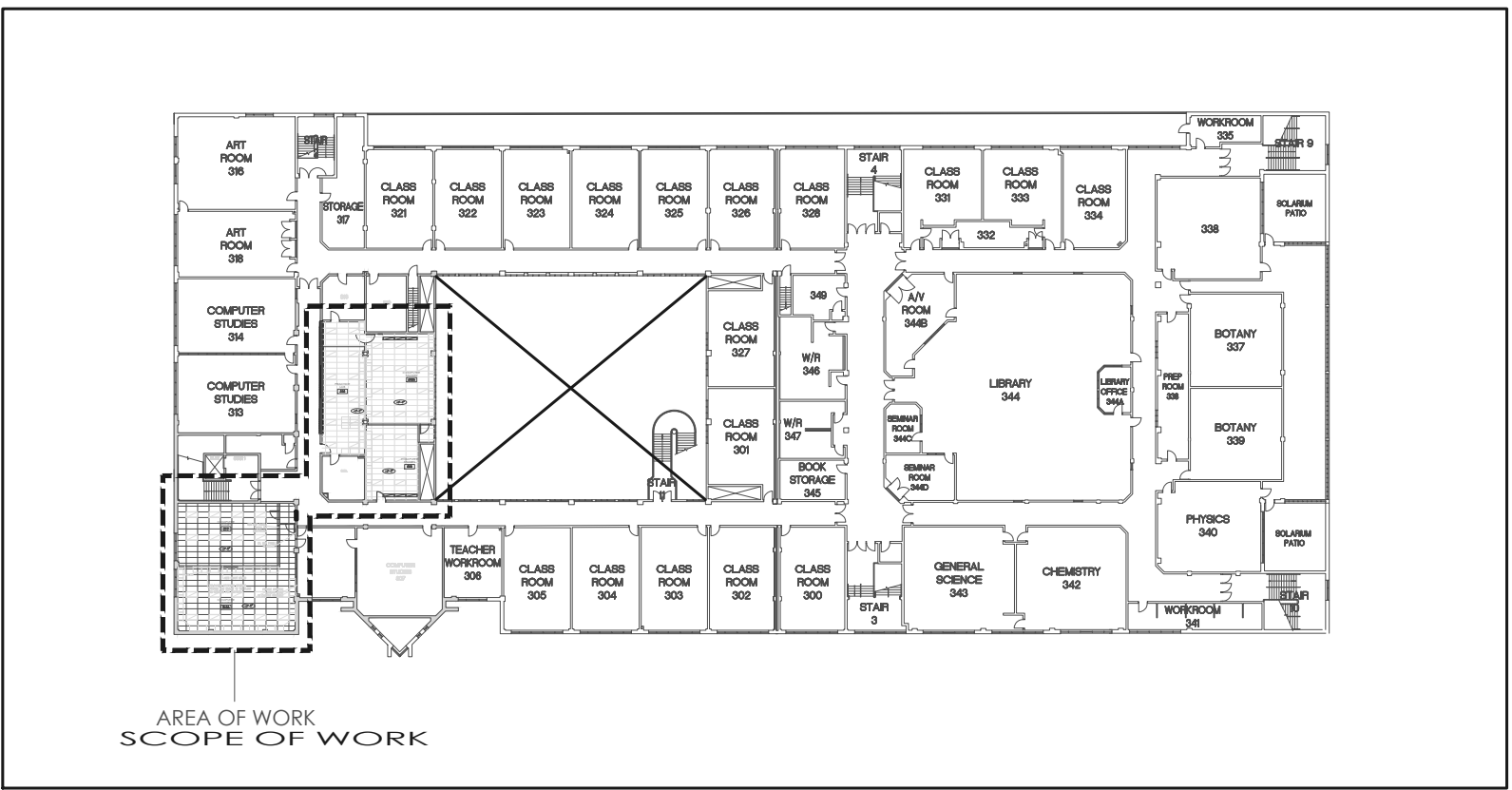
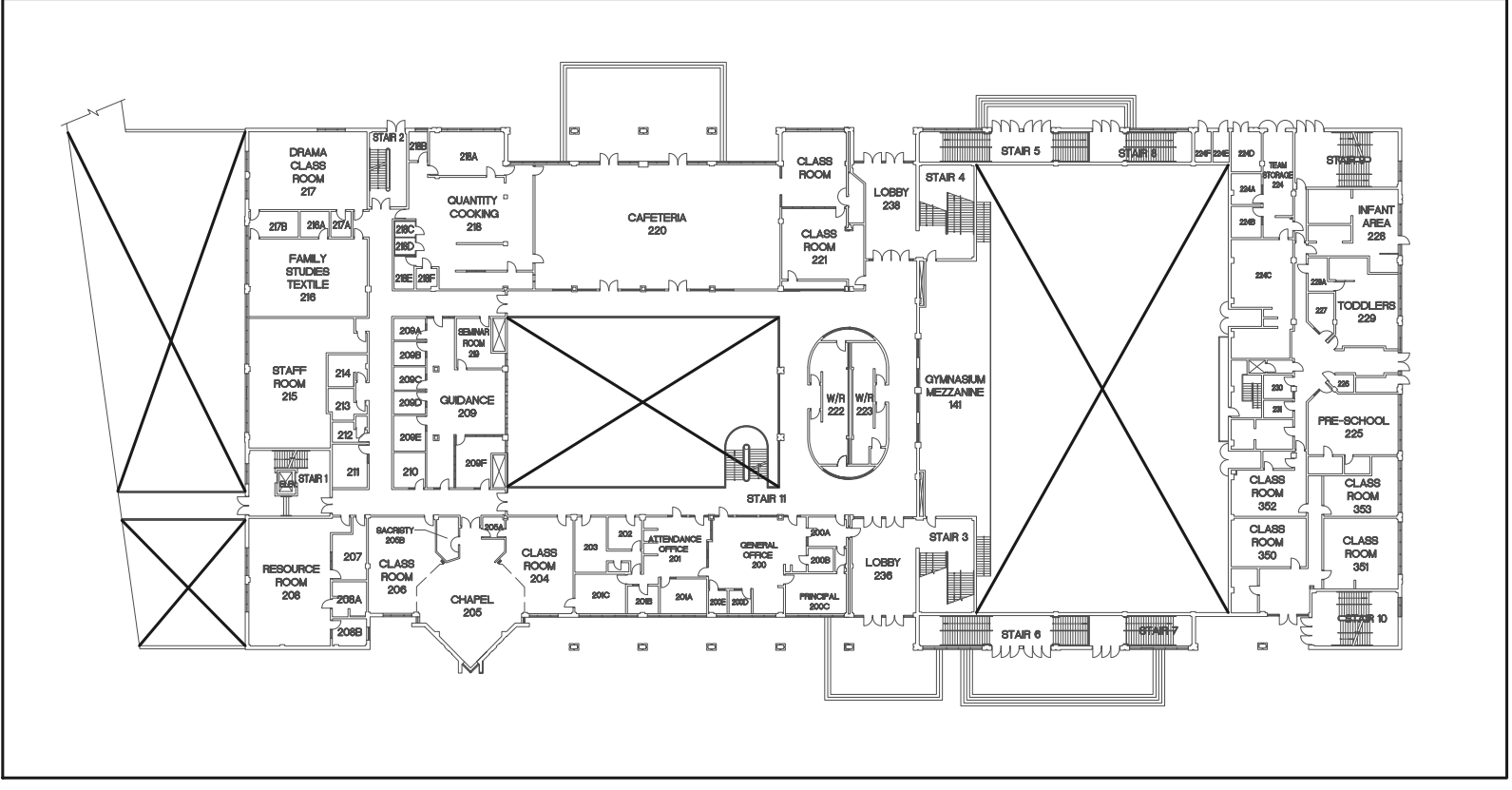


