

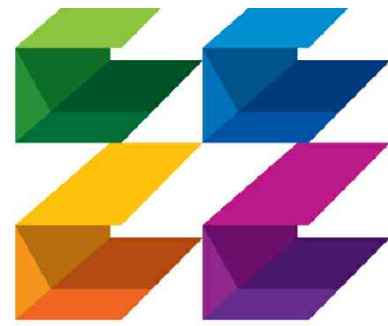
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100% OUTSIDE AIR EQUIPMENT SCHEDULE			
GENERAL DATA	A/C UNIT TAG	OAHU-1	SPECIFICATION NOTES ARE BASED ON "AAON" MANUFACTURER. ACCEPTABLE ALTERNATES ARE GREENHECK, REZNOR, TRANE, CARRIER OR ANY EQUIVALENT MANUFACTURER MEETING SPECIFICATION. ANY APPROVED ALTERNATE MANUFACTURER MUST PROVIDE ALL OF THE FEATURES LISTED BELOW. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONAL, WEIGHT AND ELECTRICAL CHANGES DERIVED FROM THE ALTERNATE SUBMISSION. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALTERNATE UNIT PLACED IN SAME LOCATION WITH ALL REQ. CLEARANCES AND SERVICE ACCESS SHOWN/ COMPLIANT WITH SPECIFIED UNIT..
	AREA SERVED	OFFICES/ RESTROOMS	
	MANUFACTURER/ MODEL	AAON RQ-004-9-J-G812-000	
	OUTDOOR AIR TEMP. (°F)	95.2	
	AC UNIT ARI EER/EER	14.4/-	
	REF./LBS.	R-410A	
	OPERATING WEIGHT LBS.	814	
	DIMENSIONS L x W x H (IN.)	82.5X44.25X50.5	
	AIR FLOW DISCHARGE	HORIZONTAL	
	SYSTEM CONTROL	-	
COOLING SECTION	AIR SYSTEM TYPE	CONSTANT AIR VOLUME	NOTES: 1. UNIT SHALL BE ARI CERTIFIED AND UL OR ETL LISTED AND LABELED BY THE ORIGINAL MANUFACTURER. UNITS THAT HAVE BEEN MODIFIED AFTER SHIPPING FROM ORIGINAL MANUFACTURER ARE NOT ACCEPTABLE. 2. PROVIDE G90 GALVANIZED STEEL CONSTRUCTION INSIDE AND OUT. UNIT INTERIOR AND EXTERIOR SURFACES SHALL BE COATED TO EXCEED 10,000 HR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B-117-95 PROCEDURES. IF THE MANUFACTURER'S COATING DOES NOT MEET THIS REQUIREMENT, THE CONTRACTOR SHALL HAVE THE ENTIRE CABINET FACTORY-COATED WITH ADVANCOAT, LUVATA OR EQUIVALENT. 3. PROVIDE DOUBLE WALL CABINET CONSTRUCTION WITH MINIMUM OF 2" INJECTED POLYURETHANE FOAM INSULATION. NO FIBERGLASS. 4. PROVIDE ACCESS DOORS WITH SAME CONSTRUCTION AS ABOVE AND WITH FULL PIANO STAINLESS STEEL HINGES AND TOOL-LESS 1/4 TURN HANDLES. PROVIDE ACCESS DOORS FOR THE FILTERS SECTION, BLOWER SECTION, HEATER SECTION, COILS SECTION, AND CONTROL/COMPRESSORS CABINET. 5. THE UNIT SHALL HAVE SCROLL COMPRESSORS WITH INDEPENDENT REFRIGERANT CIRCUITS.REFRIGERANT CIRCUITS SHALL INCLUDE LIQUID LINE FILTER DRIERS, TXV, CRANKCASE HEATERS, HIGH AND LOW PRESSURE CUTOUTS AND SHRADER SERVICE FITTINGS ON THE HIGH AND LOW PRESSURE SIDES OF THE SYSTEM. COMPRESSORS SHALL BE INSTALLED INSIDE AN ENCLOSED COMPARTMENT WITH FULL SIZE SERVICE ACCESS DOORS. 6. PROVIDE SINGLE POINT POWER CONNECTION WITH PHASE AND BROWNOUT PROTECTION. PROVIDE 115 VOLT, GFCI OUTLET W/BREAKER. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE PRIOR TO ANY WORK AND PURCHASING FOR ANY MOTOR STARTER, FUSED DISCONNECT OR ANY EQUIPMENT REQ'D. ALL POWER WIRING PROVIDED BY ELEC. CONTRACTOR 7. PROVIDE AN OUTSIDE AIR INTAKE DAMPER WITH A FACTORY MOUNTED AND WIRED 2-POSITION ACTUATOR. 8. PROVIDE MOTOR OVERLOAD AND THERMAL PROTECTION. 