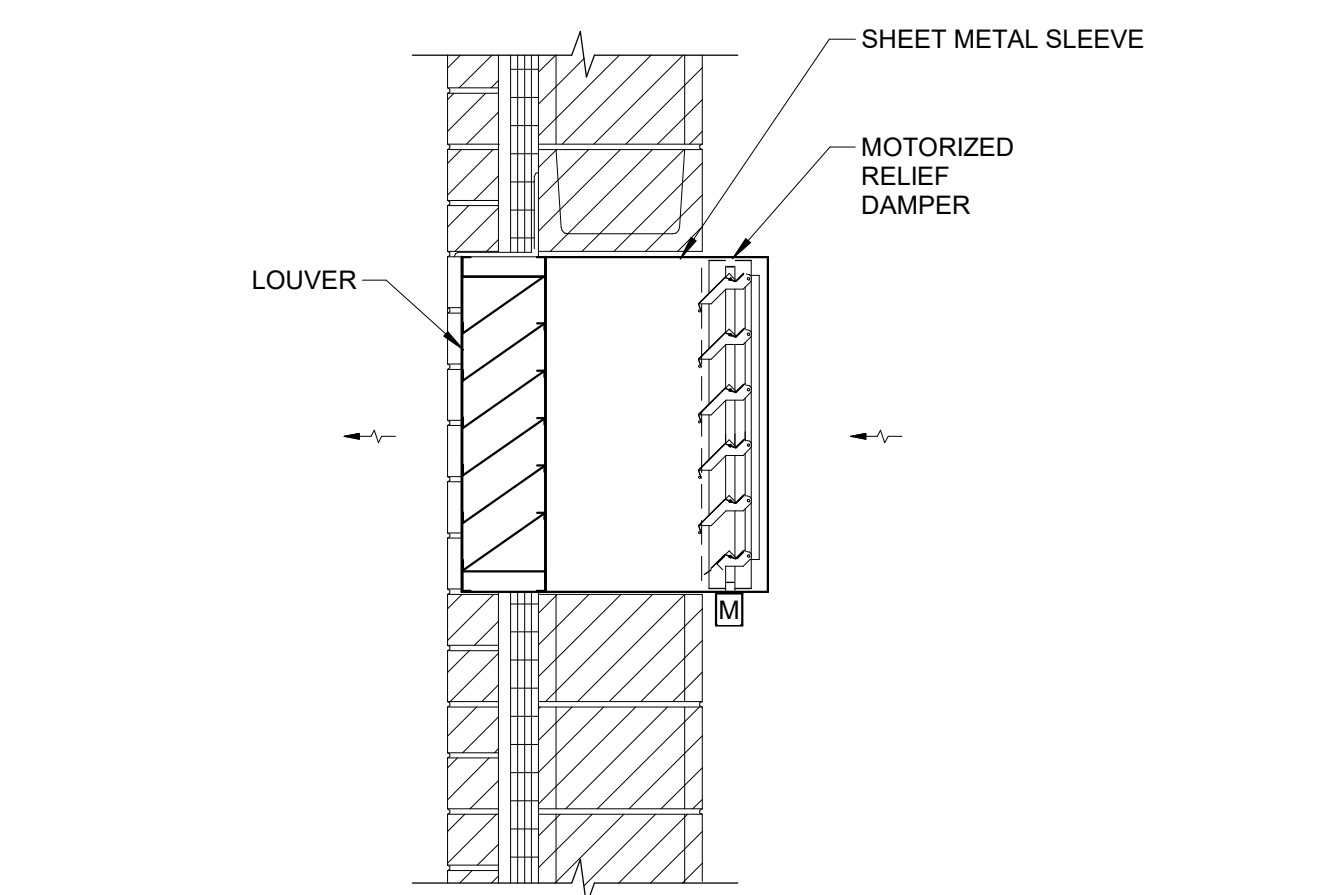
K DETAIL
BOILER FLUE ROOF PENETRATION N.T.S.



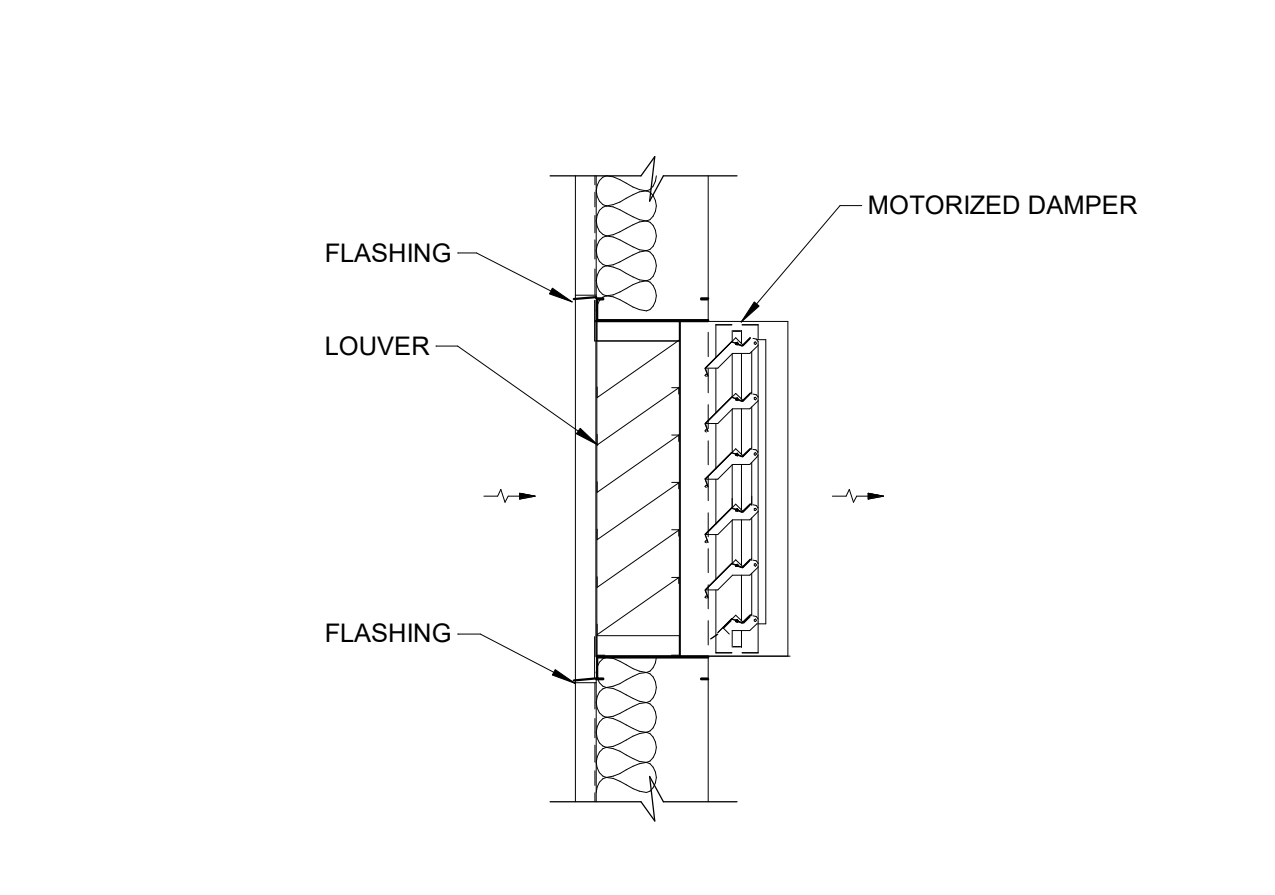
L DETAIL
FIRE DAMPER INSTALLATION (STYLE C) N.T.S.



M DETAIL
UL PENETRATION N.T.S.



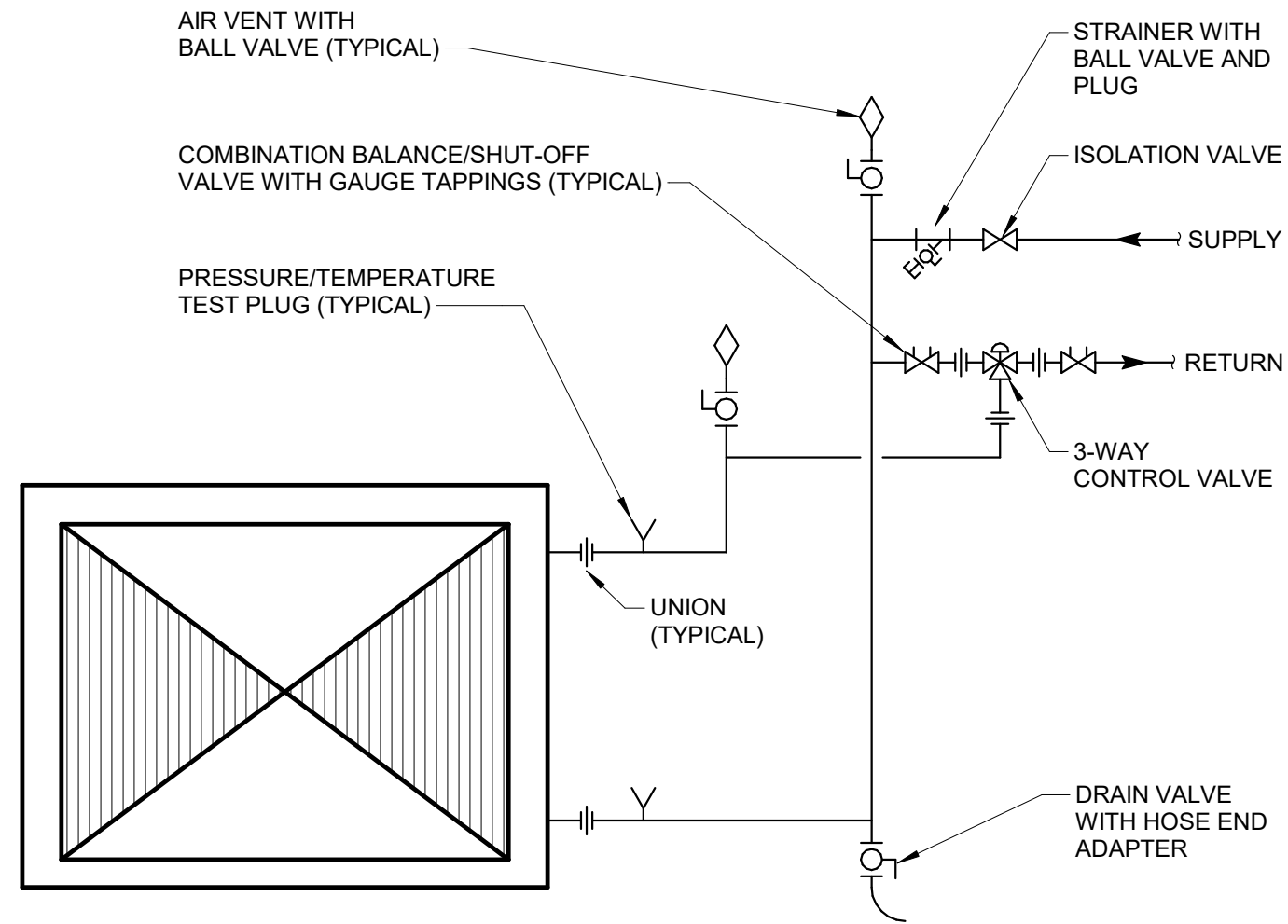
N DETAIL
RELIEF LOUVER N.T.S.



