

SYMBOLS AND ABBREVIATIONS

ABV	AUTOMATIC BALANCING VALVE	HWS	HOT WATER SUPPLY	WATER SUPPLY PIPING
AC	AIR CONDITIONING	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WATER RETURN PIPING
AD	ACCESS DOOR	IER	INVERTED ECCENTRIC REDUCER	EXISTING PIPING
AFF	ABOVE FINISH FLOOR	L	LOUVER	PIPE ANCHOR
AP	ACCESS PANEL	LAT	LEAVING AIR TEMPERATURE	UNION
APD	AIR PRESSURE DROP	LDB	LEAVING DRY BULB	FLANGE
ATC	AUTOMATIC TEMP. CONTROL	LWB	LEAVING WET BULB	GATE VALVE
AV	AUTOMATIC VENT	MBH	THOUSAND BTU PER HOUR	GLOBE VALVE
BD	BACKDRAFT DAMPER	MD	MANUAL DAMPER	CHECK VALVE
BJ	BAR JOIST	MOD	MOTOR OPERATED DAMPER	BALANCING VALVE
BV	BALANCING VALVE	MV	MANUAL VENT	CONTROL VALVE (TWO WAY)
CCU	COMPRESSOR/CONDENSER UNIT	NTS	NOT TO SCALE	CONTROL VALVE (THREE WAY)
CFH	CUBIC FEET PER HOUR	OA	OUTDOOR AIR	BALL VALVE
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIMENSION	STRAINER
CTE	CONNECT TO EXISTING	P	PUMP	INVERTED ECCENTRIC REDUCER
CV	CONTROL VALVE	PC	PLUMBING CONTRACTOR	THERMOSTAT
D	DRAIN	P6	PRESSURE GAUGE	THERMOSTAT WITH GUARD
DIC	DOWN IN CORNER/CHASE	R	RETURN	CONNECT TO EXISTING
DIFF	DIFFUSER	RA	RETURN AIR	MANUAL DAMPER
DIW	DOWN IN WALL	RHC	REHEAT COIL	FLEXIBLE DUCT
DSD	DUCT SMOKE DETECTOR	RIS	RUBBER-IN-SHEAR RETURN REGISTER	LAY-IN DIFFUSER
EAT	ENTERING AIR TEMPERATURE	RR	RETURN REGISTER	SURFACE MOUNT DIFFUSER
EC	ELECTRICAL CONTRACTOR	S	SUPPLY	SUPPLY AIR DUCT
EDB	ENTERING DRY BULB	SA	SUPPLY AIR	RETURN / RELIEF AIR DUCT
EF	EXHAUST FAN	SG	SUPPLY GRILLE	
EG	EXHAUST GRILLE	SP	STATIC PRESSURE	
ER	EXHAUST REGISTER	SR	SUPPLY REGISTER	
ESP	EXTERNAL STATIC PRESSURE	T	THERMOMETER	
EWB	ENTERING WET BULB	TC	TEMPERATURE CONTROL	
EWT	ENTERING WATER TEMPERATURE	TCP	TEMPERATURE CONTROL PANEL	
FC	FLEXIBLE CONNECTOR	TG	TRANSFER GRILLE	
FD	FIRE DAMPER	T5	TRANSFER SILENCER	
FP	FINNED PIPE	TSP	TOTAL STATIC PRESSURE	
FV	FACE VELOCITY	TSTAT	THERMOSTAT	
GC	GENERAL CONTRACTOR	TV	TURNING VANE	
GPH	GALLONS PER HOUR	UC	UNDERCUT	
GPM	GALLONS PER MINUTE	V	VENT	
GV	GATE VALVE	VI	VIBRATION ISOLATOR	
HC	HEATING CONTRACTOR	WPD	WATER PRESSURE DROP	
HD	HEAVY DUTY	WTD	WATER TEMPERATURE DROP	
HRU	HEAT RECOVERY UNIT			
HWR	HOT WATER RETURN			

VARIABLE AIR VOLUME UNIT SCHEDULE

UNIT TAG	UNIT SIZE	VALVE		HEATING COIL				REMARKS						
		MAX.	MIN.	SIZE	CFM	ROWS	EAT		LAT	MBH	EWT	GPM	WPD	S.P.
VAV 5-12	14	2,100	1,050	14	1,050	2	55	43.4	43.55	180	1.75	0.53	0.38	SINGLE DUCT TERMINAL
VAV 5-13	14	1,820	910	14	910	2	55	44.5	38.86	180	1.50	0.41	0.24	SINGLE DUCT TERMINAL
VAV 5-14	14	1,700	560	14	560	2	55	118.3	35.68	180	1.25	0.21	0.26	SINGLE DUCT TERMINAL
VAV 5-15	6	200	0	6	na	na	na	na	na	na	na	na	na	SINGLE DUCT TERMINAL

COIL FACE VELOCITY AND STATIC PRESSURE ARE BASED ON THE MAXIMUM AIR FLOW RATE. BASED ON 40% GLYCOL SOLUTION

GENERAL NOTES

- Mechanical Contractor shall coordinate work with all other trades.
- All piping and ductwork shall be run concealed and on warm side of building insulation unless noted otherwise.
- Piping and ductwork is shown diagrammatically. Exact locations to be adjusted as required to suit field conditions.
- All duct sizes indicated are outside (sheet metal) dimensions.
- All cutting and patching shall be provided by General Contractor.
- All square elbows in ductwork shall have turning vanes.
- Refer to reflected ceiling plans for exact locations of all ceiling registers, diffusers and grilles.
- All dimensions are approximate and are to be verified in the field.
- Heating systems designed for 180°F. water entering water temperature. All branch water piping to individual terminal heating units to be not less than 3/4" unless noted otherwise.
- All reductions in water pipe sizes in the direction of flow shall be accomplished with inverted eccentric reducers. Reducing tee fittings are not acceptable.
- Provide automatic air vents at all locations where water piping drops in the direction of flow, at all high points and elsewhere as indicated on drawings.
- Provide drains at all low points in the water piping system.

AIR TERMINAL SCHEDULE

TAG	NECK SIZE	MAX CFM	MAX NC	REMARKS
D1	6" DIA	140	20	SQUARE DIFFUSER / LAY-IN FRAME
D2	8" DIA	250	20	SQUARE DIFFUSER / LAY-IN FRAME
D3	10" DIA	400	20	SQUARE DIFFUSER / LAY-IN FRAME
D4	12" DIA	600	20	SQUARE DIFFUSER / LAY-IN FRAME
D5	8" DIA	250	20	SQUARE DIFFUSER / PLASTER FRAME
D6	10" DIA	400	20	SQUARE DIFFUSER / PLASTER FRAME
ERI	14"x8"	300	20	EXHAUST REGISTER
RR1	24"x12"	600	20	RETURN REGISTER / LAY IN FRAME
RR2	24"x24"	1,000	20	RETURN REGISTER / LAY IN FRAME
SRI	14"x8"	0	20	DOUBLE DEFLECTION SUPPLY REGISTER



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Issued For Construction
MECHANICAL
LEGEND, NOTES
& SCHEDULE

M3



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