

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

GENERAL NOTES:

VRF AND DUCTLESS SPLIT SYSTEMS:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:

PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE. FOR COMPLETE AND OPERABLE SYSTEMS.

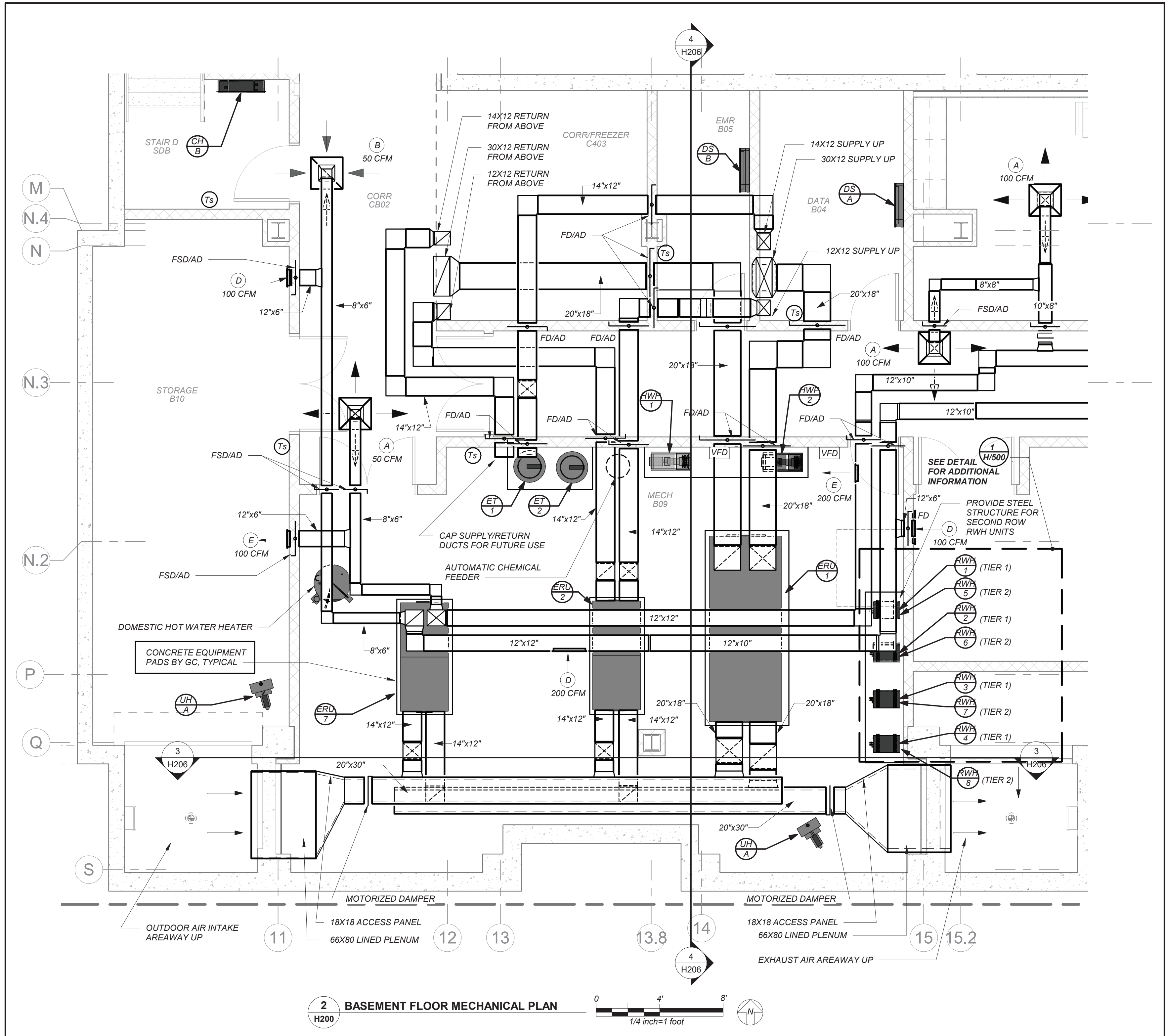
PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

EQUIPMENT IDENTIFICATION TAGS:

EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG NUMBERS/LETTERS. THOSE DESIGNATIONS SHALL BE USED IN ALL BMS PROGRAMMING AND ON PERMANENT EQUIPMENT TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL DESIGNATIONS.

DUCTWORK LINER:

ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS. PROVIDE ADDITIONAL LINER WHERE NOTED.



LEGEND	
	NEW DUCTWORK
	1" THERMAL ACOUSTIC LINING (DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS)
	FLEXIBLE CONNECTION
	SQUARE DUCT TURN WITH TURNING VANES
	NEW 4-WAY CEILING DIFFUSER
	NEW 3-WAY CEILING DIFFUSER
	NEW 2-WAY CEILING DIFFUSER
	CEILING EXHAUST/RETURN REGISTER
	REGISTER/DIFFUSER IDENTIFICATION
	DUCT DROP: DUCT RISE
	DUCT MTD: MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
	FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
	COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	LIQUID REFRIGERANT PIPING
	SUCTION REFRIGERANT PIPING
	HOT GAS REFRIGERANT PIPING
	CONDENSATE DRAIN PIPING
	FLOW DIRECTION WITHIN PIPE
	GATE VALVE (HORIZONTAL/VERTICAL)
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CHECK VALVES
	PIPE CONNS. (BOTTOM: TOP 45 OR 90; PIPE UP)
	EXPANSION JOINT, ANCHOR AND GUIDES
	HOT WATER PUMP IDENTIFICATION
	EXHAUST FAN IDENTIFICATION
	SUPPLY FAN IDENTIFICATION
	DUCTLESS SPLIT UNIT IDENTIFICATION
	HOT WATER CABINET HEATER IDENTIFICATION
	ELECTRIC CABINET HEATER IDENTIFICATION
	HOT WATER UNIT HEATER IDENTIFICATION
	ELECTRIC UNIT HEATER IDENTIFICATION
	CONDENSATE PUMP IDENTIFICATION
	INDOOR ENERGY RECOVERY UNIT IDENTIFICATION
	OUTDOOR ENERGY RECOVERY UNIT IDENTIFICATION
	FAN COIL UNIT IDENTIFICATION
	REFRIGERANT TO HOT WATER HEAT EXCHANGER UNIT IDENTIFICATION
	AIR SOURCE HEAT PUMP UNIT IDENTIFICATION
	EXPANSION TANK IDENTIFICATION
	CONVECTOR IDENTIFICATION
	FUEL OIL TANK IDENTIFICATION
	HOT WATER HEATING COIL IDENTIFICATION
	RADIANT CEILING PANEL IDENTIFICATION
	TYPE F FIN TUBE RADIATION IDENTIFICATION
	TO CONTROLLED ITEM WALL MTD (S-2+A.F.F-U.O.N.) TEMPERATURE SENSOR
	TO CONTROLLED ITEM WALL MTD (S-2+A.F.F-U.O.N.) REVERSE ACTING THERMOSTAT
	TO CONTROLLED ITEM WALL MTD (S-2+A.F.F-U.O.N.) CARBON DIOXIDE SENSOR
	CIRCUIT SETTER
	DOOR UNDERCUT
	POWDER COATED SHEET METAL RISER ENCLOSURE
	AUTOMATIC TEMPERATURE CONTROLS
	CEILING DIFFUSER
	CEILING REGISTER
	TOP WALL REGISTER
	CUBIC FEET PER MINUTE
	FULL SIZE CONNECTION
	ABOVE FINISHED FLOOR
	OUTSIDE (FRESH) AIR INTAKE
	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
	ELECTRICAL CONTRACTOR
	PLUMBING CONTRACTOR
	GENERAL TRADES CONTRACTOR
	FLEXIBLE CONNECTION
	FULL SIZE CONNECTION
	ACCESS DOOR
	1/2" SQ. WIRE MESH GRILLE
	FIRE DAMPER
	SECTION/DETAIL/ELEVATION/PART NUMBER
	DRAWING NUMBER
	SECTION/ELEVATION IDENTIFICATION

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD

121 McLean Avenue
Yonkers, NY 10705



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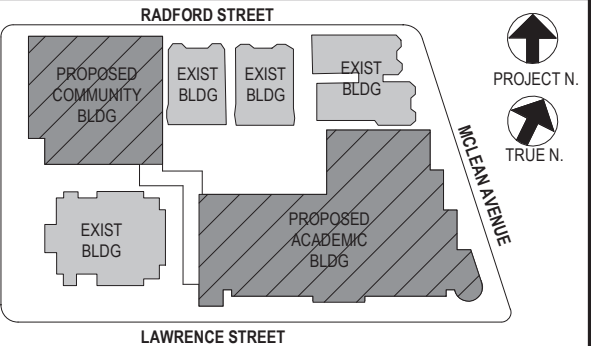
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CONSTRUCTION DOCUMENTS



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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Legend, Basement Floor Plans, and Notes

Job No. 2019-1026 Date 8/31/20

Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number

H200

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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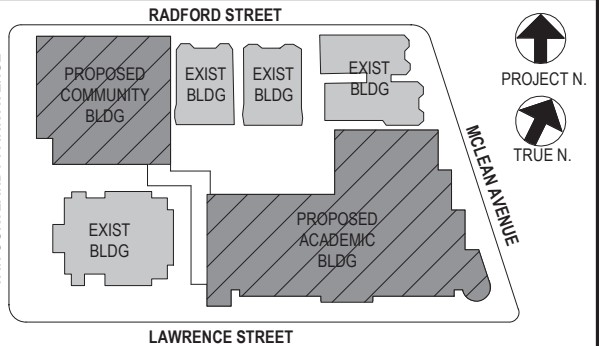
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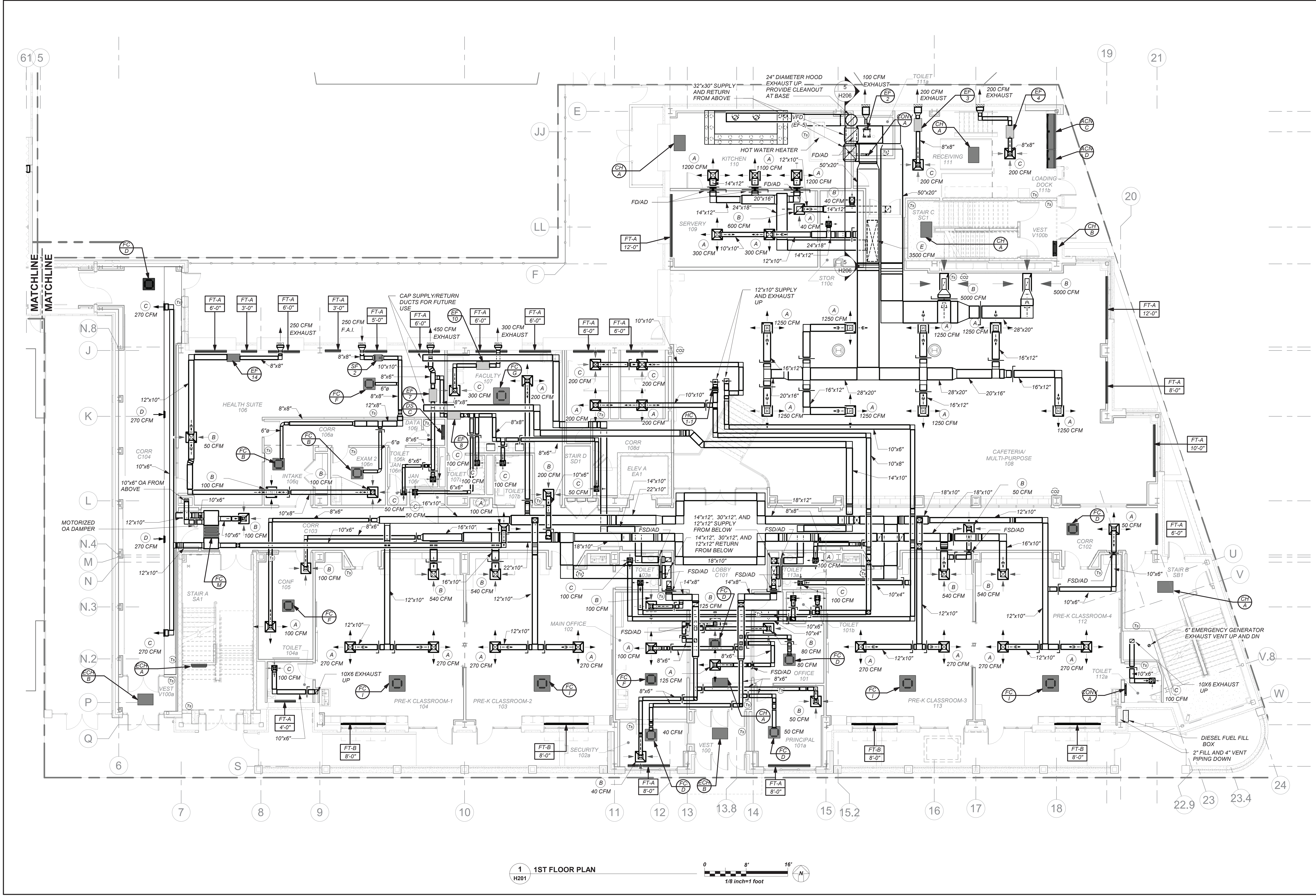
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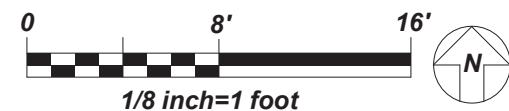
Professional Seal

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1 1ST FLOOR PLAN
H201



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No.	Date	Issue

Sheet Title

1st Floor Plan

Job No. 2019-1026 Date 8/31/20

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Sheet Number

H201

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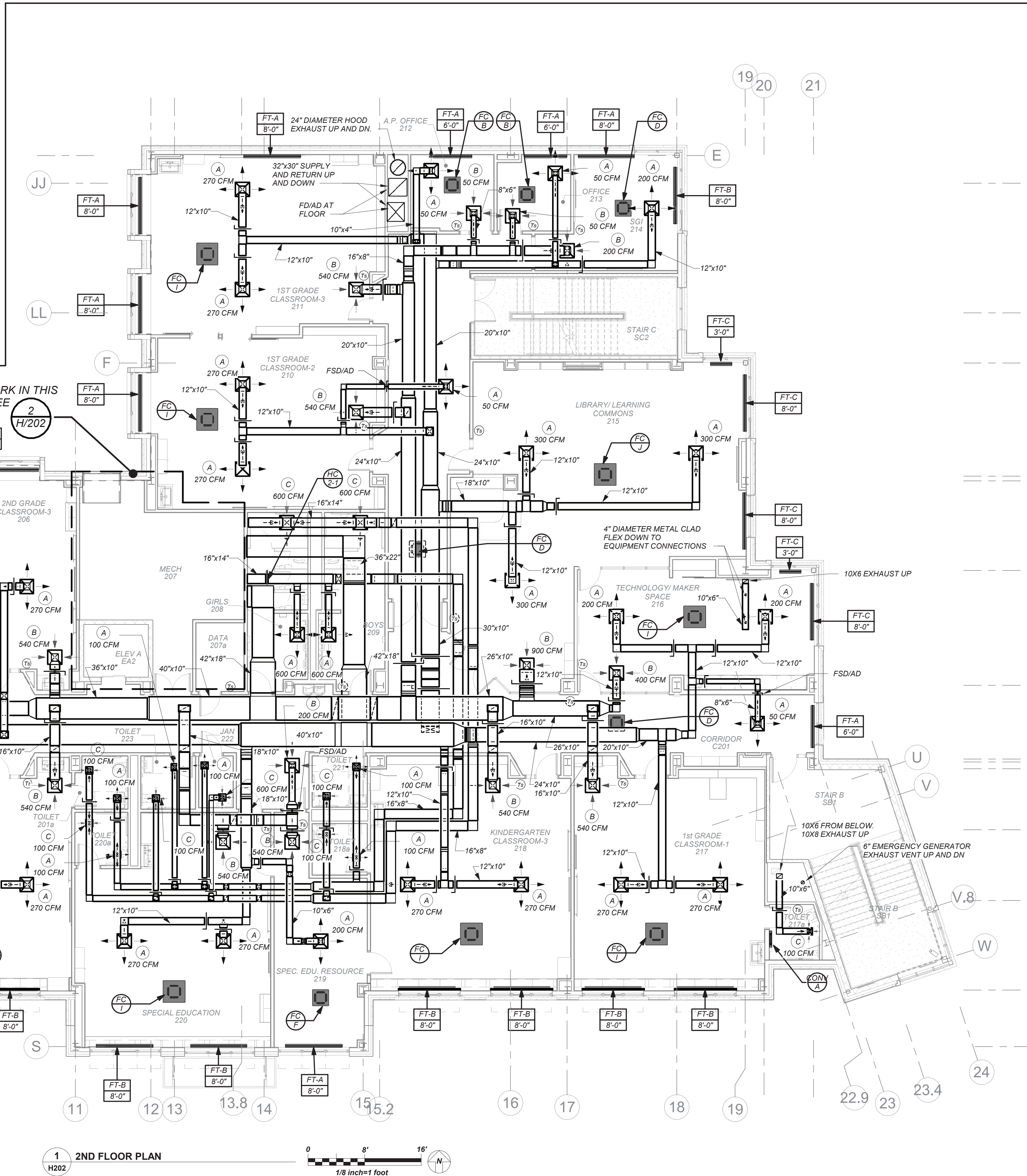
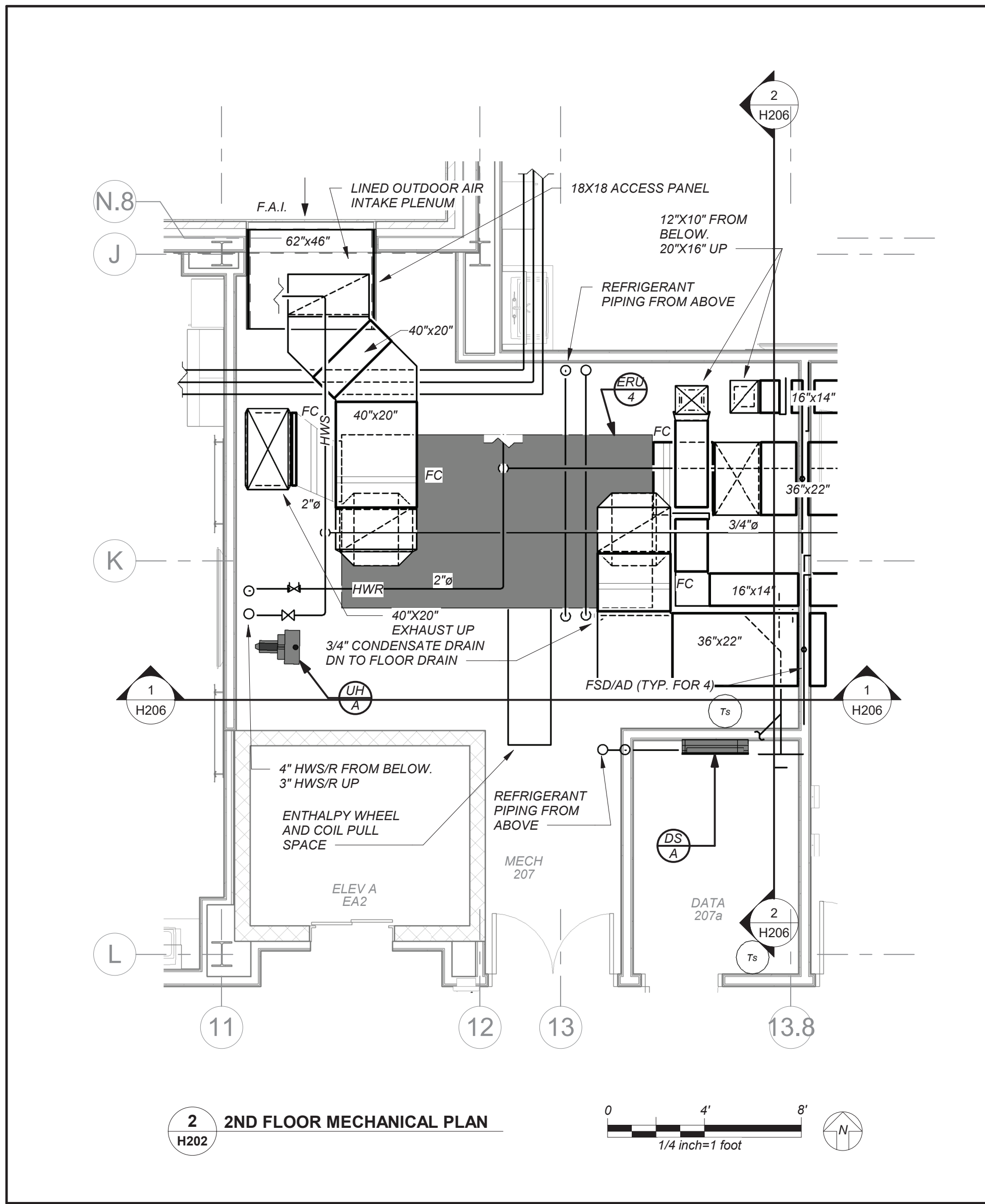
2nd Floor Plans

Job No. 2019-1026 Date 8/31/20

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Sheet Number

H202



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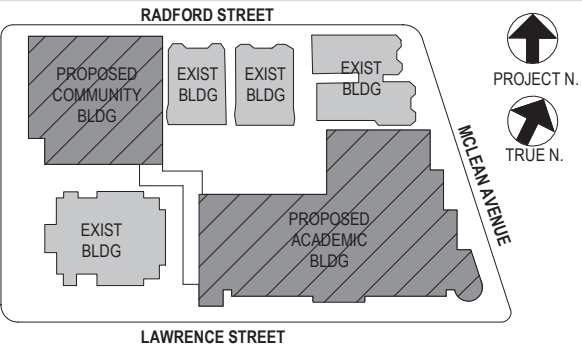
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1	08/31/2020	SCHEMATIC DESIGN
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Sheet Title

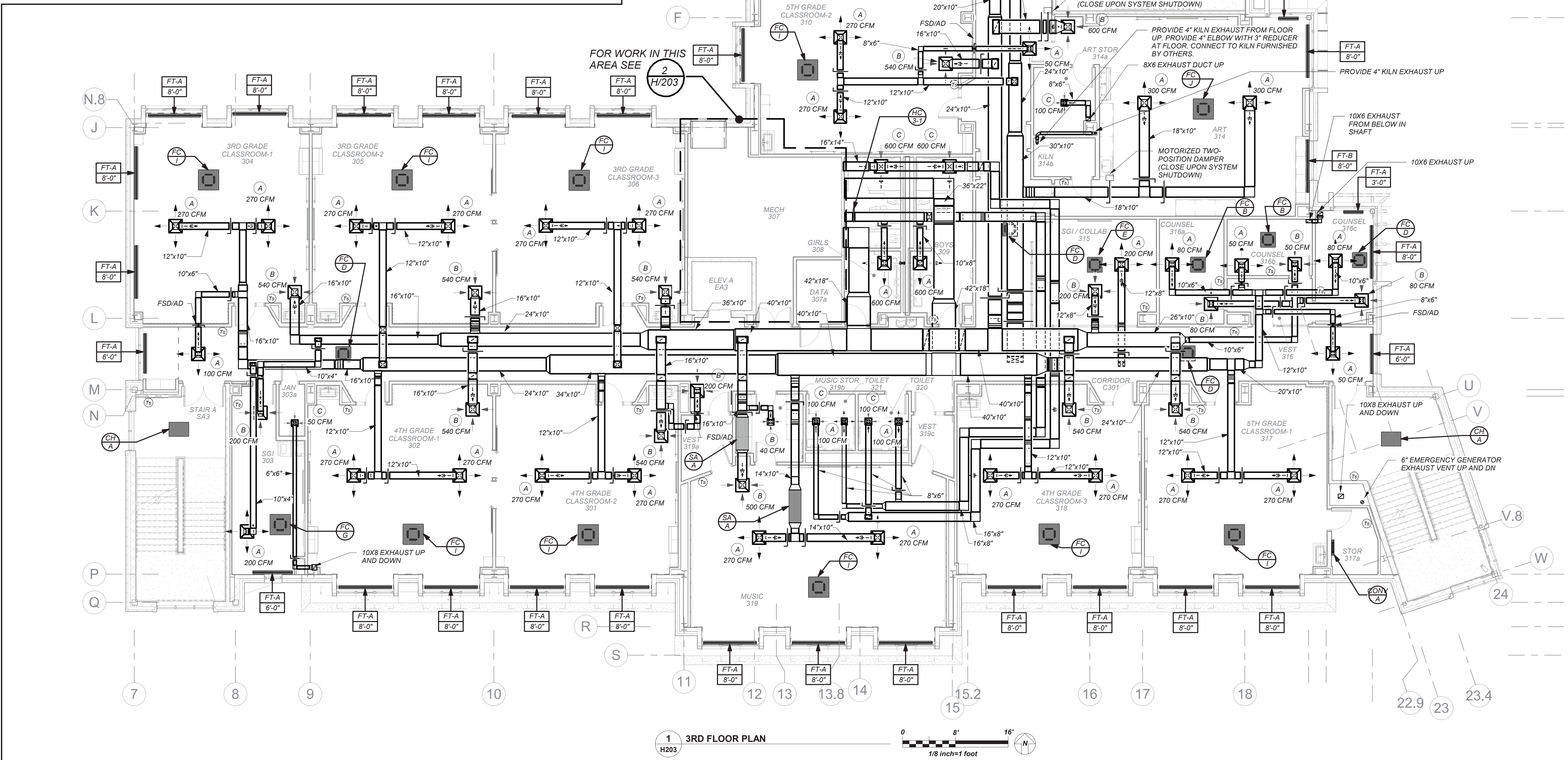
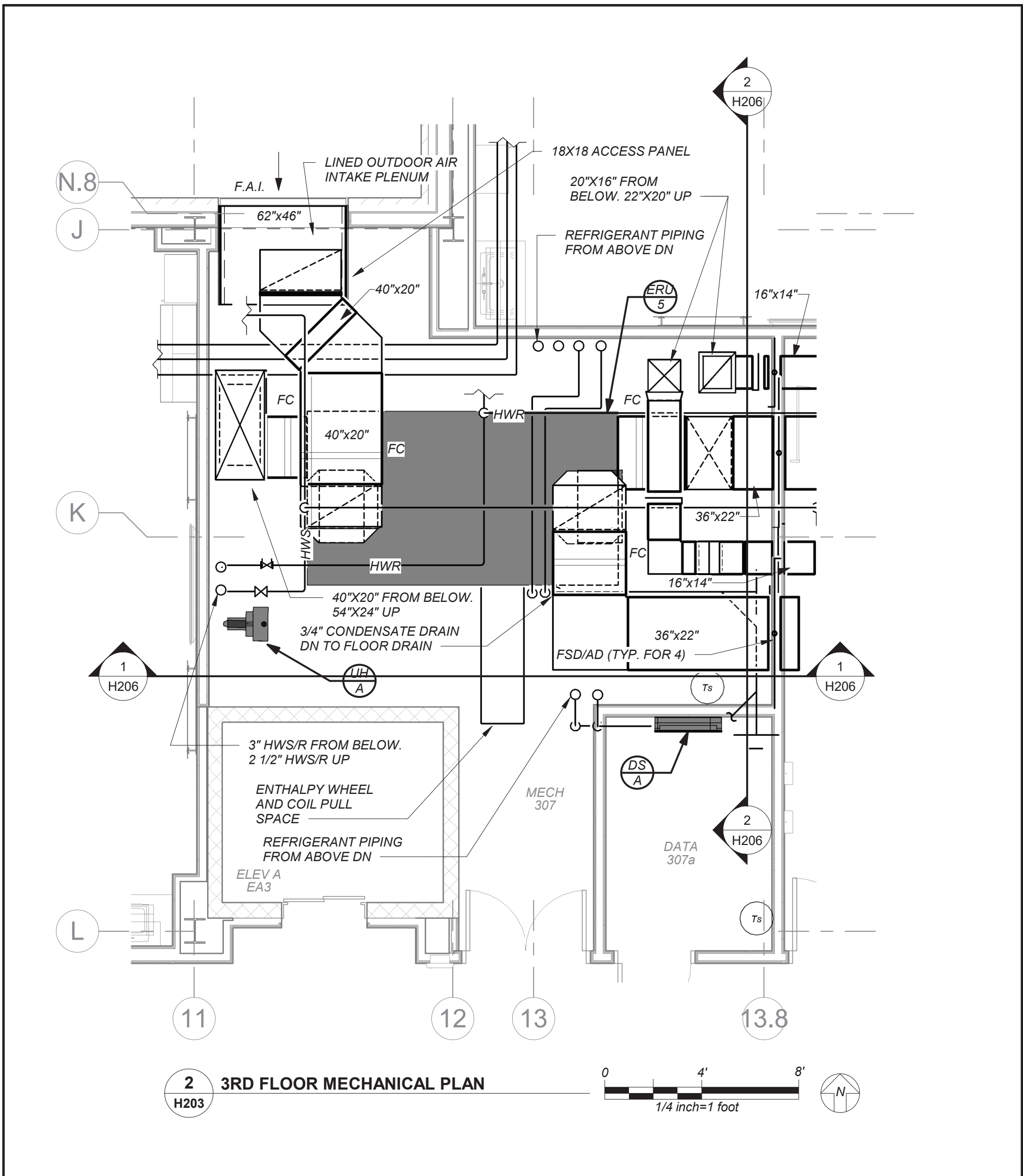
3rd Floor Plans

Job No. 2019-1026 Date 8/31/20

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Sheet Number

H203



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DUCTWORK LINER:

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NY SED PROJECT CONTROL NO.

