

AIR HANDLING UNIT SCHEDULE																																
NO.	LOCATION	TYPE	TOTAL AIR CFM	OUTSIDE AIR CFM	PREHEAT										COOLING										FILTERS			REMARKS				
					CFM	TOTAL MBH	EAT	LAT	MAX. FACE VELOCITY	MAX. APD IN. W.G.	MIN ROWS	MAX. WPD FEET	EWT	LWT	GPM	CFM	TOTAL MBH	EAT		LAT		MAX. FACE VELOCITY	MAX. APD IN. W.G.	MIN ROWS	MAX. WPD FEET	EWT	LWT		GPM	SERVICE	NO. & SIZE	EFF
																		DB	WB	DB	WB											
AC-23	FIFTH FLOOR MECH ROOM	FACTORY ASSEMBLED	15,390		15,390	311	50	70	450	0.12	1	10	60	34.5	21	15,390	648	80	67	52	51.5	460	0.96	6	15	43	57	93	PRE FINAL	(8) 24x24x2 (8) 24x24x12	30 90	①
AC-23A	FIFTH FLOOR MECH ROOM	FACTORY ASSEMBLED	3,390	500	-	-	-	-	-	-	-	-	-	-	-	3,390	146	80	67	52	51.5	460	0.96	6	15	43	57	21	PRE FINAL	(2) 24x24x2 (2) 24x24x12	30 90	
NOTES:																																
①	EXISTING AHU. THOROUGHLY VACUUM CLEAN ALL SURFACES IN CONTACT WITH AIR STREAM. CHEMICALLY CLEAN COILS TO LIKE NEW CONDITION. PROVIDE NEW PRE AND FINAL FILTERS, BELTS AND DRIVES. REBALANCE TO INDICATED CONDITIONS.																															

AIR TERMINAL UNIT SCHEDULE											
CFM RANGE	AIR SERVICE	DUCT RUNOUT SIZE	REHEAT COIL MBH ①	GPM	PIPE RUNOUT SIZE	DISCHARGE SOUND ATTENUATOR					REMARKS
						LENGTH IN	ATTENUATION (GB)				
0-160	VARIABLE	6"ø	3.5	0.5	1/2"	-	-	-	-	-	②
161-330	VARIABLE	8"ø	7.1	0.5	1/2"	36	2	2	5	13	0.02 ②
331-550	VARIABLE	10"ø	13.0	0.9	1/2"	36	2	2	5	13	0.02 ②
551-960	VARIABLE	12"ø	20.5	1.4	3/4"	36	7	11	16	24	0.10 ②
961-1450	VARIABLE	14"ø	31.3	2.1	3/4"	36	7	11	16	24	0.10 ②
0-160	CONSTANT	6"ø	6.0	0.5	1/2"	-	-	-	-	-	② ③
161-330	CONSTANT	8"ø	12.5	0.8	1/2"	36	2	2	5	13	0.02 ② ③
331-550	CONSTANT	10"ø	26.0	1.7	3/4"	36	2	2	5	13	0.02 ② ③
551-950	CONSTANT	12"ø	36.0	2.4	3/4"	36	7	11	16	24	0.10 ② ③
951-1450	CONSTANT	14"ø	55.0	3.7	1"	36	7	11	16	24	0.10 ② ③
NOTES: ① BASED ON 180 DEGREE F ENTERING WATER TEMPERATURE AND 55 DEGREE F ENTERING AIR TEMPERATURE. VARIABLE VOLUME UNITS BASED ON 35 PERCENT MINIMUM AIR FLOW. ② ALL ATU'S SHALL BE SHIPPED FROM FACTORY WITH MINIMUM CFM SET TO ZERO. WHEN HEATING WATER BECOMES AVAILABLE ADJUST MINIMUM CFM TO BE SAME AS MAXIMUM CFM FOR CONSTANT VOLUME UNITS OR 35% OF MAXIMUM CFM FOR VARIABLE VOLUME UNITS. ③ PROVIDE ATU INTERNAL LINING WITH MYLAR FACING OR EQUIVALENT NON-ERODING FACING.											