9. PROVIDE A 2" FILTER RACK AND MIN. MERV 8 PLEATED FILTERS 10. PROVIDE A DOUBLE SLOPED AND PITCHED 304 STAINLESS STEEL DRAIN PAN UNDER THE COOLING COIL. 11. PROVIDE A COOLING COIL WITH A MINIMUM OF 6-ROWS FOR DEHUMIDIFICATION. 12. PROVIDE MODULATING HOT GAS REHEAT AND DIGITAL SCROLL COMPRESSORS ON THE FIRST STAGE (ON TWO COMPRESSOR UNITS) OR ON THE FIRST TWO STAGES (ON 4 COMPRESSOR UNITS) TO ACHIEVE INFINITE CAPACITY MODULATION FOR FULLY MODULATING TEMPERATURE AND HUMIDITY CONTROL. HOT GAS BYPASS NOT ACCEPTABLE FOR CAPACITY MODULATION. 13. PROVIDE SPACE TEMPERATURE AND HUMIDITY SENSORS TO OVERRIDE DISCHARGE SETPOINT AND DEWPOINT CONTROL. 14. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY. WHERE GAS HEATING SPECIFIED, PROVIDE NATURAL GAS HEATING WITH STAINLESS STEEL HEAT EXCHANGER. PROVIDE 2-STEP CONTROL AND RESETABLE HIGH TEMPERATURE LIMIT SWITCH. HEAT EXCHANGER SHALL BE WARRANTED FOR NO LESS THAN 25 YEARS NON-PRORRATED. 15. PROVIDE BACKWARD INCLINED, DIRECT DRIVEN PLENUM TYPE FANS WITH ALUMINUM WHEELS. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE AND NEMA PREMIUM EFFICIENCY MOTORS. 16. PROVIDE COPPER TUBES / ALUMINUM FINNED CONDENSER COILS, EVAPORATOR COILS AND REHEAT COILS. ALL COILS MUST BE COATED TO EXCEED 10,000 HR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B-117-95 PROCEDURES. 17. PROVIDE A FACTORY 5-YEAR COMPRESSOR PARTS WARRANTY. 18. PROVIDE A FACTORY MOUNTED UNIT DDC CONTROLLER TO INCLUDE PROGRAMMABLE 365 DAY SCHEDULER AND HOLIDAY SCHEDULING STORED IN A NON VOLATILE EPROM MEMORY. THE CONTROLLER MUST HAVE LOGIC FOR COOLING, HEATING AND DEHUMIDIFICATION CYCLES. PROVIDE ONE HAND HELD SERVICE TOOL FOR THE PROJECT. THIS TOOL MUST REMAIN IN THE BUILDING FOR FUTURE SERVICE ONCE THE PROJECT IS COMPLETED. 19. PROVIDE DEHUMIDIFICATION CONTROL THAT STAGES THE COMPRESSORS BASED ON OUTSIDE AIR ENTHALPY AND SUPPLIES DISCHARGE AIR BASED ON SUPPLY AIR TEMPERATURE (ADJUSTABLE MODULATING HOT GAS REHEAT). THE SUPPLY AIR SET-POINT WILL AUTOMATICALLY BE RESET BASED ON A SPACE TEMPERATURE RESET SENSOR AS PER NOTE 16. 20. THE CONTRACTOR SHALL CHECK AND COORDINATE TO ASSURE THE CURB IS INSTALLED LEVEL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. MOUNT TO COMPLY WITH LATEST FBC. PROVIDE TIE DOWN CLIPS. 21. PROVIDE SERVICE CLEARANCES PER MANUFACTURER RECOMMENDATIONS. 22. PROVIDE FACTORY MOUNTED AND WIRED SMOKE DETECTOR IN THE UNIT SUPPLY. 23. PROVIDE SPACE TEMPERATURE AND HUMIDITY SENSORS TO OVERRIDE UNIT CONTROL IF NECESSARY. 24. PROVIDE VARIABLE SPEED CONDENSER FAN WITH HEAD PRESSURE CONTROL PROVIDE (OPTIONAL) VFD FOR SUPPLY FAN. 25. UNIT CONTROLLER SHALL HAVE BACNET MS/TP COMMUNICATIONS CAPABILITY 26. PROVIDE FACTORY START-UP. 27. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/FMC 2017, SEC.301 FOR WIND RESISTANCE. 28. REFER TO CONTROL DRAWINGS FOR SEQUENCE OF OPERATIONS 29. PROVIDE SOUND ATTENUATION BLANKET FOR COMPRESSOR(S) FOR UNITS LARGER THAN 10 TONS.