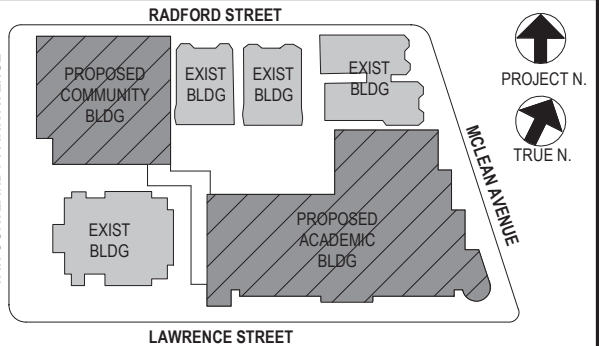
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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

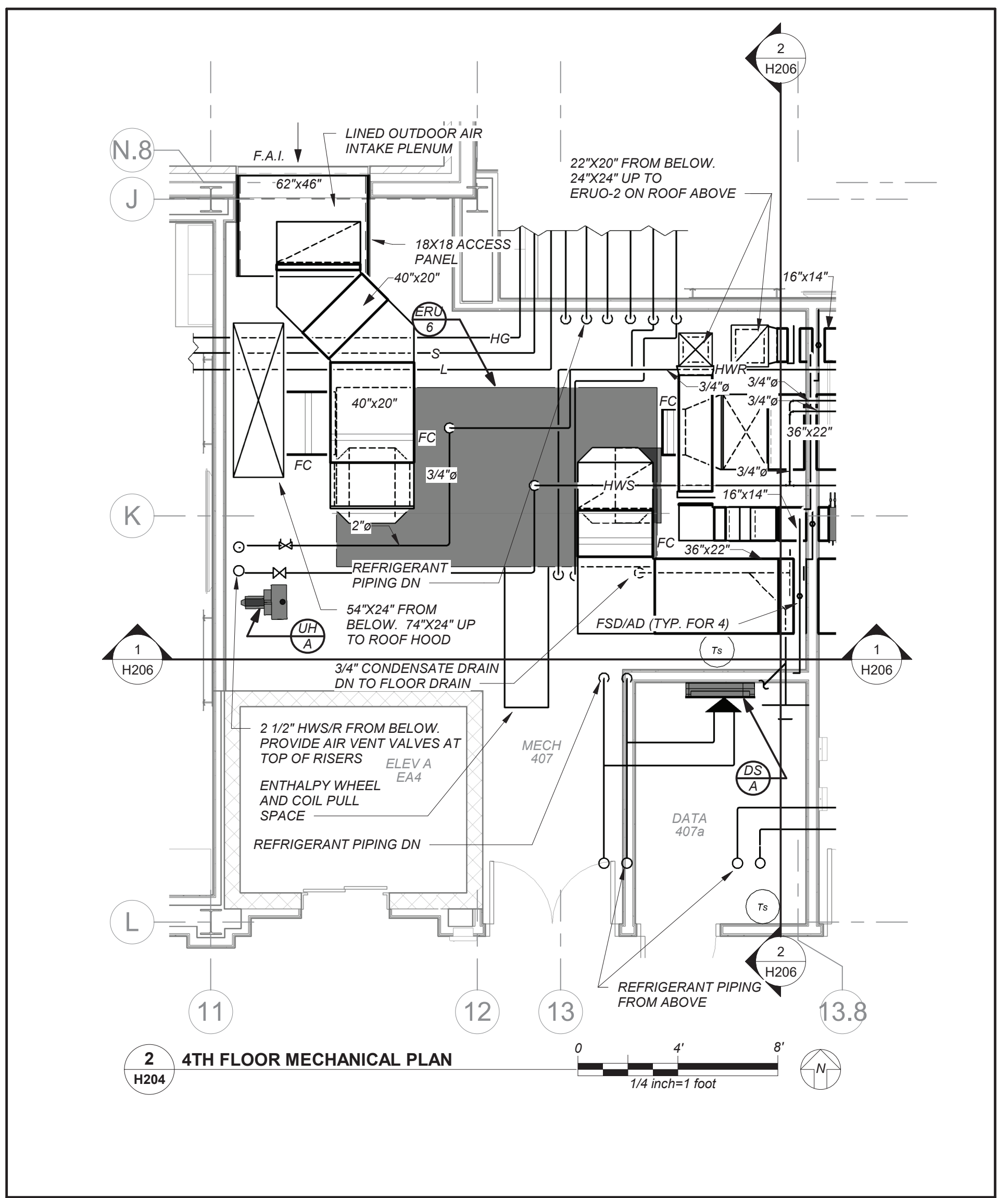
4th Floor Plans

Job No. 2019-1026 Date 8/31/20

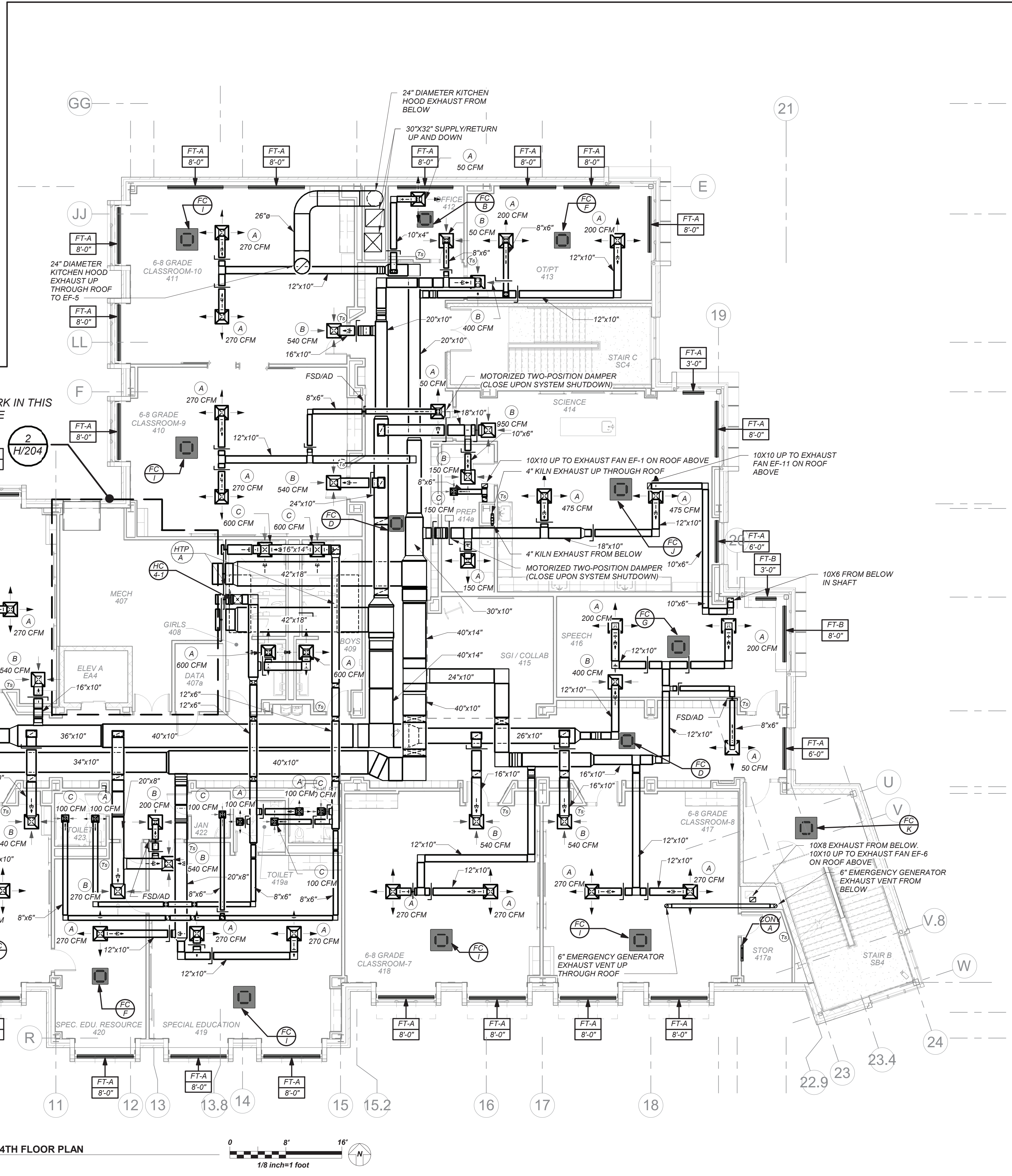
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Sheet Number

H204



4TH FLOOR MECHANICAL PLAN



4TH FLOOR PLAN

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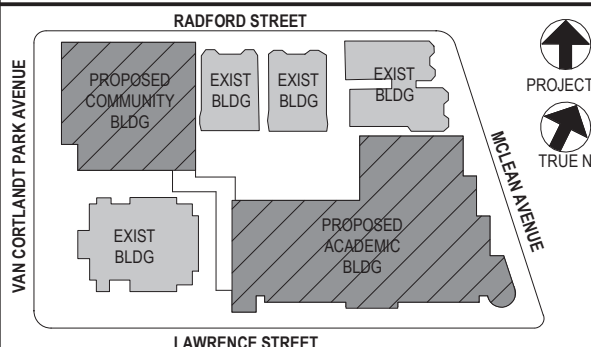
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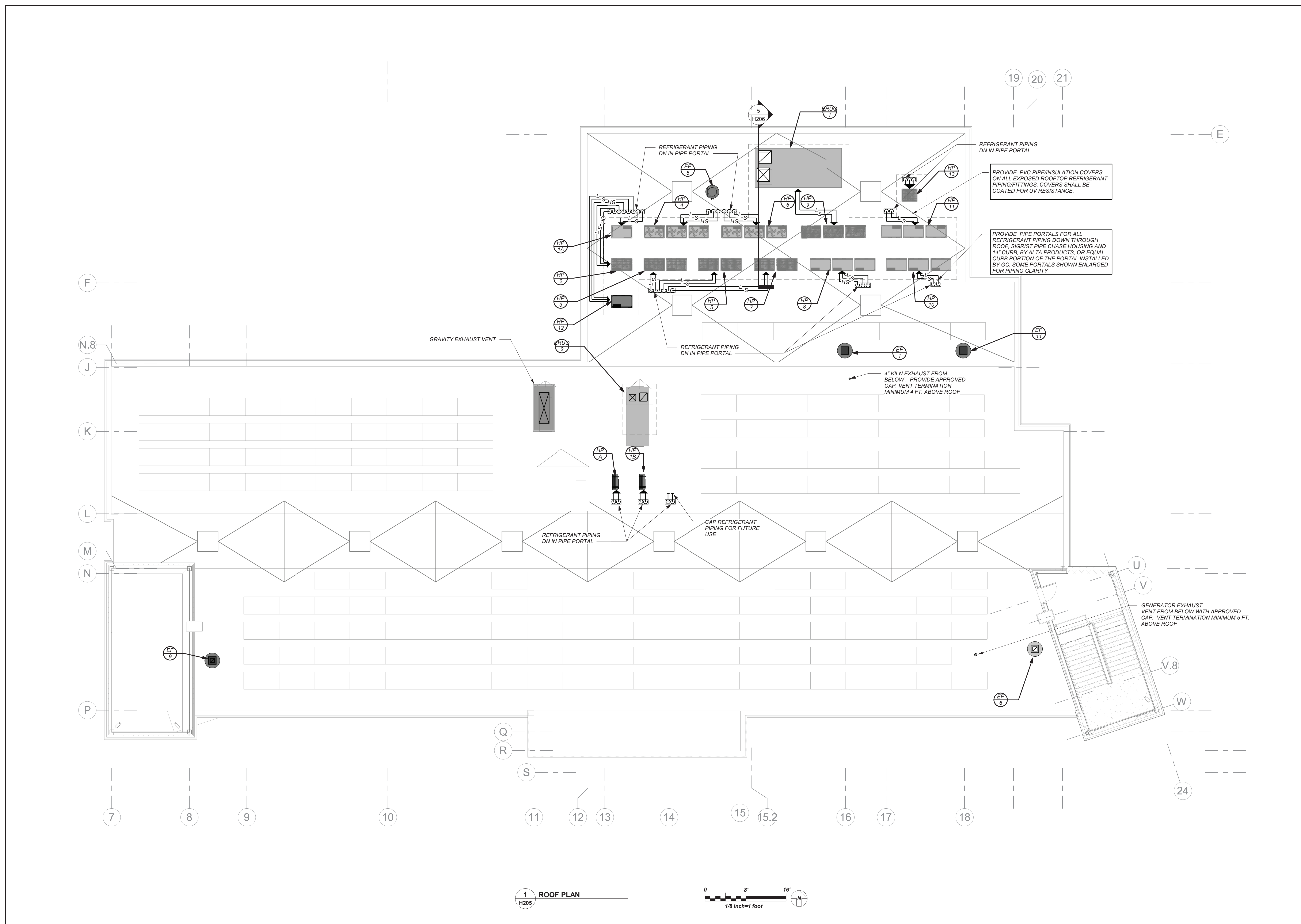
Roof Plan

Job No. 2019-1026 Date 04/07/21

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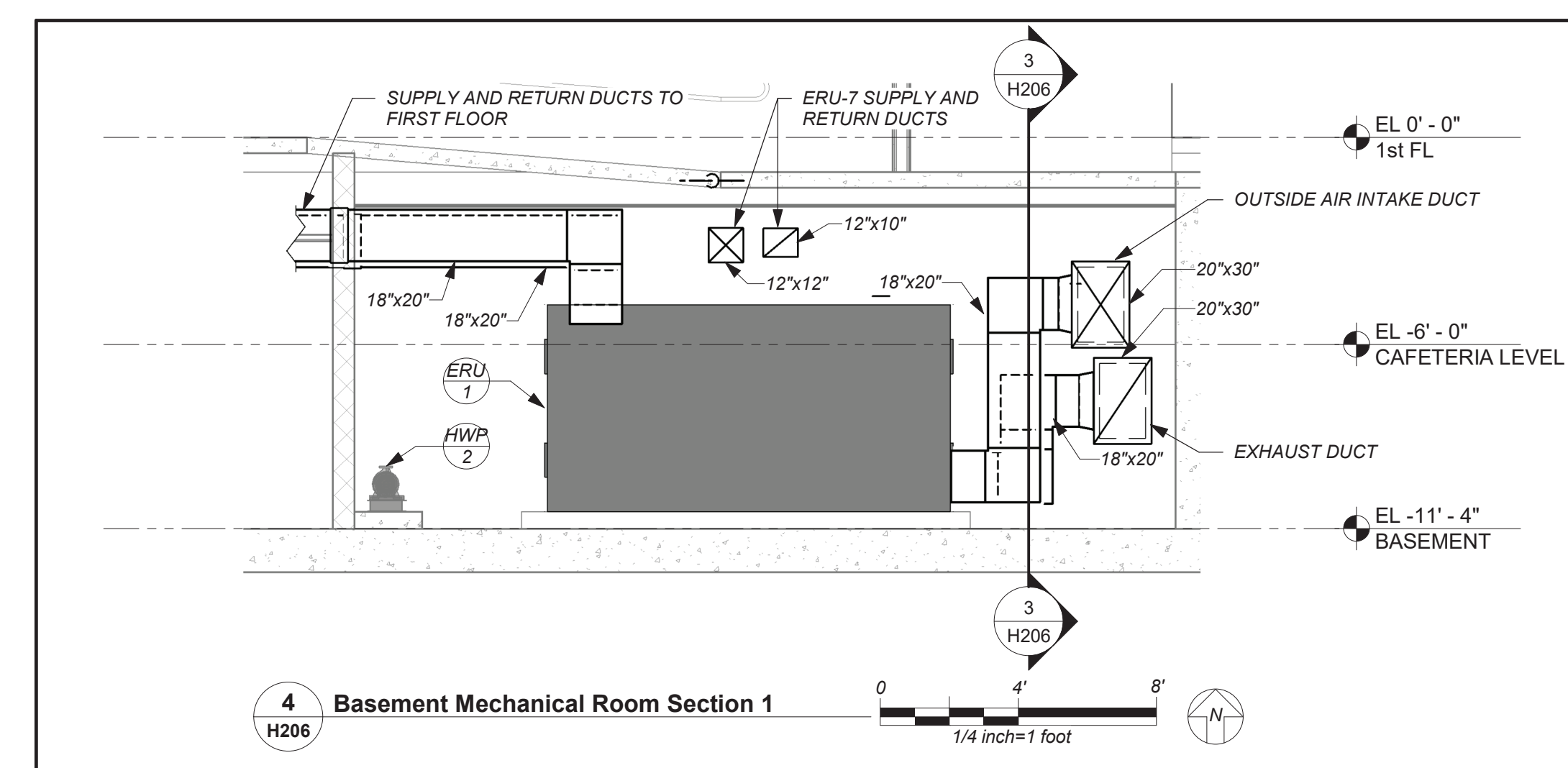
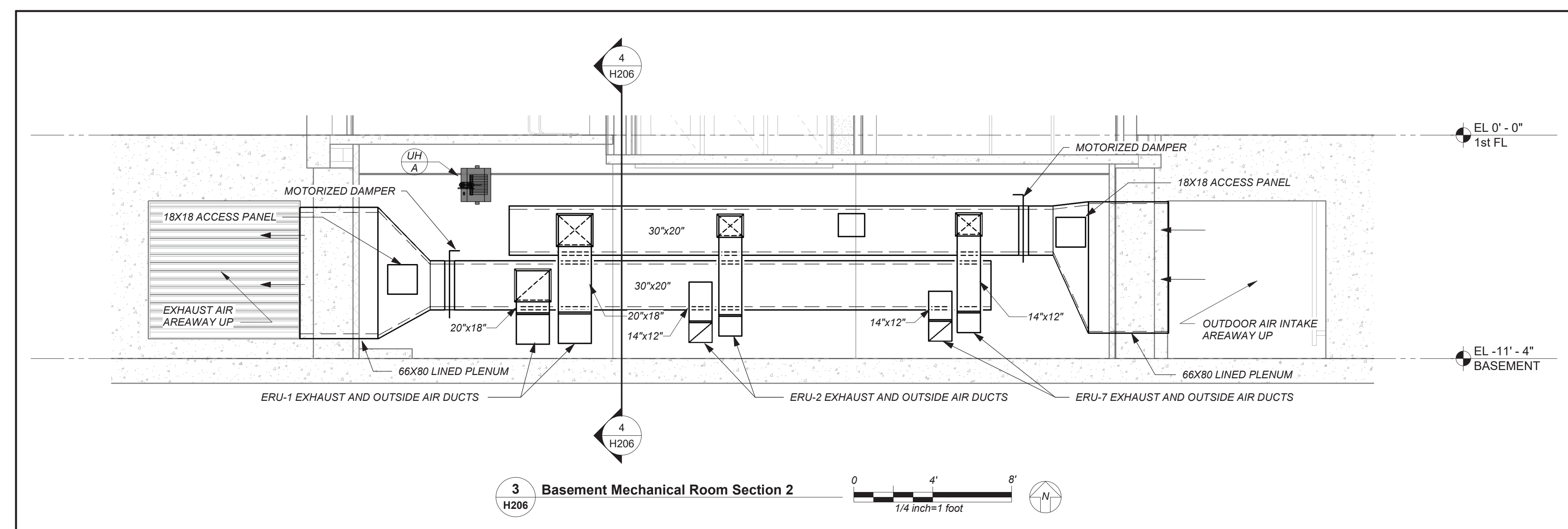
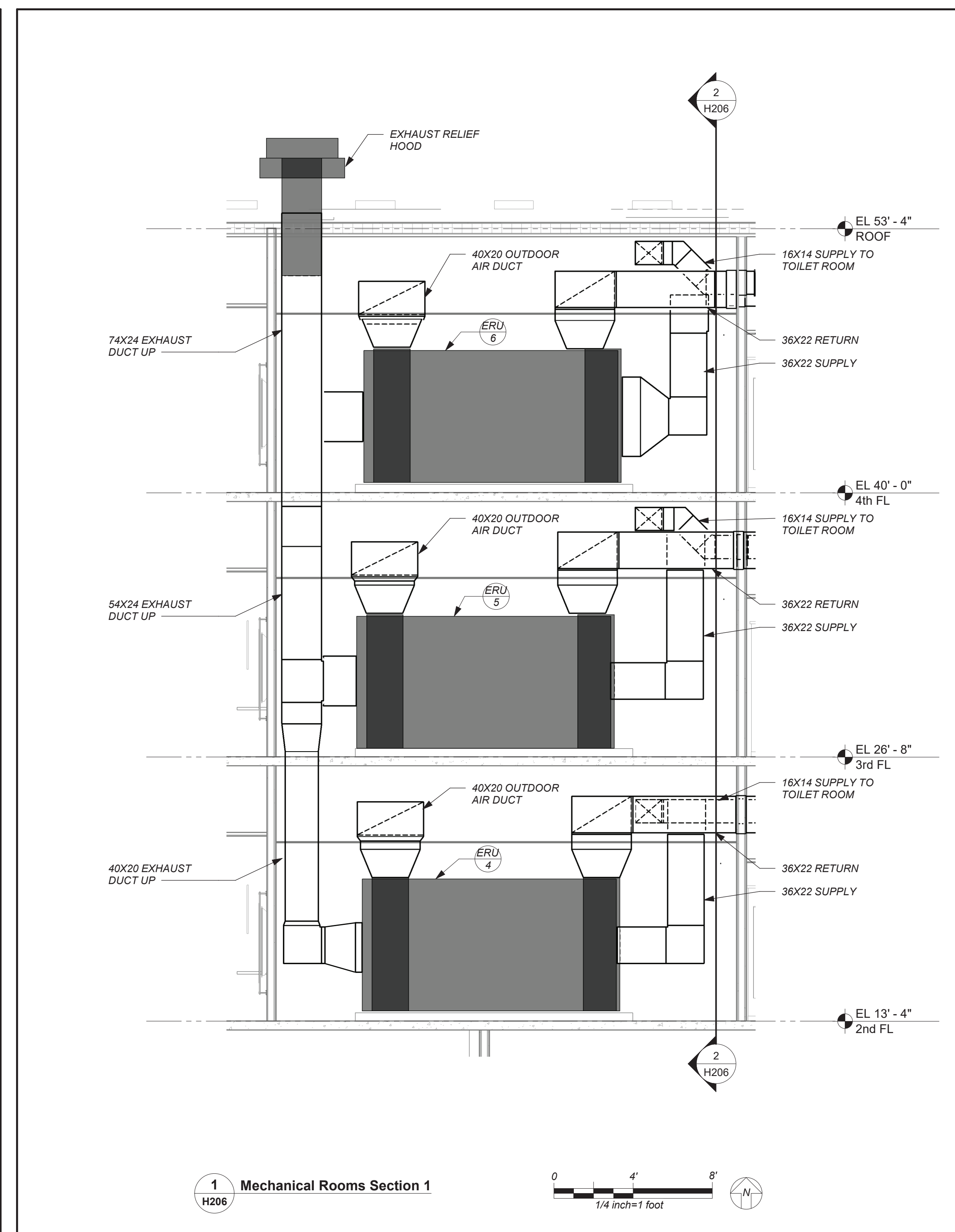
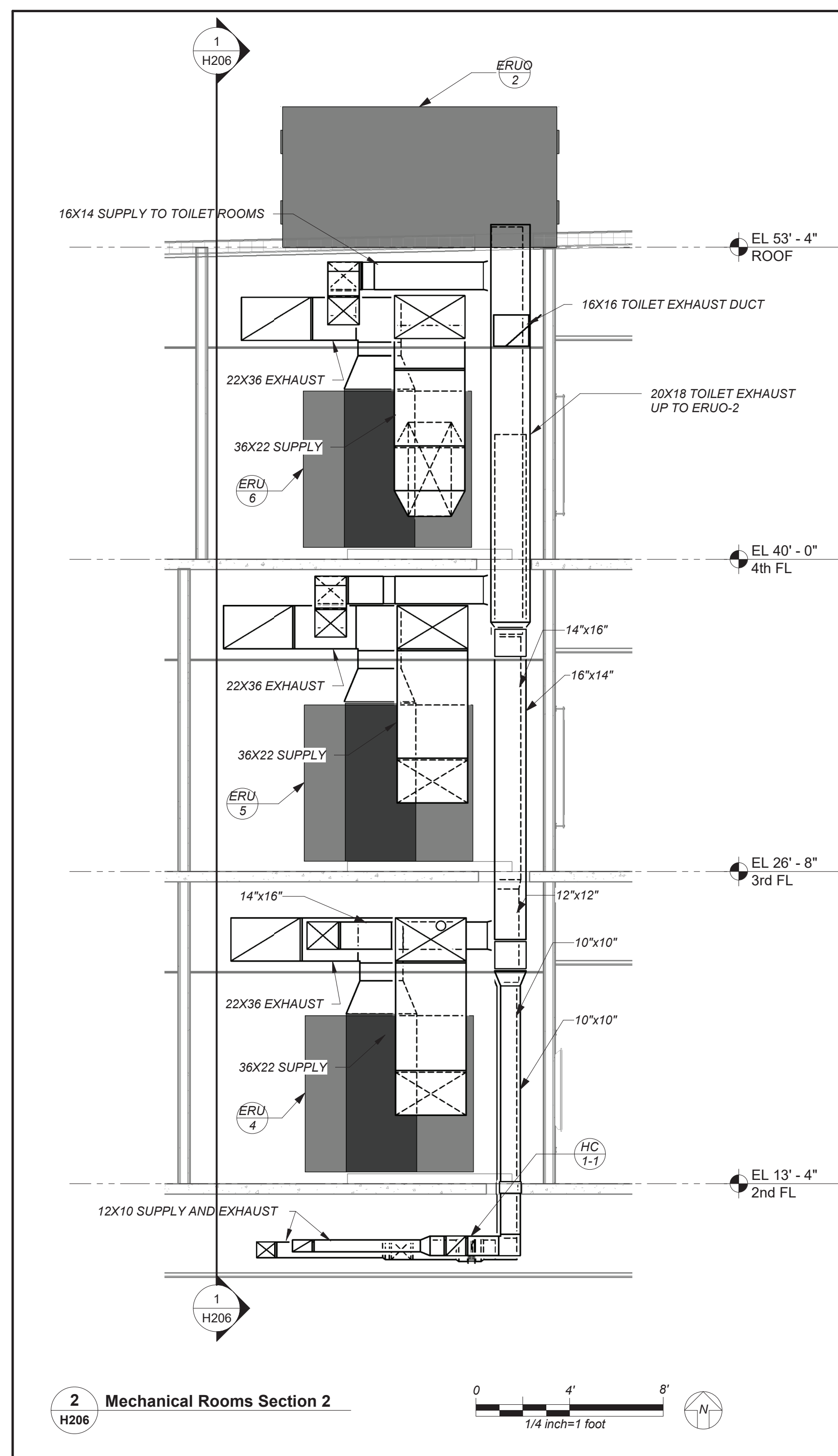
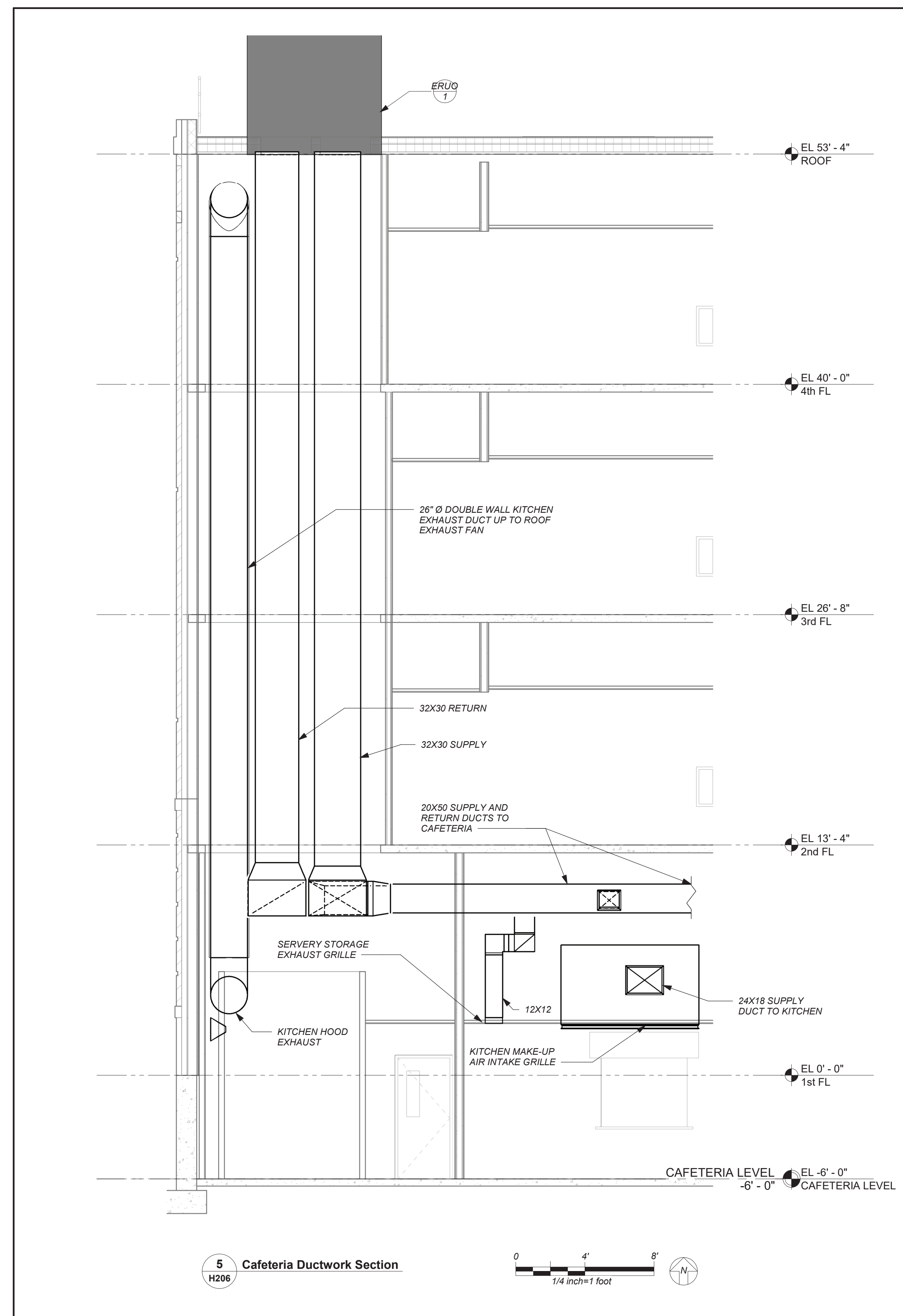
H205