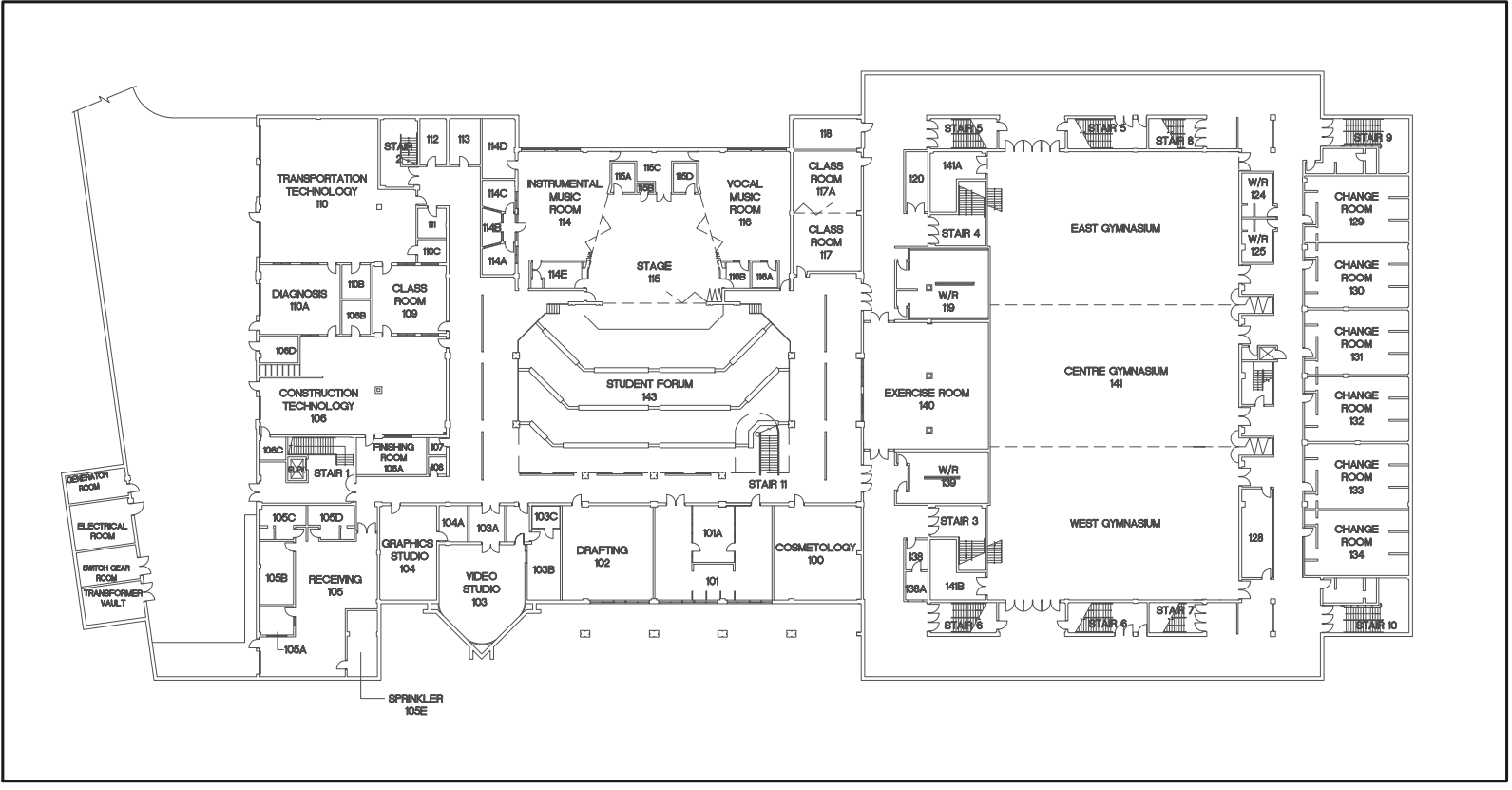
**1 SITE PLAN**  
M1.0 SCALE: 1/32" = 1'-0"



