

HEAT PUMP SCHEDULE (ELECTRICAL POWER = 208V/3Ø/60Hz)											
MARK	MFGR.	MOD. NO.	SYSTEM	CFM	MIN. OSA (%)	COOLING MBH	HEATING MBH	AUX. HEAT (KW)	COP	EER	SEER
AHU-1 & HP-1	CARRIER	40RR012-6 38AQS012-6	SPLIT	3795	35.4	113.6	63.6	16.0	2.89	8.4	--
AHU-2 & HP-2	CARRIER	40RR016-6 38AQS016-6	SPLIT	5110	30	166.5	94.2	20.0	2.86	7.9	--
AHU-3 & HP-3 2 EA. HP-3	CARRIER	40RR024-6 38AQS012-6 (2 REQ'D.)	SPLIT	7100	30	193.8	119.7	20.0	2.68	7.52	--
AHU-4 & HP-4	CARRIER	40RR012-6 38AQS012-6	SPLIT	3250	30	117.3	62.5	32.0	2.84	9.0	--
AHU-5 & HP-5	CARRIER	40RR016-6 38AQS016-6	SPLIT	5640	30	175.3	95.3	20.0	2.72	8.22	--
AHU-6 & HP-6	CARRIER	40RR012-6 38AQS012-6	SPLIT	3985	36.5	114.7	64.0	16.0	2.89	8.46	--

AIR TERMINAL SCHEDULE						
KEY MARK = (X) XXX -- AIR BALANCE (CFM)						
MARK	SIZE IN. x IN.	SYMBOL	AIR PATTERN	FIRE DAMPER	MODEL NO.	MANUFACTURER
(1)	4'-0" LG.	SALD	1-WAY	NO	35BD-AG	CARRIER
(2)	4'-0" LG.	SALD	1-WAY	NO	35BD-AH	CARRIER
(3)	4'-0" LG.	SALD	2-WAY	NO	35BD-AG	CARRIER
(4)	4'-0" LG.	SALD	2-WAY	NO	35BD-AH	CARRIER
(5)	NOT USED					
(6)	NOT USED					
(7)	20X8	SAWD	4-WAY	NO	880-H	KRUEGER
(8)	36X14	RAWR	- - -	NO	33RL	TITUS
(9)	32X8	SAWR	4-WAY	NO	880-H	KRUEGER
(10)	9X9	SACD	2-WAY	NO	S-2	KRUEGER
(11)	36X18	RAWR	- - -	NO	33RL	TITUS
(12)	48X24	DAL	- - -	NO	EL-104-T	LOUVERS & DAMPERS INC.*
(13)	6X6	SACD	2-WAY	NO	S-D2	KRUEGER
(14)	9X9	SACD	3-WAY	NO	S-3	KRUEGER
(15)	6X6	SACD	1-WAY	NO	S-1	KRUEGER
(16)	6X6	EXCR	- - -	NO	33RL	TITUS
(17)	12X24	DAL	- - -	NO	EL-104-T	LOUVERS & DAMPERS INC.*
(18)	NOT USED					
(19)	16X16	RACR	- - -	NO	30RL	TITUS
(20)	24X8	SAWR	4-WAY	NO	880-H	KRUEGER
(21)	12X12	RACR	- - -	NO	30RL	TITUS
(22)	24X16	RACR	- - -	NO	30RL	TITUS
(23)	8X8	RACR	- - -	NO	30RL	TITUS
(24)	12X24	DAL	- - -	NO	EL-104-T	LOUVERS & DAMPERS INC.*
(25)	12X6	EXCG	- - -	NO	S80	KRUEGER
(26)	9X9	SACD	3-WAY	NO	SH-3	KRUEGER
(27)	48X46 1/2	DAL	- - -	NO	EL-104-T	LOUVERS & DAMPERS INC.*
(28)	24X46 1/2	DAL	- - -	NO	EL-104-T	*
(29)	1/2"x1 1/2" GALVANIZED WW SCREEN					
NOTE: LAY-IN CEILING MOUNTED DIFFUSERS, GRILLES, AND REGISTERS ARE TO BE FACTORY MOUNTED UNITS IN A 2 FT. X 2 FT. LAY-IN PANEL FOR INSTALLATION IN A STANDARD 2 FT. X 4 FT. LAY-IN CEILING GRID. TRIM PARTIAL PANELS AS REQUIRED. THE LAY-IN PANEL SHALL HAVE A DROPPED CENTER TO MATCH THE TEGULAR CEILING. SLOT DIFFUSERS SHALL HAVE MOUNTING CLIPS AS NECESSARY TO ACCOMMODATE A TEGULAR CEILING. COORDINATE COLOR WITH ARCHITECT. OUTSIDE AIR LOUVERS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. SEE ARCHITECTURAL SPECIFICATIONS.						
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ZONE DAMPER SCHEDULE				
MARK	SIZE		ZONE CFM	
	DIA. (IN.)	HxW (IN.)	NOM.	MAX.
(1)	6"	--	160	235
(2)	8"	--	280	420
(3)	10"	--	440	655
(4)	12"	--	630	950
(5)	14"	--	855	1280
(6)	16"	--	1120	1675
(7)	--	8X10	410	615
(8)	--	8X14	560	835
(9)	--	8X18	725	1090
(10)	--	8X24	930	1395
BYPASS DAMPER SCHEDULE				
MARK	SIZE DIA. INCHES	MAX. CFM	E.S.P.	CARRIER MODEL NO.
(1)	8"	540	0.5	ZD-06
(2)	10"	1000	0.5	ZD-010
(3)	12"	1610	0.5	ZD-012
(4)	16"	3450	0.5	ZD-016