1 ROOF PLAN
H205

0 8' 16'
1/8"=1 foot

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OF ALL OTHER CONTRACTORS



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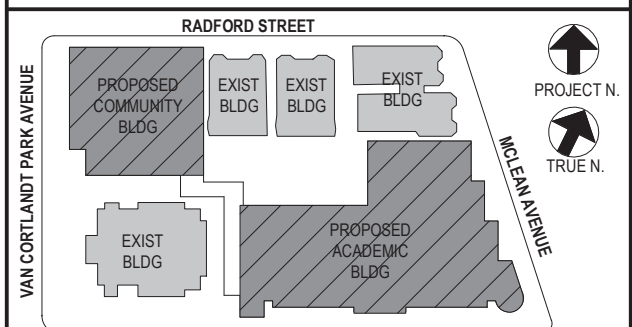
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

Mechanical Sections

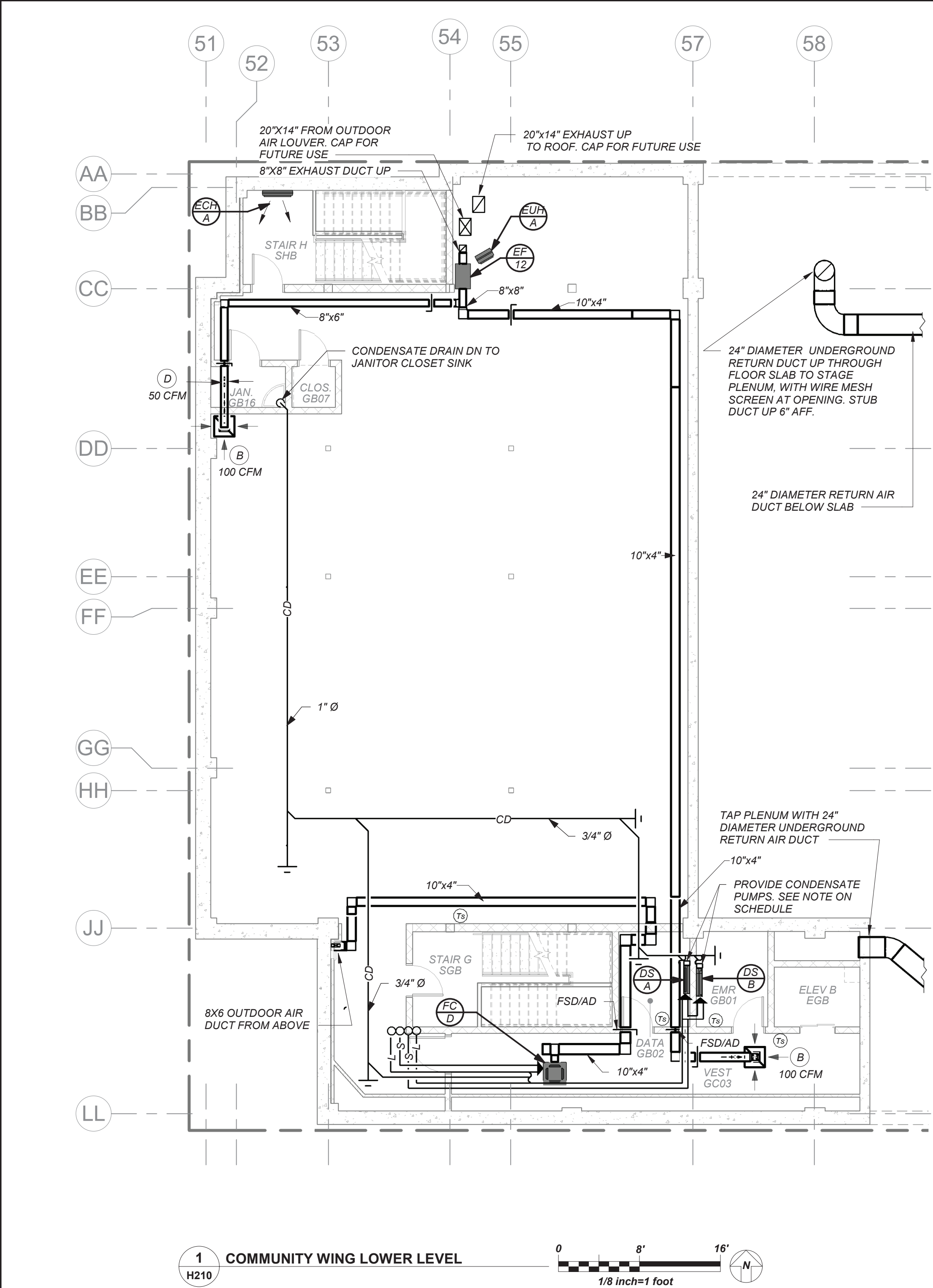
Job No.	Date
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Scale	Drawn / Checked
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H206

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VRF AND DUCTLESS SPLIT SYSTEMS:
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DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

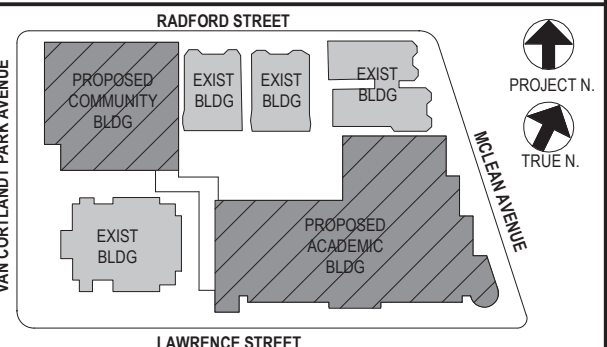
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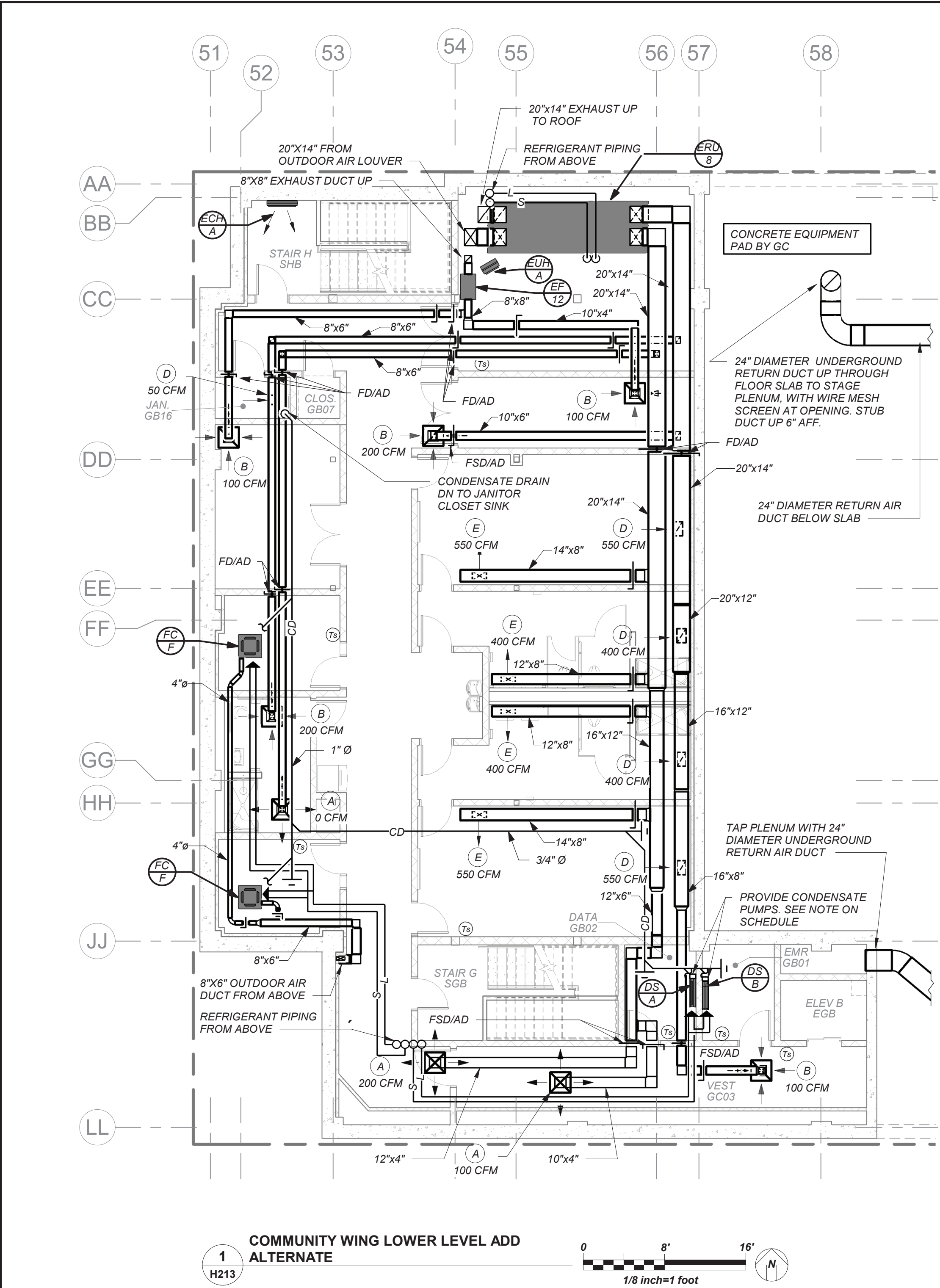
Community Wing Basement Floor Plan

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number

H210

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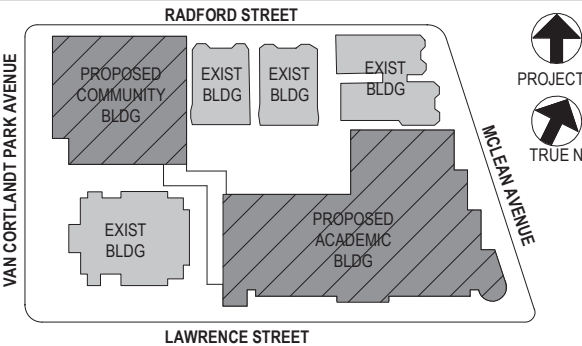
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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

Community Wing Basement - Add Alt -
Gym Basement Fit-Out

Job No. 2019-1026 Date 10/18/21

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Sheet Number

H213

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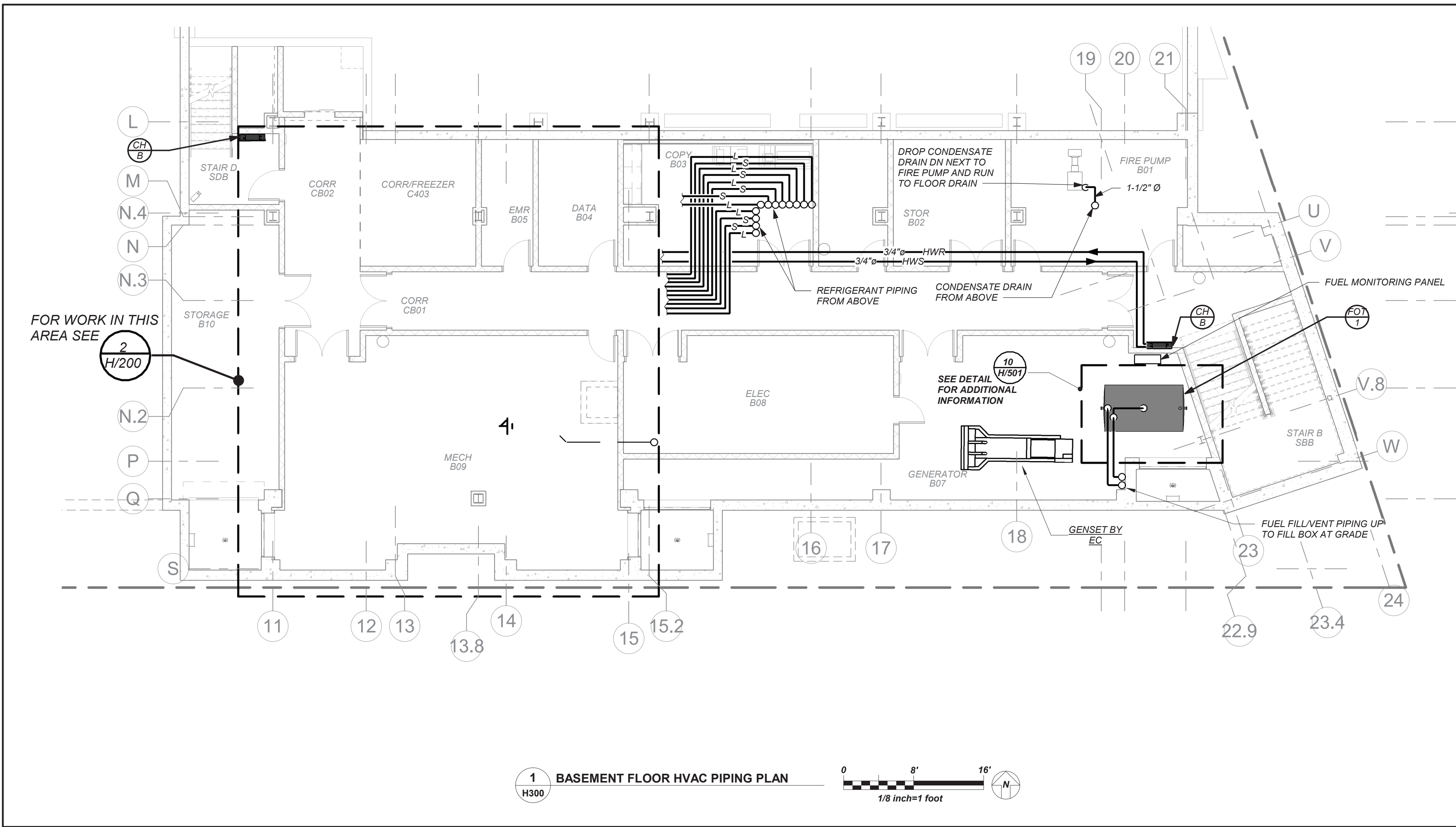
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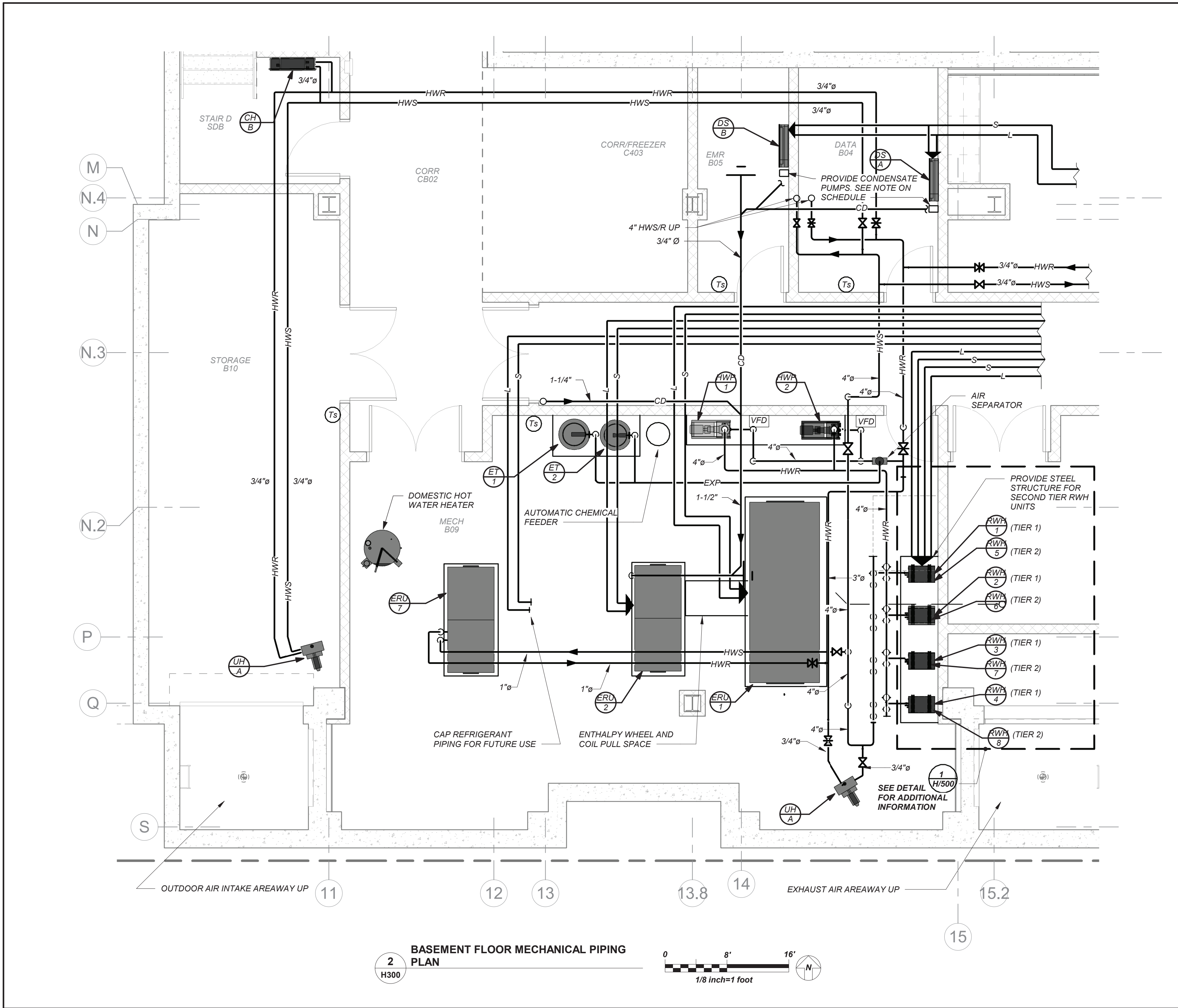
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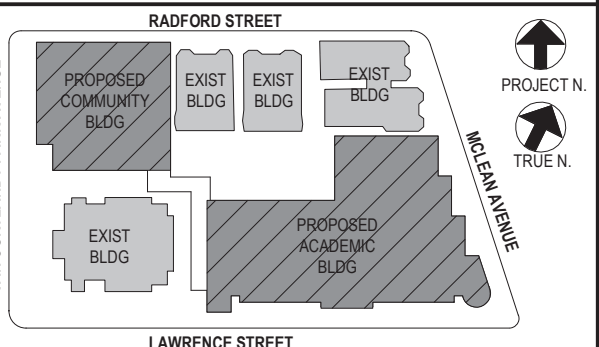
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No.	Date	Issue

Sheet Title

Basement Piping

Job No.	2019-1026	Date	09/02/21
Scale	AS NOTED	Drawn / Checked	BGA/ BGA
Sheet Number	H300		

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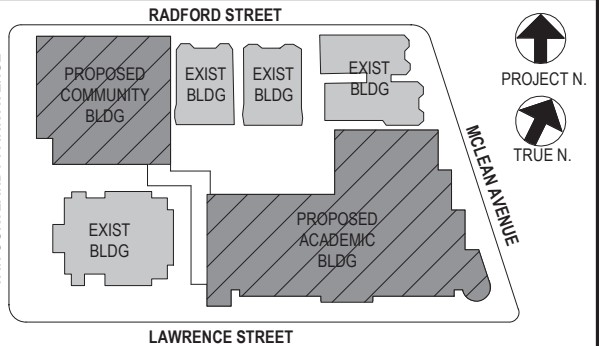
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

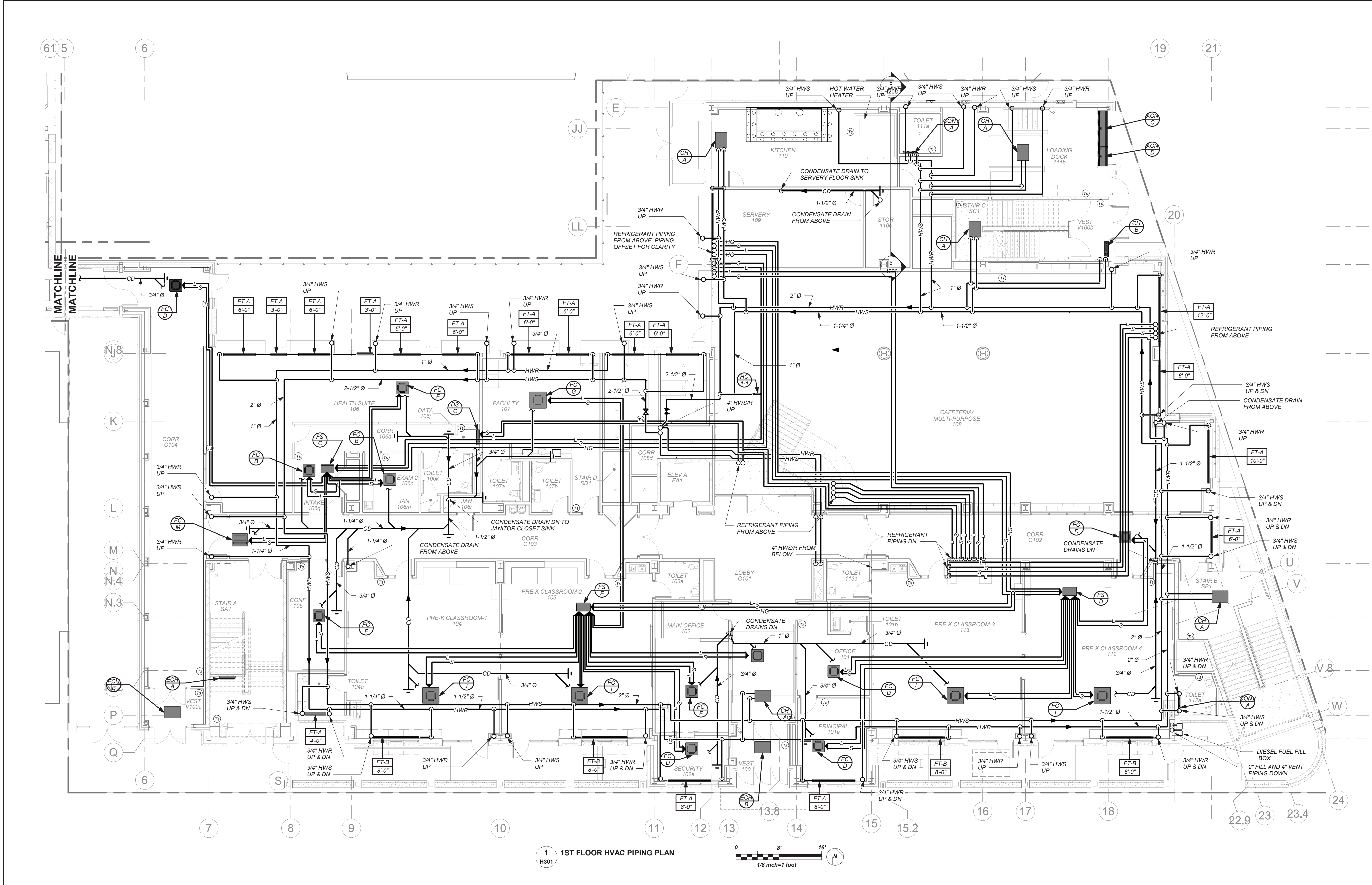
1st Floor Piping

Job No. 2019-1026 Date 08/24/21

Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number

H301



1 1ST FLOOR HVAC PIPING PLAN



HOT WATER PIPING:
HOT WATER SUPPLY AND RETURN LOOP IS LOCATED IN FIRST FLOOR CEILING. DOWNFEED TO FIRST FLOOR TERMINAL UNITS AND UPFEED TO SECOND FLOOR TERMINAL UNITS. SEE DETAIL TH603 FOR PIPING RISER DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING, SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

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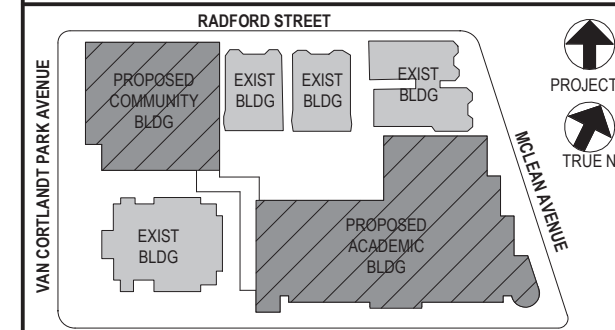
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SEE FIRST FLOOR PIPING PLAN FOR HOT WATER SUPPLY AND RETURN LOOP UPFEEDING SECOND FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM.