**4 SECOND FLOOR KEY PLAN (REFERENCE ONLY)**  
M1.0 SCALE: 1/64" = 1'-0"



**3 GROUND FLOOR KEY PLAN (REFERENCE ONLY)**  
M1.0 SCALE: 1/64" = 1'-0"



**2 BASEMENT FLOOR KEY PLAN (REFERENCE ONLY)**  
M1.0 SCALE: 1/64" = 1'-0"

**GENERAL DEMOLITION NOTES:**

- DEMO PLANS REFER TO ARCHITECTURAL DRAWING. G.C. SHALL VERIFY ALL SITE CONDITIONS ON SITE AND MAKE REQUIRED DEMOLITION WORK AS PER PROPOSED PLANS. DRAWINGS TO BE REFERENCED BUT NOT LIMITED ARE: ARCHITECTURAL, STRUCTURAL, MEP, AND ID (IF APPLICABLE).
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE AS-BUILT DRAWINGS AND SITE SURVEY. THIS INFORMATION MUST NOT ASSUMED TO BE COMPLETE OR UP-TO-DATE. THIS MECHANICAL CONTRACTOR SHALL CARRYOUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK.
- IN THE EVENT OF SITE DISCREPANCIES TO THE DEMOLITION AND PROPOSED PLANS, ARCHITECTS MUST BE NOTIFIED IMMEDIATELY.
- ALL THE SITE DISCONNECTIONS SUCH AS: GAS, HYDRO, WATERMAIN & ETC. SHALL BE COORDINATED WITH LOCAL SERVICES AND AUTHORITIES AS REQUIRED.
- ALL AREAS WHERE DEMOLITION WORK IS PROPOSED SHALL HAVE MECHANICAL, ELECTRICAL, PLUMBING, DATA, PHONE, AND NETWORK DISCONNECTED. SECURE AND CAP ALL THE ABOVE AND EFFECTED ITEMS AS REQUIRED FOR FUTURE CONNECTION.
- ALL DEMOLITION WORK TO BE PERFORMED AND COORDINATED IN COMPLIANCE WITH CURRENT AND LOCAL CODE, REGULATIONS, BY-LAWS, AND AUTHORITIES WITHIN THE RELATED JURISDICTION.
- G.C. SHALL PROTECT FROM DAMAGES, PREVENT POSSIBLE MOVEMENTS, SHIFTING OR SETTLING OF EXISTING OR ADJACENT STRUCTURAL ELEMENTS. ALL REQUIRED METHODS SHALL BE USED IN REGARDS AS SHOWN IN STRUCTURAL DRAWINGS OR AS PER GOOD PRACTICES AS THEY RELATE TO THE TASK TO ENSURE STRUCTURAL STABILITY IS MAINTAINED.
- WHERE NEW MEP PENETRATIONS ARE REQUIRED TO GO THROUGH OR WITHIN THE EXISTING CONCRETE STRUCTURES, SAWCUT TO THE EXTENT OF PROVIDED DETAIL WITHIN MEP DWGS. AND/OR ARCHITECTURAL DWGS AND/OR STRUCTURAL DWGS.
- ALL MECHANICAL EQUIPMENTS AND RELATED ACCESSORIES AND ELEMENTS SUCH AS: PIPING, DUCTWORK, HANGERS, AND ANY OTHER ASSOCIATED PARTS THAT ARE REDUNDANT AS PER NEW DESIGN AND DEMOLITION PLAN TO BE ENTIRELY REMOVED TO THE REQUIRED EXTENT, UNLESS OTHERWISE NOTED. NOTE: DO NOT REMOVE THE UNDERGROUND PIPING.
- G.C. AND/OR INDIVIDUAL TRADE ARE RESPONSIBLE FOR THE DISPOSAL OF DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED.
- MAKE GOOD SURFACES IN ALL EFFECTED AREA TO RECEIVE NEW FINISH.

**NOTE:**  
CONTRACTOR TO PROVIDE INTERFACE DRAWINGS SHOWING ALL EQUIPMENT, PIPING, DUCT, ELECTRICAL, BEAMS, ELEVATION ETC. IN THE CORRIDOR OF THE ALL FLOORS AND THE BASEMENT LEVELS.

DRAWING LIST	
DWG.NO	DRAWING TITLE
M-1	MECHANICAL LEGEND, DRAWING LIST, KEY PLAN & SCOPE OF WORK
M-2	FLOOR PLANS - HVAC
M-3	SCHEDULES AND DETAILS - HVAC
M-4	SPECIFICATIONS - HVAC