P DETAIL
AIR INTAKE LOUVER N.T.S.

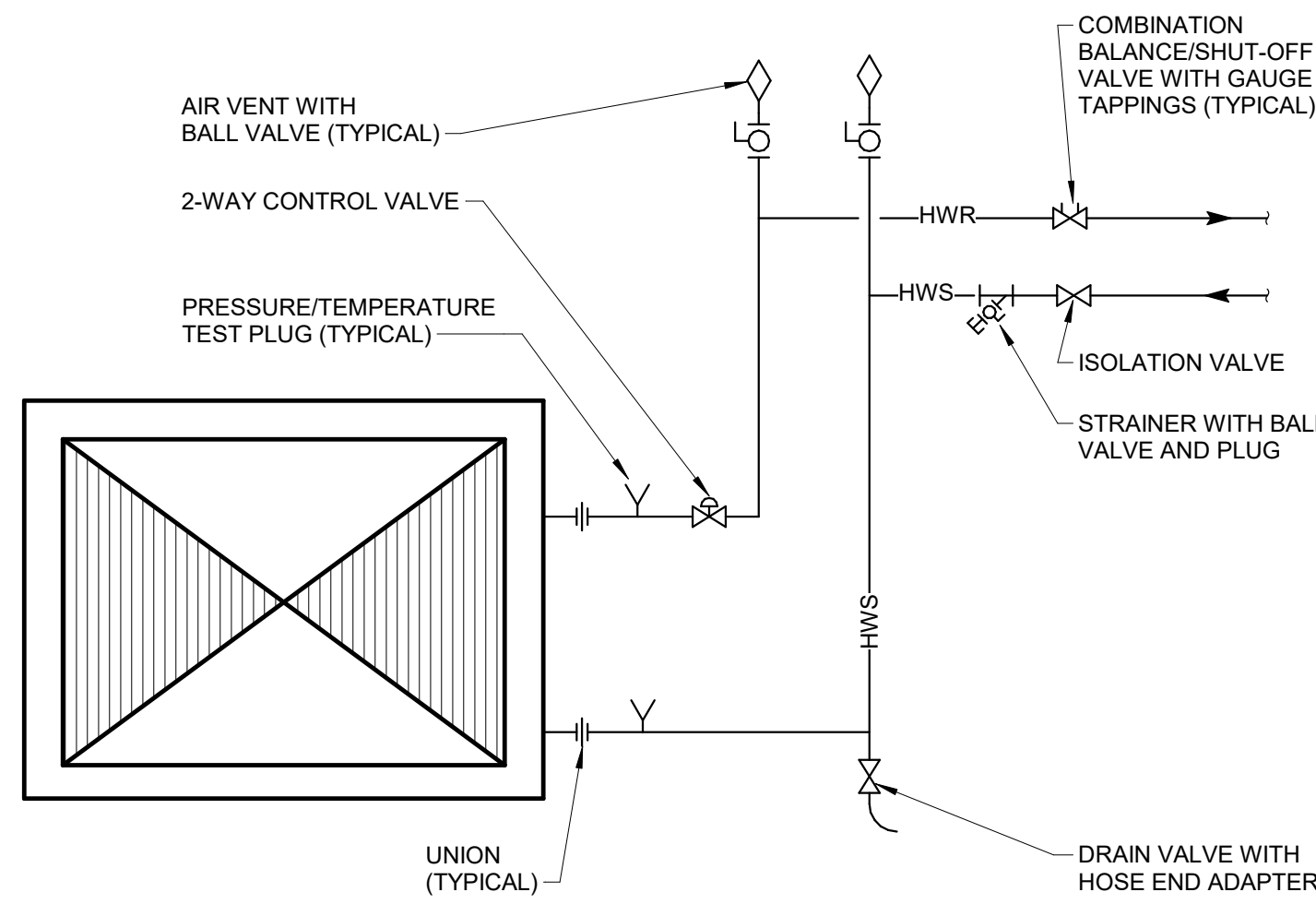
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.
B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m²) with a max dimension of 104 in. (2.64 m).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Duct — Max 100 in. by 100 in. (2.5 by 2.5 m) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.
3. Firestop System — The firestop system shall consist of the following:
A. Packing Material — (Optional, Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
A1. Packing Material — Required as specified in Table below. Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (84 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct and the gypsum board.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or CP606 Flexible Firestop Sealant.
C. Steel Retaining Angles — Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in² (8387 cm²), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

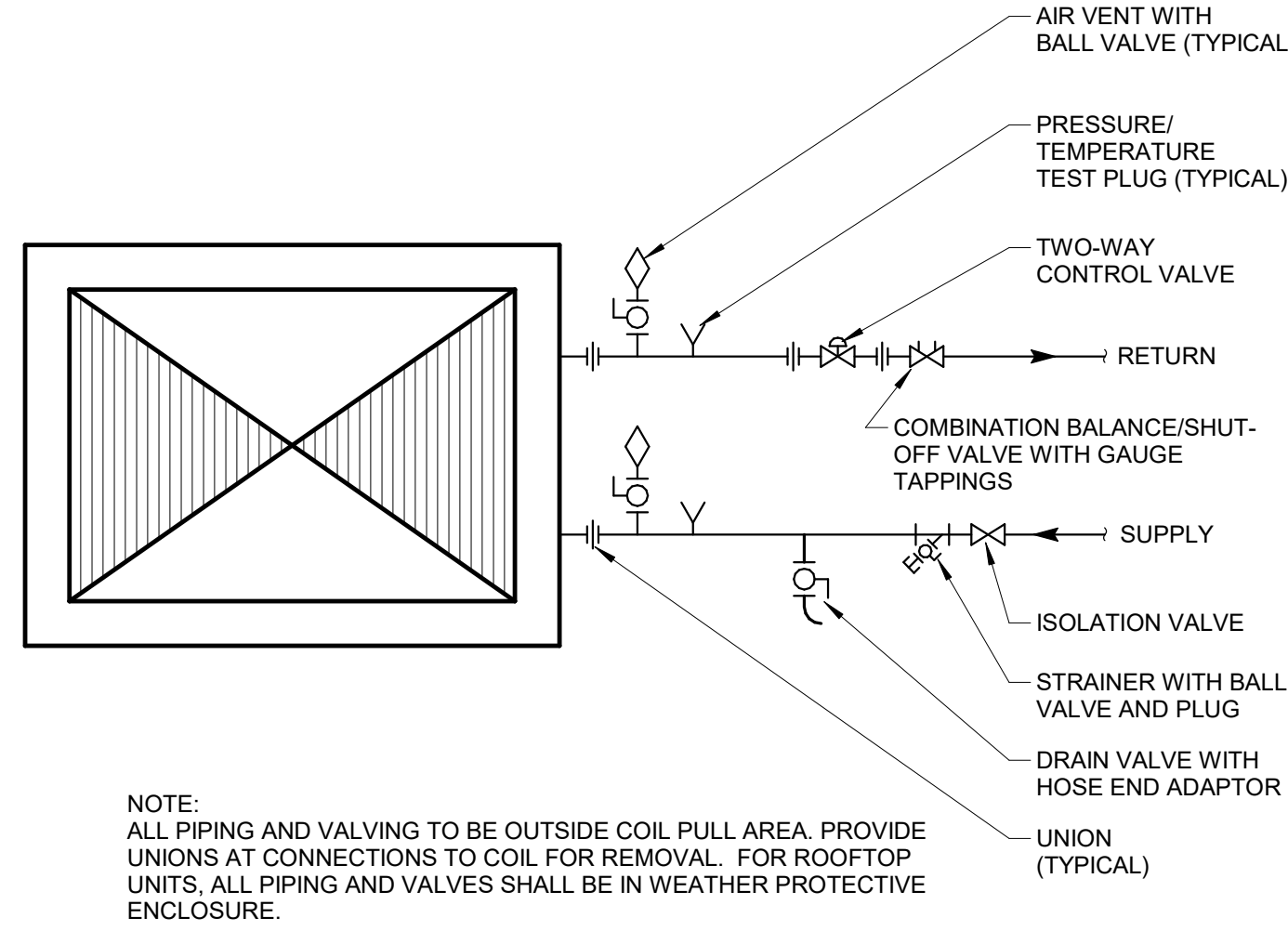


NOTE:
ALL PIPING AND VALVING TO BE OUTSIDE COIL PULL AREA. PROVIDE UNIONS AT CONNECTIONS TO COIL FOR REMOVAL. FOR ROOFTOP UNITS, ALL PIPING AND VALVES SHALL BE IN WEATHER PROTECTIVE ENCLOSURE.

A DETAIL
TERMINAL UNIT COIL PIPING (3-WAY VALVE) N.T.S.