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

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Job No.	Date
2010-1026	08/24/24

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Sheet Number

H302

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CONSTRUCTION BOARD
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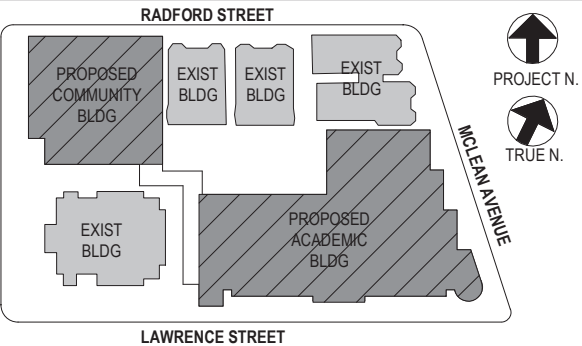


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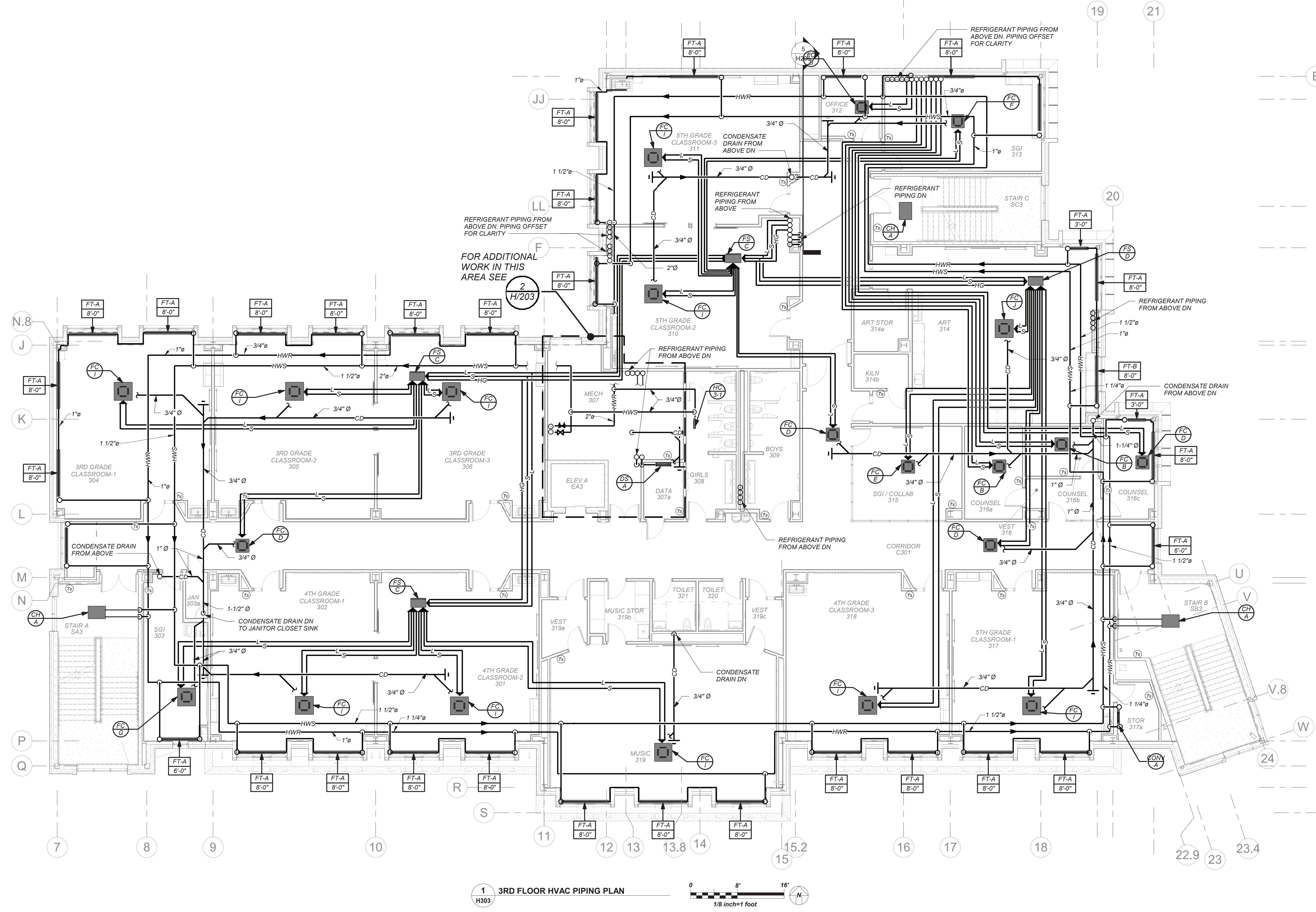
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1	08/31/2020	SCHEMATIC DESIGN			
No.	Date	Issue			

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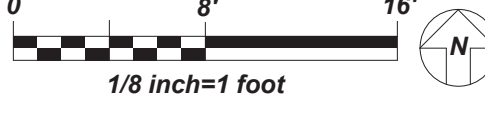
3rd Floor Piping

Job No.	2019-1026	Date	08/24/21
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Sheet Number			

H303



1 H303 3RD FLOOR HVAC PIPING PLAN



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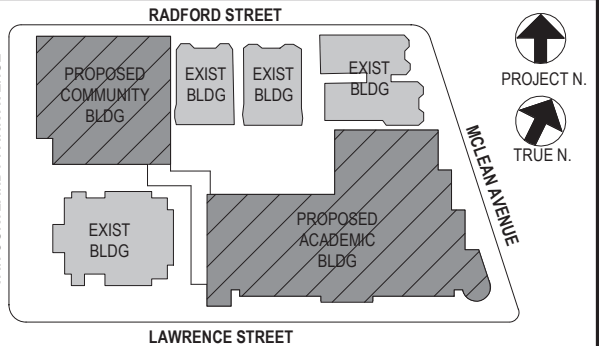


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4	11/01/2021	ISSUED TO BID			
3	07/14/2021	CONSTRUCTION DOCS-NYSED			
2	12/15/2020	DESIGN DEVELOPMENT			
1	08/31/2020	SCHEMATIC DESIGN			
No.	Date	Issue			

Sheet Title

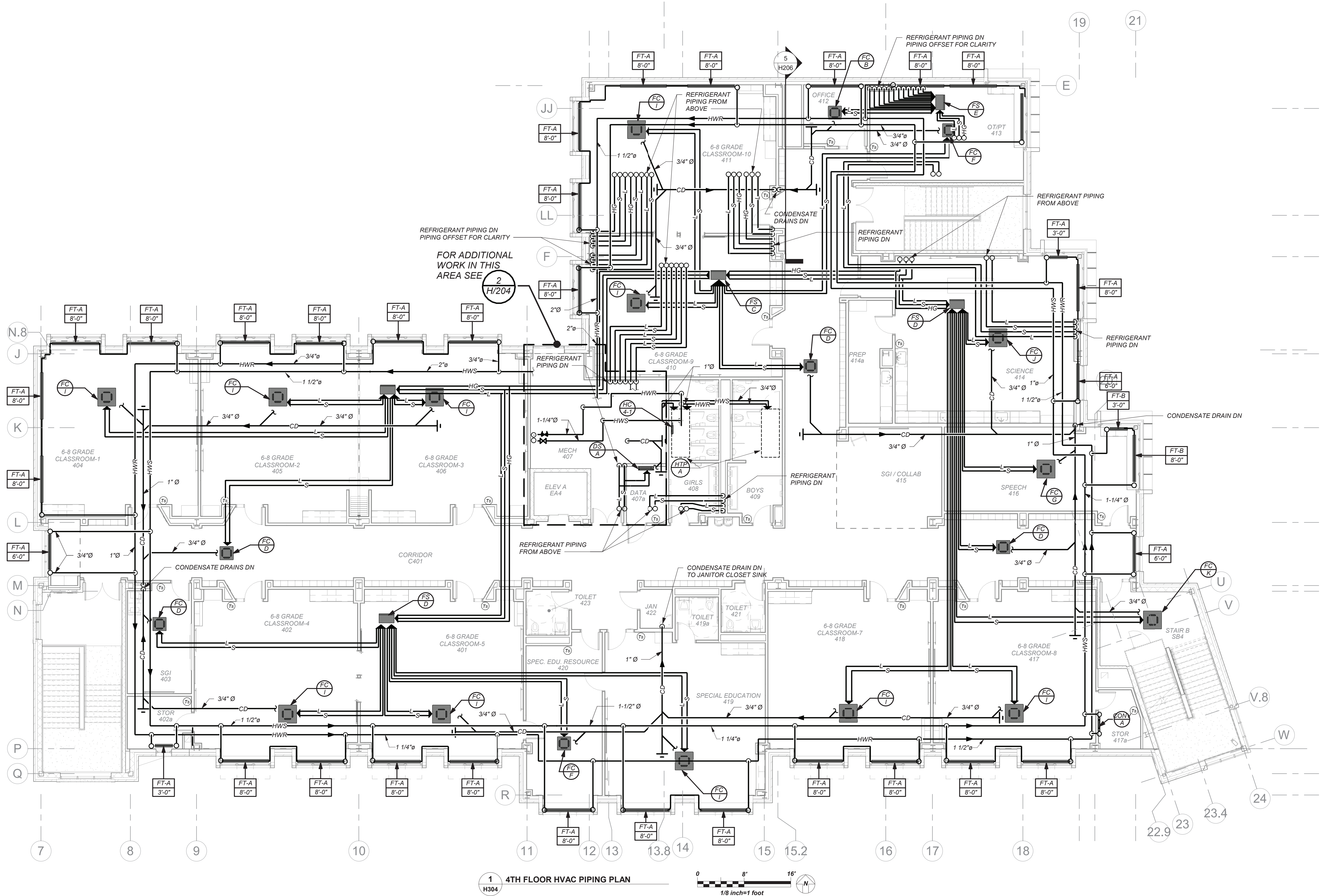
4th Floor Piping

Job No. 2019-1026 Date 08/24/21

Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number

H304



HOT WATER PIPING:
HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN THIRD FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO FOURTH FLOOR TERMINAL UNITS. SEE DETAIL 1H503 FOR PIPING RISER DIAGRAM.

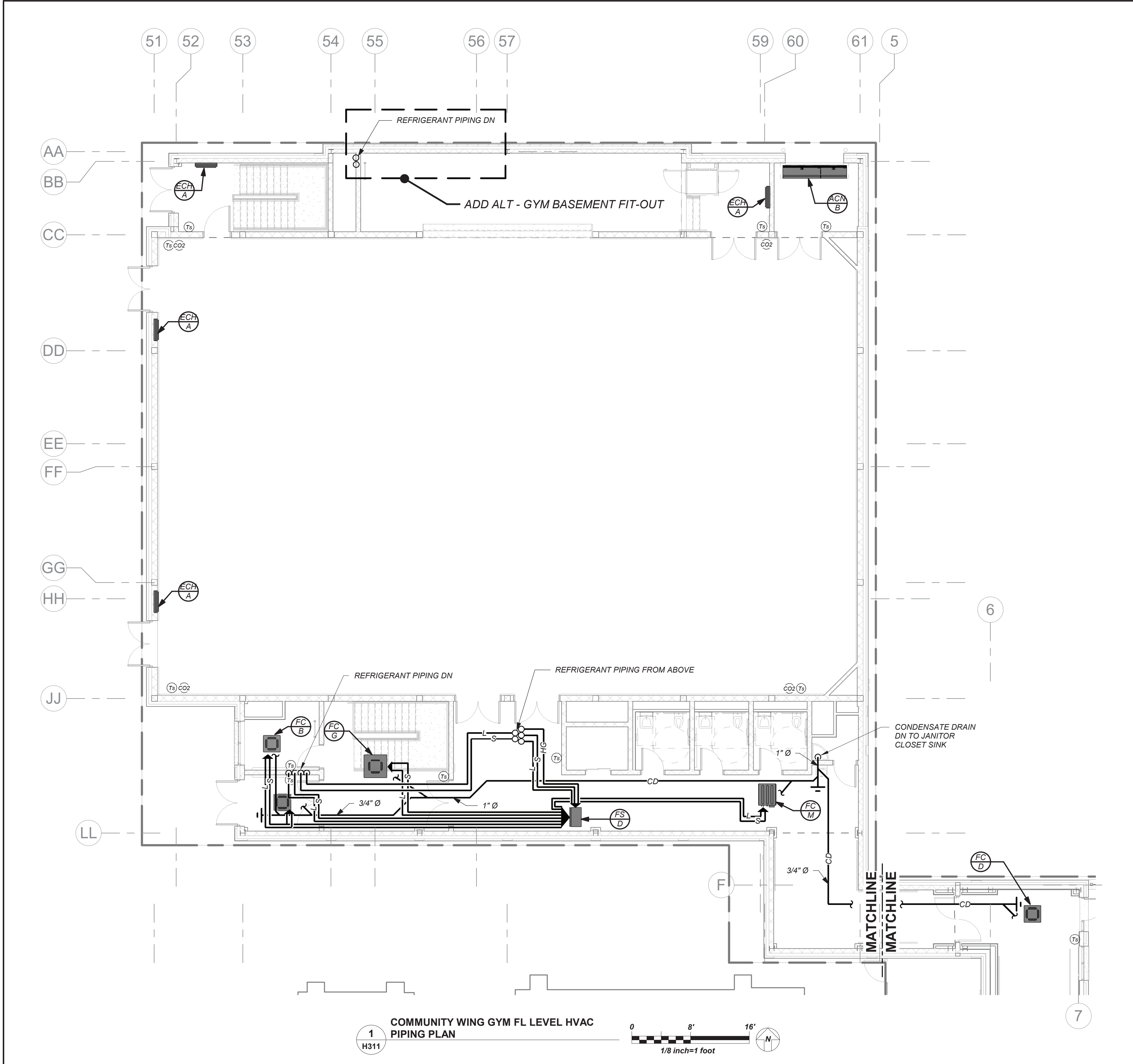
VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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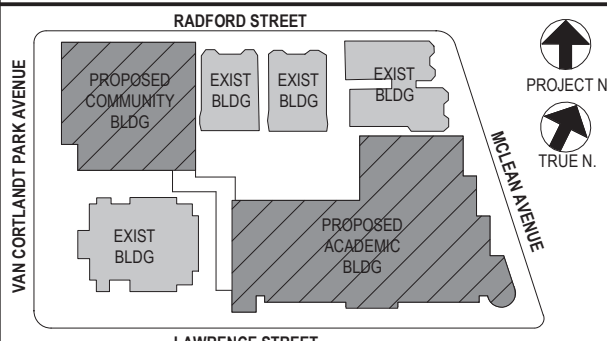
PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

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3	07/14/2021	CONSTRUCTION DOCS-NYSED
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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

Community Wing 1st Floor Piping

Job No.	2019-1026	Date	10/19/21
Scale	AS NOTED	Drawn / Checked	BGA/ BGA

Sheet Number

H311

SCHEDULE OF VENTILATION AIR FANS									
MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	CFM	TOT. S.P. IN H ₂ O	HP	ELECTRIC SERVICE	REMARKS
(SF 1)	VENTILATION AIR	COMMUNITY FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	220	0.50	1/3	120/1/60	REFER TO ②③④
(SF 2)	VENTILATION AIR	ACADEMIC FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	250	0.50	1/3	120/1/60	REFER TO ②③④
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ INTAKE PLENUM SHALL BE INSULATED. ④ PROVIDE FAN WITH VARI-GREEN MOTOR SPEED CONTROL, OR EQUAL.									

SCHEDULE OF CABINET HEATERS									
MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA			MOTOR WAITS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
			MBH	CFM	GPM	PD.FT.			
(CH A)	CEILING MTD.	RC 1170 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
(CH B)	RECESSED WALL	RW 1120 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 112 A.W.T. ④ PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT. ⑤ UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS. ⑥ PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.									

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS													
MARK	BUILDING	SERVICE	H ₂ O DENSITY BTU/LR	EAT. (°F)	LAT. (°F)	EWI. (°F)	UNIT. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
(HC 1)	ACADEMIC	FIRST FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
(HC 2)	ACADEMIC	SECOND FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
(HC 3)	ACADEMIC	THIRD FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
(HC 4)	ACADEMIC	FOURTH FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
NOTES ① AS MANUFACTURED BY "NATIONWIDE COILS INC." ② AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P. ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH. ⑤ 5/8" TUBE AND ALUMINUM FINS. ⑥ GALVANIZED PITCHED CASING.													

SCHEDULE OF CEILING RADIANT PANELS									
MARK	MODEL No. ①	SIZE			CAPACITY DATA ②			REMARKS	
		WIDTH (IN.)	LENGTH (IN.)	FACE AREA (FT²)	BTU/H	GPM	PRESS. DROP Δ HEAD (FT)		
(HCP A)	TYPE LRP	24	96	8	MINIMUM	3500	0.5	1 FT. MAX	REFER TO ③④⑤
NOTES ① AS MANUFACTURED BY "STERLING". ② ENTERING WATER TEMPERATURE 122°F, 20° ΔT. ③ INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.									

SCHEDULE OF REGISTERS AND DIFFUSERS									
MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS	
(A)	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO ②③④	
(B)	CEILING REGISTER	RETURN	635	—			LAY IN	REFER TO ②③④	
(C)	CEILING REGISTER	EXHAUST	635	—			LAY IN	REFER TO ②③④	
(D)	SIDEWALL REGISTER	EXHAUST	96	—			SURFACE	REFER TO ②③④⑦	
(E)	SIDEWALL REGISTER	SUPPLY	920	DOUBLE DEFLECTION			SURFACE	REFER TO ②③④⑥⑦	
(F)	CIRCULAR DIFFUSER	SUPPLY	RCDA	360 DEGREE ADJUSTABLE THROW	BUTTERFLY		FREE HANG	REFER TO ②③④⑥⑦⑧	
(G)	SIDEWALL REGISTER	RETURN	96	—	OPPOSED BLADE		SURFACE	REFER TO ②③④⑦	
NOTES ① AS MANUFACTURED BY "PRICE". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT. ④ STEEL, HEAVY DUTY TYPE. ⑤ EQUALIZER GRID.									

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)									
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	2000 TO 2999	3000 TO 3999	4000 TO 4999
6x6	9x9	12x12	15x15	18x18	21x21	24x24	30x30	36x36	42x42

RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)									
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	2000 TO 2999	3000 TO 3999	4000 TO 4999
6x6	8x8	10x10	12x12	14x14	16x16	18x18	24x24	30x30	36x36

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS															
GENERAL DATA					OUTDOOR CONDENSING UNIT INFORMATION						ELECTRICAL INFORMATION			COP	REMARKS
MARK	BUILDING	SERVICE	LOCATION	MODEL No. ①	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	QTY.	MOTOR OUTPUT (KW)	(QTY.) & HP	MOTOR OUTPUT (KW)	V/PH/HZ	MCA	MOCP		
(HU 1A)	ACADEMIC	FIRST FLOOR ERU-1	ROOF	MULTI VS ARUM144 BTE5	144,000	162,000	2	8.0X2	2	1.0+1.0	208/3/60	51.1	70	3.2	REFER TO ②③④⑤
(HU 1B)	ACADEMIC	FIRST FLOOR ERU-2	ROOF	MULTI VS ARUN38 GSS4	38,000	42,000	1	8.0X1	2	1.0+1.0	208/1/60	25.0	40	3.2	REFER TO ②③④⑤
(HU 1C)	NOT USED	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(HU 2)	ACADEMIC	FIRST FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM241 BTE5	233,000	243,000	2	8.0X2	2	1.0+1.0	208/3/60	63.2	80	3.2	REFER TO ②③④⑤
(HU 3)	ACADEMIC	SECOND FLOOR ERU-4	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU 4)	ACADEMIC	SECOND FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM456 BTE5	456,000	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3	40+40+80	3.2	REFER TO ②③④⑤
(HU 5)	ACADEMIC	THIRD FLOOR ERU-5	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU 6)	ACADEMIC	THIRD FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM456 BTE5	455,700	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3	40+40+80	3.2	REFER TO ②③④⑤
(HU 7)	ACADEMIC	FOURTH FLOOR ERU-6	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU 8)	ACADEMIC	FOURTH FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM480 BTE5	476,000	540,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+51.1+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU 9)	ACADEMIC	FIRST FLOOR CAFETERIA ERUO-1	ROOF	MULTI VS ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU 10)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI VS ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU 11)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI VS ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU 12)	ACADEMIC	FIRST FLOOR MEDICAL SUITE INDOOR UNITS	ROOF	MULTI VS ARUM144 BTE5	144,000	162,000	2	8.0X2	1	1.0+1.0	208/3/60	51.1	70	3.4	REFER TO ②③④⑤
(HU 13)	ACADEMIC	SECOND, THIRD, FOURTH FLOOR OFFICES	ROOF	MULTI VS ARUM072 BTE5	72,000	81,000	1	8.0X1	1	1.0	208/1/60	22.6	35	3.4	REFER TO ②③④⑤
(HU 14)	COMMUNITY	GYMNASIUM ERUO-3	ROOF	MULTI VS ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU 15)	COMMUNITY	TLTS./LCKRS./LOBBY/OFFICES	ROOF	MULTI VS ARUM121 BTE5	119,700	135,000	1	8.0X1	1	1.0	208/3/60	30.9	40	3.4	REFER TO ②③④⑤
(HU 16)	COMMUNITY	TLTS./LCKRS./ERU-8	ROOF	MULTI VS ARUM216 BTE5	216,100	243,000	2	8.0X2	2	1.0+1.0	208/3/60	60.3	80	3.2	REFER TO ②③④⑤⑥
NOTES	① AS MANUFACTURED BY "LG".														
	② COOLING BASED ON A.R.I. CONDITIONS.														
	③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.														
	④ PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.														
	⑤ PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.														
	⑥ ADD ALTERNATE - GYM BASEMENT FITOUT.														

SCHEDULE OF EXHAUST FANS													
MARK	BUILDING	SERVICE	LOCATION	MODEL # ①	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS
(EF 1)	ACADEMIC	ART STORAGE/ SCIENCE PREP ROOM	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③
(EF 2)	ACADEMIC	FIRST FLOOR RECEIVING TOILET	CEILING	SP-A130-VG	CEILING CABINET	100	0.25	960	(25)	120/1/60	14x11x9	15	REFER TO ②③
(EF 3)	ACADEMIC	FIRST FLOOR RECEIVING	RECEIVING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③
(EF 4)	ACADEMIC	FIRST FLOOR LOADING DOCK	LOADING DOCK	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③
(EF 5)	ACADEMIC	FIRST FLOOR KITCHEN HOOD	ROOF	CUBE-200HP	UP-BLAST CENTRIF.	4000	2.0	1600	3.0	208/3/60	30x30x28	150	REFER TO ②④⑤
(EF 6)	ACADEMIC	FIRST/SECOND FLOOR TOILET EAST	ROOF	G-097-VG	CENTRIFUGAL	200	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③
(EF 7)	ACADEMIC	FIRST FLOOR NURSE TOILET/JAN. CLST.	CEILING	GSPA-A125	IN-LINE CENTRIFUGAL	150	0.25	980	(23)	120/1/60	13x10x9	20	REFER TO ②③
(EF 8)	ACADEMIC	FIRST FLOOR FACULTY TOILETS	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③
(EF 9)	ACADEMIC	FIRST/SECOND FLR. TOILETS/JAN. CLST. WEST	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③
(EF 10)	ACADEMIC	FIRST FLOOR FACULTY KITCHENETTE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③
(EF 11)	ACADEMIC	SECOND FLOOR TECHNOLOGY/MAKER SPACE	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③
(EF 12)	COMMUNITY	STORAGE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③
(EF 13)	COMMUNITY	1ST FLOOR TOILETS	ROOF	G-098-VG	CENTRIFUGAL	350	0.50	1200	1/4	120/1/60	19x19x24	60	REFER TO ②③
(EF 14)	ACADEMIC	FIRST FLOOR NURSE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	250	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE ROOF CURB, FACTORY MOUNTED NEMA 3P DISCONNECT, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER AND MOTORIZED DAMPER. ④ PROVIDE ROOF CURB WITH VENTED EXTENSION, HINGED BASE KIT, AUTOMATIC BELT TENSIONER, WEATHER PROOF FACTORY MOUNTED DISCONNECT SWITCH. ⑤ PROVIDE ONE WALL MOUNTED EMERGENCY ON/OFF SWITCH TO DEACTIVATE EXHAUST FAN AND MAKE-UP AIR UNIT SUPPLY FAN. LABEL FAN SWITCH AS FOLLOWS: "EMERGENCY EXHAUST FAN/MAKE-UP AIR UNIT SHUT DOWN". ⑥ PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH.													

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YONKERS, NY 10705

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KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.686.5900 KGDARCHITECTS.COM

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YONKERS, NY 10705



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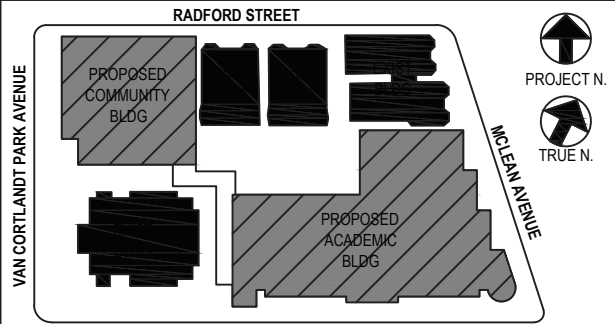
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS
99 MARBLE AVE. PLANTATSVILLE, NY 10570
914.326.0599 GENERAL@BGAINC.COM WWW.BGAINC.COM



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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue
Sheet Title		

SCHEDULES

Job No. 2019-1026 Date 11/18/20

Scale AS NOTED Drawn / Checked BGABGA

Sheet Number

H402

ACADEMIC BUILDING THIRD FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
4th Grade Classroom- 2 301	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
4th Grade Classroom- 1 302	CLASSROOM (AGES 9+)	810	35	10	0.12	0	29	387	0.8	484	0
SGI 303	OFFICE SPACE	275	5	5	0.06	0	2	27	0.8	33	0
Janitor's Closet 303a	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	30	0	0	0	1	0	0	0.8	0	30
3rd Grade Classroom- 1 304	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
3rd Grade Classroom- 2 305	CLASSROOM (AGES 9+)	820	35	10	0.12	0	29	388	0.8	486	0
3rd Grade Classroom- 3 306	CLASSROOM (AGES 9+)	855	35	10	0.12	0	30	403	0.8	503	0
Mech 307	WOOD/METAL SHOP	450	20	10	0.18	0.5	9	171	0.8	214	225
Data 307a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girl's Toilet 308	CELL W/ TOILET	210	25	5	0.12	1	6	55	0.8	69	210
Boy's Toilet 309	CELL W/ TOILET	215	25	5	0.12	1	6	56	0.8	70	215
5th Grade Classroom- 2 310	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
5th Grade Classroom- 3 311	CLASSROOM (AGES 9+)	845	35	10	0.12	0	30	401	0.8	502	0
Office 312	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
SGI 313	OFFICE SPACE	440	5	5	0.06	0	3	41	0.8	52	0
Art 314	ART CLASSROOM	1020	20	10	0.18	0.7	21	394	0.8	492	714
Storage 314a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	90	2	5	0.06	0	1	10	0.8	13	0
Kin 314b	ART CLASSROOM	50	20	10	0.18	0.7	1	19	0.8	24	35
SGI/Collab 315	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Vestibule 316	LOBBIES/PREFUNCTION	80	30	7.5	0.06	0	3	27	0.8	34	0
Counseling 316a	OFFICE SPACE	155	5	5	0.06	0	1	14	0.8	18	0
Counseling 316b	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Counseling 316c	OFFICE SPACE	150	5	5	0.06	0	1	14	0.8	18	0
5th Grade Classroom- 3 317	CLASSROOM (AGES 9+)	795	35	10	0.12	0	28	375	0.8	469	0
4th Grade Classroom- 3 318	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
Music 319	MUSIC/THEATRE/DANCE	990	35	10	0.06	0	35	409	0.8	512	0
Vestibule 319a	LOBBIES/PREFUNCTION	65	30	7.5	0.06	0	2	19	0.8	24	0
Music Storage 319b	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	105	2	5	0.06	0	1	11	0.8	14	0
Vestibule 319c	LOBBIES/PREFUNCTION	55	30	7.5	0.06	0	2	18	0.8	23	0
Toilet 320	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Toilet 321	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Corridor C301	CORRIDORS	2029	0	0	0.06	0	0	122	0.8	152	0
Corridor C302	CORRIDORS	435	0	0	0.06	0	0	26	0.8	33	0

ACADEMIC BUILDING FOURTH FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
6-8 Grade Classroom- 5 401	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
6-8 Grade Classroom- 4 402	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
Storage 402a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	100	2	5	0.06	0	1	11	0.8	14	0
SGI 403	OFFICE SPACE	200	5	5	0.06	0	1	17	0.8	21	0
6-8 Grade Classroom- 1 404	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 2 405	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 3 406	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
Mech 407	WOOD/METAL SHOP	440	20	10	0.18	0.5	9	169	0.8	212	220
Data 407a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girl's Toilet 408	CELL W/ TOILET	200	25	5	0.12	1	5	49	0.8	61	200
Boy's Toilet 409	CELL W/ TOILET	205	25	5	0.12	1	6	55	0.8	68	205
6-8 Grade Classroom- 9 410	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 10 411	CLASSROOM (AGES 9+)	835	35	10	0.12	0	30	400	0.8	500	0
Office 412	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
OTPT 413	DAYCARE SICKROOM	435	25	10	0.18	0	11	188	0.8	235	0
Science 414	SCIENCE LABORATORIES	940	25	10	0.18	1	24	409	0.8	512	940
Prep 414a	SCIENCE LABORATORIES	150	25	10	0.18	1	4	67	0.8	84	150
SGI/Collab 415	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Speech 416	CLASSROOM (AGES 9+)	495	35	10	0.12	0	18	239	0.8	289	0
6-8 Grade Classroom- 8 417	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 7 418	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Special Education 419	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Toilet 419a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Special Ed. Resource 420	CLASSROOM (AGES 9+)	360	35	10	0.12	0	13	173	0.8	217	0
Toilet 421	CELL W/ TOILET	60	25	5	0.12	1	2	17	0.8	22	60
Janitor's Closet 422	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	35	0	0	0	1	0	0	0.8	0	35
Toilet 423	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Corridor C401	CORRIDORS	2785	0	0	0.06	0	0	167	0.8	209	0