- GENERAL NOTES:**
- MECHANICAL DRAWINGS SHALL NOT BE SCALED FOR EQUIPMENT, DUCT, PIPE LOCATIONS, DIV.15 IS RESPONSIBLE TO COORDINATE THEIR EQUIPMENT, DUCT & PIPE LOCATIONS WITH OTHER TRADES. DIV.15 SHALL AVOID ALL STRUCTURAL OBSTACLES KEEPING THEIR SERVICES AS HIGH AS PERMITTED BY THE SITE CONDITIONS.
  - MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL ITEMS SHOWN ON ALL 2. MECHANICAL DRAWINGS. SOME ITEMS WILL BE SHOWN ON SCHEMATIC ONLY OR FLOOR PLANS ONLY. MECHANICAL DRAWINGS SHALL BE READ AS A WHOLE AND SHALL NOT BE SEPARATED FROM ANOTHER.
  - DUCTS RUNNING PARALLEL TO THE JOIST SHALL RUN BETWEEN THE JOISTS, AND DUCTS PERPENDICULAR TO THE JOIST SHALL RUN THROUGH THE OPEN WEB. ALL DUCT, PIPE & EQUIPMENT HANGER SHALL BE CONNECTED AT PANEL POINTS IN THE JOISTS.
  - COORDINATE WITH ALL OTHER TRADES AND SERVICES BEFORE FINAL LOCATIONS OF DUCTS, PIPES, DIFFUSERS, EQUIPMENT, ETC. ARE FINALIZED. CONTRACTOR TO COORDINATE THERMOSTAT FINAL LOCATION WITH OTHER ELECTRICAL SERVICES AND TO ARCH APPROVAL.
  - CO-ORDINATE LOCATIONS OF ALL GRILLES AND DIFFUSERS WITH LIGHTS, SPRINKLERS, ETC AND 5. REFLECTED CEILING PLANS.
  - KEEP ALL SERVICES AS HIGH AS POSSIBLE TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCH. 6. DRAWINGS.
  - ALL SOUND LINING OF DUCTWORK SHALL BE AS SPECIFIED IN SPECIFICATIONS OR WHERE SHOWN 7. ON DRAWINGS. FAN COIL UNITS UNITS S.A. DUCTS SHALL BE SOUNDLINED OVER THEIR ENTIRE LENGTH, R.A. DUCTS TO BE LINED FOR 3 m FROM UNIT UNLESS OTHERWISE SPECIFIED OR SHOWN ON DRAWINGS.
  - FINAL LOCATION OF ALL AIR MOVING UNITS MUST BE SUCH THAT SERVICE SPACE IS MAINTAINED 8. AND UNITS ARE NOT LOCATED ABOVE LIGHT FIXTURES, GYPSUM BOARD CEILING, BULKHEADS, PIPING, DRAINS OR ANY OTHER MECHANICAL OR ELECTRICAL FACILITIES IN ORDER THAT THEY ARE READILY ACCESSIBLE, SERVICEABLE AND REMOVABLE.
  - PROVIDE ALL DUCT & PIPE DROPS OR RISERS IN CEILING SPACE, WHETHER SHOWN OR NOT AS REQUIRED TO SUIT STRUCTURAL STEEL, ROOF LEVELS, CEILING LEVELS, ETC..
  - PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FLOORS VERTICALLY.
  - ALL PIPES & DUCT CONNECTIONS TO UNITS SHALL BE THROUGH A FLEXIBLE CONNECTION.
  - CONTRACTOR MUST VERIFY PIPE LENGTHS ON SITE.
  - PROVIDE BALANCING DAMPER ON ALL FRESH AIR, EXHAUST AIR, SUPPLY AIR BRANCHES WEATHER SHOWN OR NOT.

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ENGINEER SEAL

No.	Revisions	Date
1	ISSUED FOR REVIEW	2024-03-25
2	ISSUED FOR TENDER	2024-04-22

Alteration to  
**Cathedral High School**  
**HWCD5B**  
30 Wentworth Street North  
Hamilton, Ontario

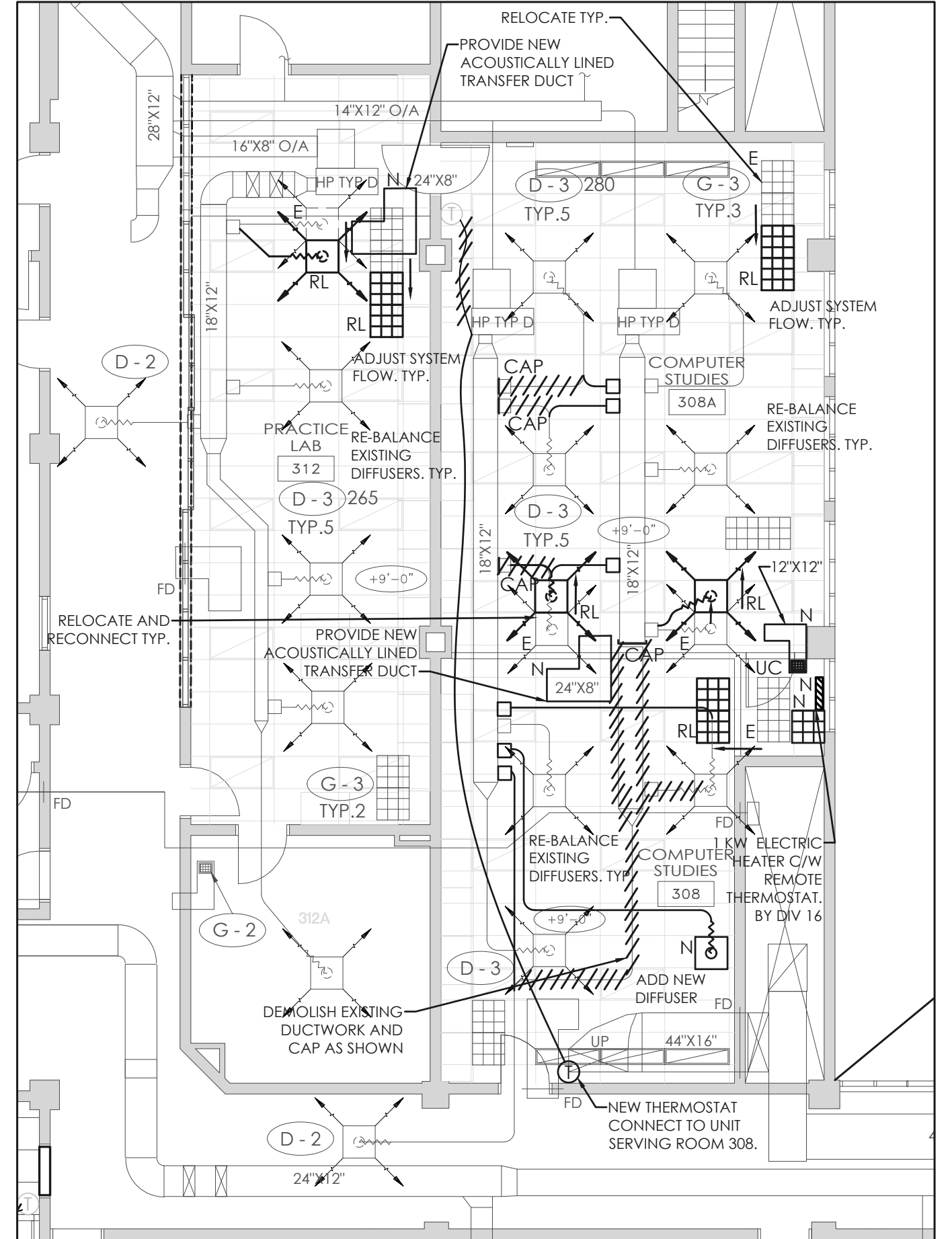
job no.	24.025
dwg. file	
dwn. by	VP
scale	AS NOTED
date	MAR 2024
dwg. title	MECHANICAL LEGEND, DRAWING LIST, KEY PLAN & SCOPE OF WORK
dwg.	<b>M1</b>