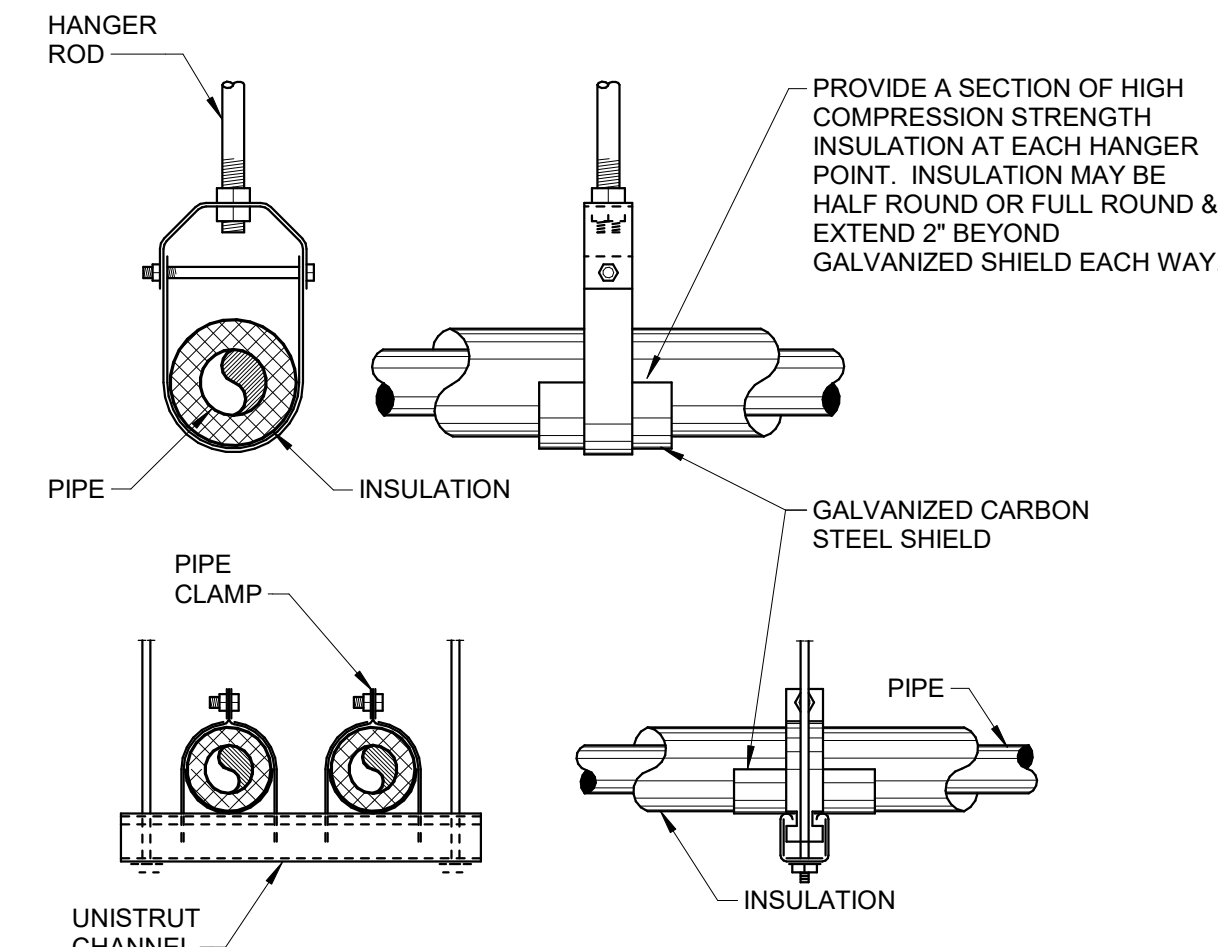


B DETAIL
UNIT HEATER & CABINET UNIT HEATER PIPING N.T.S.

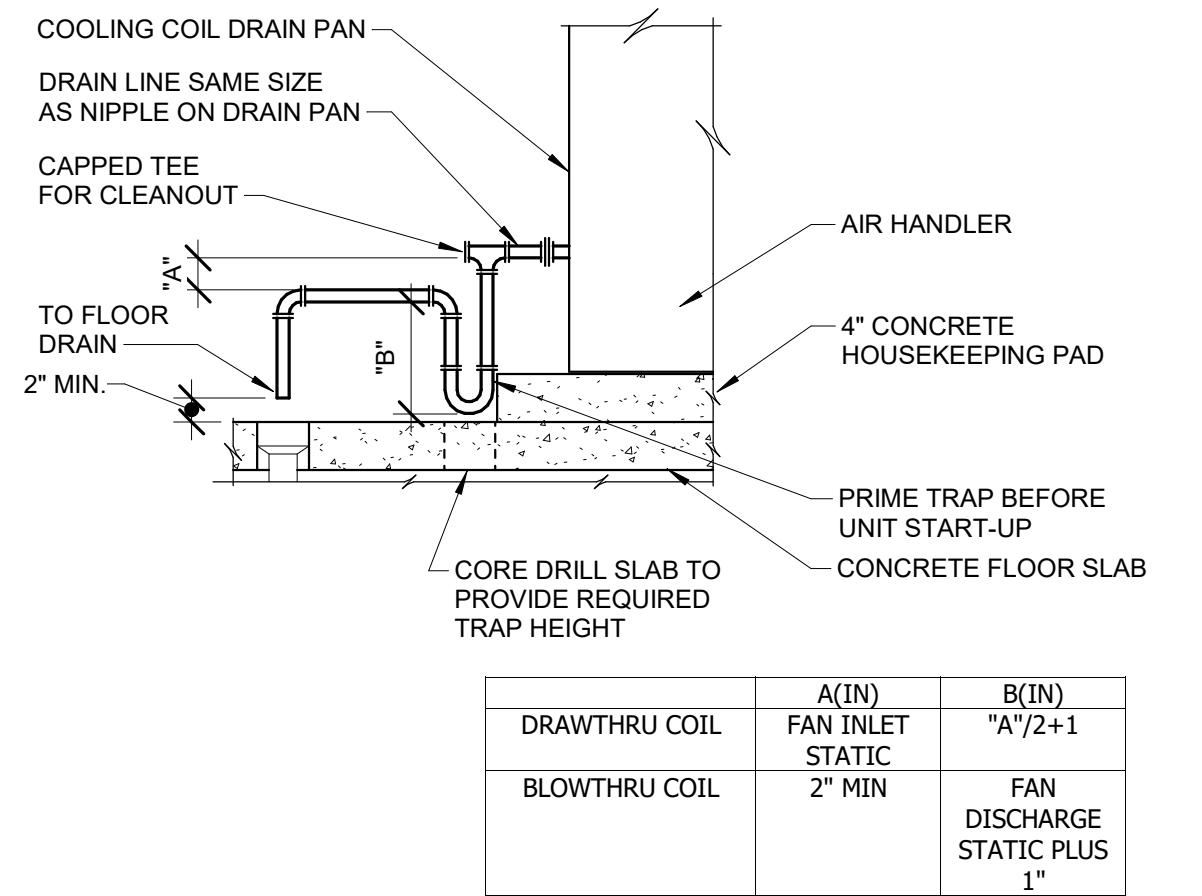


NOTE:
ALL PIPING AND VALVING TO BE OUTSIDE COIL PULL AREA. PROVIDE UNIONS AT CONNECTIONS TO COIL FOR REMOVAL. FOR ROOFTOP UNITS, ALL PIPING AND VALVES SHALL BE IN WEATHER PROTECTIVE ENCLOSURE.

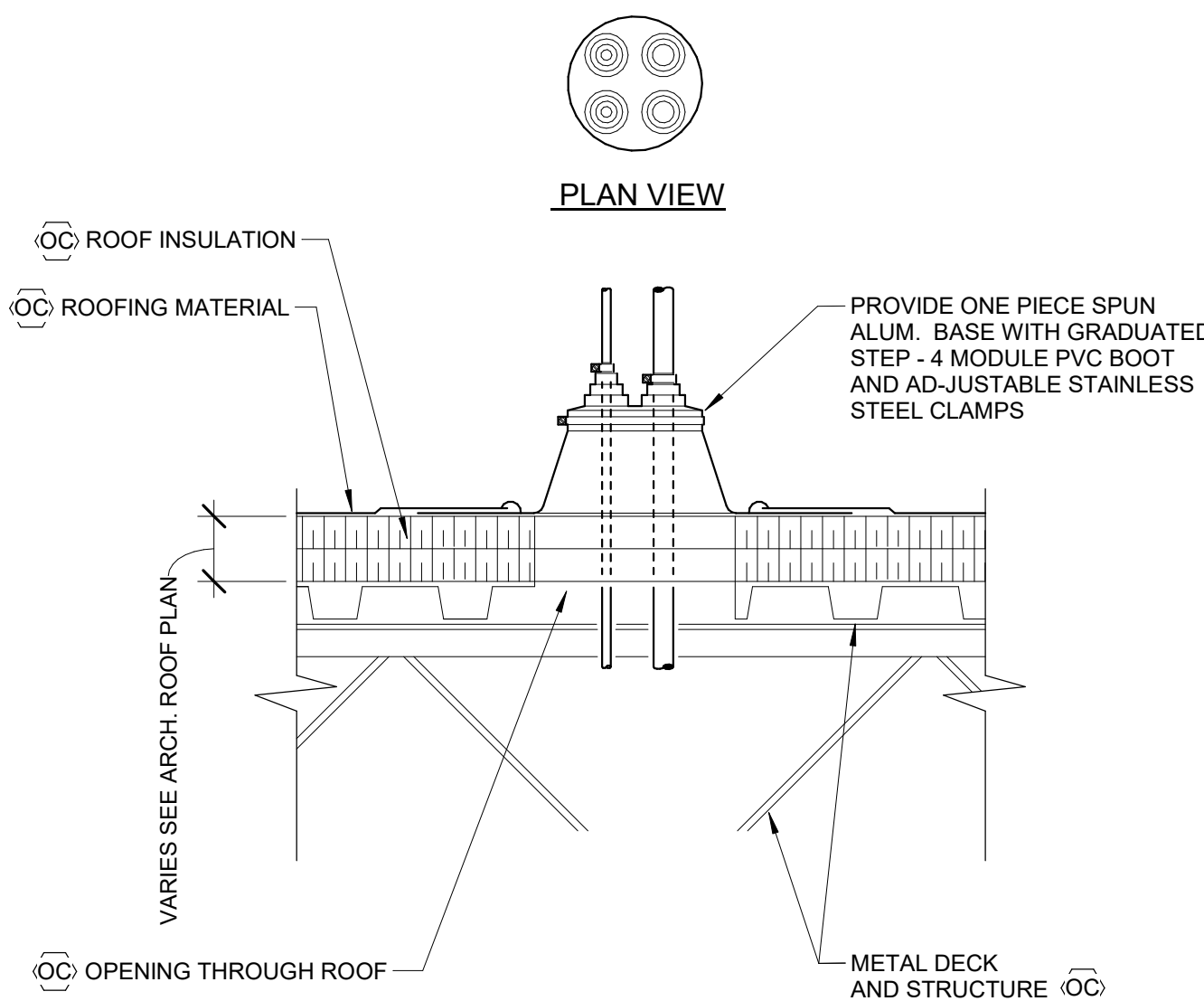
C DETAIL
TERMINAL UNIT COIL PIPING (2-WAY VALVE) N.T.S.