ACADEMIC BUILDING BASEMENT - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Fire Pump B01	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	280	2	5	0.06	0	1	22	0.8	27	0
Storage B02	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	305	2	5	0.06	0	1	23	0.8	29	0
Copy B03	COMPUTER LAB	295	25	10	0.12	0	8	115	0.8	144	0
Generator B07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	700	2	5	0.06	0	2	52	0.8	65	0
Electric B08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	395	2	5	0.06	0	1	29	0.8	36	0
Mechanical Room B09	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	965	2	5	0.06	0	2	68	0.8	85	0
Storage B10	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	400	2	5	0.06	0	1	29	0.8	36	0
Corridor CB01	CORRIDORS	580	0	0	0.06	0	0	35	0.8	44	0
Corridor CB02	CORRIDORS	255	0	0	0.06	0	0	15	0.8	19	0

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

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COMMUNITY BUILDING LOWER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
P.E. Office GB03	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Toilet GB04	CELL W/ TOILET	110	25	5	0.12	1	3	28	0.8	35	110
Coach's Office GB05	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Storage GB06	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	255	2	5	0.06	0	1	20	0.8	25	0
Mechanical Room GB07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	420	2	5	0.06	0	1	30	0.8	38	0
Storage GB08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	160	2	5	0.06	0	1	15	0.8	18	0
Girls Locker Room GB09	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE	345	0	0	0	0.5	0	0	0.8	0	173
Girls Toilet GB10	CELL W/ TOILET	225	25	5	0.12	1	6	57	0.8	71	225
Boys Toilet GB11	CELL W/ TOILET	220	25	5	0.12	1	6	56	0.8	71	220
Boys Locker Room GB12	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	345	0	0	0	0.5	0	0	0.8	0	173
Vestibule GC01	CORRIDORS	290	0	0	0.06	0	0	17	0.8	22	0

COMMUNITY BUILDING GYM FLOOR LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Corridor GC01	CORRIDORS	927	0	0	0.06	0	0	56	0.8	70	0
Security Office G102	OFFICE SPACE	95	5	5	0.06	0	1	11	0.8	13	0
Toilet G107	CELL W/ TOILET	58	25	5	0.12	1	2	17	0.8	21	58
Toilet 2	OFFICE SPACE	58	5	5	0.06	0	1	8	0.8	11	0
Toilet 3	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	58	2	5	0.06	0	1	8	0.8	11	0
Janitor Closet G107	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	37	2	5	0.06	0	1	7	0.8	9	0
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5990	120	5	0.06	0	707	3888	0.8	4861	0
Stage G104	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	467	0	0	0	0.5	0	0	0.8	0	234

COMMUNITY BUILDING UPPER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5940	120	5	0.06	0	713	3921	0.8	4902	0
Stage G104	STAGES, STUDIOS	490	70	10	0.06	0	35	379	0.8	474	0

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YONKERS, NY 10705



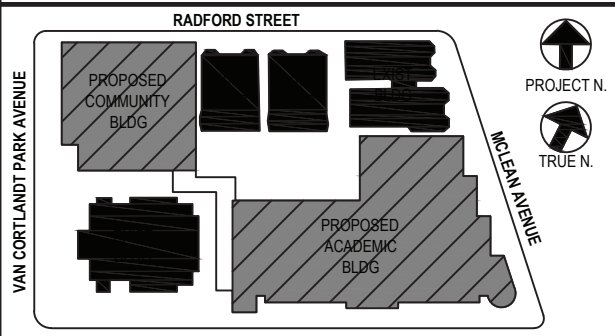
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CONSTRUCTION DOCUMENTS



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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

SCHEDULES

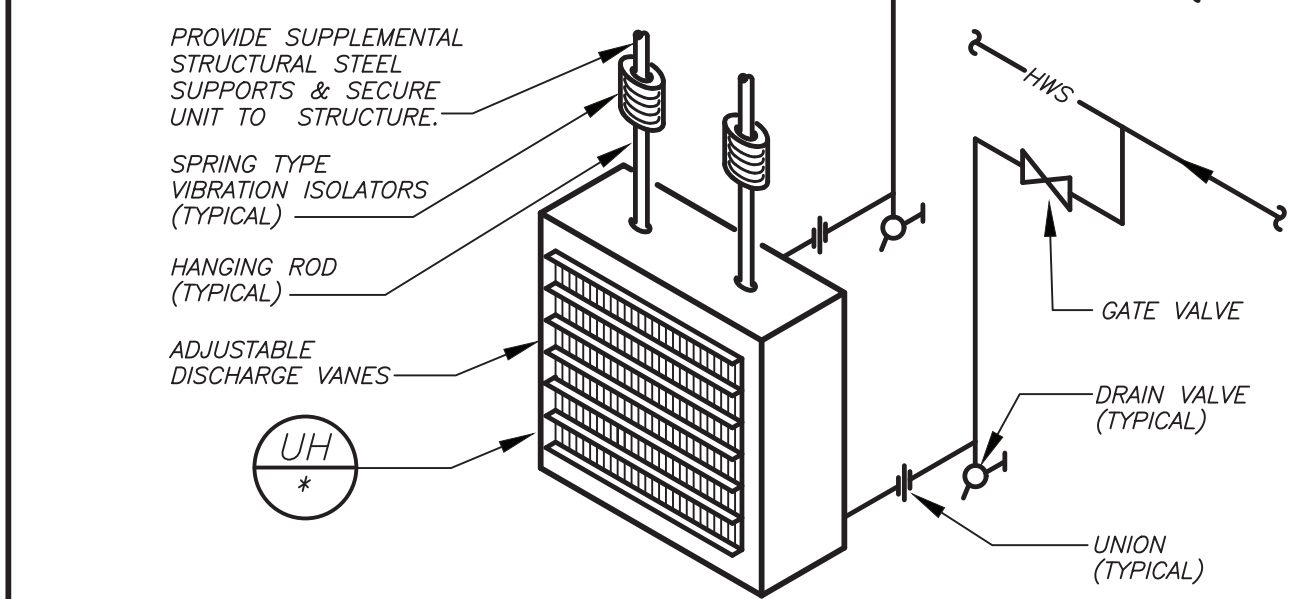
Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA

Sheet Number

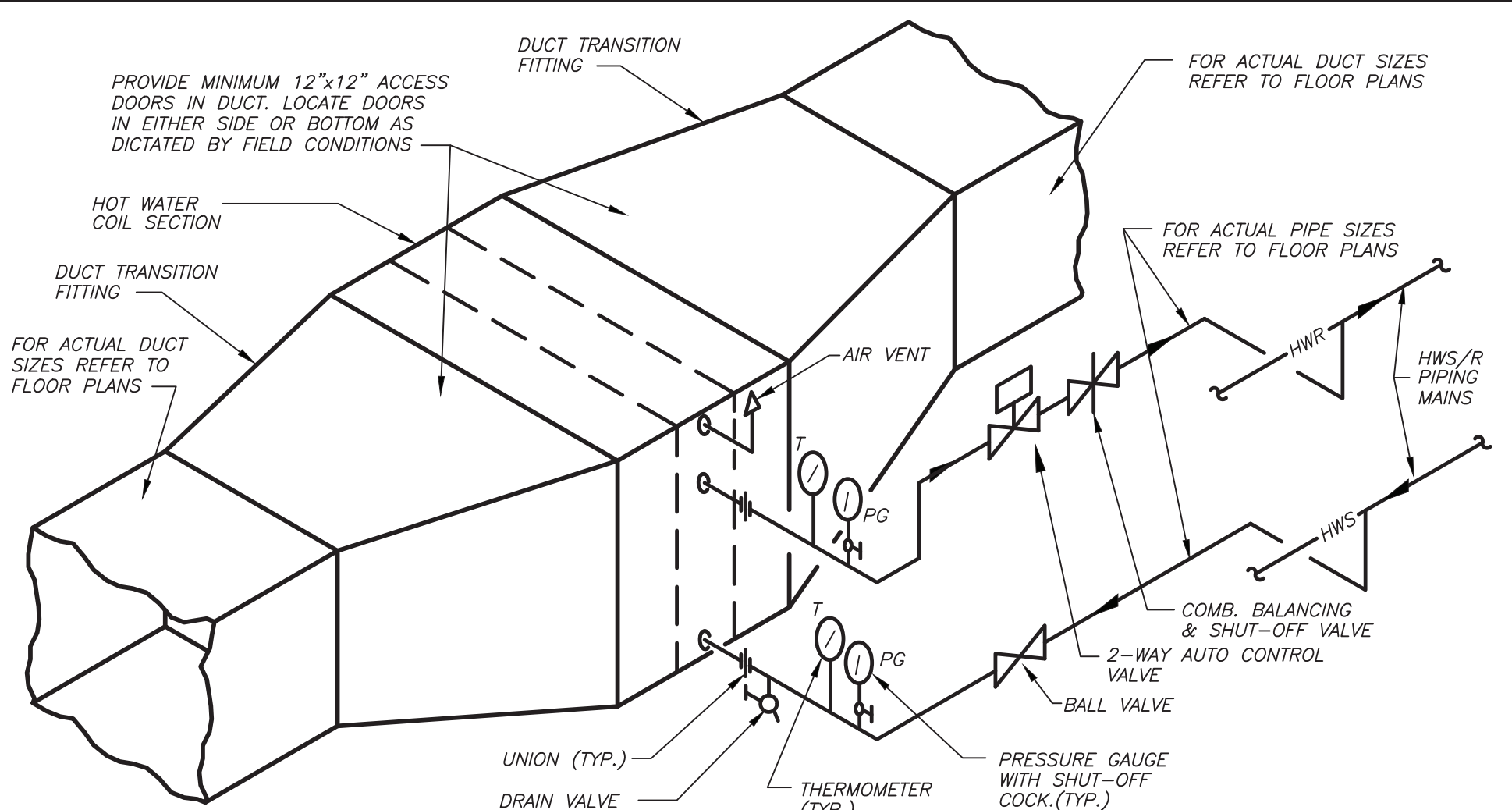
H403

SCHEDULE OF UNIT HEATERS							
MARK	MODEL NO.	CAP. BTU/HR	ZWT 1/2"	LWT 1/2"	OPM 1/2"	MOTOR WATTS	ELECTRIC SERVICE
UH	HS-36	26,000	122	102	3.0	25	120/1/60

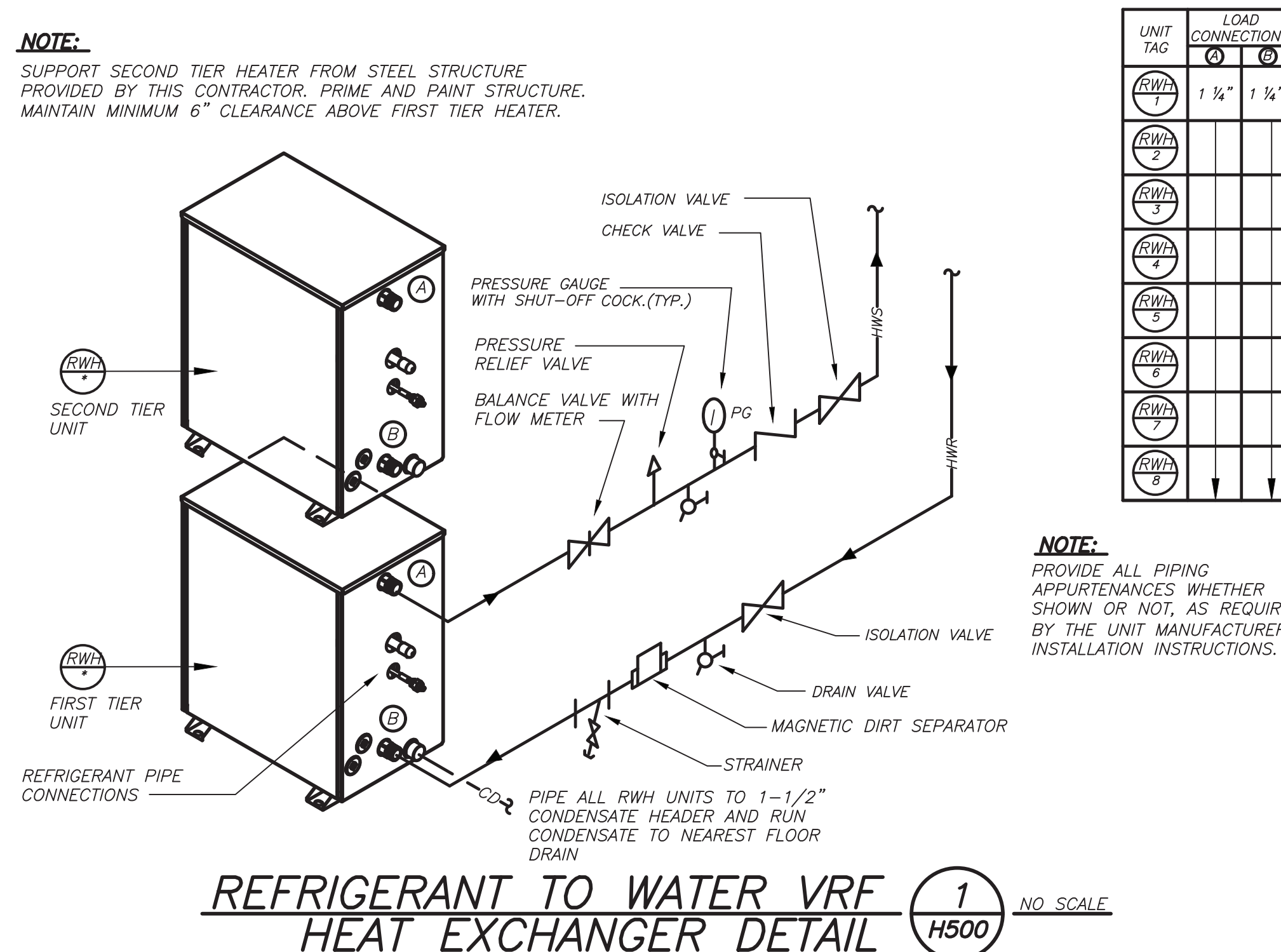
AS MANUFACTURED BY "STERLING CO." INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 555 CFM @ 1550 RPM.



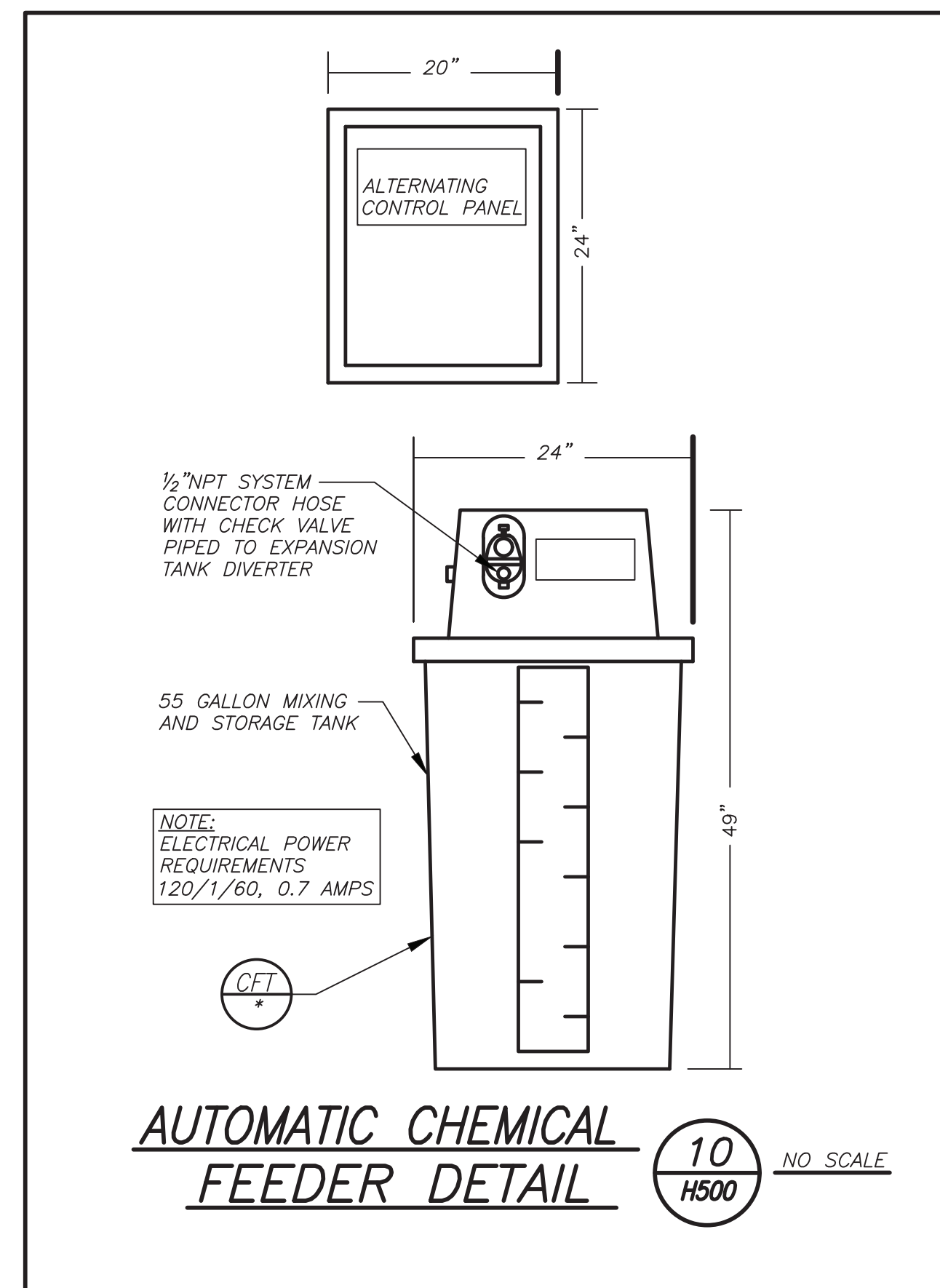
PIPING CONNECTION TO UNIT HEATER DETAIL 9 H500 NO SCALE



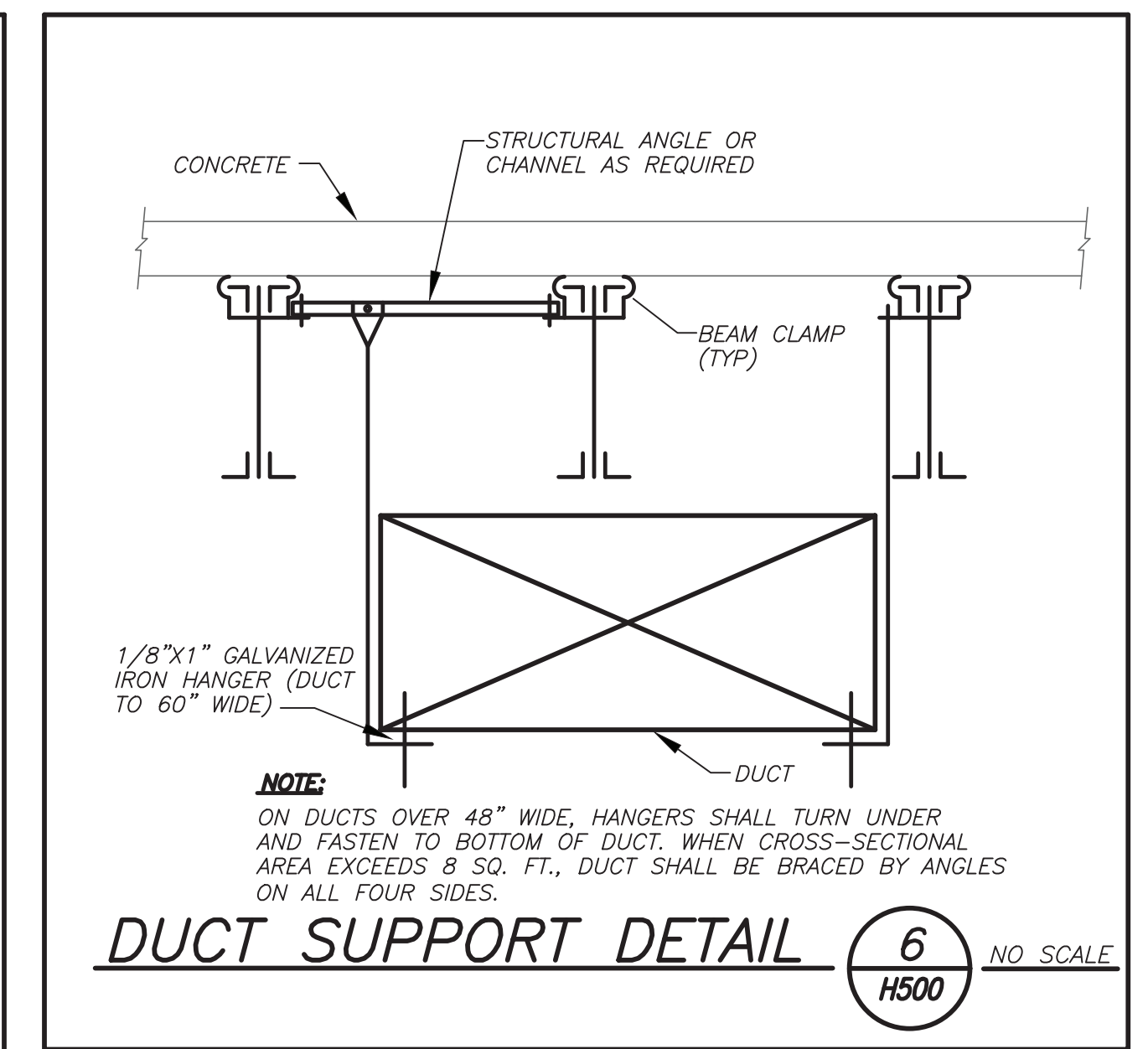
DUCT MTD. WATER COIL PIPING CONNECTION DETAIL 5 H500 NO SCALE



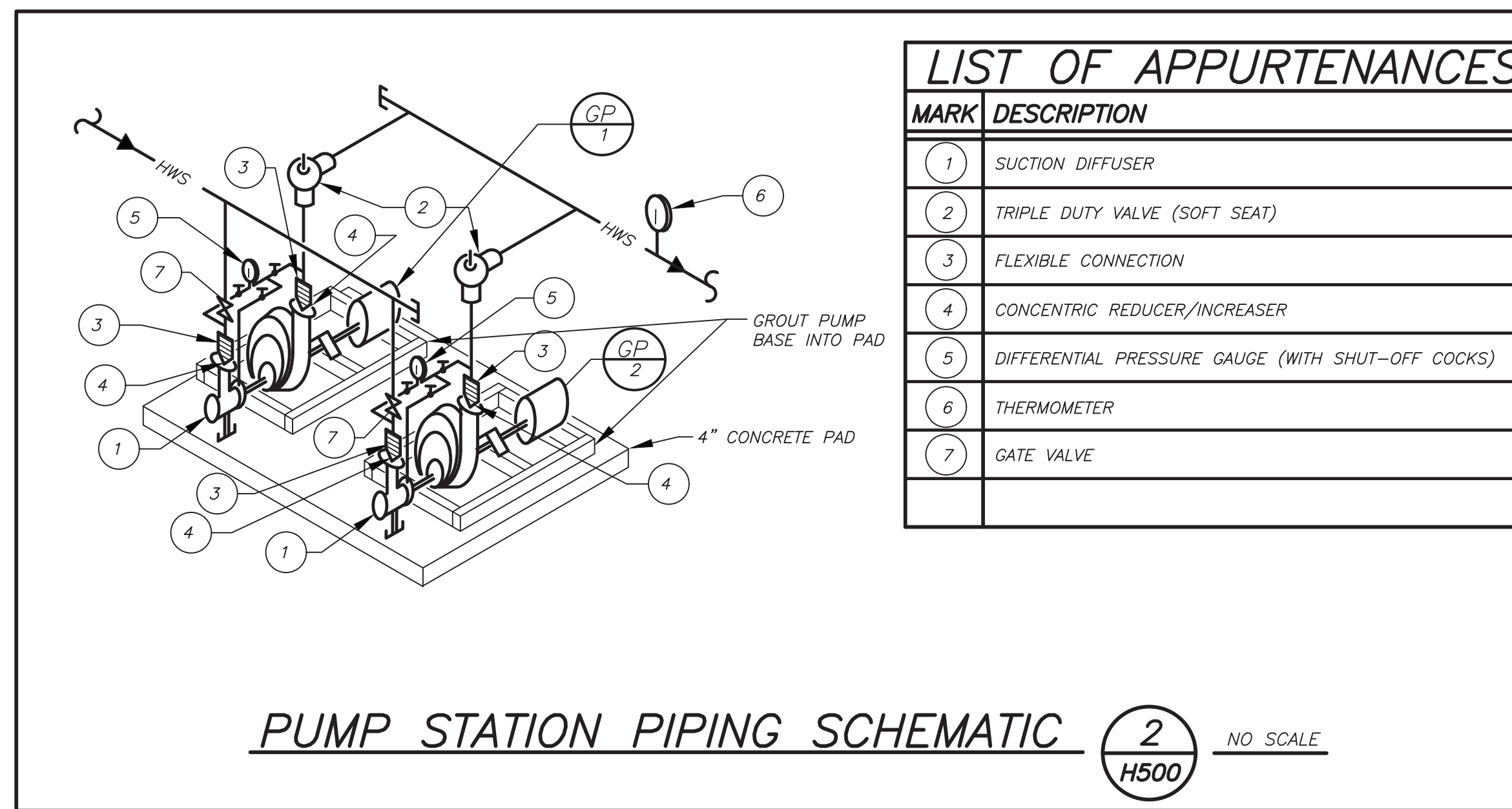
REFRIGERANT TO WATER VRF HEAT EXCHANGER DETAIL 1 H500 NO SCALE



