ROOFTOP PACKAGED GAS HEATING/ELECTRIC COOLING UNIT SCHEDULE

SYMBOL	AREA SERVED	MFG.	MODEL NUMBER	VAV UNIT	HEAT RECOVERY WHEEL	COOLING EQUIV. MBTU/HR	COOLING GROSS TOTAL MBTU/HR	COOLING SENSIBLE MBTU/HR	EER	HEATING MBTU/HR (GPM)	HEATING WATER ENT./LVG.	SUPPLY CFM	SUPPLY EXT. S.P. INCHES	SUPPLY FAN HP	MINIMUM OSA CFM	MINIMUM EXHAUST CFM	ECONOMIZER EXHAUST CFM	EXHAUST EXTERNAL S.P.	EXHAUST FAN HP	SEPARATE EXHAUST DISCONNECT	VOLTS / PHASE	MAIN UNIT MCA	MAIN UNIT FUSE	EXHAUST SECTION FLA / FUSE	WEIGHT POUNDS	REMARKS:
AC-1	CLASSROOM	AAON	RN-009-3-0-EBD9-EHL	NO	NO	*****	84.5	84.3	13.9	62.7 (6)	180/160	2,400	1.8	2	800	(EF-2)	1,600	0.8	2	NO	460/3	22	25	*****	3,000	*1*2*3*4*5*8*9*12
AC-2	ANIMALS / DOG HOLD	AAON	RN-030-3-0-EBD9-000	YES	YES	473.4	282.6	272.5	11.0	*****	*****	7,150	1.5	10	7,150 (100%)	6,450	*****	1.0	7.5	YES	460/3	84	100	11 / 15	4,300	*1*2*3*4*5*6*7*9*10*11
AC-3	LOBBY / OFFICES	AAON	RN-020-3-0-EBD9-000	YES	YES	261.5	203.4	184.7	12.1	*****	*****	7,200	2.5	10	1,500	1,500	7,200	1.0	5	NO	460/3	64	80	*****	4,200	*1*2*3*4*5*6*7*9
AC-4	TAFF / HALL.	AAON	RN-020-3-0-EBD9-000	YES	NO	*****	205.4	200.5	12.1	*****	*****	5,200	2.5	7.5	2,100	2,100	5,200	1.0	5	NO	460/3	53	70	*****	3,700	*1*2*3*4*5*6*8*9
AC-5	NTAKE / DOG HOLD	AAON	RN-030-3-0-EBD9-000	YES	NO	*****	280.7	275.0	11.0	*****	*****	4,200	1.5	5	4,200 (100%)	(EF-6)	*****	*****	*****	*****	460/3	67	90	*****	4,200	*1*2*3*4*5*6*9
AC-6	ANIMALS	AAON	RN-025-3-0-EBD9-000	YES	NO	*****	251.5	242.2	11.7	*****	*****	3,650	1.5	3	3,650 (100%)	(EF-9)	*****	*****	*****	*****	460/3	54	70	*****	3,600	*1*2*3*4*5*6*9
AC-7	SURGERY / EXAM	AAON	RN-015-3-0-EBD9-000	YES	NO	*****	163.5	163.5	11.4	*****	*****	2,800	1.5	2	2,800 (100%)	(EF-7)	*****	*****	*****	*****	460/3	36	45	*****	2,800	*1*2*3*4*5*6*9

NOTE: COOLING CAPACITIES BASE ON CONDITIONS OF 115 DEGREES OUTSIDE DRY BULB. S.P. = STATIC PRESSURE
*1 PROVIDE REFRIGERANT R-410A NON HCFC REFRIGERANT AND FACTORY INSTALL CONDENSER COIL GUARDS.
*2 PROVIDE STRUCTURALLY CALCULATED ROOF CURB WITH SPRING VIBRATION ISOLATION AND SEISMIC HOLD DOWNS. ROOF CURB SHALL BE 16 GAUGE ALL WELDED ASSEMBLY.
*3 PROVIDE 1 1/2" INTERNALLY LINED SUPPLY AND RETURN/EXHAUST PLENUMS FULL SIZE OF CURB OPENING INTO BUILDING SPACE.
*4 PROVIDE MERV 13 FILTERS TO OBTAIN LEED CREDIT. PROVIDE ULTRA VIOLET LIGHTS IN COOLING COIL SECTION.
*5 PROVIDE FACTORY MOUNTED SMOKE DETECTOR IN SUPPLY PLENUM AND INTERLOCK WITH HVAC UNIT CONTROLS. PROVIDE CONTROL CONDUIT AND WIRE TO SHUT OFF HVAC UNIT WHEN SMOKE DETECTOR IS ENERGIZED.
*6 PROVIDE A VARIABLE SPEED SUPPLY FAN WITH VARIABLE FREQUENCY DRIVE.
*7 PROVIDE HEAT RECOVERY WHEEL WITH DESICCANT MATERIAL. PROVIDE EXHAUST FAN FOR AIR TO BE DRAWN THROUGH HEAT RECOVERY WHEEL.
*8 PROVIDE MODULATING FACTORY GEAR DRIVEN ECONOMIZER WITH ENTHALPY CONTROL AND FULL MODULATING POWER EXHAUST FAN WITH VARIABLE SPEED MOTOR TO MAINTAIN PRESET BUILDING PRESSURE.
*9 PROVIDE SURFACE PROTECTION TREATMENT SUCH AS ADSIL MICROGUARD CORROSION AND MOLD PROTECTION WITH ENERGY ENHANCING CHARACTERISTICS FOR BOTH THE WHOLE CABINET AND EVAPORATOR AND CONDENSER COILS.
*10 TWO POINTS OF ELECTRICAL CONNECTION. ONE FOR THE MAIN UNIT AND ONE FOR THE EXHAUST FAN SECTION.
*11 EXHAUST FAN TO BE ON EMERGENCY POWER.
*12 PROVIDE HEATING WATER COIL

