AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	SUPPLY FAN HP	RETURN FAN HP	CFM [L/S] SUPPLY	CFM [L/S] MIN O.A.	SUPPLY FAN DUTY EXTERNAL STATIC PRESSURE IN. [MM] (1)	SUPPLY FAN DUTY SPECIFIED INTERNAL LOSSES IN. [MM] (2)	SUPPLY FAN DUTY UNSPECIFIED INTERNAL LOSSES IN. [MM] (3)	SUPPLY FAN DUTY TOTAL S.P. IN. [MM] (4)	RETURN FAN DUTY EXTERNAL STATIC PRESSURE IN. [MM] (1)	RETURN FAN DUTY SPECIFIED INTERNAL LOSSES IN. [MM] (2)	RETURN FAN DUTY UNSPECIFIED INTERNAL LOSSES IN. [MM] (3)	RETURN FAN DUTY TOTAL S.P. IN. [MM] (4)	TYPE SYSTEM
30-AHU-1	MECH RM BA004	HEADERED SYSTEM	50	20	26090	2760	3.25	3.51	.51	7.27	1.25	.10	.47	1.82	VAV
30-AHU-2	MECH RM BA004	HEADERED SYSTEM	50	20	26090	2760	3.25	3.51	.51	7.27	1.25	.10	.47	1.82	VAV

NOTES:

(1) EXTERNAL STATIC PRESSURE REQUIRED AT DUCT CONNECTIONS TO INLET AND OUTLET OF AHU. MEASUREMENTS SHALL BE TAKEN WITHIN 3 FT. [1.0 M] OF INLET AND OUTLET AT A POINT OF MAXIMUM ACCURACY.

(2) TOTAL OF MAXIMUM PRESSURE DROPS OF COMPONENTS WHICH ARE SPECIFIED SEPARATELY, IE., PREFILTERS, AFTER FILTERS, HEATING AND COOLING COILS, DIFFUSER PLATE, AND SOUND ATTENUATORS.

(3) INTERNAL LOSS ALLOWANCE SHALL INCLUDE LOSSES DUE TO ENTRANCE AND EXIT OF AHU, MIXING BOXES, DIFFUSER SECTION [OTHER THAN DIFFUSER PLATE] INCLUDING LOSSES DUE TO FAILURE TO PROPERLY CONVERT FAN DISCHARGE VELOCITY PRESSURE TO STATIC PRESSURE, FAN INLET CONDITIONS, CASINGS, HUMIDIFIERS, DAMPERS, ETC.

(4) TOTAL FAN S.P. = EXTERNAL STATIC PRESSURE + SPECIFIED INTERNAL LOSSES + UNSPECIFIED INTERNAL LOSSES. MANUFACTURER SHALL PROVIDE SUBMITTAL SHOWING ACTUAL LOSSES OF ALL EQUIPMENT PROVIDED. REFER TO FAN SCHEDULE FOR ADDITIONAL FAN SELECTION INFORMATION

CHILLED WATER COOLING COIL SCHEDULE

COIL NO.	SYSTEM	CFM [l/s]	FACE VEL. FPM [m/s]	S.P. LOSS IN[mm]	ENT. AIR °F [°C] DB	ENT. AIR °F [°C] WB	LVG. AIR °F [°C] DB	LVG. AIR °F [°C] WB	CIRCULATING FLUID FLUID	GPM [l/s]	TEMP. IN °F [°C]	TEMP. OUT °F [°C]	LOSS FT. [M] FLUID	MBH [KW] TOTAL	MBH [KW] SENSIBLE
30-CC-1	30-AHU-1	26090 [12313]	396 [2.012]	.44 [11.18]	78.8 [26.0]	63.1 [17.3]	52.9 [11.6]	52.4 [11.3]	30% E.G.	105.3 [6.64]	44.0 [6.67]	60.0 [15.56]	7.6 [2.32]	777.5 [227.7]	697.1 [204.1]
30-CC-2	30-AHU-2	26090 [12313]	396 [2.012]	.44 [11.18]	78.8 [26.0]	63.1 [17.3]	52.9 [11.6]	52.4 [11.3]	30% E.G.	105.3 [6.64]	44.0 [6.67]	60.0 [15.56]	7.6 [2.32]	777.5 [227.7]	697.1 [204.1]

HOT WATER HEATING COIL SCHEDULE (1)