ENGINEER SEAL

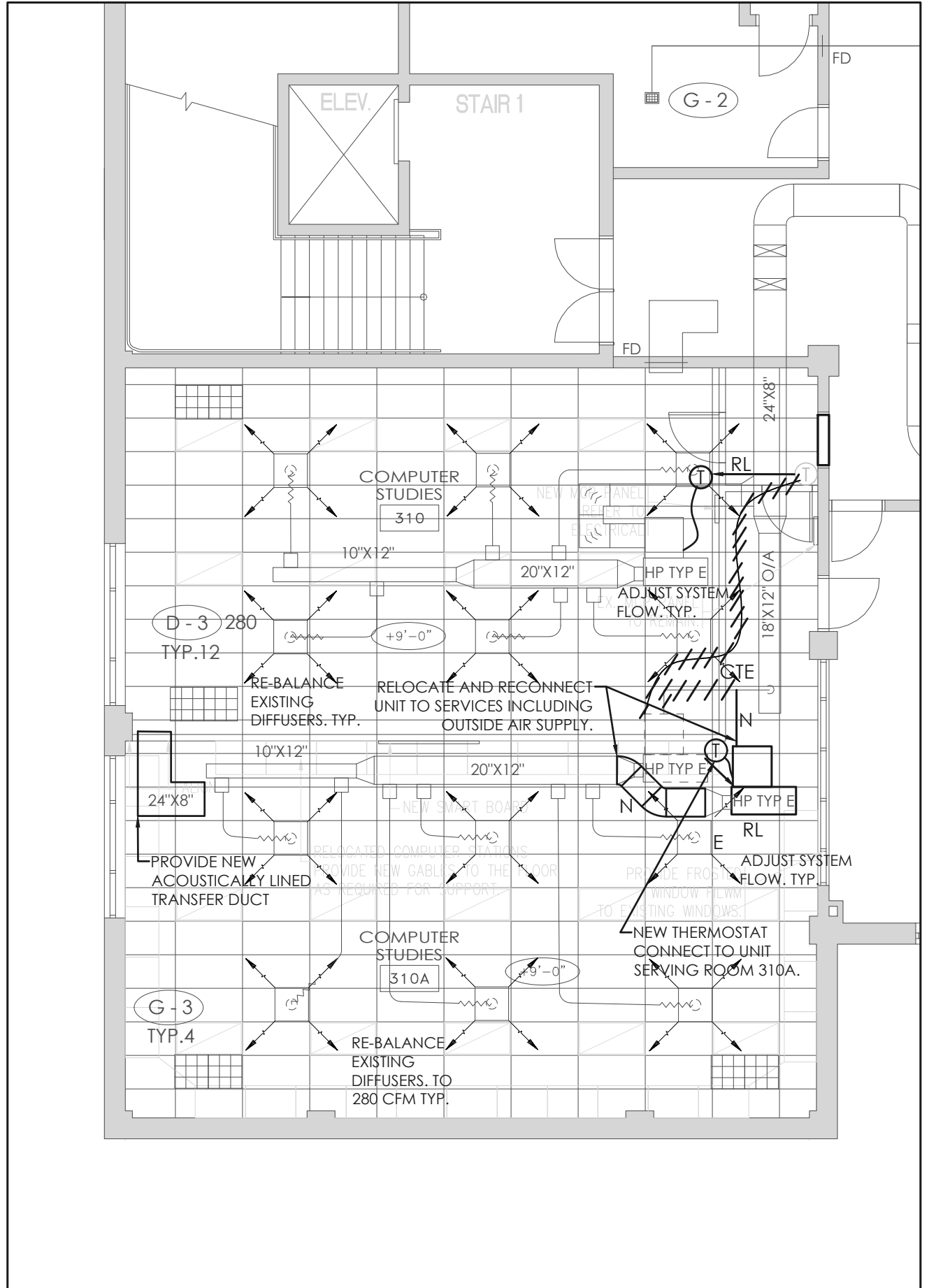
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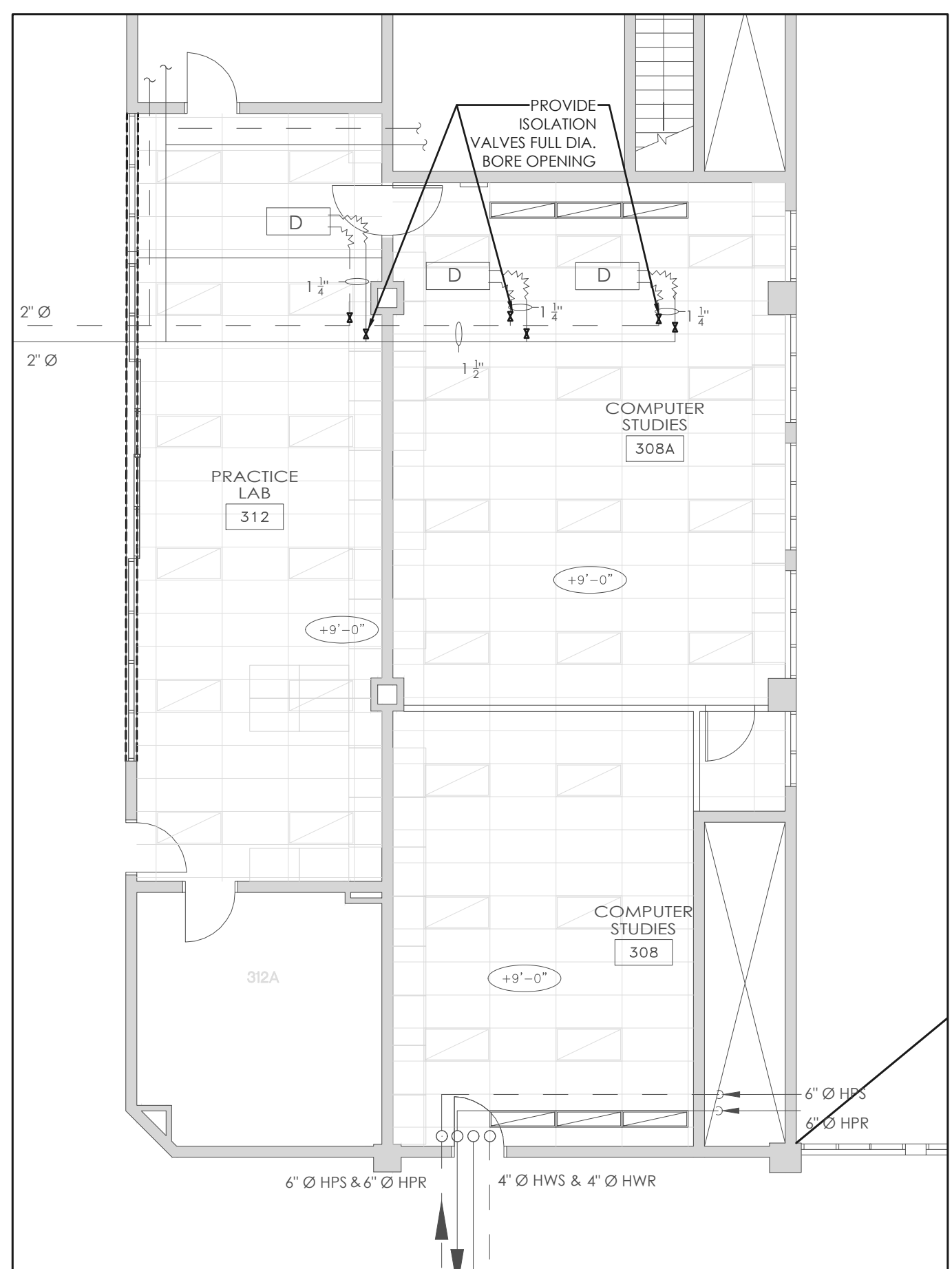
job no.	24.025
dwg. file	
dwn. by	VP
scale	AS NOTED
date	MAR 2024
dwg. title	FLOOR PLANS - HVAC
dwg.	<b>M2</b>