AUTOMATIC CHEMICAL FEEDER DETAIL 10 H500 NO SCALE

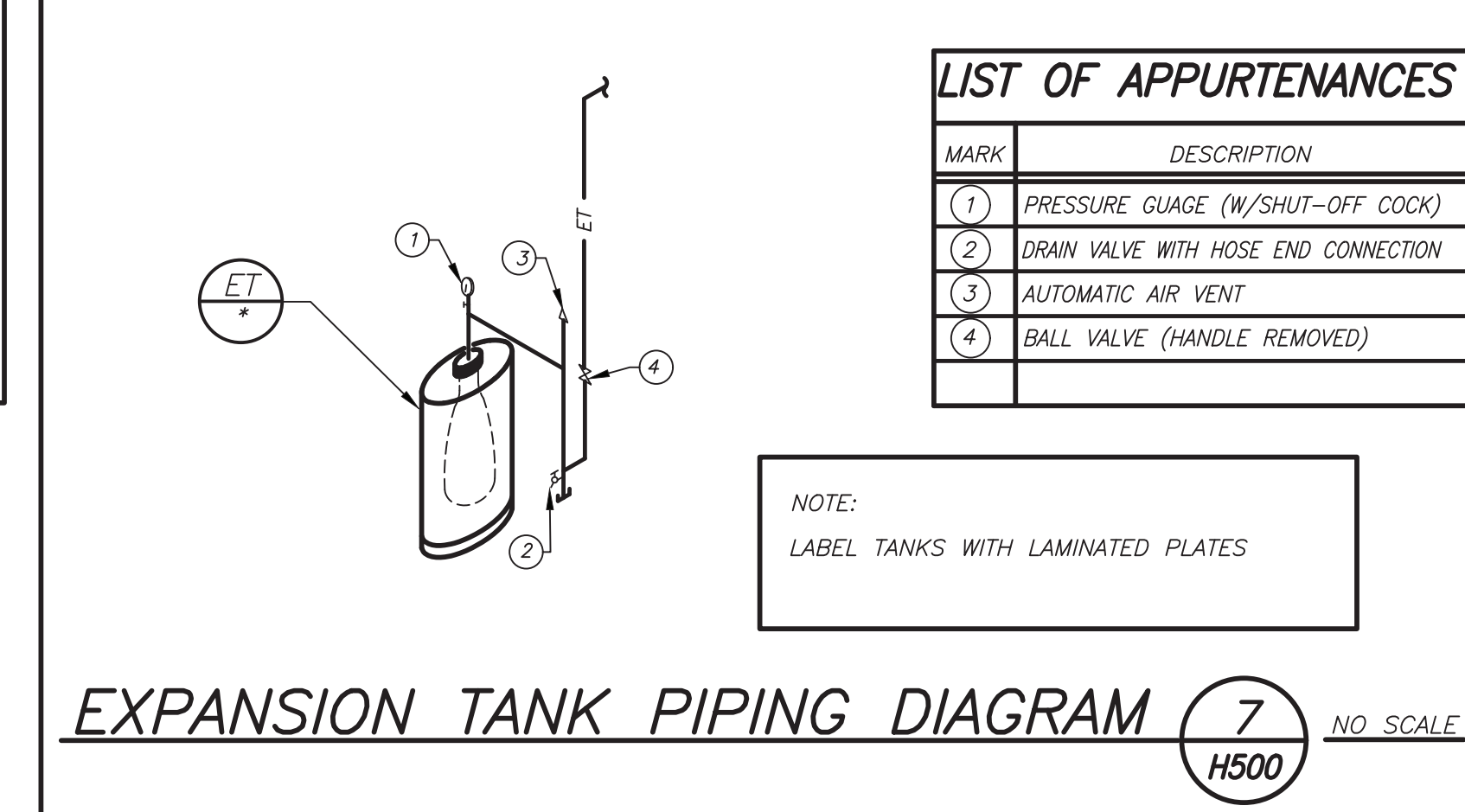


DUCT SUPPORT DETAIL 6 H500 NO SCALE

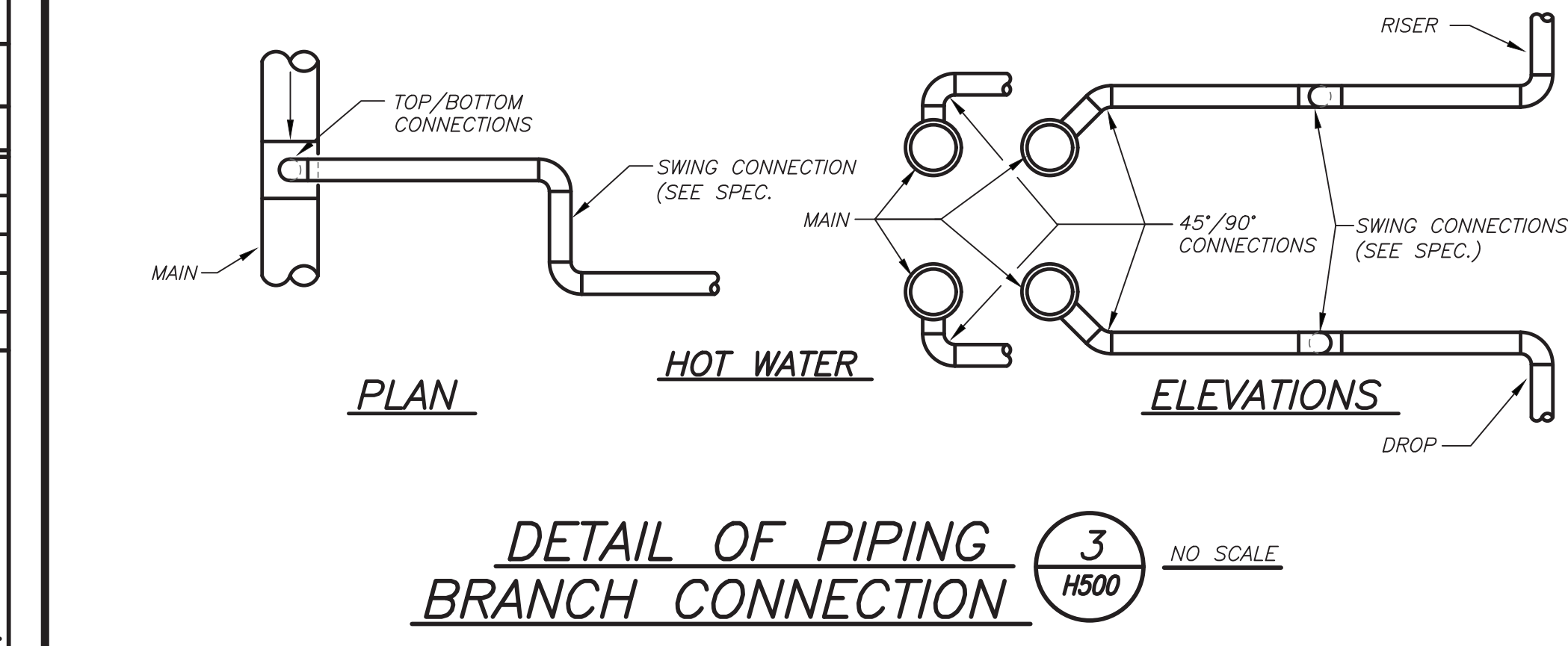


PUMP STATION PIPING SCHEMATIC 2 H500 NO SCALE

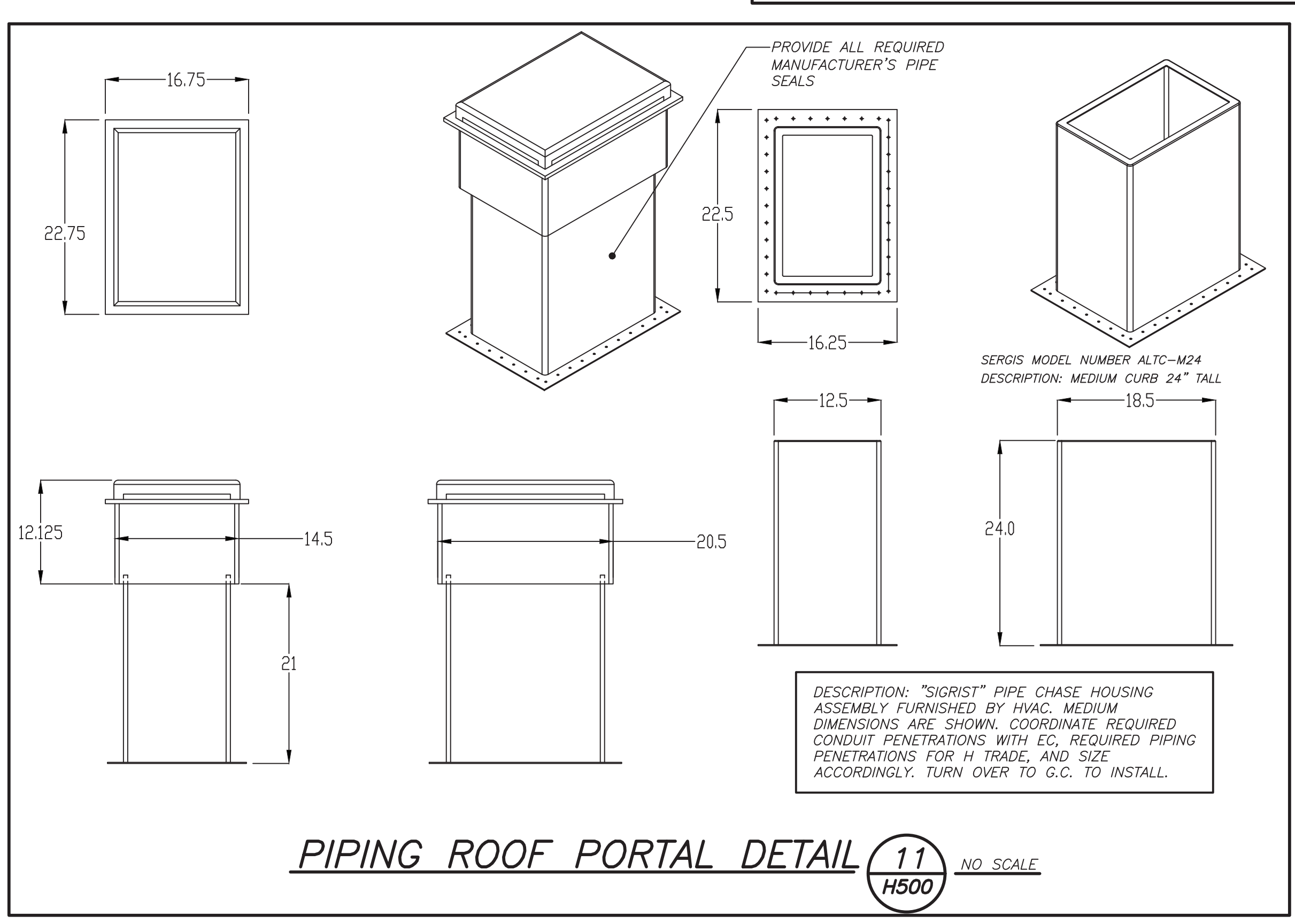
MARK	DESCRIPTION
1	SUCTION DIFFUSER
2	TRIPLE DUTY VALVE (SOFT SEAT)
3	FLEXIBLE CONNECTION
4	CONCENTRIC REDUCER/INCREASER
5	DIFFERENTIAL PRESSURE GAUGE (WITH SHUT-OFF COCKS)
6	THERMOMETER
7	GATE VALVE



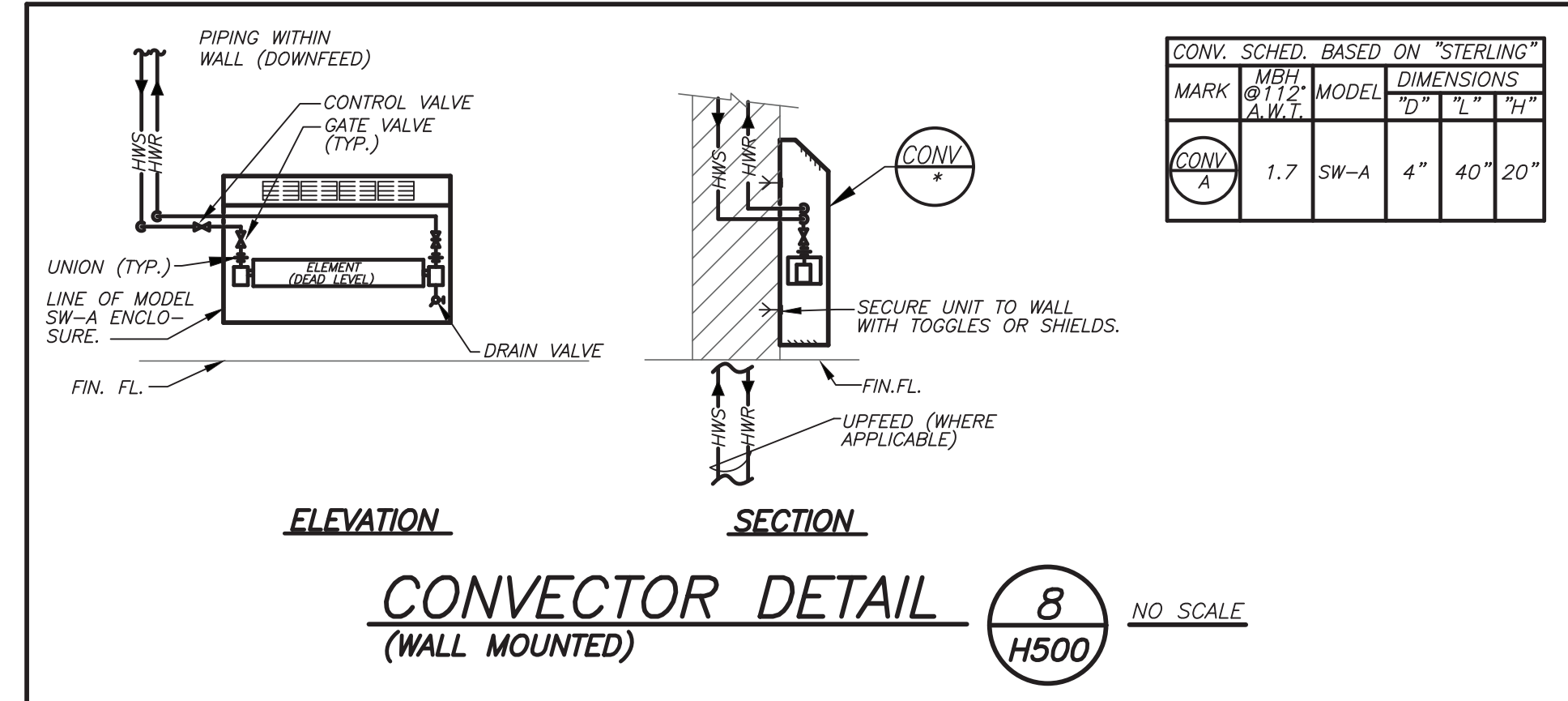
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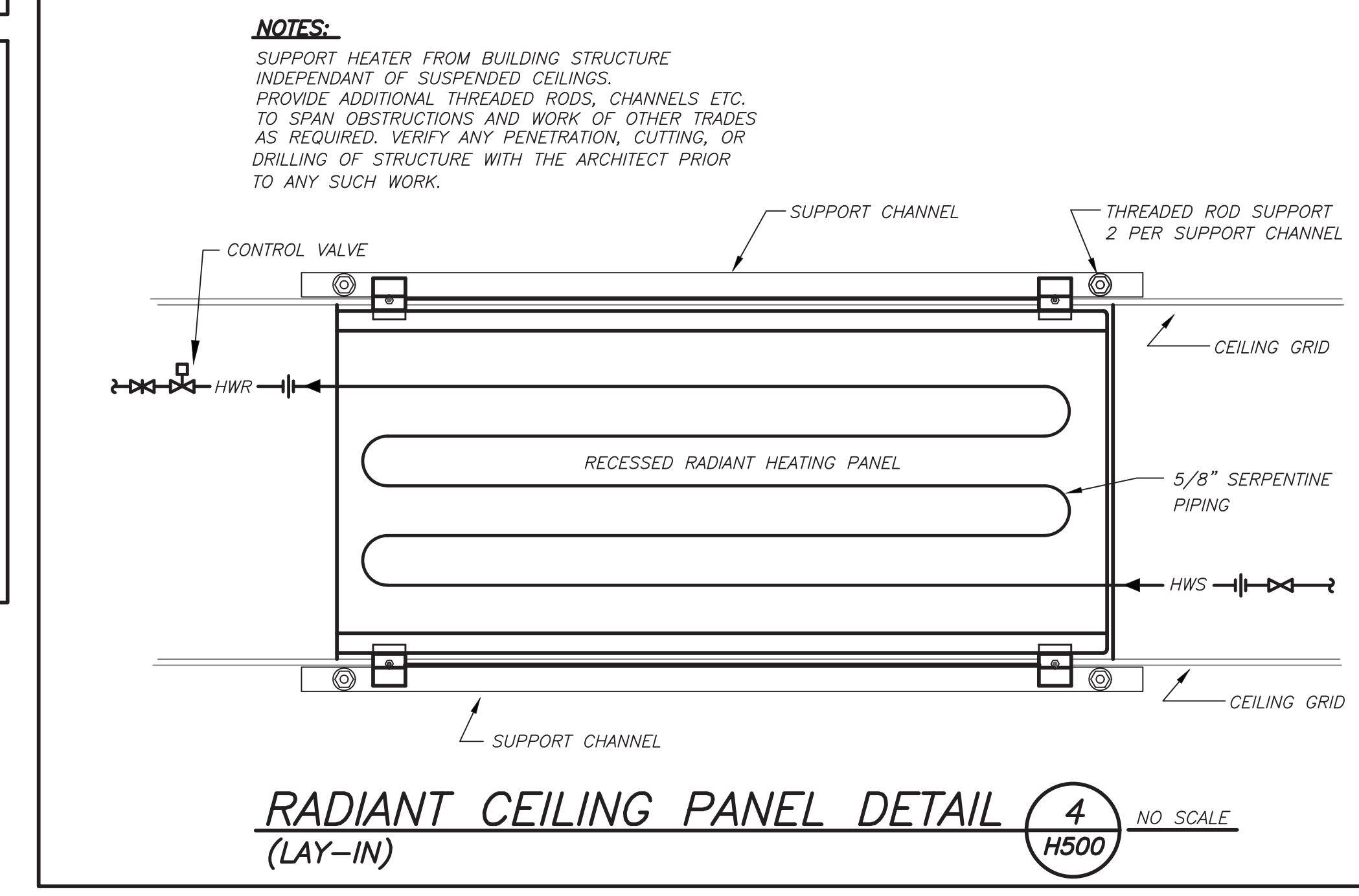
DETAIL OF PIPING BRANCH CONNECTION 3 H500 NO SCALE



PIPING ROOF PORTAL DETAIL 11 H500 NO SCALE



CONVECTOR DETAIL 8 H500 NO SCALE



RADIANT CEILING PANEL DETAIL 4 H500 NO SCALE

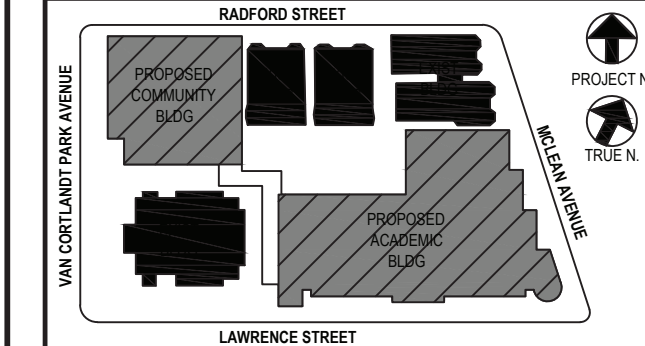
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YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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YONKERS, NY 10705

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P.914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

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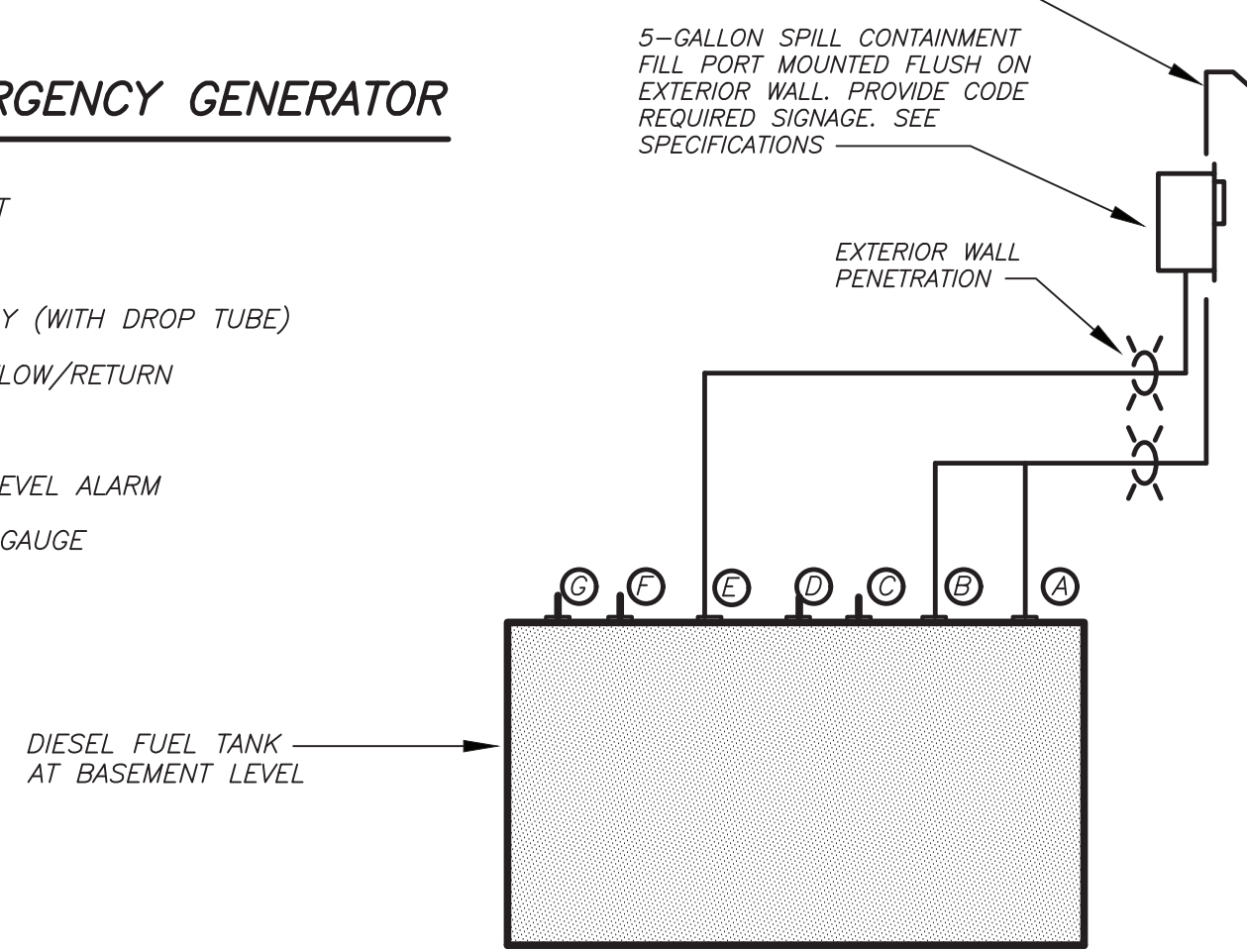
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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Job No. 2019-1026 Date 11/18/20
Scale AS NOTED Drawn / Checked BGABGA
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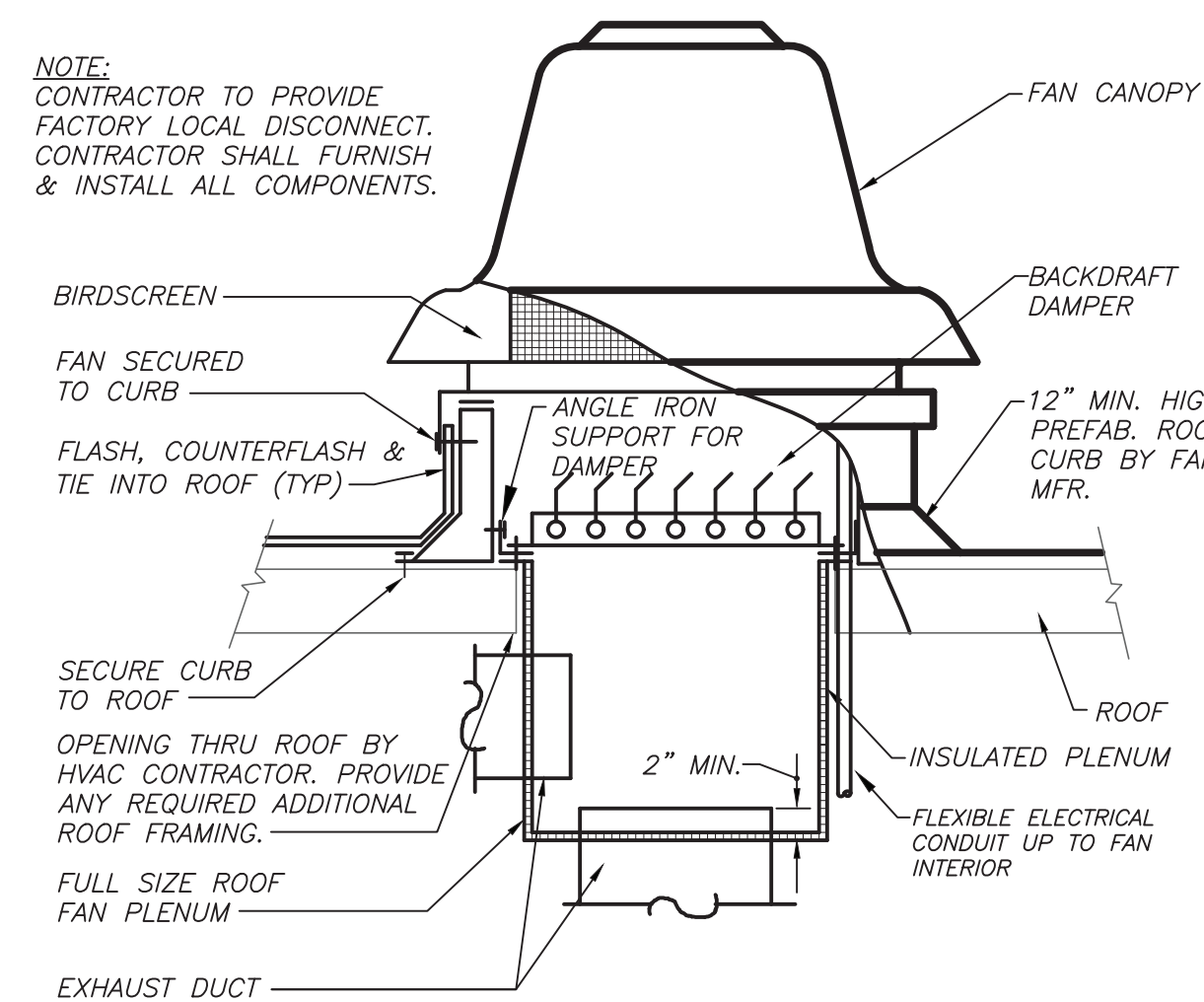
H500

- (A) 3" EMERGENCY VENT
- (B) 2" NORMAL VENT
- (C) DIESEL FUEL SUPPLY (WITH DROP TUBE)
- (D) DIESEL FUEL OVERFLOW/RETURN
- (E) 2" TANK FILL
- (F) GAUGE/HIGH-LOW LEVEL ALARM
- (G) MECHANICAL LEVEL GAUGE

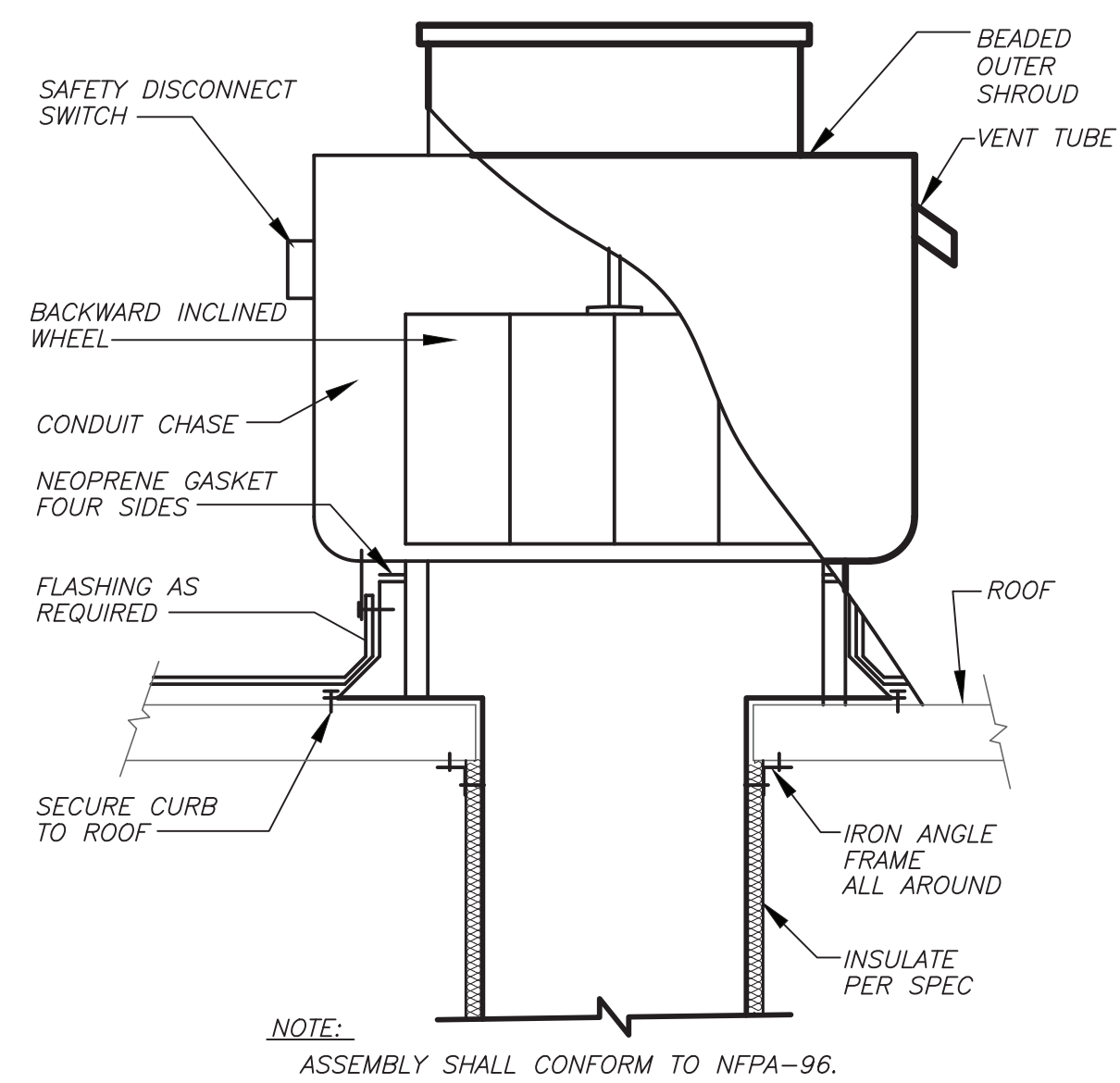


ABOVE GRADE DIESEL FUEL TANK DETAIL 10
H501 NO SCALE

NOTE:
CONTRACTOR TO PROVIDE
FACTORY LOCAL DISCONNECT.
CONTRACTOR SHALL FURNISH
& INSTALL ALL COMPONENTS.