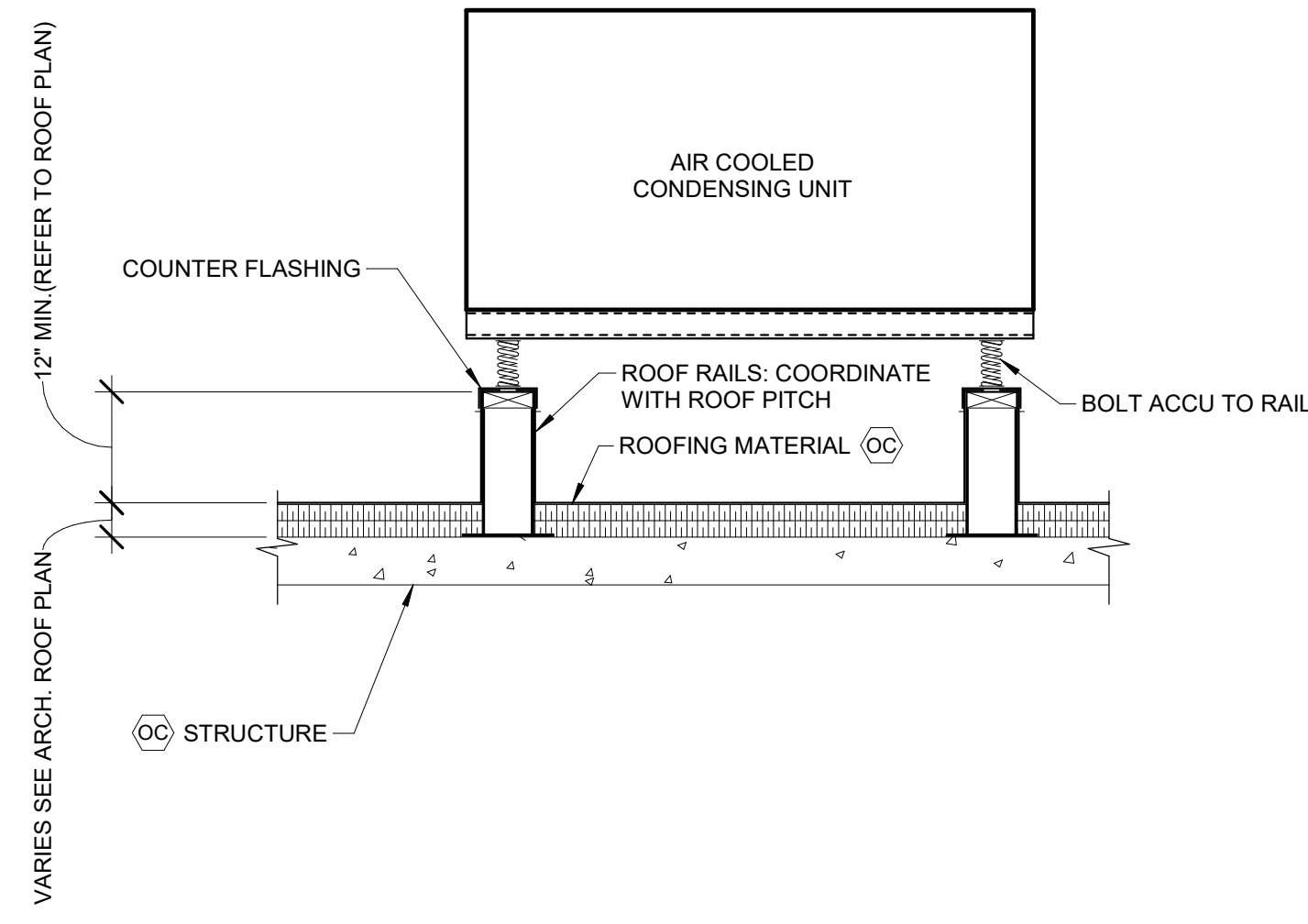
D DETAIL
TYPICAL PIPE HANGER N.T.S.



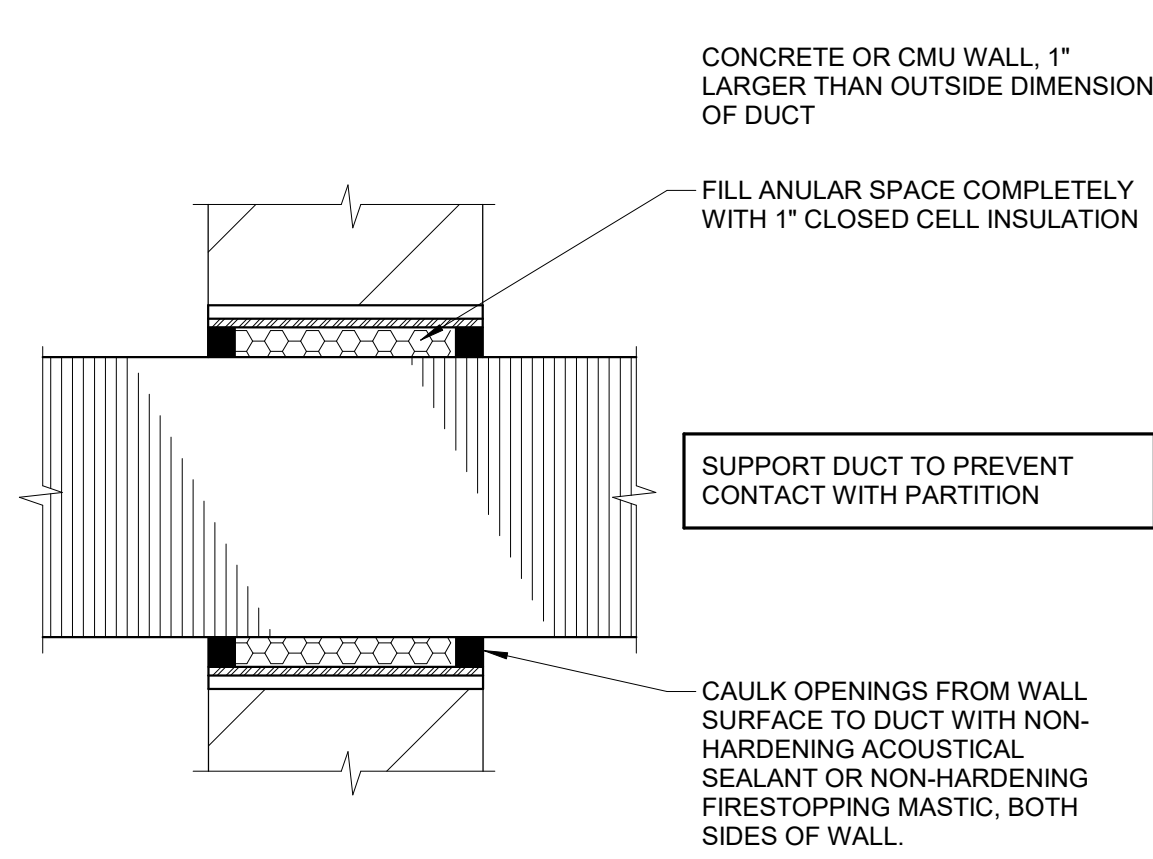
E DETAIL
CONDENSATION DRAIN TRAP PIPING N.T.S.



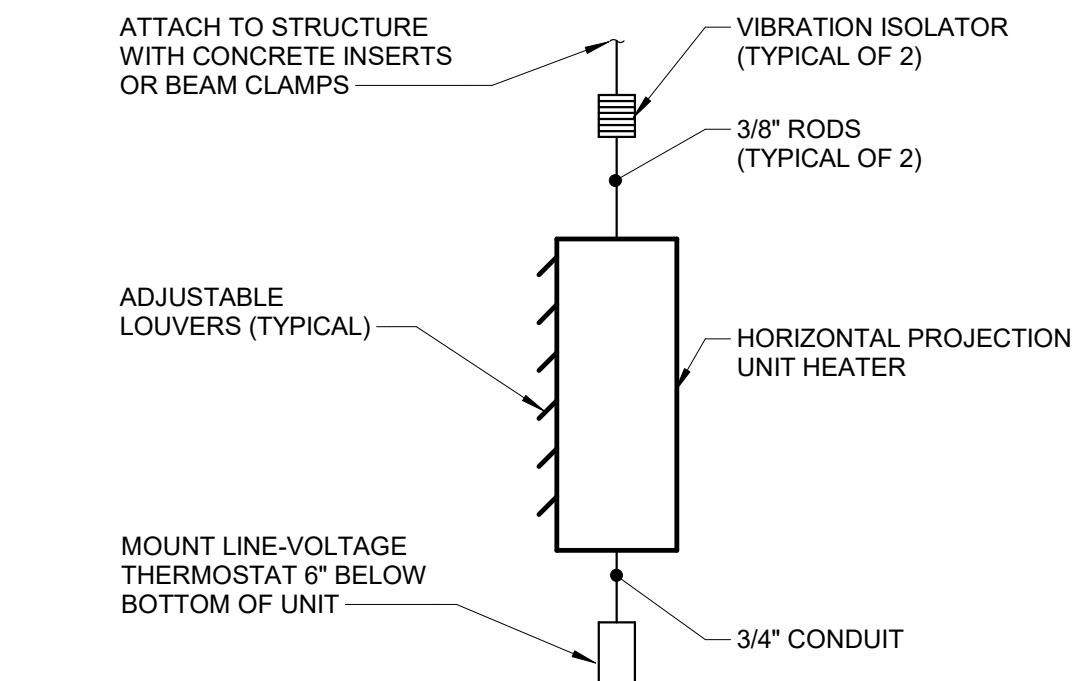
F DETAIL
PIPE SEAL THROUGH ROOF N.T.S.