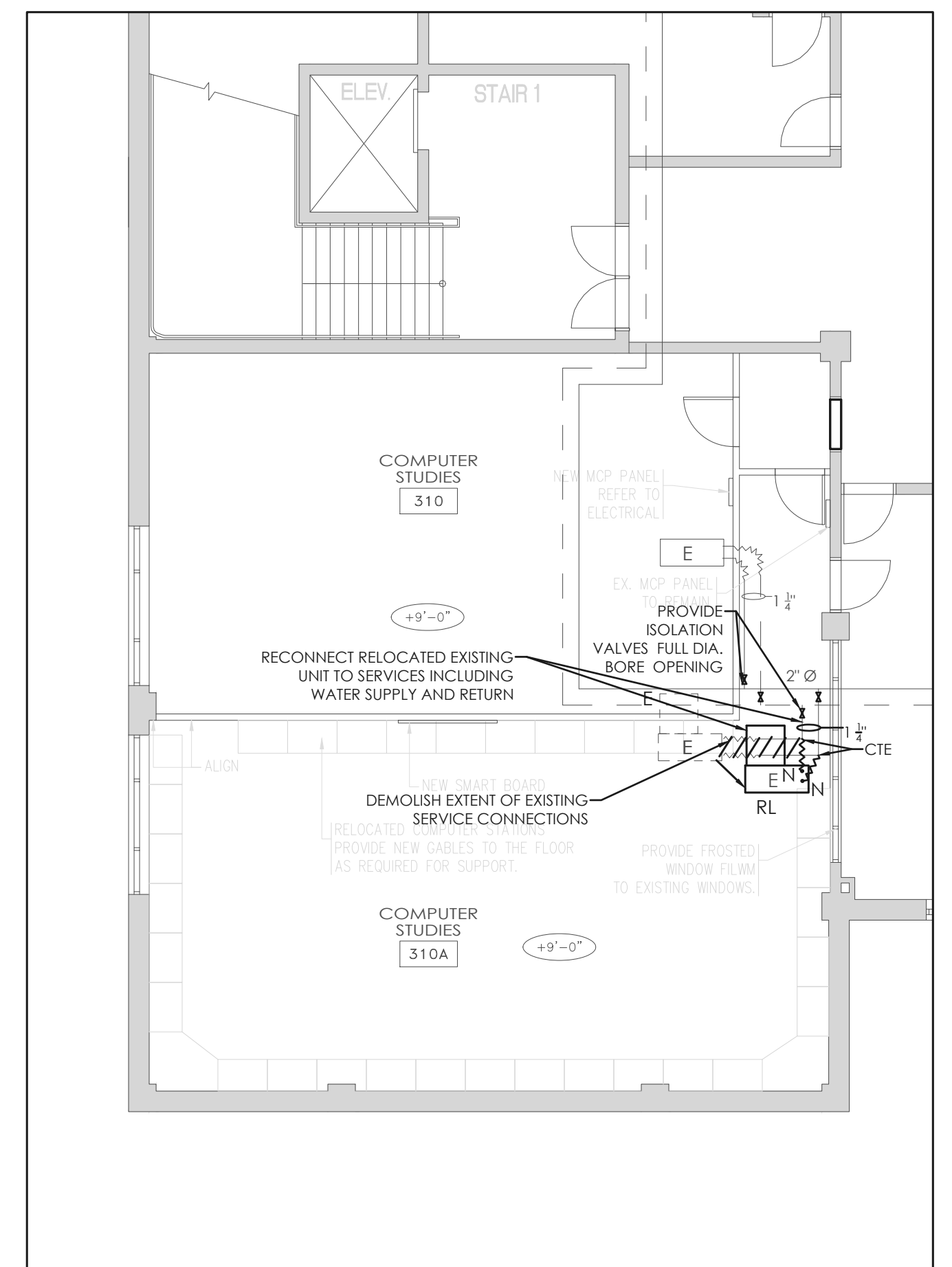
**2** ROOM 308/308A HVAC  
 M2.0 SCALE 1/8" = 1'-0"