FAN SCHEDULE											
NO.	LOCATION	TYPE	CFM	FAN RPM	S.P. IN. W.G.	WHEEL DIAM	MOTOR HP	MOTOR RPM	VOLTS	PHASE	REMARKS
AC-23	FIFTH FLOOR MECH ROOM	AF-CENTRIF	15,390	1290	5.0"	22	25	1750	460	3	①
AC-23A	FIFTH FLOOR MECH ROOM	AF-CENTRIF	3,390	1945	4.0"	10	7.5	1800	460	3	②
RF-23	FIFTH FLOOR MECH ROOM	IN LINE CENT	13,250	1100	1.5"	30	10	1750	460	3	②
RF-23A	FIFTH FLOOR MECH ROOM	IN LINE CENT	3,100	1285	1.0"	18.25	1.5	1750	460	3	②
NOTES: ① EXISTING FAN WITH EXISTING VSD. BALANCE TO INDICATED CONDITIONS. ② PROVIDE VARIABLE SPEED DRIVE.											
3,600											

PLUMBING FIXTURE SCHEDULE							
DESIGN	DESCRIPTION	SAN	TRAP	VENT	CW	HW	REMARKS
P-1	WATER CLOSET	4"	INT	2"	1"	-	
P-1A	WATER CLOSET	4"	INT	2"	1"	-	
P-2	SCRUB SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-3	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-3A	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-4	JAN SINK	3"	3"	1-1/2"	1/2"	1/2"	
P-5	WATER COOLER	(2) 1-1/2"	(2) 1-1/2"	1-1/2"	(2) 1/2"	-	
P-6	COUNTER SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-6A	COUNTER SINK	(2) 1-1/2"	(2) 1-1/2"	1-1/2"	1/2"	1/2"	
P-6B	COUNTER SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-6C	COUNTER SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	PLASTER TRAP

ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
SA	SUPPLY AIR			GATE VALVE, GLOBE VALVE
OA	OUTSIDE AIR			CHECK VALVE
RA	RETURN AIR			PORTABLE FLOW METER, GPM
EXH	EXHAUST			BACK WATER VALVE
CLG	CEILING		BFP	BACK FLOW PREVENTER
VTR	VENT THRU ROOF			BALANCING VALVE
INV	INVERT ELEVATION			TEMPERATURE CONTROL VALVE(2 WAY,3 WAY)
TYP	TYPICAL			PRESSURE REDUCING VALVE
DN	DOWN			RELIEF OR SAFETY VALVES
AFF	ABOVE FINISHED FLOOR			MANUAL AIR VENT
FS	FLOW SWITCH			AUTOMATIC AIR VENT
TS	TAMPER SWITCH			STRAINER
FDV	FIRE DEPARTMENT VALVE			UNION
FDC	FIRE DEPARTMENT CONNECTION		EMD	END OF MAIN DRIP (SEE DETAIL)
A.D.	ACCESS DOOR		①	THERMOSTAT
U.H.	UNIT HEATER			THERMOMETER
CFM	CUBIC FEET PER MINUTE			PRESSURE GAUGE
AHU	AIR HANDLING UNIT			PIPE ANCHOR, PIPE GUIDE
ATU	AIR TERMINAL UNIT		WB	WALL HYDRANT
C.V.	CONSTANT VOLUME			PIPE TURNED UP, PIPE TURNED DOWN
VAV	VARIABLE AIR VOLUME		FD	FLOOR DRAIN
CD	CEILING DIFFUSER		FS	FLOOR SINK
RG	RETURN OR EXHAUST GRILLE		FC	FLEXIBLE CONNECTION
RR	RETURN OR EXHAUST REGISTER		FD	FIRE DAMPER
DWH	DOMESTIC WATER HEATER		VD	VOLUME DAMPER
EF	EXHAUST FAN		MOD	MOTOR OPERATED DAMPER
			SDD	SMOKE DUCT DETECTOR
				SUPPLY DUCT TURNED UP, TURNED DOWN
				RETURN DUCT TURNED UP, TURNED DOWN
				DIRECTION OF RISE IN DUCT
				SQUARE TO ROUND TRANSITION
			①	REFER TO NOTE 1 ON THIS SHEET

SYMBOL	ABBREV.	DESCRIPTION
	CX	CONNECT NEW WORK TO EXISTING
	EX	EXISTING WORK TO REMAIN
	RX	REMOVE EXISTING WORK
		RELOCATED WORK
	HPS	HIGH PRESSURE STEAM
	LPS	LOW PRESSURE STEAM
	HPR	HIGH PRESSURE RETURN
	LPR	LOW PRESSURE RETURN
	PC	PUMPED CONDENSATE
	HWH	HOT WATER HEATING SUPPLY
	HWHR	HOT WATER HEATING RETURN
	CHS	CHILLED WATER SUPPLY
	CHR	CHILLED WATER RETURN
	CD	CONDENSATE DRAIN
	SAN	SANITARY LINE
	VP	VENT PIPE
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATING
	F	FIRE PROTECTION
	S	MAIN SPRINKLER SUPPLY
	SW	STORM WATER
		CLEAN OUT (HORIZONTAL, VERTICAL)
		SHUT OFF VALVE IN RISER

Drawing Title  
LEGEND AND SCHEDULES

Date  
6/20/02

Drawn  
KWA

DRAWING NO.  
M-1  
Sheet 38 65