VAV BOX SCHEDULE

SYMBOL	AREA SERVED	MFG.	MODEL NUMBER	DESIGN CFM	AIR CHANGES	MINIMUM CFM	MAX. AIR PRESSURE DROP	HEATING MBTU/HR	HEATING WATER GPM	WATER ENTERING DEGREE F	WATER LEAVING DEGREE F	WATER PRESSURE DROP	VOLTS / PHASE	FULL LOAD AMPS	WEIGHT POUNDS	REMARKS:
VAV 2-1	COMM CATS	ENVIRO-TEC	SDR-MC-8	400	12.0	320	0.1	12.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-2	CAT HOLD #1	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-3	CAT HOLD #2	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-4	EXOTICS #2	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-5	PUPPIES	ENVIRO-TEC	SDR-MC-12	800	12.0	640	0.1	18.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-6	CANINE	ENVIRO-TEC	SDR-MC-8	400	12.0	320	0.1	12.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-7	SOCIALIZATION	ENVIRO-TEC	SDR-MC-18	1,700	12.0	1,360	0.1	51.0	5	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-8	DOG WARD #1	ENVIRO-TEC	SDR-MC-12	800	12.0	640	0.1	24.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-9	DOG WARD #2	ENVIRO-TEC	SDR-MC-12	800	12.0	640	0.1	24.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-10	DOG WARD #3	ENVIRO-TEC	SDR-MC-12	800	12.0	640	0.1	24.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 2-11	DOG WARD #4	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		7,150		5,720		208.5	21							
VAV 3-1	VOLUNTEERS	ENVIRO-TEC	SDR-MC-8	350	13	175	0.1	10.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-2	RETAIL	ENVIRO-TEC	SDR-MC-8	400	13	200	0.1	12.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-3	STORE	ENVIRO-TEC	SDR-MC-6	250	13	125	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-4	ADOPT LOBBY	ENVIRO-TEC	SDR-MC-16	2,650	8	1,325	0.1	75.0	8	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-5	COUNSELING	ENVIRO-TEC	SDR-MC-8	350	13	175	0.1	10.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-6	OFFICES	ENVIRO-TEC	SDR-MC-14	1,750	10	850	0.1	43.5	4	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-7	DISPATCH	ENVIRO-TEC	SDR-MC-6	250	13	125	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 3-8	SPECIAL EXHIBIT	ENVIRO-TEC	SDR-MC-14	1,200	10	600	0.1	36.0	4	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		7,200		3,600		202.5	20							
VAV 4-1	STAFF LOUNGE	ENVIRO-TEC	SDR-MC-10	550	13	275	0.1	16.5	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-2	COORIDOR C	ENVIRO-TEC	SDR-MC-10	500	8	250	0.1	15.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-3	LOCKERS / RR.	ENVIRO-TEC	SDR-MC-10	700	13	350	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-4	COORIDOR D	ENVIRO-TEC	SDR-MC-10	600	8	300	0.1	18.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-5	FOOD PREP.	ENVIRO-TEC	SDR-MC-6	300	12	150	0.1	9.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-6	COORIDOR A	ENVIRO-TEC	SDR-MC-10	600	8	300	0.1	18.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-7	STORAGE	ENVIRO-TEC	SDR-MC-10	600	8	300	0.1	18.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-8	LAUNDRY	ENVIRO-TEC	SDR-MC-8	400	13	200	0.1	12.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-9	STAFF WORKS	ENVIRO-TEC	SDR-MC-6	250	13	125	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 4-10	COORIDOR B	ENVIRO-TEC	SDR-MC-10	700	8	350	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		5,200		2,600		156.0	16							
VAV 5-1	DOG/CAT WAITING	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 5-2	INTAKE EXAM 203	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 5-3	DOG WARD #3	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 5-4	DOG WARD #7	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 5-5	DOG WARD #6	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 5-6	DOG WARD #5	ENVIRO-TEC	SDR-MC-10	700	12.0	560	0.1	21.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		4,200		3,360		126.0	13							
VAV 6-1	SMALL ANIMAL	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-2	EXOTICS #1	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV-6-3	BIRDS	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-4	FERAL #4	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-5	FERAL #3	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-6	FERAL #2	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-7	FERAL #1	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-8	CAT EVAL.	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-9	DOG EVAL.	ENVIRO-TEC	SDR-MC-6	300	12.0	240	0.1	9.0	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-10	GROOMING	ENVIRO-TEC	SDR-MC-10	550	12.0	440	0.1	16.5	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-11	REGISTRY CAGES	ENVIRO-TEC	SDR-MC-10	550	12.0	440	0.1	16.5	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 6-12	LARGE ANIMAL HOLD	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		3,650		2,920		109.5	11				120 / 1	2		
VAV 7-1	CAT ISO.	ENVIRO-TEC	SDR-MC-6	250	12.0	200	0.1	7.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 7-2	DOG ISO.	ENVIRO-TEC	SDR-MC-12	800	12.0	640	0.1	24.0	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 7-3	EXAM / PREP.	ENVIRO-TEC	SDR-MC-12	850	12.0	680	0.1	25.5	3	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 7-4	SURGERY	ENVIRO-TEC	SDR-MC-8	350	12.0	280	0.1	10.5	1	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
VAV 7-5	EUTHANASIA	ENVIRO-TEC	SDR-MC-10	550	12.0	440	0.1	16.5	2	180	160	3	120 / 1	2	150	*1*2*3*4*5*6*7
		TOTALS		2,800		2,240		84.0	8							