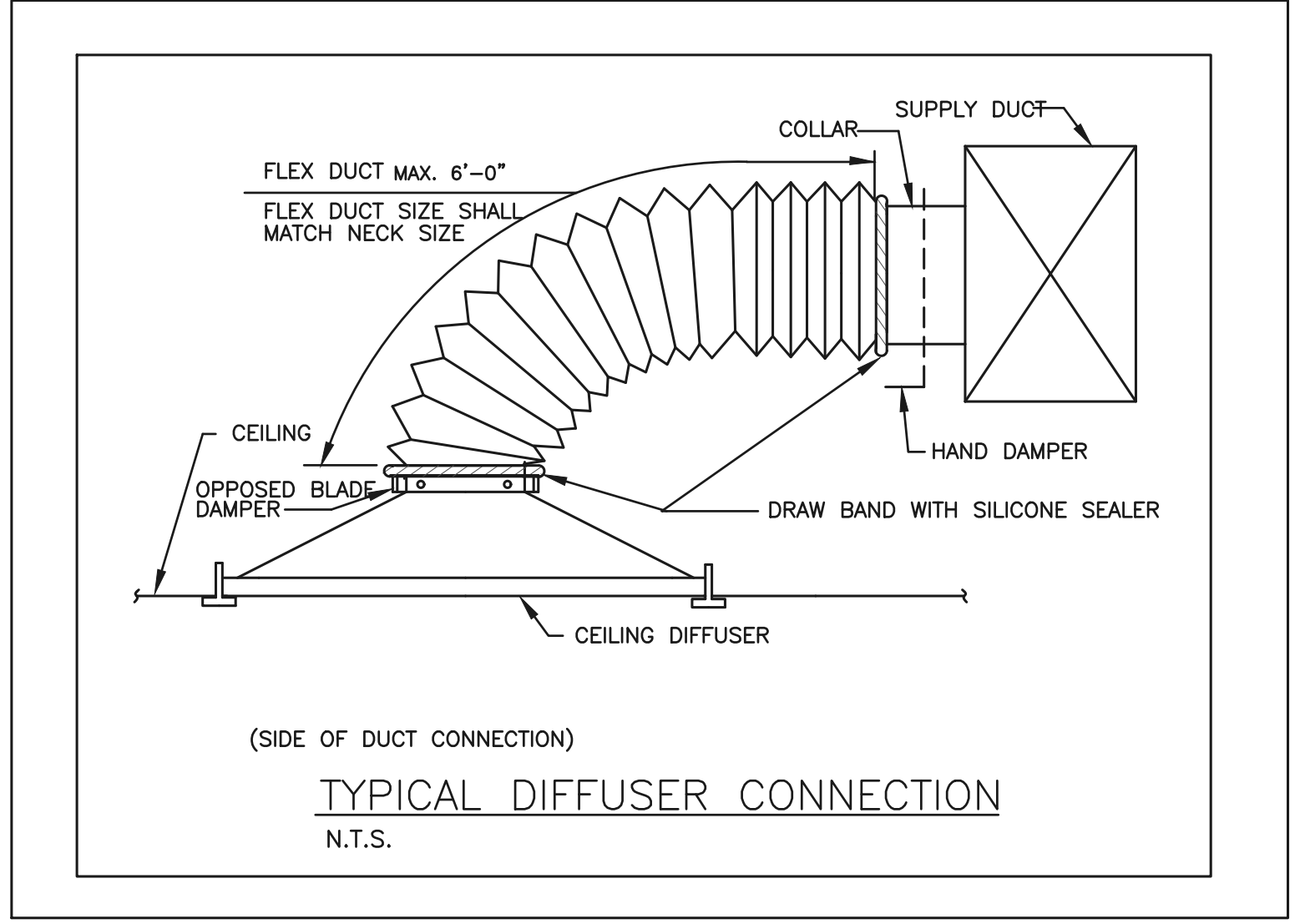
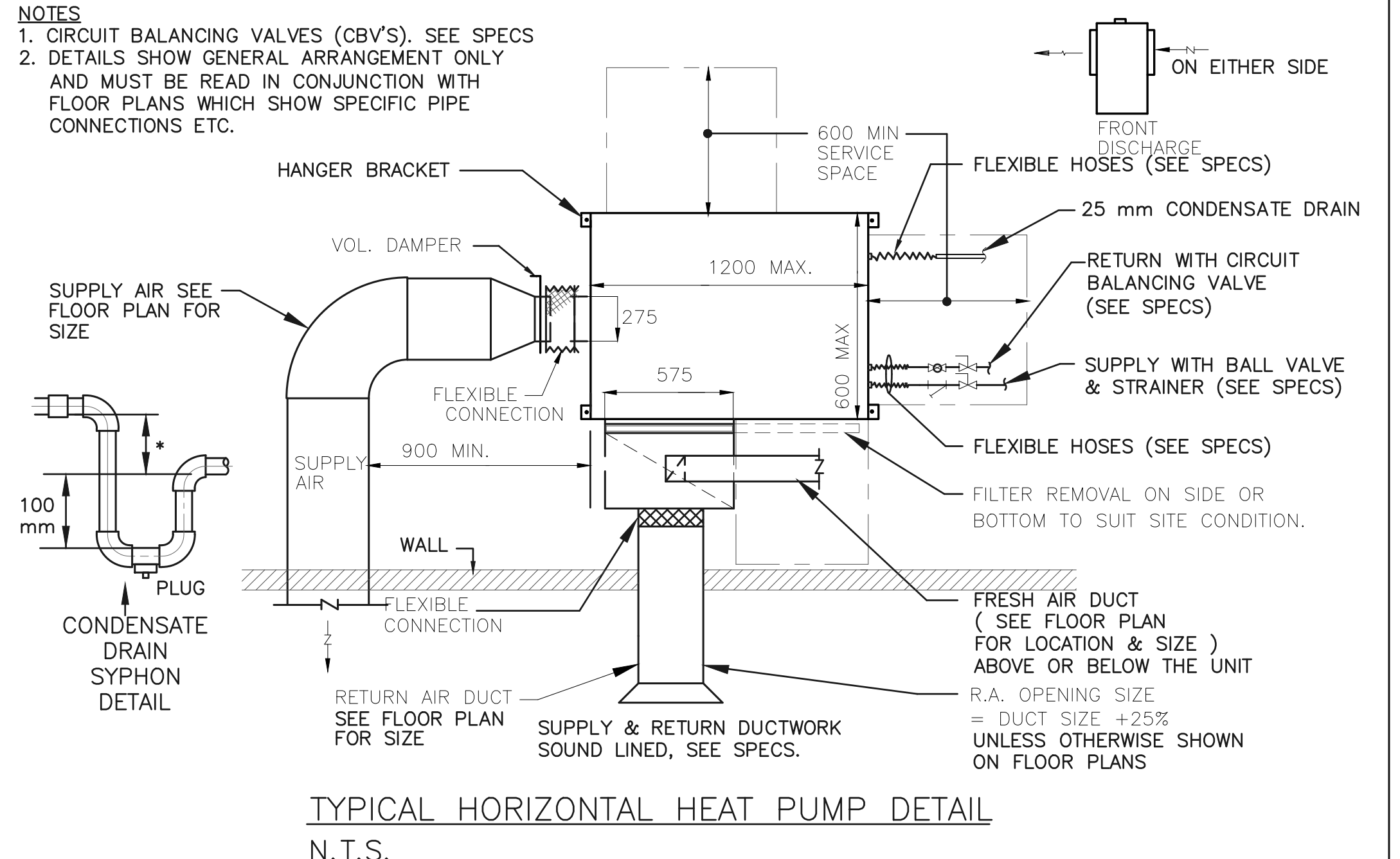
**2** ROOM 310/310A HVAC  
 M2.0 SCALE 1/8" = 1'-0"