COIL NO.	SYSTEM	HTG CFM [l/s]	MAX CFM [l/s]	HTG FACE VEL. FPM [m/s]	MAX. FACE VEL. FPM [m/s]	MAX. S.P. LOSS IN[mm]	TEMP. AIR °F [°C] ENT. (2)	TEMP. AIR °F [°C] LVG. (2)	CIRCULATING FLUID (2) FLUID	GPM [l/s]	TEMP. IN °F [°C]	TEMP. OUT °F [°C]	MAX. LOSS FT. [M] FLUID	MIN. MBH [KW] (2)
30-HC-1	30-AHU-1	21260 [10034]	26090 [12313]	496 [2.52]	608 [3.09]	.12 [3.05]	35.0 [1.67]	52.02 [11.12]	WATER	64.0 [4.04]	180.0 [82.2]	165.5 [74.2]	.29 [0.088]	460.8 [134.9]
30-HC-2	30-AHU-2	21260 [10034]	26090 [12313]	496 [2.52]	608 [3.09]	.12 [3.05]	35.0 [1.67]	52.02 [11.12]	WATER	64.0 [4.04]	180.0 [82.2]	165.5 [74.2]	.29 [0.088]	460.8 [134.9]

NOTES:

(1) UTILIZES INTEGRAL FACE-AND-BYPASS DESIGN

(2) CONDITIONS BASED ON HEATING CFM.

ELECTRONIC STEAM HUMIDIFIER SCHEDULE

HUMID. NO.	SYSTEM	CFM [l/s]	MANIFOLD SPACING IN [MM]	ENT. AIR Db °F[°C]	ENT. AIR % RH	LVG. AIR Db °F[°C]	LVG. AIR % RH	STEAM PSIG [kPa]	REQUIRED CAPACITY LBS/HR [kg/s]	ACTUAL CAPACITY LBS/HR [kg/s]	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL POWER	WEIGHT (LBS)
30-SH-1	30-AHU-1	21260 [10034]	9.0 [229]	63.2 [17.3]	36	63.2 [17.3]	44	5 [34]	110 [0.0139]	144 [0.0181]	58	80	480V-3ø-60Hz	507
30-SH-2	30-AHU-2	21260 [10034]	9.0 [229]	63.2 [17.3]	36	63.2 [17.3]	44	5 [34]	110 [0.0139]	144 [0.0181]	58	80	480V-3ø-60Hz	507

AIR COOLED CHILLER SCHEDULE

TAG	TYPE	NOMINAL CAPACITY (TONS)	EVAPORATOR DATA FLUID TYPE	EVAPORATOR DATA FLOW (GPM)	EVAPORATOR DATA EWT (°F)	EVAPORATOR DATA LWT (°F)	EVAPORATOR DATA WPD (FT H2O)	CONDENSER DATA EAT (°F) MIN	CONDENSER DATA EAT (°F) MAX	CONDENSER DATA FANS QTY	CONDENSER DATA FANS FLA (EA)	COMPRESSOR QTY	COMPRESSOR KW (EA)	COMPRESSOR REFRIG TYPE	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL POWER	MAX SOUND LEVEL (dbA)	WEIGHT (LBS)
30-C-1	SCREW	179.7	30% EG	294.3	60.00	44.00	13.0	0	95	10	2.8	1 1	154 105	R134a	325	450	480V-3ø-60Hz	74	14006

AIR CONTROL EQUIPMENT SCHEDULE

EXPANSION TANK TAG	SERVICE	TYPE	VOLUME (GAL) TANK	VOLUME (GAL) ACCEPTANCE	PRESSURE (PSI) FILL	PRESSURE (PSI) MAX OPER	MAX WEIGHT (LBS)
30-ET-1	CHILLED WATER	HORIZONAL DIAPHRAGM	14	11.5	12	47.8	120
30-ET-2	HOT WATER	HORIZONAL DIAPHRAGM	90	34	45	72.8	970

AIR SEPARATOR TAG	SERVICE	TYPE	FLOW (GPM)	SIZE (IN)	VOLUME (GAL)	MAX WEIGHT (LBS)
30-AS-1	CHILLED WATER	INLINE TANGENTIAL	215	4	13	237
30-AS-2	HOT WATER	INLINE TANGENTIAL	525	6	34	530

SHELL & TUBE HEAT EXCHANGER SCHEDULE (STEAM TO WATER)