*1 PROVIDE 20 GUAGE GALVANIZED STEEL CONSTRUCTION WITH 1" FOIL FACED SCIM BACKED INSULATION AND FLOWSTAR CENTER AVERAGING AIR FLOW SENSOR.
*2 PROVIDE FACTORY HEATING WATER COIL MOUNTED ON VAV BOX. CONTRACTOR TO ORDER LEFT OR RIGHT HAND CONNECTIONS
*3 PROVIDE HANGERS WITH NEOPRENE RUBBER VIBRATION ISOLATION MOUNTS AND SEISMIC RESTRAINTS AT EACH CORNER OF VAV BOX.
*4 PROVIDE SHUT OFF VALVES, MANUAL VENTS FOR HEATING HOT WATER SUPPLY AND RETURN PIPING.
*5 PROVIDE GRISWOLD AUTOMATIC FLOW CONTROL VALVE ON RETURN LINE.
*6 PROVIDE A 24 VOLT DDC CONTROL ELECTRIC ACTUATOR MOUNTED ON VAV BOX .
*7 PROVIDE A 24 VOLT DDC HEATING WATER CONTROL VALVE MOUNTED ON VAV BOX HEATING COIL.

SWATT | MIERS ARCHITECTS

5845 Doyle Street, Suite 104
Emeryville, CA 94608
Tel: 510 985 9779
Fax: 510 985 0116
www.swattmiers.com

JAN 19 2010

PREVAILING WAGE JOB

BID SET

REGISTERED PROFESSIONAL ENGINEER DAVID P. EBERLE No. 22271 EXP. 12/31/11 MECHANICAL STATE OF CALIFORNIA

MERRICK & ASSOCIATES
MECHANICAL CONSULTING AND ENGINEERING
9606 Tierra Grande Street, Suite 206
San Diego, California 92126
(858) 549-9980
fax. (858) 549-9987

PALM SPRINGS ANIMAL CARE FACILITY

4575 E. MESQUITE AVE.
PALM SPRINGS, CA 92262

CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue

Rev	Date	By	Description
1	8/18/09	TH	DD SET
2	10/8/09	BL	PROGRESS SET
3	11/23/09	BL	Bldg. Permit Set
4	01/04/10	BL	Bldg. Permit Re-Submittal
5	01/18/10	BL	Bid Set

NOT FOR CONSTRUCTION

Drawn By	RO
Checked By	DM
Job No.	0903
Issue Date	01/18/10
Scale	1/8"=1'-0"

Reference North

Drawing Title

MECHANICAL SCHEDULE

M1.0

Sheet

These plans, drawings and specifications are the property of Swatt | Miers Architects and may
use and/or reuse thereof in part or in whole without the written permission of the Architect is prohibited.
Copyright 2009 Swatt | Miers Architects