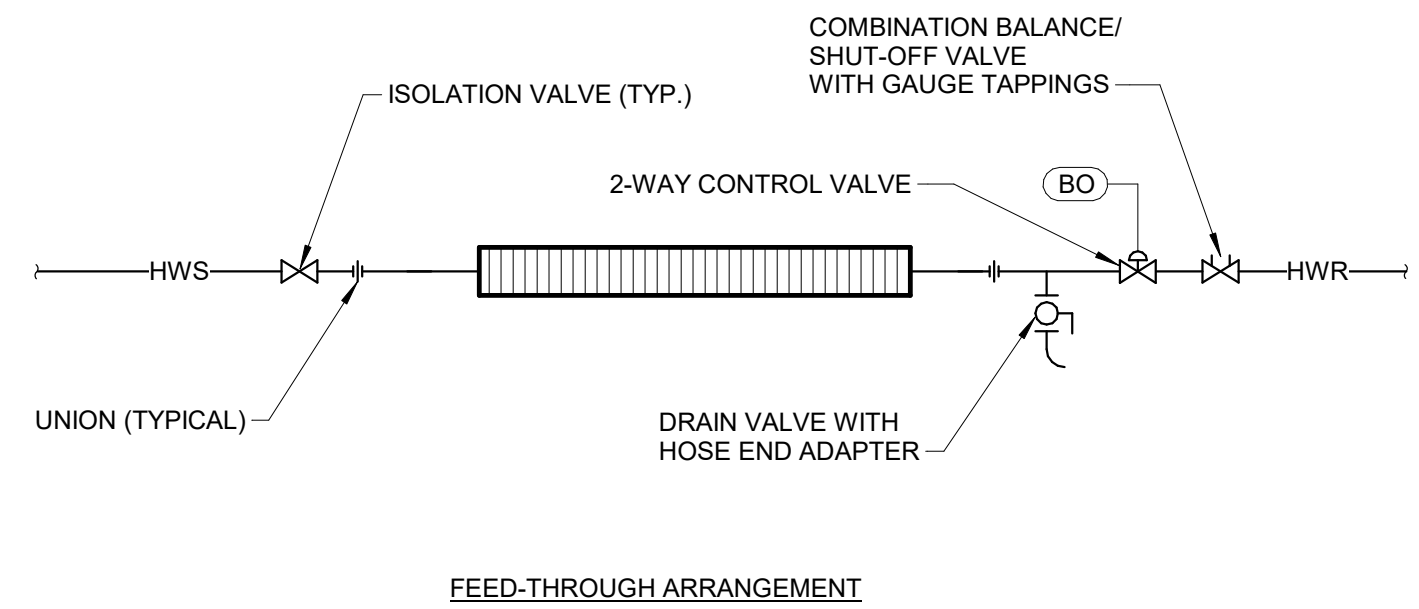
G DETAIL
ROOF RAILS N.T.S.



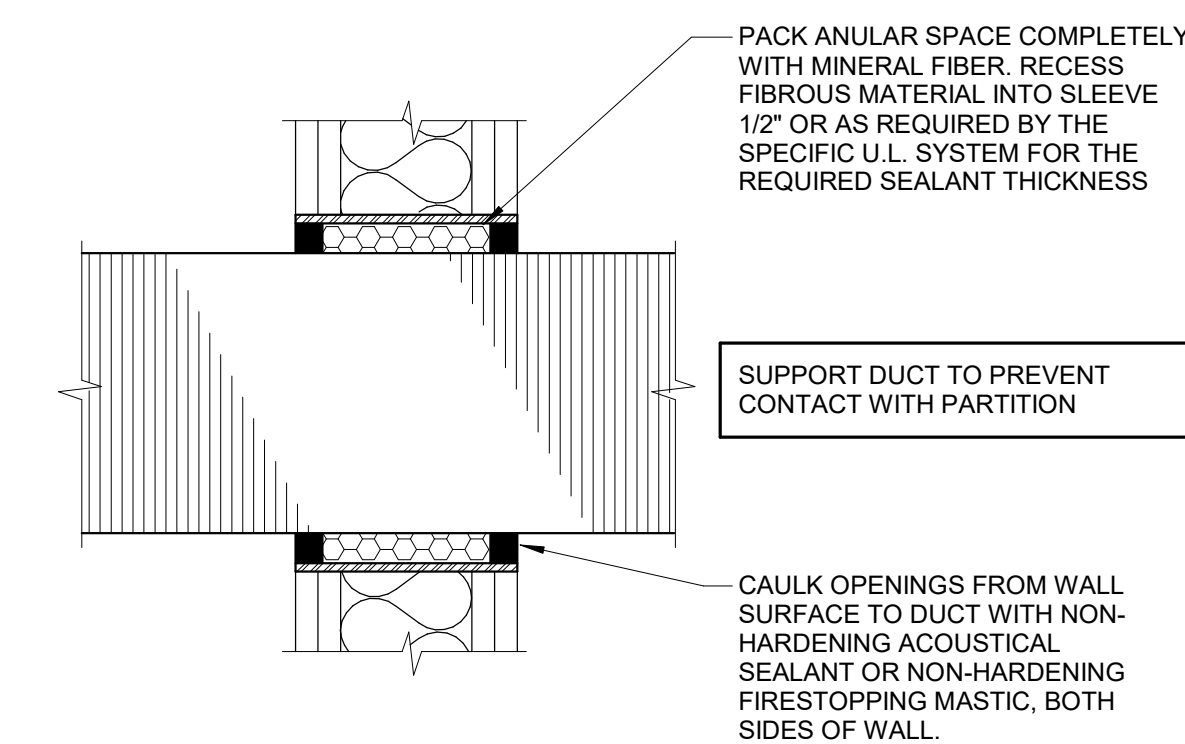
H DETAIL
ACOUSTICAL PENETRATIONS IN CMU PARTITION N.T.S.



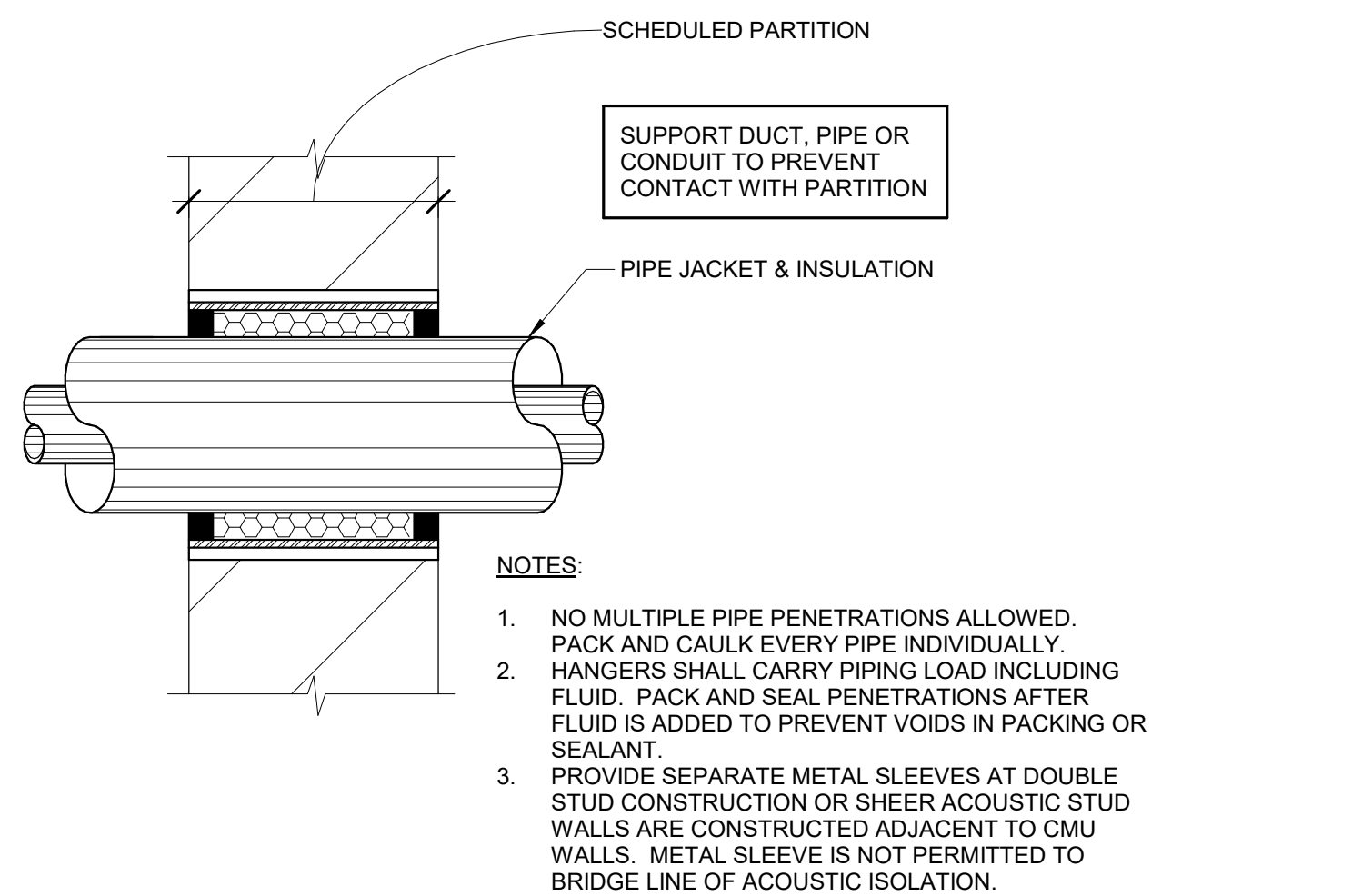
J DETAIL
UNIT HEATER MOUNTING N.T.S.



