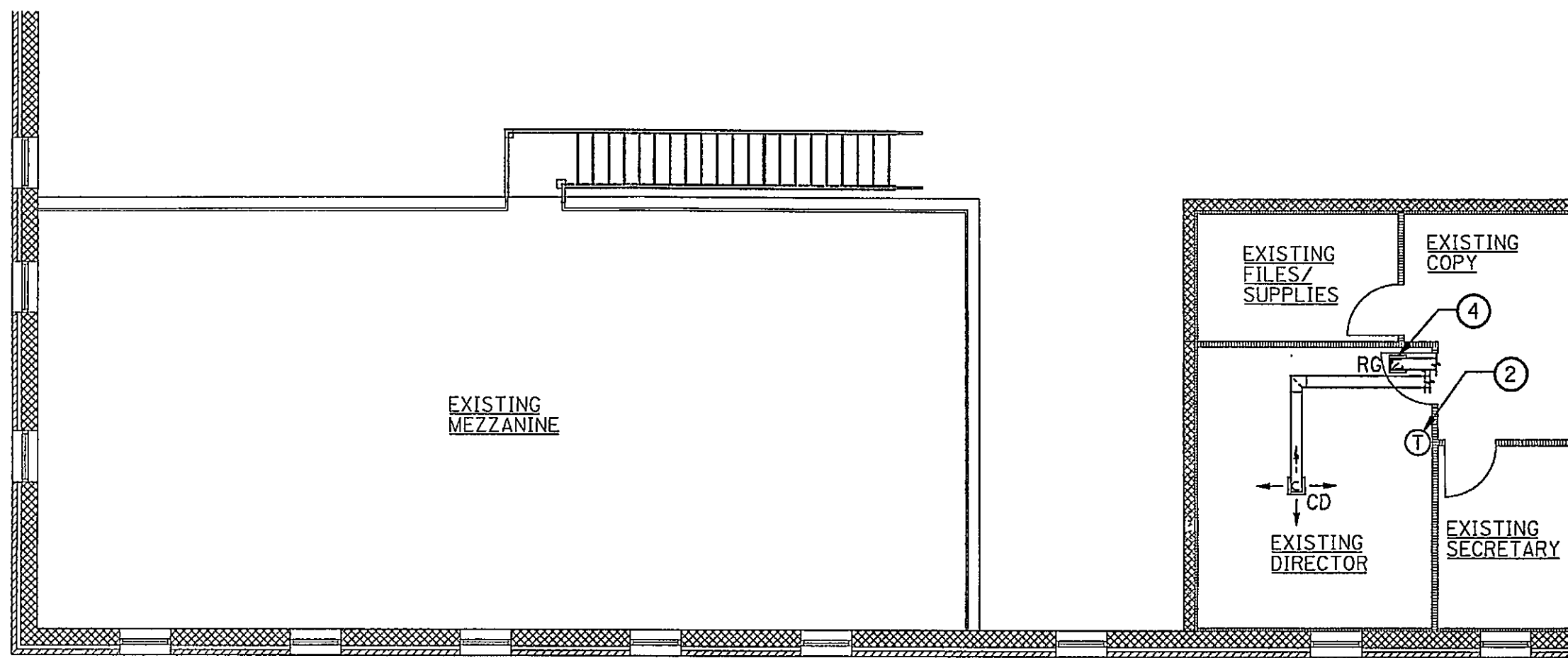


DEMOLITION - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

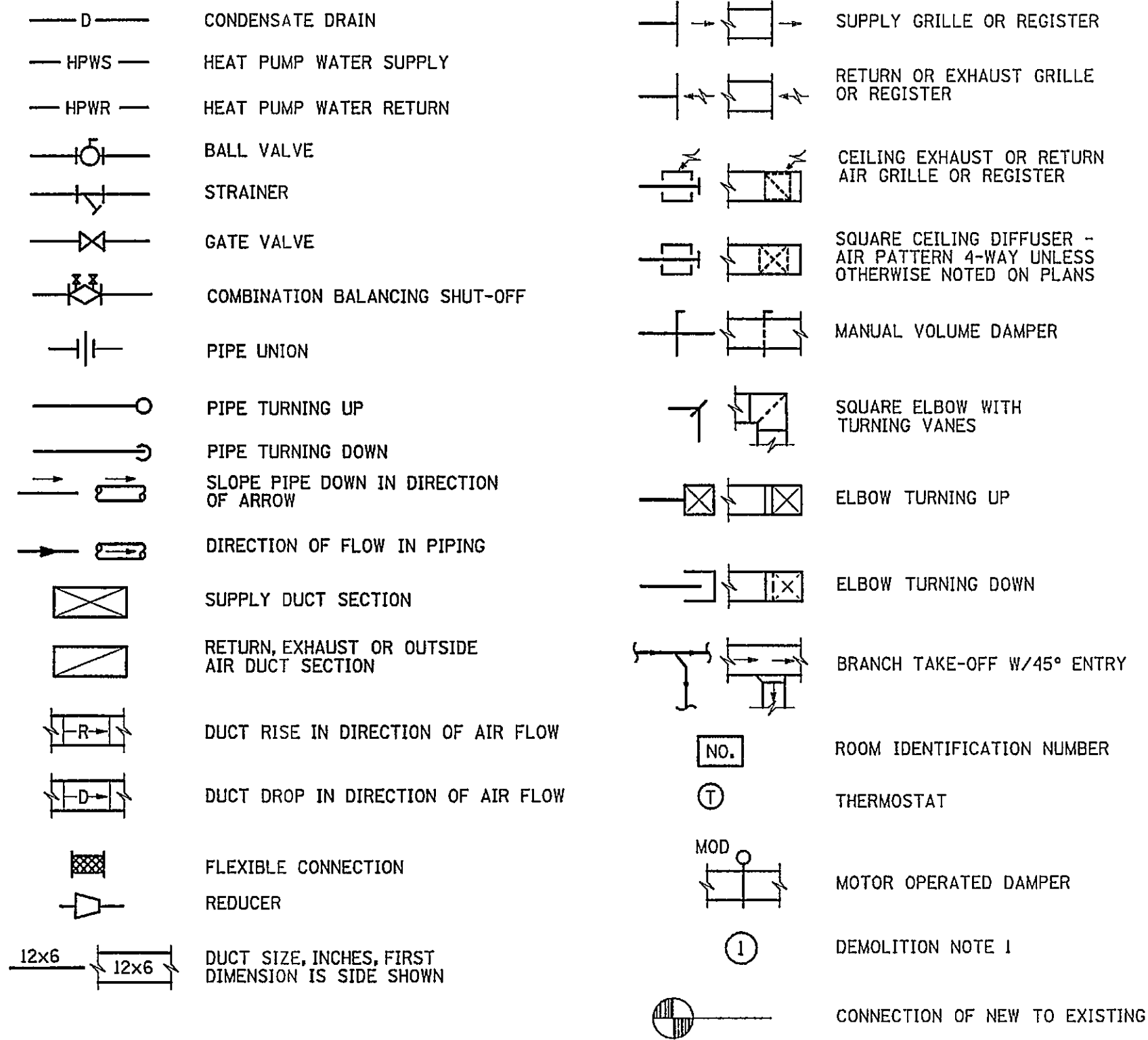
DEMOLITION NOTES:

1. REMOVE EXISTING UNIT HEATERS AND RELOCATE PER NEW WORK PLAN.
2. REMOVE EXISTING THERMOSTAT AND CONTROL WIRING, AND RELOCATE PER NEW WORK PLAN.
3. REMOVE EXISTING DOSING PUMP AND RELOCATE PER NEW WORK PLAN.
3. REMOVE EXISTING RETURN GRILLE AND RELOCATE PER NEW WORK PLAN.