PLUMBING LEGEND			
SYMBOL	ABBR.	DESCRIPTION	USED ON
Ø	DIA	DIAMETER	X
	TYP	TYPICAL	X
	CFM	CUBIC FEET PER MIN.	X
	FPM	FT. PER MIN.	X
→		DIRECTION OF FLOW	X
—SD—	SD	STORM DRAIN	X
—RL—	RL	ROOF LEADER (DOWNSPOUT)	X
—D—	D	CONDENSATE DRAIN	X
—V—	V	VENT LINE	X
	VTR	VENT THRU ROOF	X
—○—	UP	PIPE COMING UP	X
—→	DN	PIPE GOING DOWN	X
— — —	CW	COLD WATER	X
— — — —	HW	HOT WATER (140°F)	X
—x—	HB	HOSE BIBB	X
— —	CO	CLEAN OUT	X
☒ or ☐	FD	FLOOR DRAIN	X
AD or AD or ☐	AD	AREA DRAIN	X
☐ or ☐	DF	DRINKING FOUNTAIN	X
☐ or ☐ or ☐	L	LAVATORY	X
☐ or ☐	S	SINK	X
☐ or ☐ or ☐	SS	SERVICE SINK	X
☐ or ☐	WC	WATER CLOSET	X

NOTES:

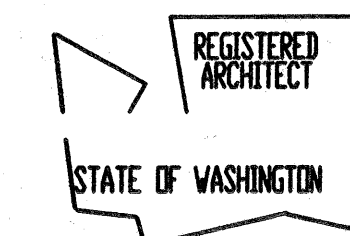
- SEE SECTION 15 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE MECHANICAL SPECIFICATIONS.
- ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND TO COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL MISCELLANEOUS VALVES, UNIONS, FITTINGS, HANGERS, AND APPURTENANCES SHALL BE PROVIDED FOR A TOP QUALITY INSTALLATION, COMPLETE AND OPERABLE IN EVERY RESPECT.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE 3 COPIES OF MAINTENANCE AND OPERATING INSTRUCTIONS, BOUND IN A HARD COVER, TO THE OWNER.
- THE MECHANICAL DRAWINGS ARE PRIMARILY SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED FOR EQUIPMENT SIZE AND LOCATIONS. LOCATE EQUIPMENT BY ACTUAL JOB SITE MEASUREMENTS.
- THE AIR DISTRIBUTION AND EXHAUST SYSTEMS SHALL INCLUDE DAMPERS, SPLITTER DAMPERS, EXTRACTION DAMPERS, TURNING VANES, AND ALL OTHER MISCELLANEOUS APPURTENANCES AS REQUIRED FOR A COMPLETE HIGH QUALITY SYSTEM CAPABLE OF BEING BALANCED USING STANDARD TECHNIQUES. THE SYSTEM SHALL BE BALANCED TO THE CAPACITIES SHOWN ON THE DRAWINGS BY PERSONNEL NORMALLY ENGAGED IN THE AIR BALANCING TRADE.
- PROVIDE FIRE DAMPERS AS REQUIRED TO MEET APPLICABLE CODES AND AT ALL FIRE RATED SEPARATIONS. PROVIDE COMMERCIAL AIR TIGHT ACCESS PANELS INTO DUCTS TO FACILITATE REPLACEMENT OF FUSIBLE LINKS.
- AIR DISTRIBUTION PATTERNS ARE INDICATED BY ARROWS ON THE AIR TERMINAL SYMBOLS. ALL AIR TERMINALS SHALL INCLUDE OPPOSED BLADE VOLUME CONTROLS.
- ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE DIMENSIONS.