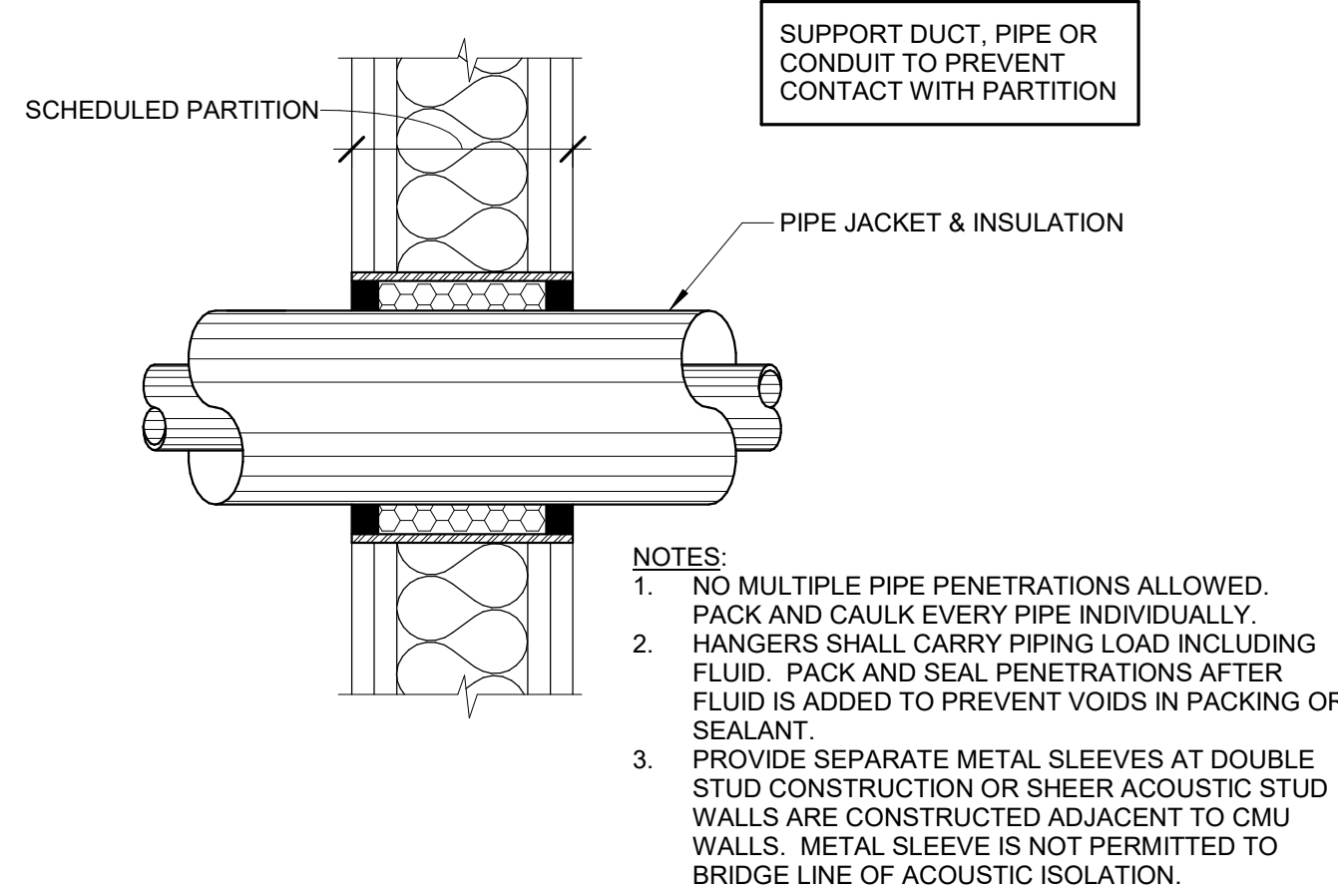
K DETAIL
FINNED RADIATION PIPING N.T.S.



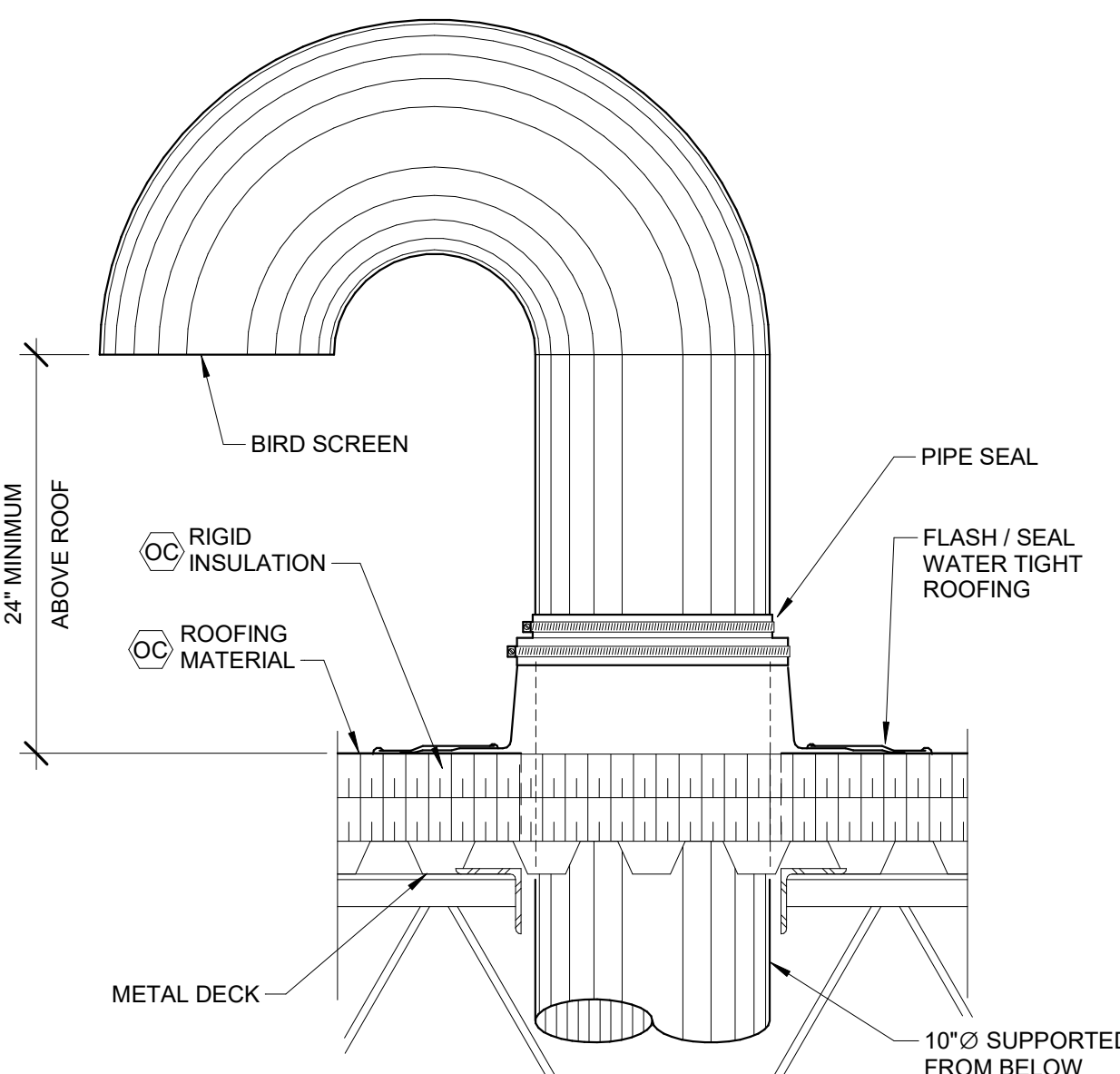
L DETAIL
ACOUSTICAL PENETRATION IN GWB PARTITION N.T.S.



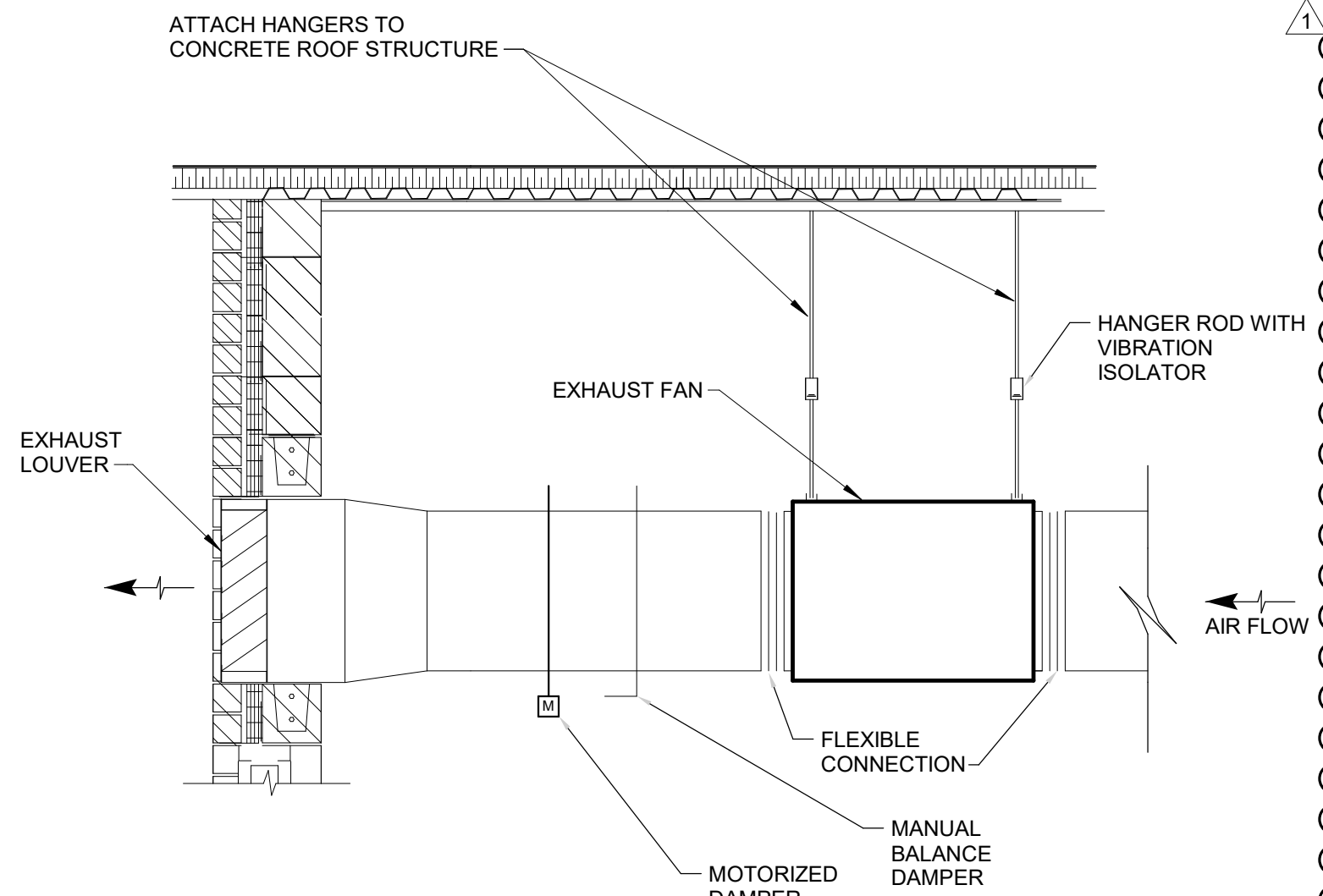
M DETAIL
ACOUSTICAL PENETRATION IN CMU PARTITION N.T.S.