**1** ROOM 308/308A HVAC PIPING  
 M2.0 SCALE 1/8" = 1'-0"



**1** FLOOR PLAN - ROOM 310/310A HVAC PIPING  
 M2.0 SCALE 1/8" = 1'-0"



ALL SHUTDOWNS OF ANY BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE LANDLORD'S / OWNER'S BUILDING OPERATIONS STAFF AND COORDINATED WITH THE LANDLORD / OWNER FOR THE TIME AND DURATION OF INTERRUPTIONS. WRITTEN REQUESTS MUST BE PROVIDED 72 HOURS (MINIMUM) IN ADVANCE FOR SHUTDOWN OF ANY MECHANICAL SYSTEM PRIOR TO THE PROPOSED SHUTDOWN TIME. FILLING, DRAINING, AND TESTING OF FIRE PROTECTION AND OTHER SYSTEMS SHALL BE CARRIED OUT AFTER REGULAR RETAIL HOURS OF OPERATION AND SCHEDULED WITH THE LANDLORD / OWNER.

EX MECHANICAL SCHEDULENO. 15 - HEAT PUMPS											
TYPE	SIZE	COOLING CAPACITY (TH)BTUH	HEATING CAPACITY (TH)BTUH	HEAT OF REJECT BTUH	HEAT OF ABSORB. BTUH	AIR FLOW CFM	E.S.P. W.G.	WATER FLOW GPM	WATER P.D. FT.	VOLTAGE PHASE	PIPE SIZE
A	012	11344	13600	14421	10484	350	0.3	2.5	4.2	208/1	3/4"
B	018	18793	23971	25248	20188	750	0.3	40	1.6	208/1	1"
C	030	29241	36701	37935	29144	1030	0.3	6.5	3.3	208/3	1"
D	036	35255	42353	44642	34287	1330	0.3	7.5	9.1	208/3	1-1/4"
E	048	46607	56832	59852	42850	1680	0.3	10.0	12.1	208/3	1-1/4"

MECHANICAL SCHEDULENO. 7 - AIR DIFFUSERS EX							
DESIGNATION	SERIES	FRAME	FACEPLATE SIZE	NECK SIZE	AK	CFM	REMARKS
D-1	ASPD	31	24" X24"	60	0.20	150	
D-2	ASPD	31	24" X24"	6"0	0.20	150	
D-3	ASPD	31	24" X24"	8"0	0.35	300	
D-4	ASPD	31	24" X24"	10"0	0.55	400	
D-5	ASPD	31	24" X24"	10"0	0.55	500	
NOTE: FOR DRYWALL CEILING INSTALLATION, PROVIDE SPF STEEL SURFACE MOUNT ADAPTOR FRAME.							

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