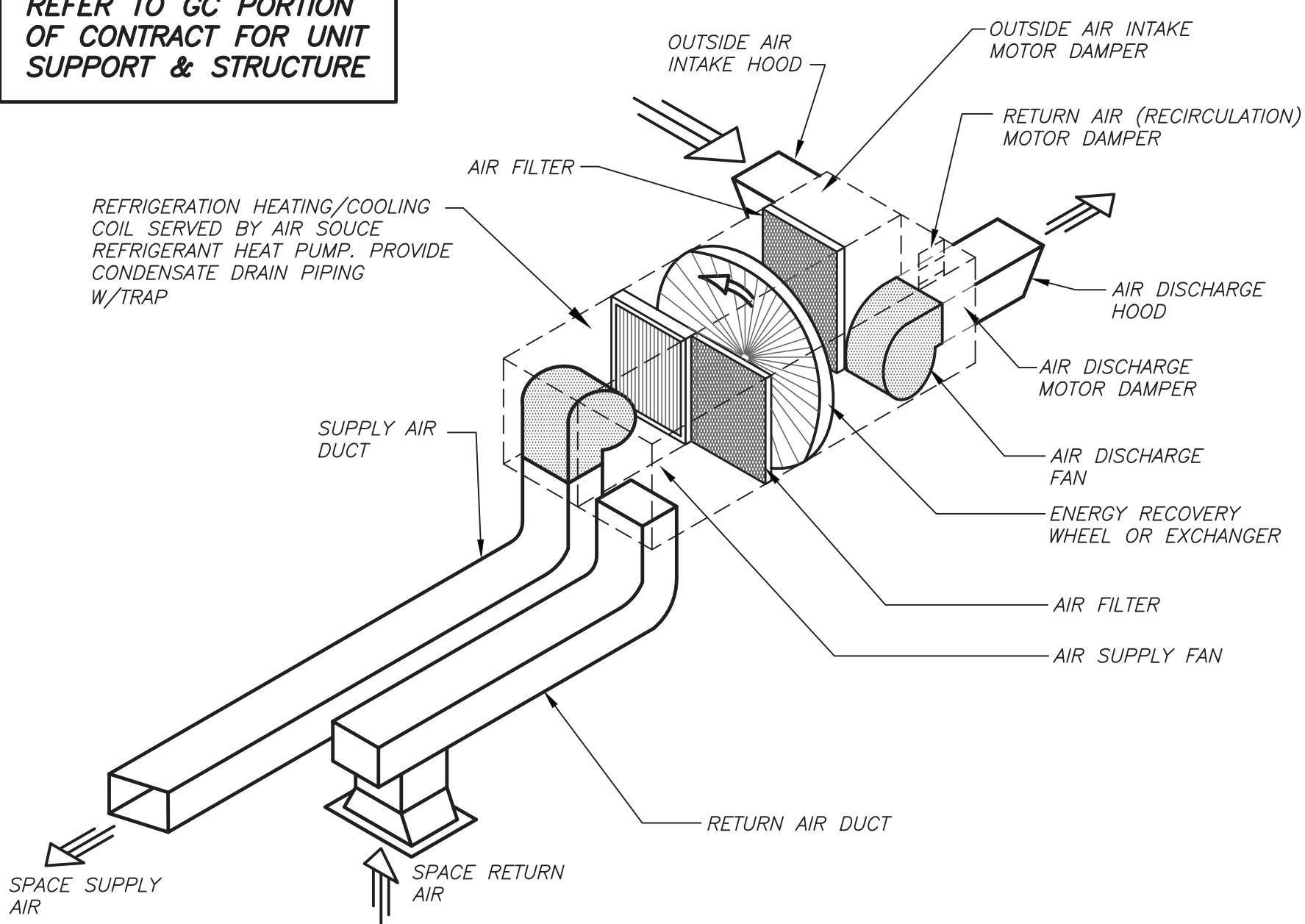


ROOF EXHAUST FAN  NO SCALE
DETAIL

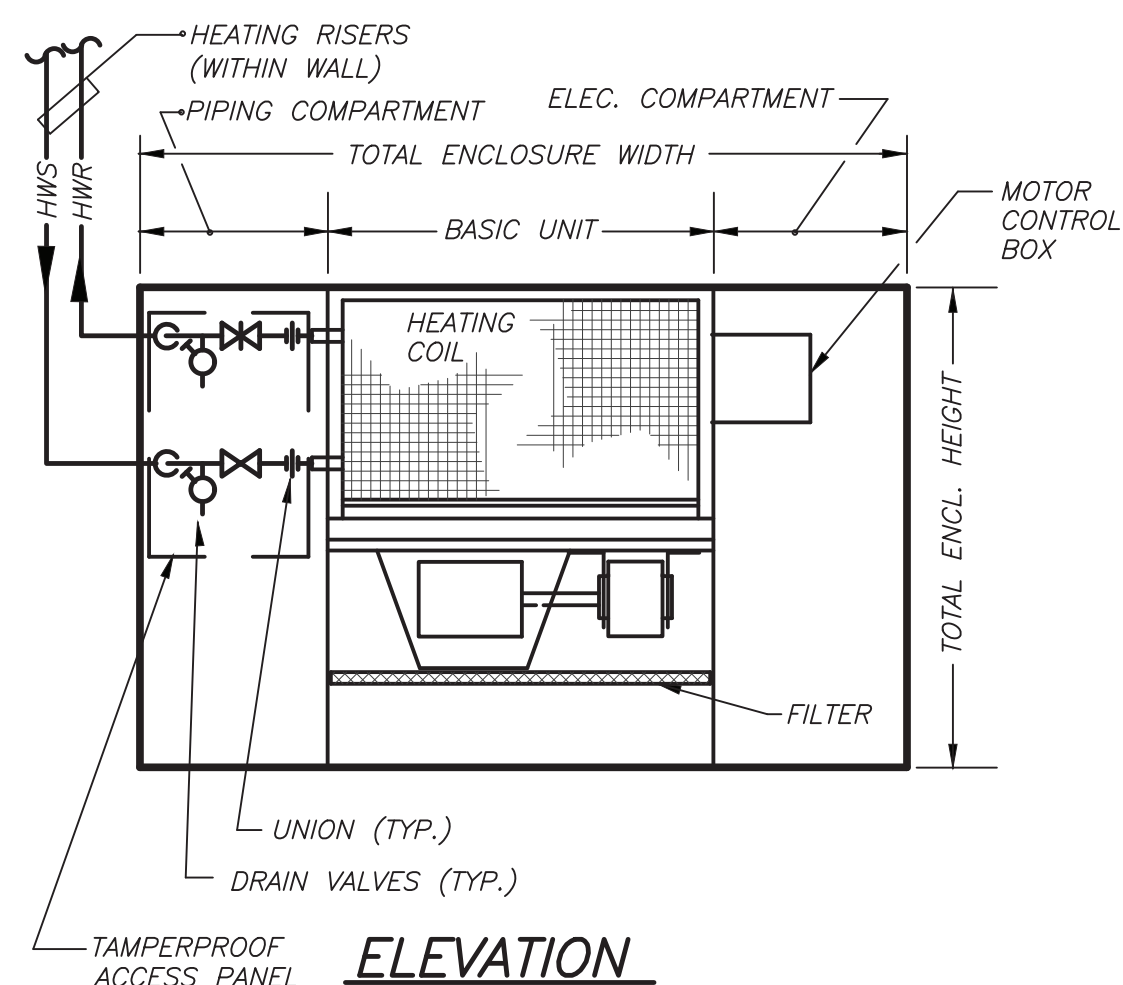


UPBLAST EXHAUST FAN  NO SCALE
DETAIL

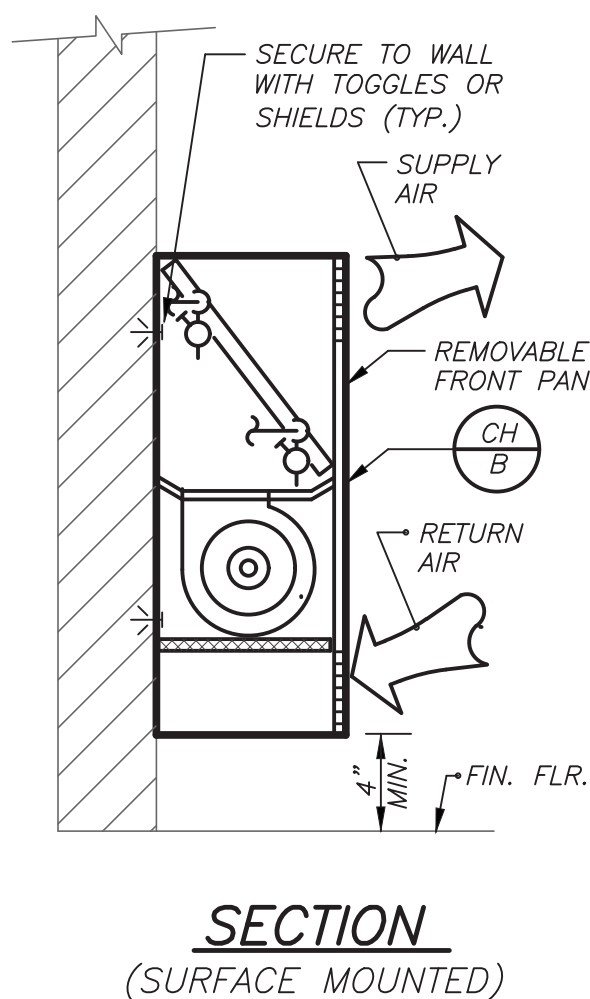
REFER TO GC PORTION
OF CONTRACT FOR UNIT
SUPPORT & STRUCTURE



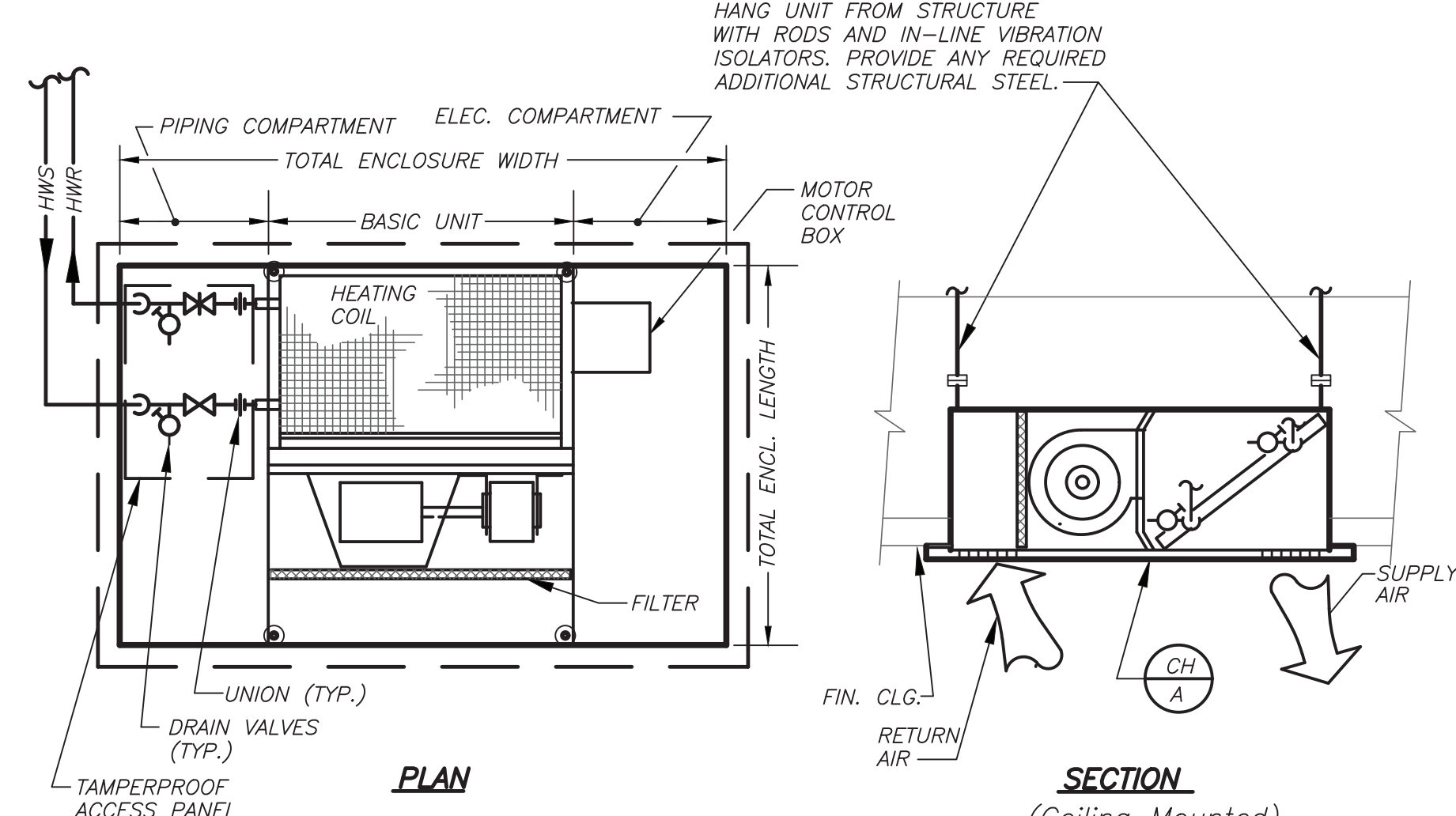
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RECOVERY AIR HANDLING UNIT DETAIL



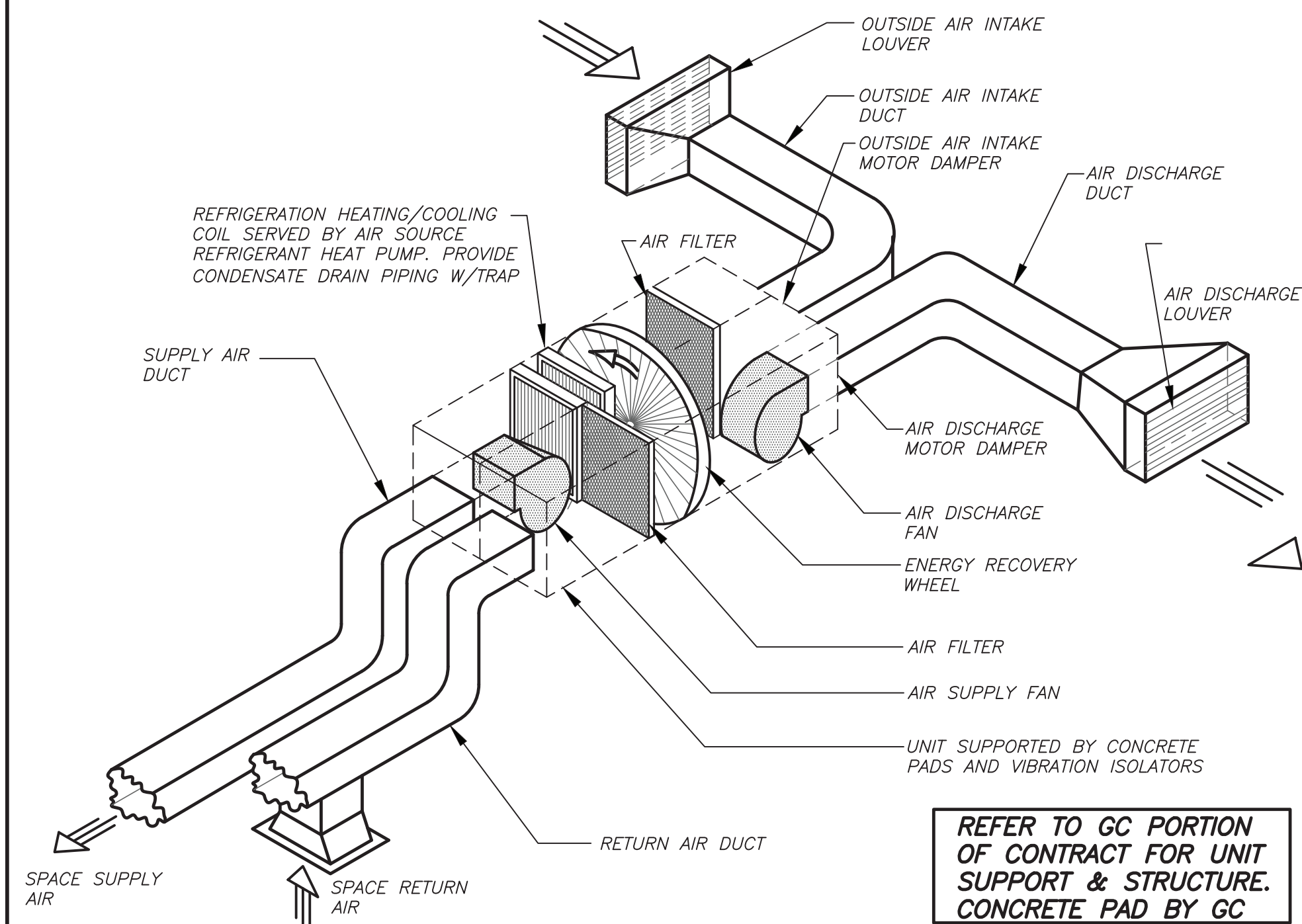
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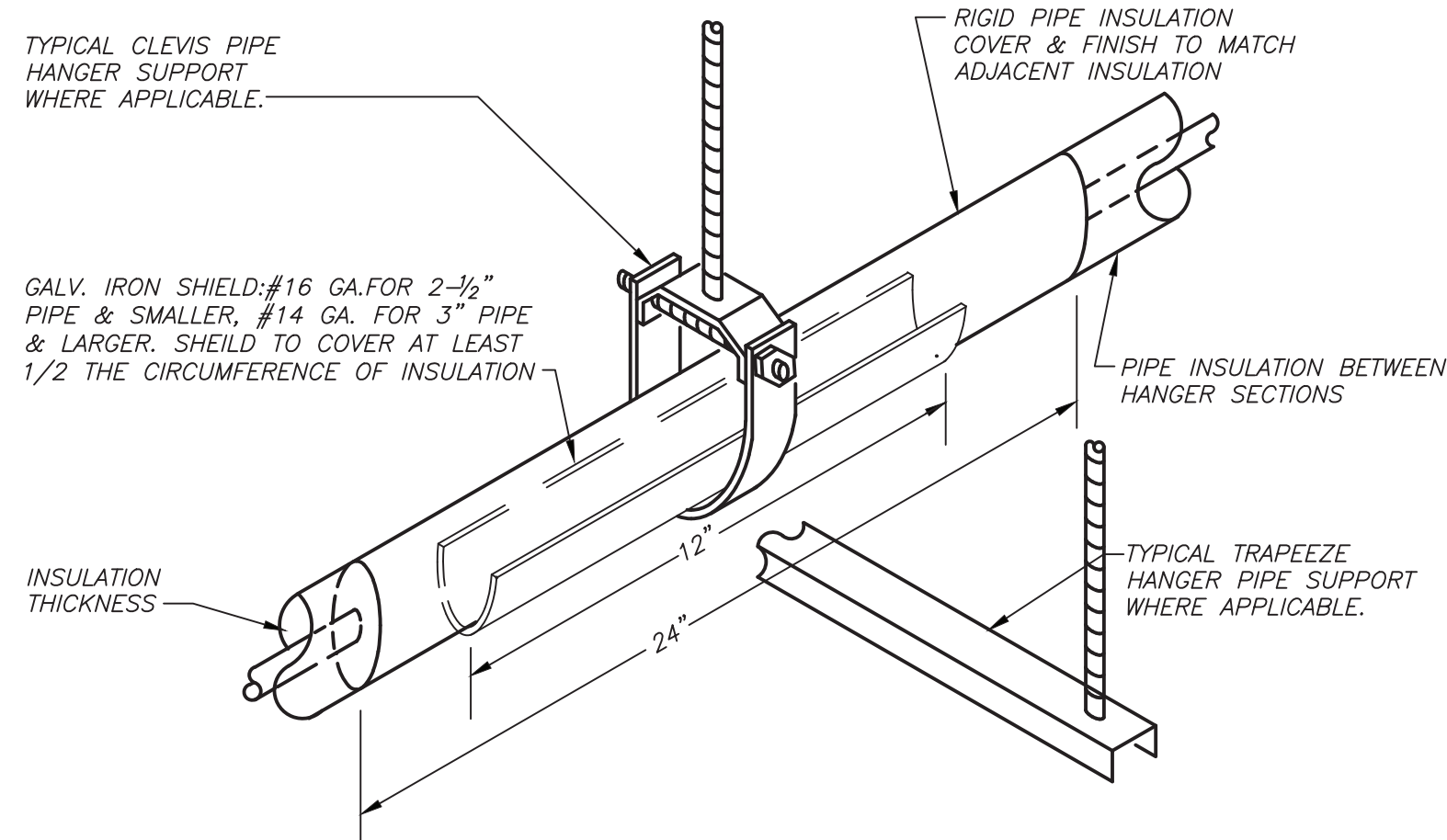
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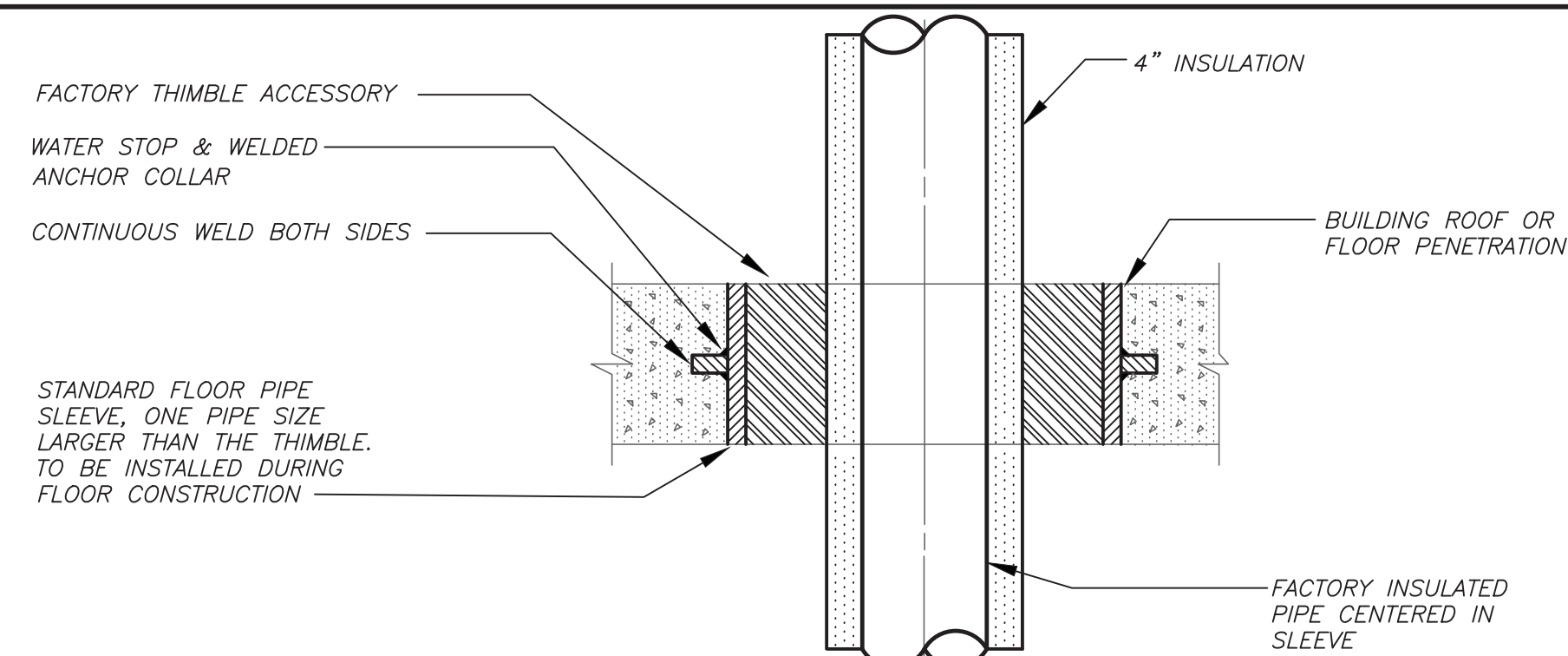
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H501



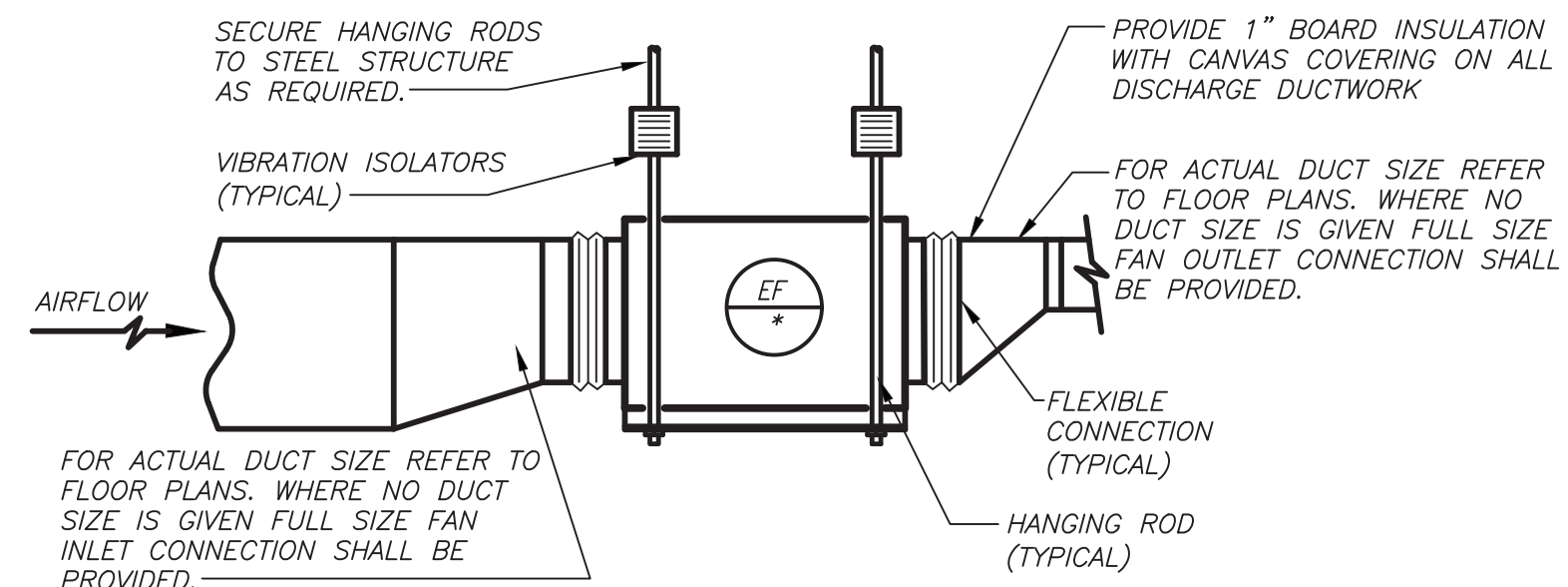
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AIR HANDLING UNIT DETAIL H501