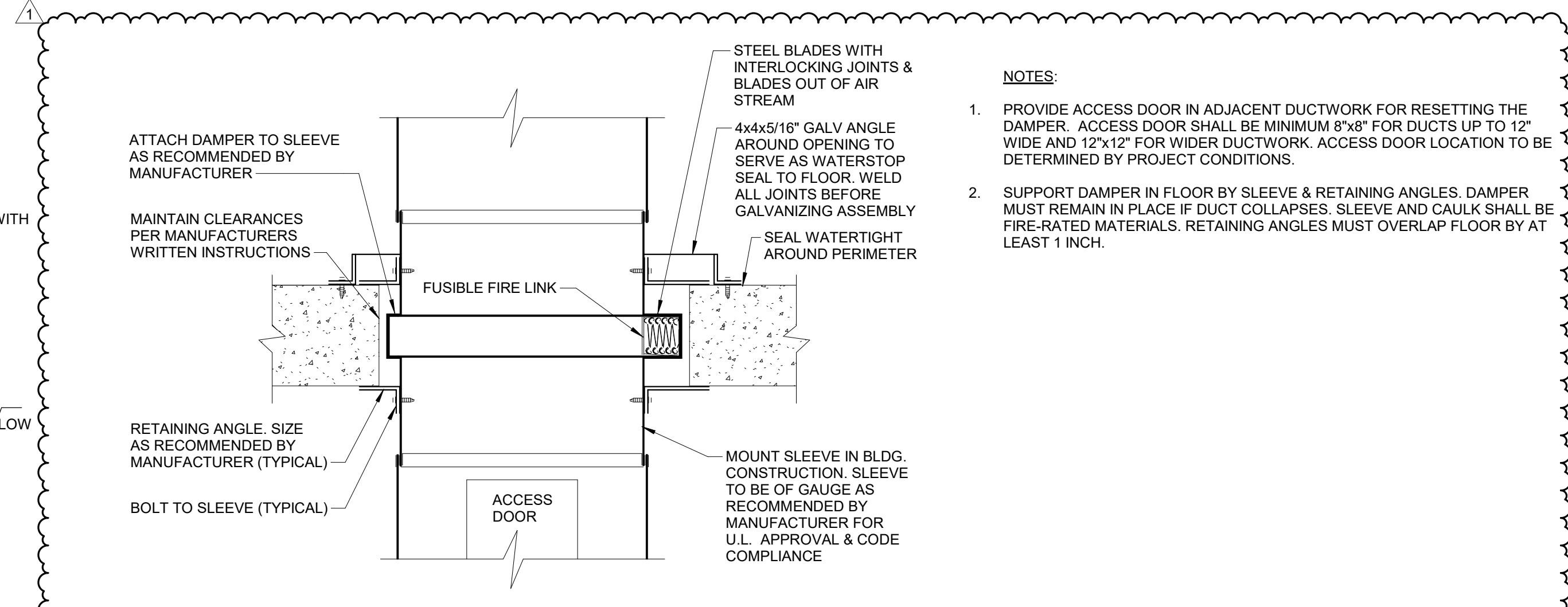
N DETAIL
ACOUSTICAL PENETRATION IN GWB PARTITION N.T.S.



P DETAIL
BOILER AIR INTAKE N.T.S.



Q DETAIL
HUNG INLINE EXHAUST FAN N.T.S.



R DETAIL
FIRE DAMPER INSTALLATION (STYLE C) N.T.S.

#	DATE	CHANGE DESCRIPTION
1	01/14/2022	BULLETIN 1 - INTERIOR

The Greater Dayton School
Dwight Park Dr.
DAYTON, OH 45404
FOR
The Connor Group Kids & Community Partners

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

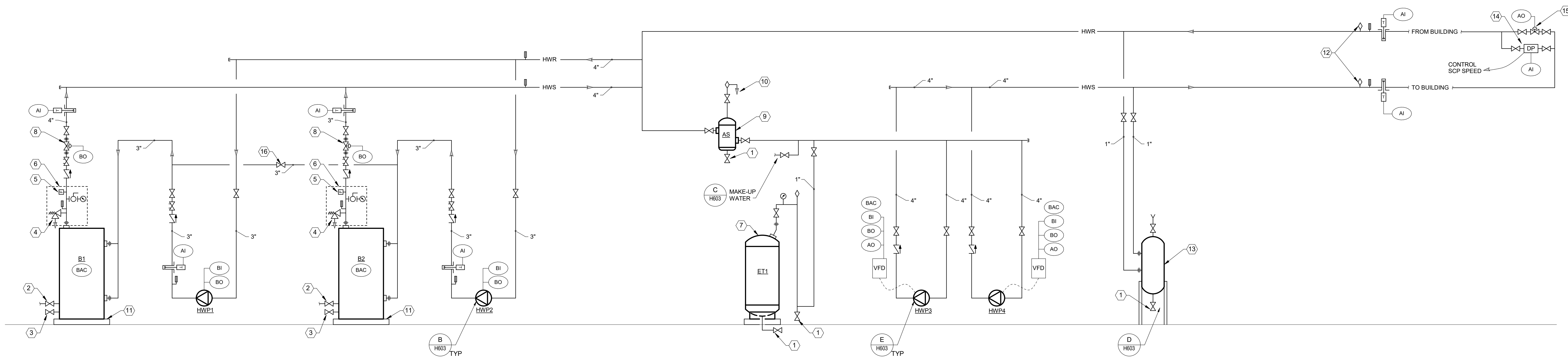
DRAWING TITLE:

HVAC DETAILS

KORDA
KORDA, NEWETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DESIGNED BY: Dan Edwards
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2018-217

STATE OF OHIO
DANIEL J. EDWARDS
REGISTERED PROFESSIONAL ENGINEER
10-29-21

10/25/21
DRAWN BY: KORDA
CHECKED BY: KORDA
Proj. # 18187
H602
INTERIOR PACKAGE
CONSTRUCTION DOCUMENTS



CODED NOTES

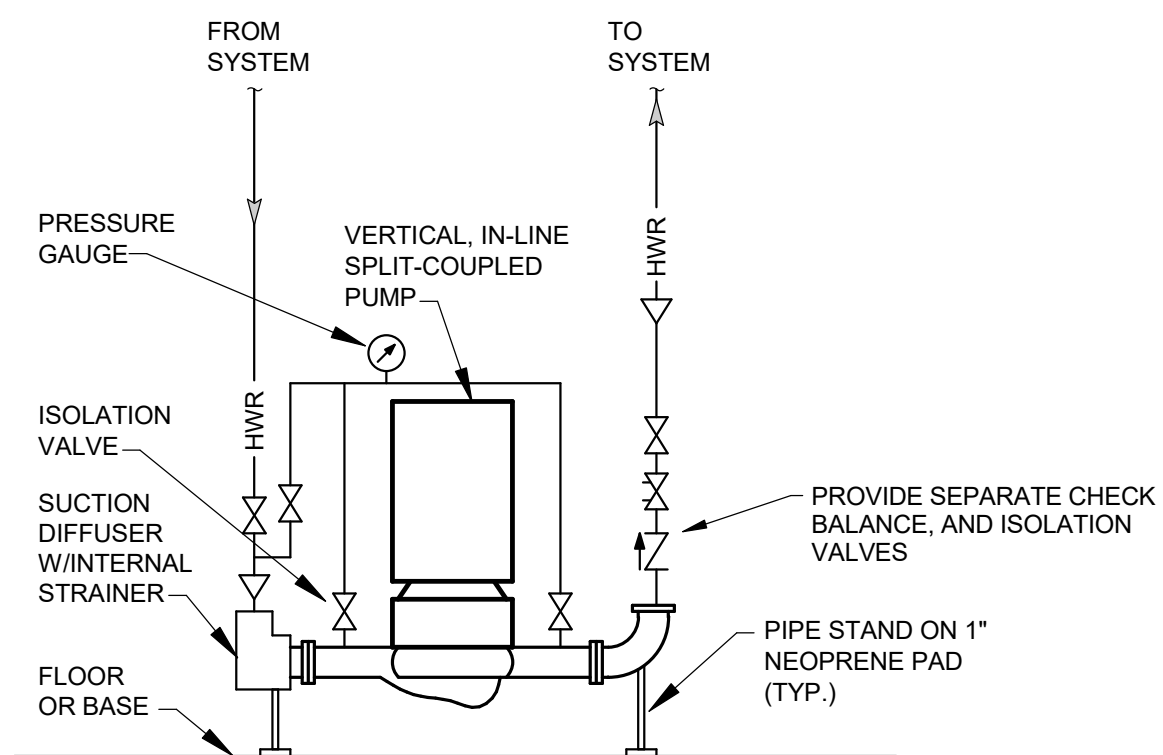
- 0.75" DRAIN VALVE WITH HOSE THREAD FITTING.
- FULL SIZE STAINLESS STEEL CONDENSATE DRAIN AND VALVE TO CONDENSATE NEUTRALIZING TANK. EXTEND NEUTRALIZING TANK DISCHARGE TO FLOOR DRAIN.
- FULL SIZE STAINLESS STEEL DRAIN VALVE WITH THREADED CAP.
- SAFETY RELIEF VALVE - FACTORY FURNISHED. PIPE DISCHARGE TO FLOOR DRAIN. SET AT 90 PSI.
- FLOW SWITCH - FACTORY FURNISHED.
- FACTORY SUPPLIED, PIPED AND WIRED.
- EXPANSION TANK. 1/2" RELIEF VALVE PRESSURE SETTING EQUAL TO TANK PRESSURE RATING.
- TWO POSITION ISOLATION CONTROL VALVE (FULL LINE SIZE).
- LINE SIZE AIR SEPARATOR.
- LARGE CAPACITY AUTOMATIC AIR VENT, PIPE DISCHARGE TO FLOOR DRAIN.
- 4" HOUSEKEEPING PAD BY G.C.
- MANUAL AIR VENT AT HIGH POINTS OF PIPING (LOCATIONS SHOWN ARE ARBITRARY. ADJUST LOCATIONS PER ACTUAL INSTALLATION.
- CHEMICAL SHOT FEEDER.
- DIFFERENTIAL PRESSURE SENSOR.
- 2" FLOW MODULATING TWO-WAY CONTROL VALVE.
- LINE-SIZED BYPASS WITH N.C. VALVE FOR MANUAL SWITCH OVER OF PRIMARY BOILER PUMPS.