TAG	SERVICE	CAPACITY (MBH)	SHELL SIDE STEAM (LBS/HR)	SHELL SIDE PRESS (PSIG)	TUBE SIDE (BASED ON .75"OD AND .049" WALL TUBES QTY: 56) FLUID TYPE	FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT H2O)	AREA (SQ FT)	PASSES	SIZE (IN)
HX-1	HEATING SYSTEM	3001	3170	15	WATER	265	157.7	180.0	2.04	93.3	2	12x48
HX-2	HEATING SYSTEM	3001	3170	15	WATER	265	157.7	180.0	2.04	93.3	2	12x48

HVAC PUMP SCHEDULE

PUMP NO.	LOCATION	SYSTEM	CIRCULATING FLUID FLUID	GPM [l/s]	PUMP HEAD FT [M] FLUID	TEMP. °F [°C]	SP. GR.	% EFF.	TYPE	MOTOR NOM. HP	MOTOR PHASE-VOLT	MOTOR RPM
30-CWP-1	2ND LEVEL	CHILLED WATER	30% E.G.	215 [13.56]	80 [24.38]	44-60 [7-16]	1.04	75	SINGLE SUCTION	10	3-480	1750
30-CWP-2	2ND LEVEL	CHILLED WATER	30% E.G.	215 [13.56]	80 [24.38]	44-60 [7-16]	1.04	75	SINGLE SUCTION	10	3-480	1750
30-HWP-1	BASEMENT	HOT WATER	WATER	525 [33.12]	145 [44.19]	180-160 [82-71]	1.0	76	SINGLE SUCTION	40	3-480	1750
30-HWP-2	BASEMENT	HOT WATER	WATER	525 [33.12]	145 [44.19]	180-160 [82-71]	1.0	76	SINGLE SUCTION	40	3-480	1750

FAN SCHEDULE

FAN NO.	LOCATION	CFM [L/S]	S.P. IN[mm]	FAN TYPE	DUTY / ARRANGEMENT	WHEEL/OPENING TYPE	WHEEL/OPENING MIN. DIA. IN[mm]	MAX. RPM	DRIVE	BHP (INCL. DRIVE LOSS)	FLA	MOTOR NOM. HP [W]	MOTOR PHASE-VOLT	CONTROL TYPE
30-SF-1	30-AHU-1	26090 [12313]	7.27 [184.7]	AF	SUPPLY AIR	II	32 [813]	1406	BELT	39.87	57.0	50 [37285]	3-480	VARIABLE
30-SF-2	30-AHU-2	26090 [12313]	7.27 [184.7]	AF	SUPPLY AIR	II	32 [813]	1406	BELT	39.87	57.0	50 [37285]	3-480	VARIABLE
30-RF-1	30-AHU-1	26090 [12313]	1.82 [46.23]	AF	RETURN AIR	S	36 [914]	746	BELT	12.08	23.5	15 [11186]	3-480	VARIABLE
30-RF-2	30-AHU-2	26090 [12313]	1.82 [46.23]	AF	RETURN AIR	S	36 [914]	746	BELT	12.08	23.5	15 [11186]	3-480	VARIABLE
30-EF-1	SECOND FLR CLG	4175 [1970]	0.5 [12.2]	INLINE	EXHAUST	BI	21 [533]	866	BELT	.872	1.8	1 [745]	3-480	CONSTANT

HOT WATER UNIT HEATER SCHEDULE

UNIT NO.	LOCATION	TYPE UNIT	CFM [l/s]	MIN. MBH [KW]	ENT. TEMP. °F [°C] AIR	ENT. TEMP. °F [°C] WATER	GPM [l/s]	MAX. P.D.	MOTOR HP [W]	MOTOR PHASE-VOLT
30-UH-1	OPEN AREA GA140	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-2	OPEN AREA GA140	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-3	OPEN AREA GA140	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-4	OPEN AREA GA140	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-5	OPEN AREA 1A144	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-6	OPEN AREA 1A144	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-7	OPEN AREA 1A144	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-8	OPEN AREA 1A144	HORIZ.	1550 [729]	85 [25]	60 [15.6]	180 [82.2]	3.6 [.22]	1.3	.09 [67]	1-115
30-UH-9	PENTHOUSE 2A144	HORIZ.	1650 [776]	82 [24]	60 [15.6]	180 [82.2]	3.3 [.20]	0.95	.26 [194]	1-115
30-UH-10	PENTHOUSE 2A144	HORIZ.	1650 [776]	82 [24]	60 [15.6]	180 [82.2]	3.3 [.20]	0.95	.26 [194]	1-115
30-UH-11	PENTHOUSE 2A144	HORIZ.	1650 [776]	82 [24]	60 [15.6]	180 [82.2]	3.3 [.20]	0.95	.26 [194]	1-115
30-UH-12	FIRE PUMP RM BA005	HORIZ.	400 [189]	17 [5]	60 [15.6]	180 [82.2]	0.8 [.05]	0.11	.04 [30]	1-115