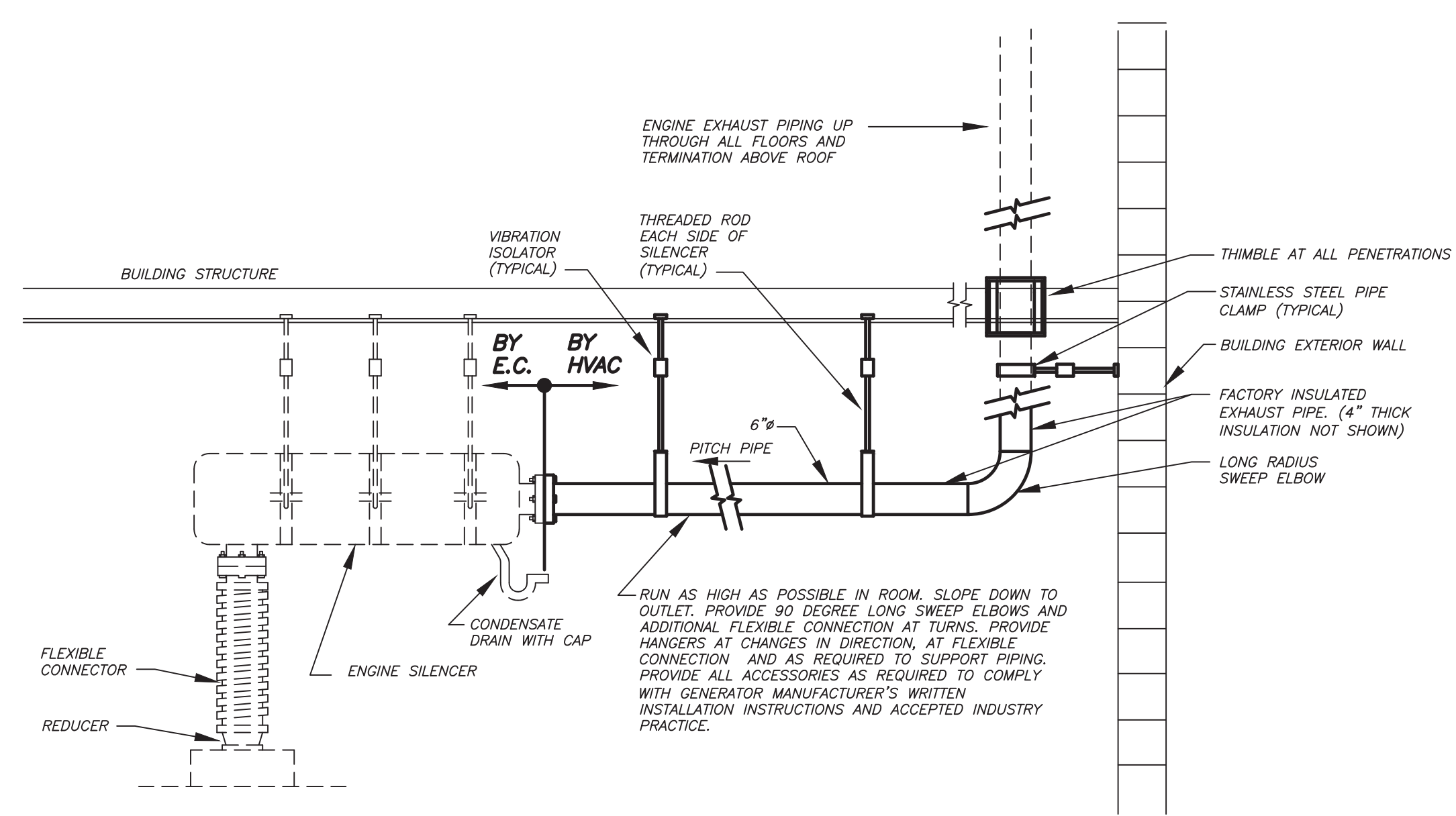
INSULATED PIPE HANGER DETAIL 7
H501 NO SCALE



GENERATOR EXHAUST PIPE FLOOR/ROOF
PENETRATION DETAIL



INLINE FAN DETAIL  NO SCALE



GENERATOR EXHAUST SYSTEM DETAIL 3
H501 NO SCALE

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 - Y:\YONKERS PUBLIC SCHOOLS\YPS - St. Denis School - New Bldg (2017.00)\Drawings\HVAC\201700H501.dwg - DATE: Nov 03, 2021 - 4:08pm

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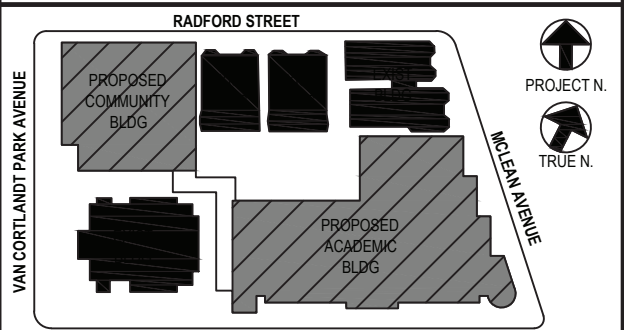
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P:914.666.5900 KGDARCHITECTS.COM

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CONSTRUCTION DOCUMENTS

bga

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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue
Sheet Title		

No.	Date
Sheet Title	

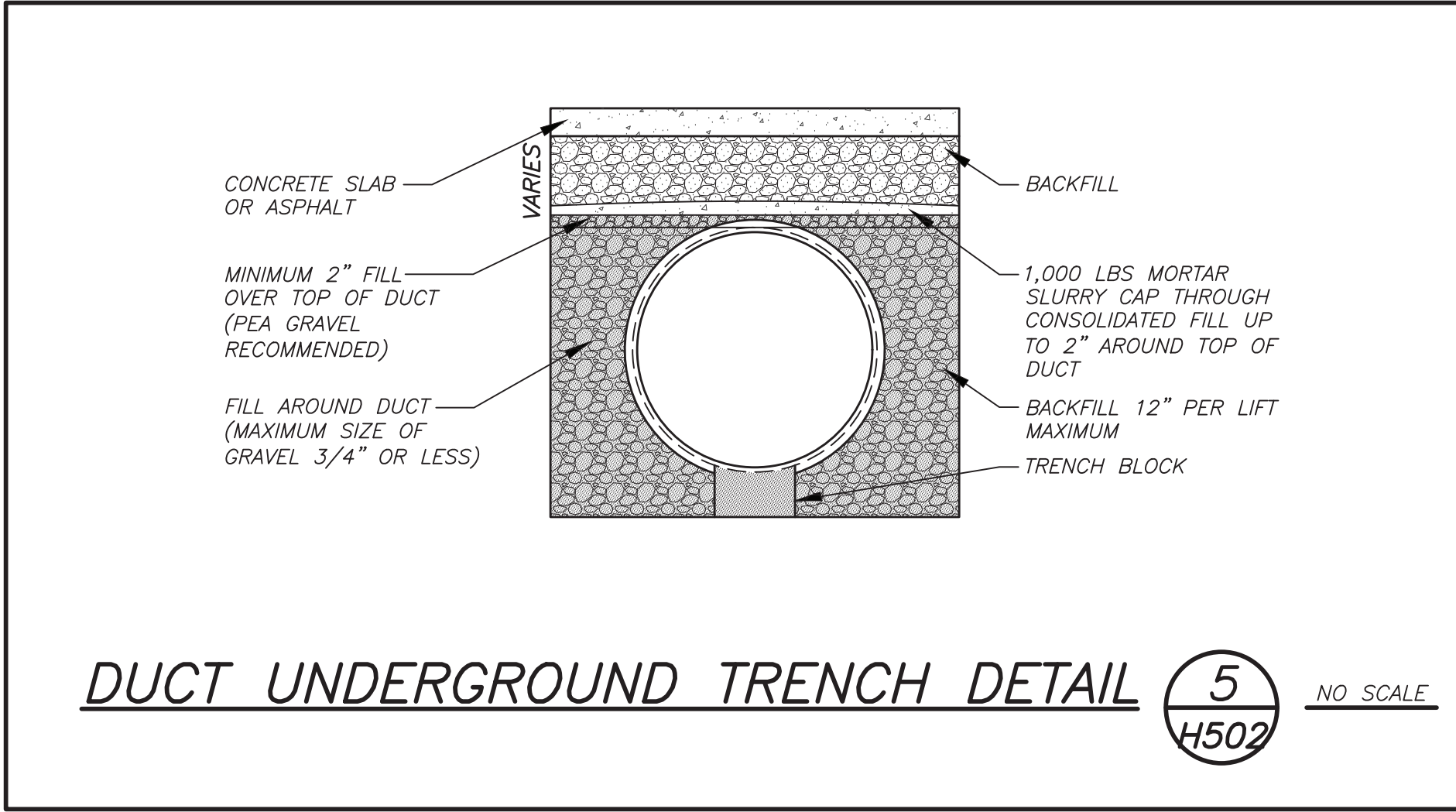
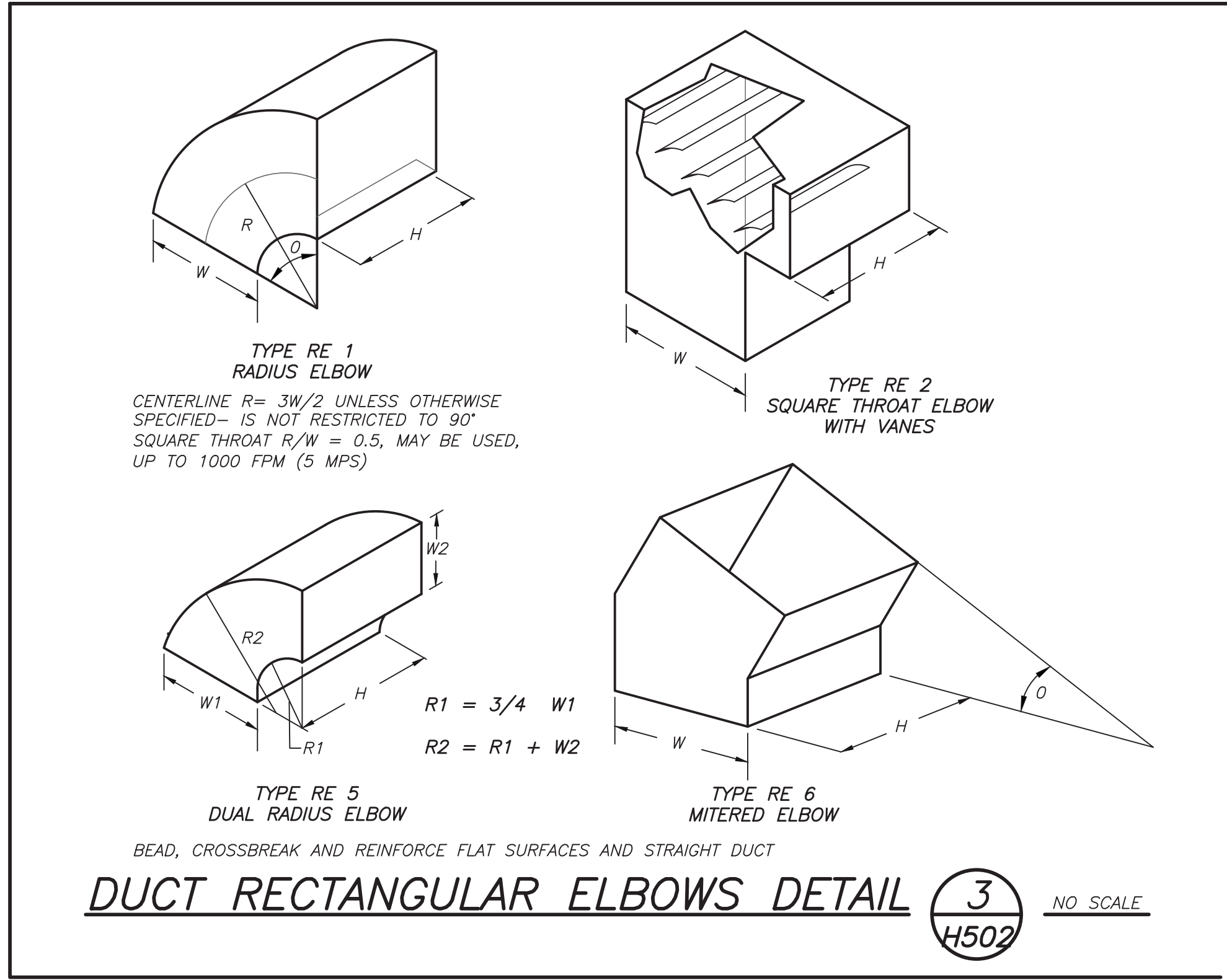
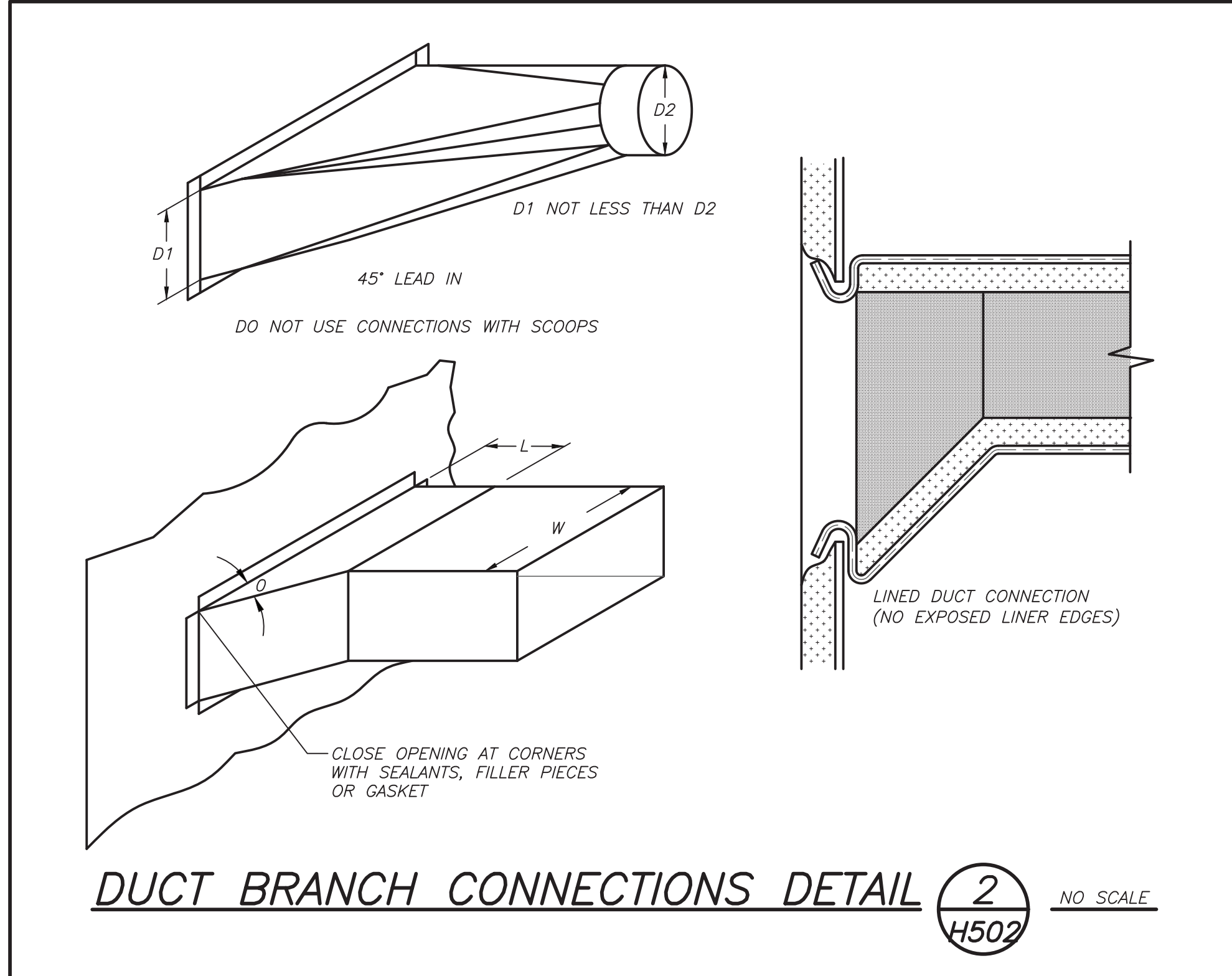
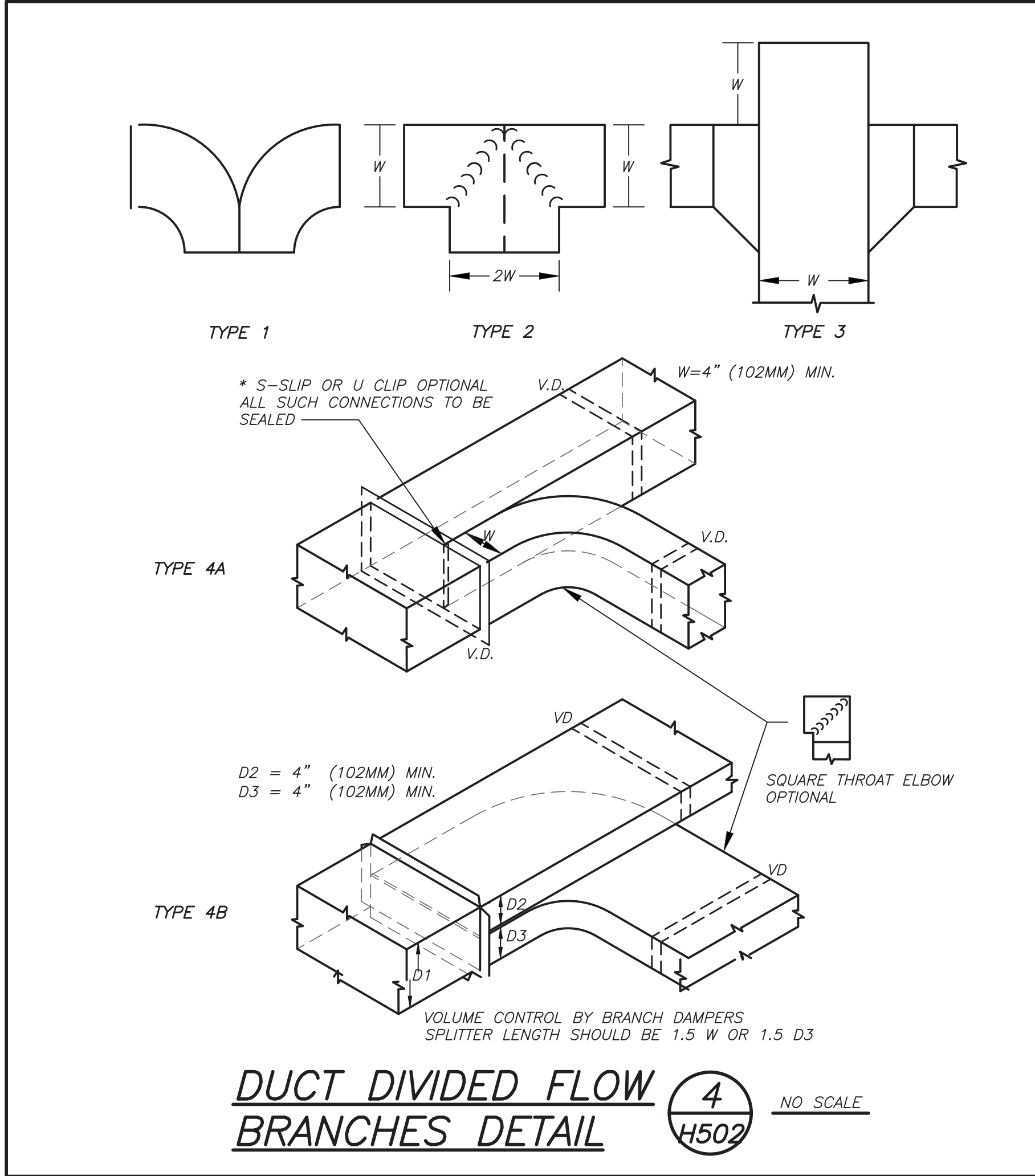
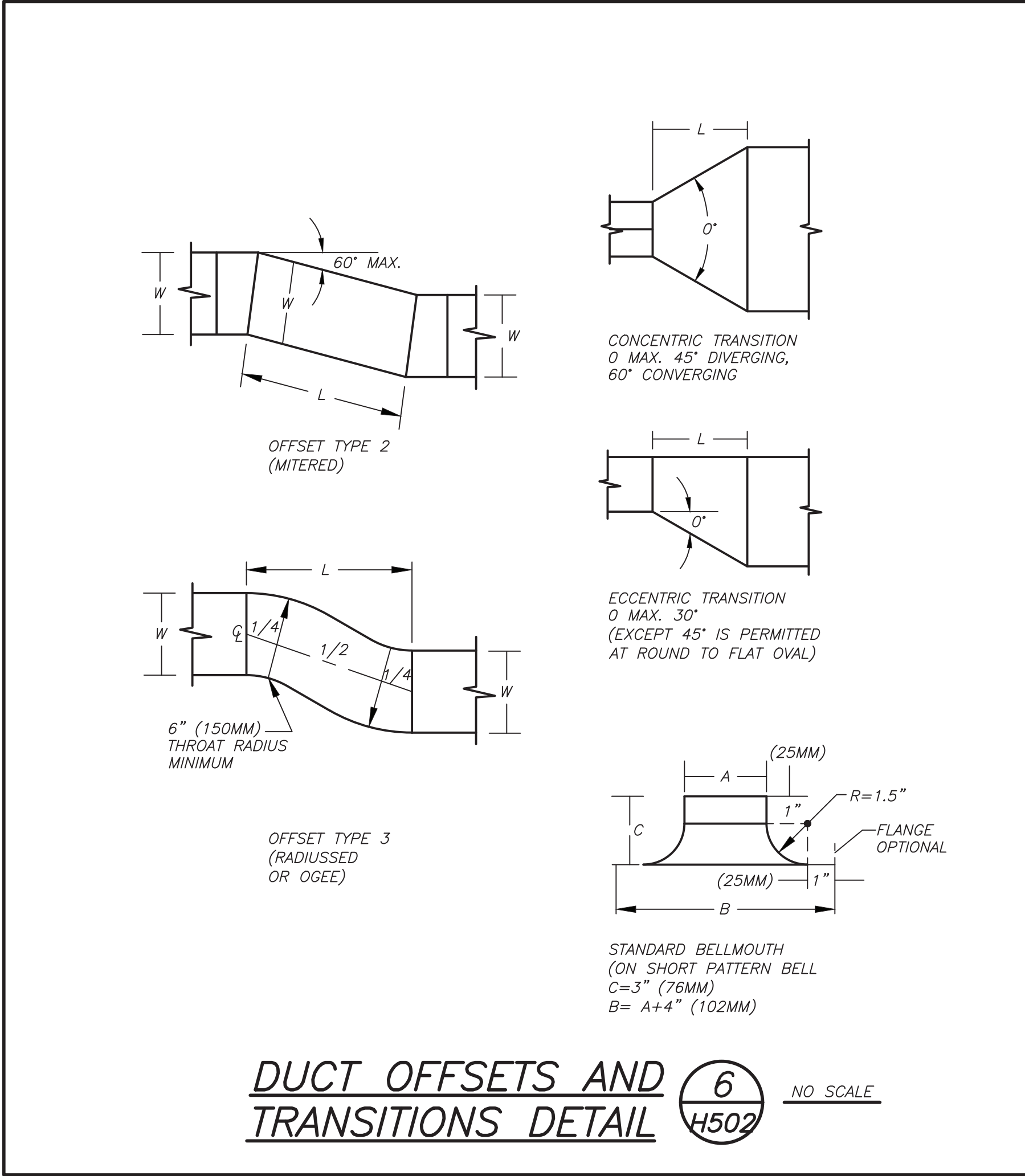
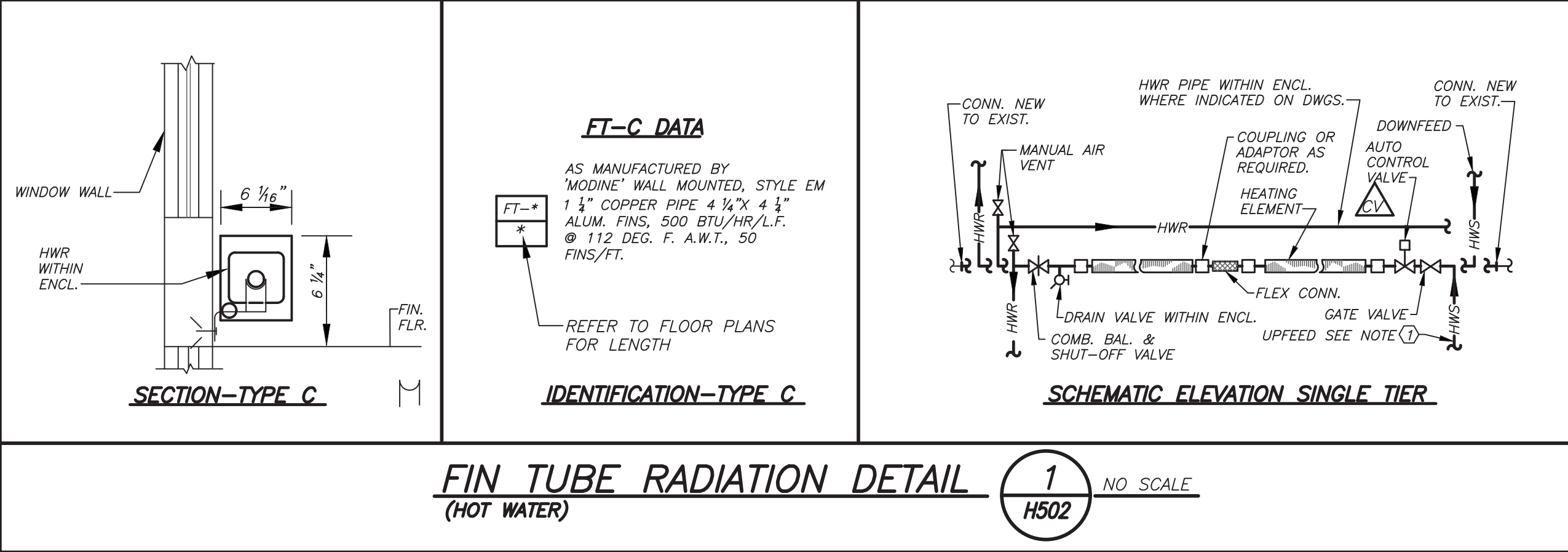
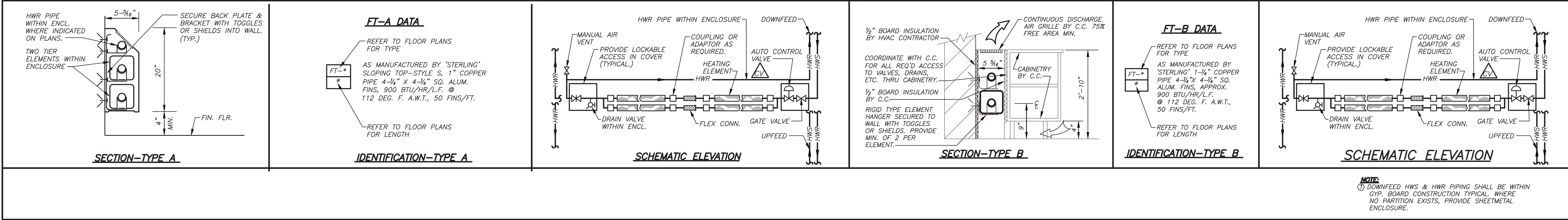
DETAILS

Job No.	Date
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Scale	Drawn / Checked
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Sheet Number

H501



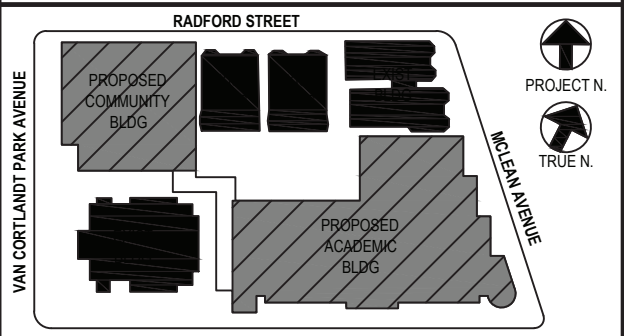
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4	11/01/2021	ISSUED TO BID

DETAILS

Job No. 2019-1026 Date 11/18/20
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Sheet Number

H502

ROOF

4th FLOOR

3rd FLOOR

2nd FLOOR

1st FLOOR

BASEMENT

ROOF

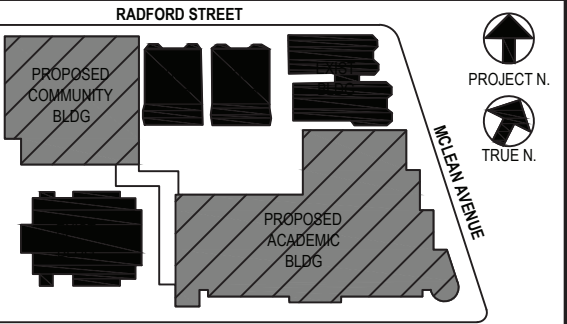
4th FLOOR

3rd FLOOR

2nd FLOOR

1st FLOOR

BASEMENT



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ACADEMIC BUILDING
SCHEMATIC HYDRONIC
HEATING RISER DIAGRAM

Job No. 2019-1026 Date 11/18/20
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H503

REFER TO FLOOR PLANS FOR FINITUBE LENGTHS,
QUANTITIES, TYPES AND ADDITIONAL INFORMATION.

ACADEMIC BUILDING SCHEMATIC HYDRONIC HEATING RISER DIAGRAM

1
H503
NO SCALE