TEMPERATURE CONTROL SYMBOLS

- BO BINARY OUTPUT FROM DDC SYSTEM
- BI BINARY INPUT TO DDC SYSTEM
- AO ANALOG OUTPUT FROM DDC SYSTEM
- AI ANALOG INPUT TO DDC SYSTEM
- BAC BACNET CONNECTION

A SCHEMATIC
HOT WATER SYSTEM

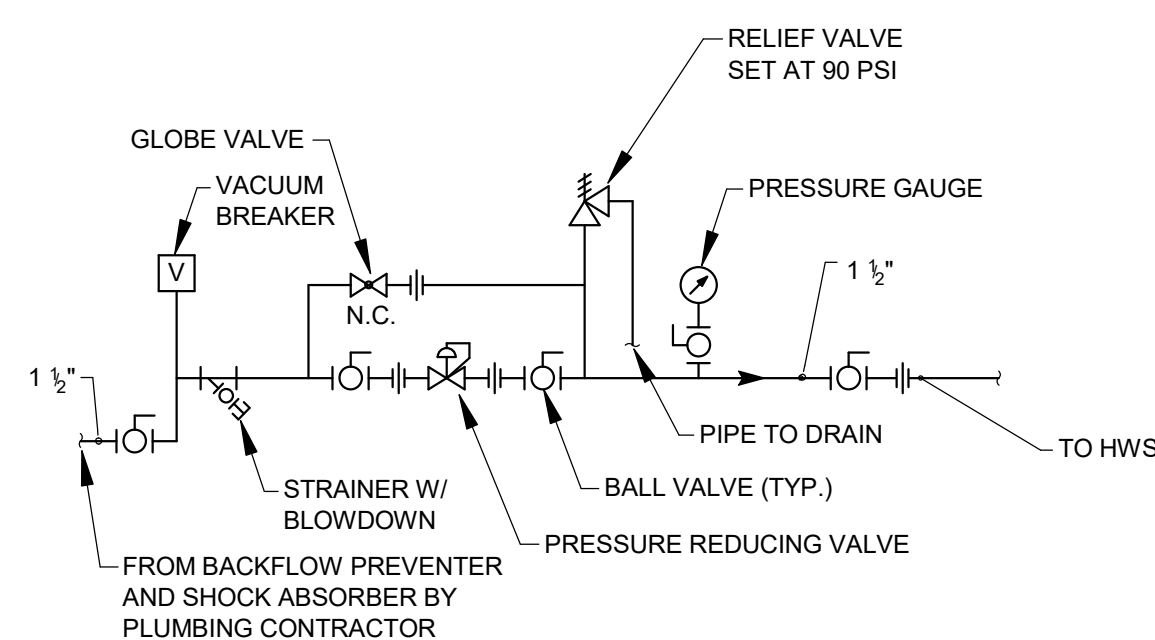
N.T.S.



B DETAIL

PUMP - VERTICAL INLINE (SUPPORTED FROM FLOOR)

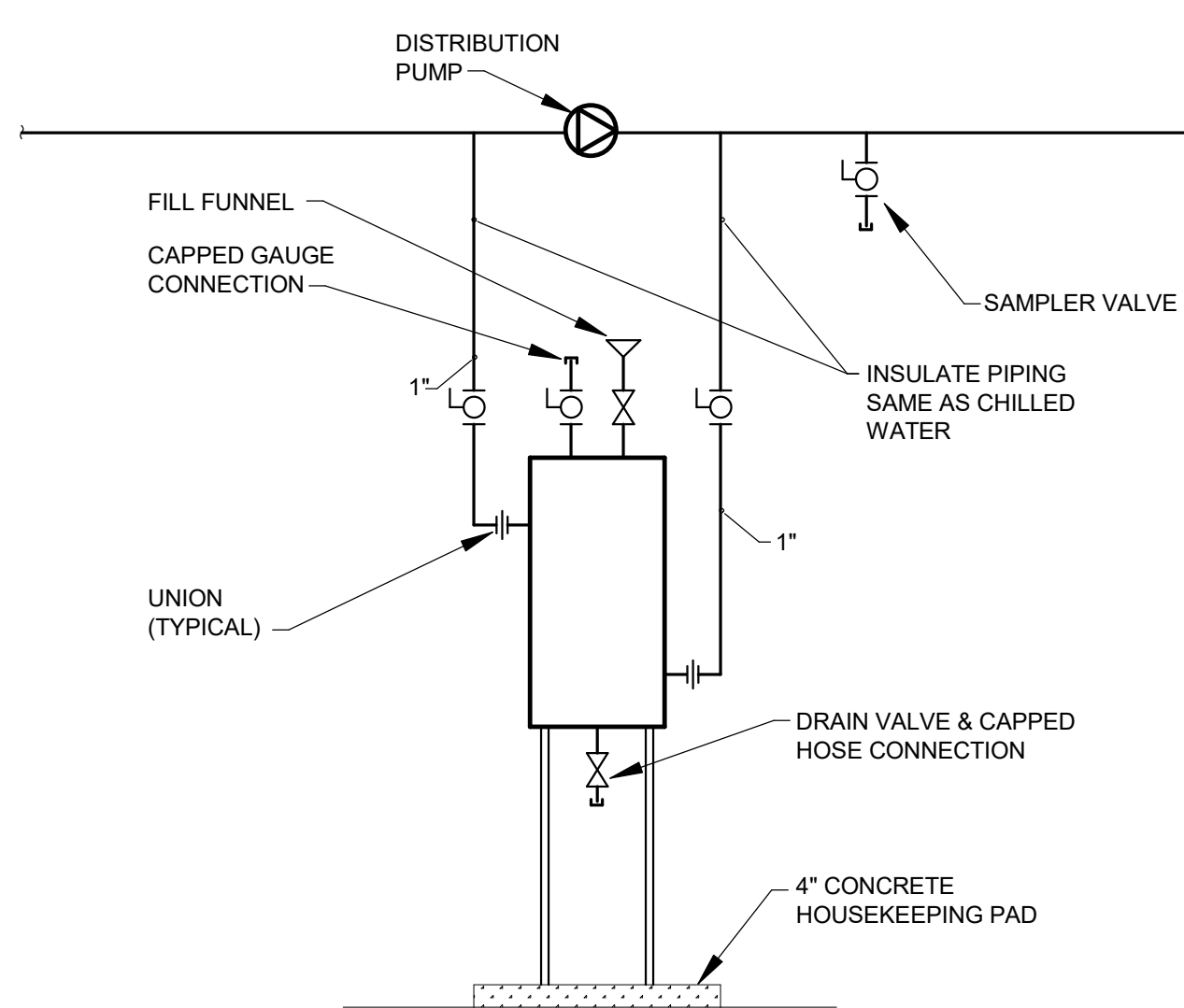
N.T.S.



C DETAIL

MAKE-UP WATER PIPING
HEATING WATER

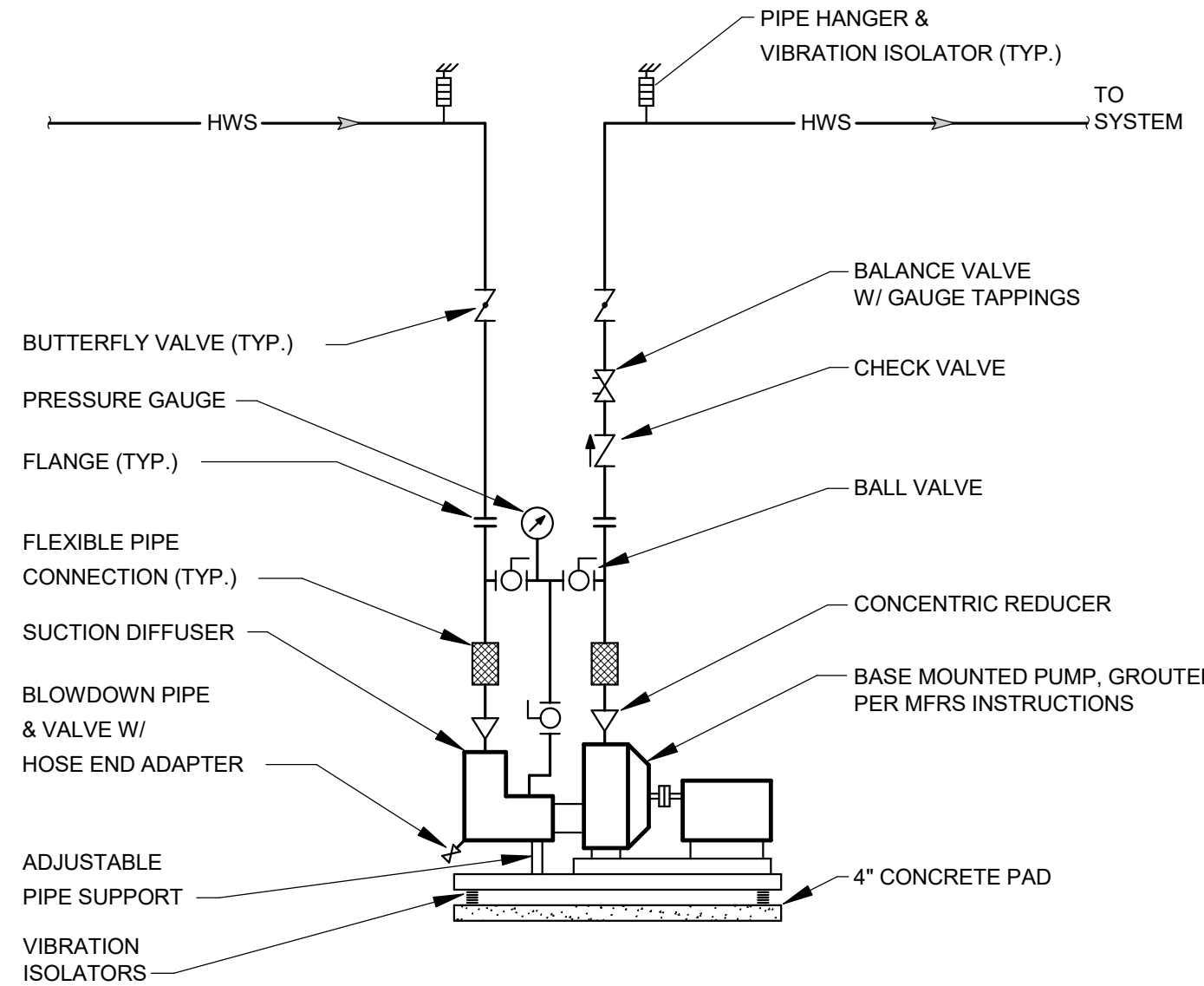
N.T.S.



D DETAIL

SHOT FEEDER PIPING

N.T.S.



E DETAIL

END SUCTION PUMP PIPING

N.T.S.

DRAWING TITLE:

HVAC DETAILS