AIR FILTER SCHEDULE

FILTER NO.	CFM [l/s]	SYSTEM	VA GRADE	MERV	RATED EFF %	MAX. S.P. DROP INITIAL IN[mm]	MAX. S.P. DROP FINAL IN[mm]	HOUSING TYPE	CARTRIDGES NO.	CARTRIDGES SIZE IN[mm]	CARTRIDGES ARRANGEMENT
30-AF-1-D1 30-AF-1-D2	26090 [12313]	30-AHU-1	D	7	30	.22 [5.59]	1.2 [30.5]	SIDE SERVICE	12 4	20x20x4 [508x508x102] 20x24x4 [508x610x102]	3 HIGH x 4 WIDE 1 HIGH x 4 WIDE
30-AF-1-A1 30-AF-1-A2	26090 [12313]	30-AHU-1	A	14	90	.41 [10.4]	1.2 [30.5]	SIDE SERVICE	12 4	20x20x12 [508x508x305] 20x24x12 [508x610x305]	3 HIGH x 4 WIDE 1 HIGH x 4 WIDE
30-AF-2-D1 30-AF-2-D2	26090 [12313]	30-AHU-2	D	7	30	.22 [5.59]	1.2 [30.5]	SIDE SERVICE	12 4	20x20x4 [508x508x102] 20x24x4 [508x610x102]	3 HIGH x 4 WIDE 1 HIGH x 4 WIDE
30-AF-2-A1 30-AF-2-A2	26090 [12313]	30-AHU-2	A	14	90	.41 [10.4]	1.2 [30.5]	SIDE SERVICE	12 4	20x20x12 [508x508x305] 20x24x12 [508x610x305]	3 HIGH x 4 WIDE 1 HIGH x 4 WIDE
30-AF-MAU	3000 [1416]	30-MAU-1	D	7	30	.25 [6.35]	1.2 [30.5]	SIDE SERVICE	4	20x20x2 [508x508x51]	2 HIGH x 2 WIDE

STEAM CONDENSATE PUMP SCHEDULE

PUMP NO.	LOCATION	TYPE UNIT	GPM [l/s]	DISCHARGE PRESSURE PSI	MOTOR NOM. HP [W]	MOTOR PHASE-VOLT	RECEIVER SIZE CAPACITY GAL [l]	REMARKS
30-CP-1	MECH. RM.	DUPLEX	75 [4.7]	20	2 [1491]	3-480	50 [189]	3500 RPM MOTOR

HOT WATER CABINET UNIT HEATER SCHEDULE

UNIT NO.	LOCATION	TYPE UNIT	ARRANGEMENT	CFM [l/s]	MIN. MBH [KW]	ENT. TEMP. °F [°C] AIR	ENT. TEMP. °F [°C] WATER	GPM [l/s]	P.D.	MOTOR WATTS	MOTOR PHASE-VOLT
30-CUH-1	VESTIBULE GA100	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	540 [255]	37 [10.8]	70 [21.1]	180 [82.2]	2.5 [.157]	7.6	110	1-115
30-CUH-2	VESTIBULE GA1369A	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	540 [255]	37 [10.8]	70 [21.1]	180 [82.2]	2.5 [.157]	7.6	110	1-115
30-CUH-3	STAIR #1 GS001	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	350 [165]	23 [6.73]	70 [21.1]	180 [82.2]	1.6 [.101]	2.8	95	1-115
30-CUH-4	STAIR #2 GS002	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	350 [165]	23 [6.73]	70 [21.1]	180 [82.2]	1.6 [.101]	2.8	95	1-115
30-CUH-5	STAIR #1 2S001	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	350 [165]	23 [6.73]	70 [21.1]	180 [82.2]	1.6 [.101]	2.8	95	1-115
30-CUH-6	STAIR #2 2S002	INVERTED FLOW WALL MOUNTED	FRONT INLET FRONT OUTLET	350 [165]	23 [6.73]	70 [21.1]	180 [82.2]	1.6 [.101]	2.8	95	1-115

NOTES:

1. UNITS SHALL BE EQUIPPED WITH AT LEAST ONE LOWER SPEED FAN OPERATION MODE.
2. UNIT SELECTION SHALL BE BASED ON A HOT WATER TEMPERATURE DROP OF 20°F.