GENERAL NOTES - HVAC

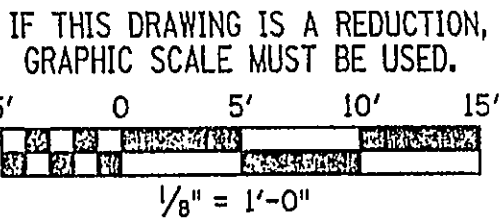
1. COORDINATE MECHANICAL EQUIPMENT AND MATERIAL LOCATIONS WITH ELECTRICAL AND ARCHITECTURAL PLANS TO AVOID CONFLICTS.
2. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WORK WITH THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE ARCHITECT SHALL BE ADVISED IMMEDIATELY, AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
5. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THIS CONTRACTOR FOR BEAMS, COLUMNS OR OTHER OBSTRUCTIONS OF THE BUILDING OR THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SAME IS INDICATED. WHERE NECESSARY TO AVOID OBSTRUCTIONS, THE DUCTS SHALL BE TRANSFORMED, DIVIDED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED.
6. SEE REFLECTED CEILING PLANS FOR EXACT LOCATION OF AIR DEVICES.
7. ALL PIPING AND DUCTWORK, ETC., SHALL BE SLEEVED THROUGH WALL PENETRATIONS.
8. RUN ALL DUCTWORK AND PIPING CONCEALED ABOVE CEILING AND AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED OR INDICATED.
9. PROVIDE FLEXIBLE CONNECTIONS BETWEEN HVAC UNITS AND SHEET METAL DUCTWORK.
10. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN HVAC PIPING SYSTEM.
11. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER SO THAT ALL FILTERS, VALVES, MOTORS, ETC., ARE COMPLETELY ACCESSIBLE AND SERVICEABLE, INCLUDING ACCESS DOORS IF REQUIRED.
12. COMPLETE AND PROPER INSTALLATION OF THERMOSTATS AND ALL OTHER NECESSARY FIELD MOUNTED CONTROL COMPONENTS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THE MANUFACTURER OF HVAC UNITS, ETC., SHALL FURNISH COMPLETE WIRING CONTROLS. ALL CONTROL WIRING SHALL BE IN CONDUIT AND INSTALLED PER DIVISION 16 OF THE SPECIFICATIONS
13. SLOPE CONDENSATE DRAINS AT 1/4" INCH FALL PER FOOT MINIMUM IN THE DIRECTION OF FLOW. PROVIDE DRAINAGE TYPE FITTINGS.
14. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF ARCHITECT.
15. PROVIDE AIR TURNING DEVICES IN DUCTWORK AT ANY CHANGES IN DIRECTION OF 30 DEGREES OR GREATER.
16. SQUARE THROAT ELBOWS WITHOUT TURNING VANES, MITERED ELBOWS, STRAIGHT RECTANGULAR AND ROUND DUCT TAPS, AND AIR SCOOPS ARE NOT PERMITTED.

HEATING, VENTILATING AND AIR CONDITIONING LEGEND

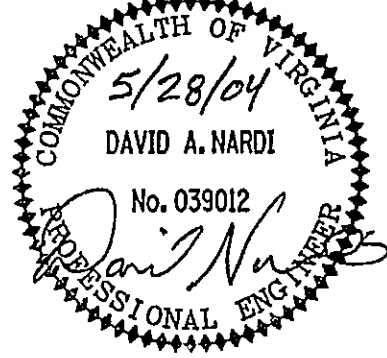


ABBREVIATIONS

ABV	ABOVE	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HPWS	HEAT PUMP WATER SUPPLY
ARCH	ARCHITECTURAL	HPWR	HEAT PUMP WATER RETURN
BEL	BELOW	IN	INCHES
BLDG	BUILDING	KW	KILOWATT
CD	CEILING DIFFUSER	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM
CONT	CONTINUATION	MBH	THOUSAND BTU PER HOUR
DB	DRY BULB	MIN	MINIMUM
DEG	DEGREES	MOD	MOTOR OPERATED DAMPER
DN	DOWN	NC	NORMALLY CLOSED
DWG	DRAWING	NO	NORMALLY OPEN
EA	EACH	NO.	NUMBER
ELEC	ELECTRICAL	OA	OUTSIDE AIR
EAT	ENTERING AIR TEMPERATURE	PD	PRESSURE DROP
EG	EXHAUST GRILLE	RG	RETURN GRILLE
EXIST	EXISTING	TG	TRANSFER GRILLE
F	FAHRENHEIT	TYP	TYPICAL
FL	FLOOR	UH	UNIT HEATER
FR	FROM	W/	WITH
FT	FEET	WB	WET BULB
FT HD	FEET OF HEAD	WSHP	WATER SOURCE HEAT PUMP
GPM	GALLONS PER MINUTE	Ø	DIAMETER



REV.	DATE	BY	APP.	DESCRIPTION



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DESIGNED DAN	DRAWN DAN	PROJECT CRYSTAL SPRING WATER TREATMENT PLANT BUILDING MODIFICATION DESIGN CITY OF ROANOKE, VIRGINIA
CHECKED MJG	REVIEWED MJG	REFERENCE MECHANICAL
COMM. NO. 204079.00	CADD NO. 204079M1.DGN	TITLE DEMOLITION, GENERAL NOTES & LEGEND
DATE MAY 28, 2004	DWG. NO. M-1	SHEET NO. 5 OF 10
		REV. 0