HVAC LEGEND			
SYMBOL	ABBR.	DESCRIPTION	USED ON
Ⓢ		THERMOSTAT	X
☒	SA	SUPPLY AIR DUCT	X
☒	RA	RETURN AIR DUCT	X
☒	EX	EXHAUST DUCT	X
☒	SF	SUPPLY FAN	X
☒	EF	EXHAUST FAN	X
☒	CD	CEILING DIFFUSER	X
☒	CR	CEILING REGISTER	X
☒	WR	WALL REGISTER-SA	X
☒	WR	WALL REGISTER-RA OR EX	X
☒	CG	CEILING GRILLE-RA OR EX	X
☒	LCD	LINEAR CLG. DIF.	X
☒	LWD	LINEAR WALL DIF.-SA	X
☒	LWR	LINEAR WALL REG-RA OR EX	X
☒	DAL	OUTSIDE AIR LOUVER	X
☒		VENT CAP	X
☒	W/OBVC	WITH OPPOSED BLADE VOL. CONT.	X
☒	W/FD	WITH FIRE DAMPER	X
☒	FD	FIRE DAMPER	X
☒	VD	VOLUME DAMPER	X
☒	SD	SMOKE DAMPER	X
☒	S/FD	COMBINATION SMOKE/FIRE DAMPER	X
☒	AHU	AIR HANDLING UNIT	X

PIPING LEGEND			
SYMBOL	ABBR.	DESCRIPTION	USED ON
☒	PRV	PRESSURE RED. VALVE	X
☒	GV	GATE VALVE	X
☒	RV	P & T RELIEF VALVE	X
☒		CHECK VALVE	X
☒	S&W	STOP & WASTE VALVE	X
☒	WH	WATER HEATER	X

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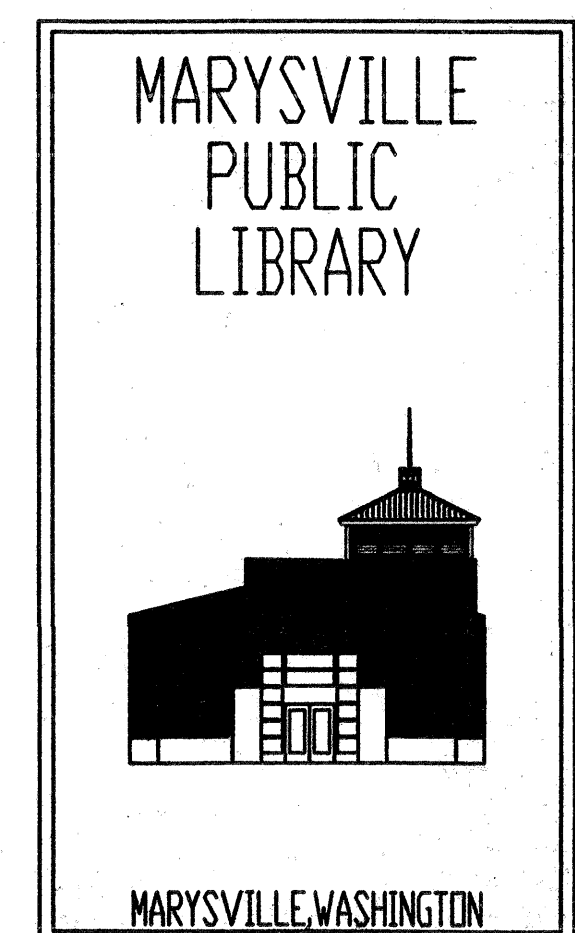
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AND REVISIONS BY PLAN CHECKSTATE OF WASHINGTON
DIVISION OF CONSTRUCTION
DIVISION OF CONSTRUCTION

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