PIPE RUNOUT SCHEDULE

PIPE SIZE	GPM
3/4"	0 - 4.5
1"	> 4.5 - 8.5
1-1/4"	> 8.5 - 18
1-1/2"	> 18 - 26
2"	> 26 - 51
2-1/2"	> 51 - 80
3"	> 80 - 138
4"	> 138 - 238
6"	> 238 - 540
8"	> 540 - 936

MAKE-UP AIR UNIT SCHEDULE

MARK	TOTAL CFM	O.A. CFM	APD (IN)	HP	VOLTAGE	F.V. F.P.M.	E.A.T.	TEMP RISE	CAPACITY (MBH)	E.W.T.	L.W.T.	GPM	WPD (FT)	LOCATION
30-MAU-1	3000	2200	.35	2	480-3-60	483	20	65	210	180.0	158.6	20	2.66	BA004

ACCESSORIES:

1. INLET OF FAN/COIL/DRIVE ASSEMBLY SHALL BE FITTED WITH MIXING BOX AND FILTER BOX.

SPLIT SYSTEM A/C UNIT SCHEDULE (1) (2) (3) (4)

TAG	REFR.	CONDENSING UNITS MCA	MOCP	POWER	SOUND LEVEL (dBA)	WEIGHT (LBS)	EVAPORATORS TAG	LOCATION	TYPE	AIRFLOW CFM	COOLING BTU/H	COOLING KW	COOLING AMPS	HEATING BTU/H	HEATING KW	HEATING AMPS	MCA	MOCP	POWER
30-SSAC-C1	R410A	20	25	480-3ø-60Hz	60	574	30-SSAC-E1	GA120 ELECTRICAL	WALL MOUNTED	208	6,000	.03	.15	6,700	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E2	1A123 ELECTRICAL	WALL MOUNTED	208	6,000	.03	.15	6,700	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E3	2A123 ELECTRICAL	WALL MOUNTED	208	6,000	.03	.15	6,700	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E4	GA131 TELECOM	WALL MOUNTED	406	12,000	.07	.34	13,500	.07	.34	.38	15	208V-1ø-60Hz (6)
							30-SSAC-E5	1A134 TELECOM	WALL MOUNTED	406	12,000	.07	.34	13,500	.07	.34	.38	15	208V-1ø-60Hz (6)
							30-SSAC-E6	2A134 TELECOM	WALL MOUNTED	406	12,000	.07	.34	13,500	.07	.34	.38	15	208V-1ø-60Hz (6)
							30-SSAC-E7	GA115 ELECTRICAL	WALL MOUNTED	208	6,000	.03	.15	6,700	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E8	1A109 ELECTRICAL	WALL MOUNTED	208	6,000	.03	.15	6,700	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E9	2A109 ELECTRICAL	WALL MOUNTED	208	8,000	.03	.15	9,000	.03	.15	.19	15	208V-1ø-60Hz (6)
							30-SSAC-E12A	NORTH ELEV MACH	WALL MOUNTED	636	18,000	.09	.44	20,000	.09	.44	.38	15	208V-1ø-60Hz
							30-SSAC-E12B		WALL MOUNTED	636	24,000	.09	.44	27,000	.09	.44	.37	15	208V-1ø-60Hz
30-SSAC-C2 (5)	R410A	16/11	20/15	480-3ø-60Hz	61	948	30-SSAC-E10	BA006 ELEV MACH	WALL MOUNTED	989	30,000	.12	.58	34,000	.12	.58	.54	15	208V-1ø-60Hz (6)
							30-SSAC-E11	BA007 TELECOM	WALL MOUNTED	406	12,000	.07	.34	13,500	.07	.34	.38	15	208V-1ø-60Hz (6)
							30-SSAC-E13	BA003 ELECTRICAL	WALL MOUNTED	406	15,000	.07	.34	17,000	.07	.34	.38	15	208V-1ø-60Hz
							30-SSAC-E14A	BA002 ELECTRICAL	WALL MOUNTED	989	30,000	.12	.58	34,000	.12	.58	.54	15	208V-1ø-60Hz
							30-SSAC-E14B		WALL MOUNTED	636	24,000	.09	.44	27,000	.09	.44	.37	15	208V-1ø-60Hz
							30-SSAC-E14C		WALL MOUNTED	636	24,000	.09	.44	27,000	.09	.44	.37	15	208V-1ø-60Hz

NOTES:

(1) SYSTEMS SHALL BE VARIABLE REFRIGERANT FLOW TYPE, CAPABLE OF PROVIDING SIMULTANEOUS HEATING AND COOLING TO THE EVAPORATORS.

(2) A CENTRALIZED CONTROLLER, LOCATED WHERE SHOWN ON PLAN, SHALL MONITOR THE UNITS, ENABLE SCHEDULING, AND PERFORM MAINTENANCE DIAGNOSTICS, AS DESCRIBED IN THE SPEC. POWER REQUIREMENT IS .4 AMP AT 208-1-60.

(3) EACH CONDENSING UNIT IS CONNECTED TO ITS ASSOCIATED EVAPORATORS THROUGH A BRANCH CONTROLLER LOCATED WHERE SHOWN ON PLAN. POWER REQUIREMENT IS 15 AMP MOCP AT 208-1-60.

(4) INCLUDE WINDSCREEN AND SNOW HOOD FOR LOW AMBIENT OPERATION.

(5) 30-SSAC-C2 IS COMPRISED OF 2 CONDENSING UNITS WITH SEPARATE CONNECTIONS AS SHOWN ON 2/MH7-105.

(6) PROVIDE WITH INTRAGAL CONDENSATE PUMP

DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE TABLE

DUCT PRESSURE CLASS, W.G. IN[mm]	SEAL CLASS	APPLICABLE SEALING	SMACNA LEAKAGE CLASS RECTANGULAR DUCT	SMACNA LEAKAGE CLASS ROUND DUCT
1/2", 1", 2" [13, 25, 51]	C	TRAVERSE JOINTS ONLY	24	12
3" [76]	B	TRAVERSE JOINTS AND SEAMS	12	6
4", 6" [102, 152]	A	JOINTS, SEAMS AND ALL WALL PENETRATIONS	6	3

DUCT PRESSURE CLASS TABLE

FAN NO.	DUCT INVOLVED	POSITIVE (P) OR NEGATIVE (N) PRESSURE	MINIMUM PRESSURE CLASS W.G. IN. [mm]
30-AHU-1 30-AHU-2	FROM OUTSIDE AIR LOUVER TO AIR HANDLING UNIT	N	3 [76]
	FROM AIR HANDLING UNIT TO TERMINAL BOXES	P	4 [102]
	FROM TERMINAL BOXES TO ROOM OUTLETS	P	3 [76]
30-RF-1 30-RF-2	FROM CEILING REGISTER TO RETURN FAN	N	3 [76]
	FROM RETURN FAN TO RELIEF LOUVER	P	3 [76]
30-EF-1	FROM EXHAUST REGISTERS/TERMINATIONS TO EXHAUST FAN	N	3 [76]
30-EF-1	FROM EXHAUST FAN TO EXHAUST LOUVER	N	3 [76]
30-MAU-1	FROM OA LOUVER TO MAU	N	3 [76]
	FROM MAU TO SUPPLY REGISTERS	P	3 [76]

HYDRONIC RADIANT CEILING PANEL SCHEDULE

PANEL SYMBOL	PANEL WIDTH IN[mm]	HEATING ACTIVE PANELS	HEATING CAPACITY/FOOT DOWN BTUH[W]	HEATING CAPACITY/FOOT TOTAL BTUH[W]	HEATING GPM [l/s]	REMARKS
30-RCP-A	24 [610]	(SEE PLAN)	413 [121]	- [-]	(SEE PLAN)	1,2,3

REMARKS:
1. DUTY BASED ON AVERAGE WATER TEMP OF 160° WITH AN AVERAGE UNHEATED SURFACE TEMP OF 70°F.
2. PANELS ARE TWO-PASS; SAME END CONNECTION, TUBE LENGTH=2x PANEL LENGTH.
3. AT 1 GPM, PRESSURE DROP IS 3.26FT/100FT OF TUBING (3.26FT/50FT OF PANEL).

FOR CONSTRUCTION
FULLY SPRINKLERED

Revisions: Date

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Drawing Title: **HVAC Schedules**
Approved: Project Director

Project Title: **VA CARES CONSOLIDATION VAMC, PITTSBURGH, PA RESEARCH OFFICE BLDG.**
Location: **VAPHS UNIVERSITY DRIVE**
Date: **08-18-10** Checked: **JS** Drawn: **RAN**

Project Number: **646CA2500R**
Building Number: **30**
Drawing Number: **MH6-101**
Dwg. . of

Office of Facilities Management
Department of Veterans Affairs

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