	FILTER TYPE/EFF.	2"/ MERV-8	
	NOMINAL TONNAGE/STAGES	4/-	
	TOTAL COOLING CAP. MBH.	50.72	
	TOTAL SENSIBLE CAP. MBH.	24.89	
	TOTAL LATENT CAP. MBH.	25.85	
	E.A.T. D.B./W.B. °F (COIL)	91/78	
	L.A.T. D.B./W.B. °F (COIL)	54.75/54.95	
	SUPPLY AIR FLOW (CFM)	545	
	OUTSIDE AIR (CFM)	545	
HEATER SECTION	SUPPLY FAN E.S.P. (IN. W.G.)	1.0	
	EXHAUST AIR (CFM)	450	
	COIL ROWS/FPI	4/14	
	HEATER TYPE / STEPS	HEAT PUMP	
ELECTRICAL DATA	HEATER NOMINAL K.W.	-	SEE NOTES
	HEATER OUTPUT (MBH @ VOLT/PH)	43.8 MBH	
	HEATER ENT./ LEAV. TEMP. (°F)	50/64.5	
	VOLTAGE	208/1/60	
	FLA/MCA/MOCP	29/35/50	
	# OF COMPRESSORS/TOTAL COMP RLA	1/21.2	
	# OF COND. FANS/ TOTAL FLA	1/2.8	
	SUPPLY FAN MTR BHP/NOM. HP/FLA	-21/0.5/5.3	
	VOLTAGE	-	
	FLA/MCA/MOCP	-	
ACCESSORIES	SUPPLY FAN MOTOR NOM. HP/FLA	-	
	EXH. FAN MOTOR NOMINAL HP/FLA	-/-	
	ERW MOTOR NOMINAL HP/FLA	0.5/1	

EXHAUST AIR CALCULATIONS								
SPACE SERVED OR UNIT TAG	SPACE AREA (SQ.FT.)	SPACE HEIGHT (FT)	SPACE VOLUME (CU.FT.)	VENTILATION REQ'D AC/HR OR CFM	TOTAL CFM REQUIRED	TOTAL CFM PROVIDED	NOTES	
ADA SHOWER	98	10	980	50 CFM/W.C.	75	100	1	
ADA RR	45	10	450	50 CFM/W.C.	50	50	1	
MENS RR	230	10	2300	50 CFM/W.C.	250	250	1	
WOMENS LOCKER RM	115	10	1150	50 CFM/W.C. 0.25 CFM/SQ FT	50+14.25	75	1	
EQUIPMENT STORAGE	9405	20	94050	0.75 CFM/SQ FT	7053.75	9000	1	
TOTALS	9893.0 NET SF		98930.0 CU. FT.		-	9475.0 CFM		
NOTES: 1. CALCULATIONS ARE BASED ON LOCAL CODE REQUIREMENTS, FMC 2020 (TABLE 403.3.1.1)								

OUTSIDE AIR CALCULATIONS									
AREA SERVED OR UNIT TAG	NET OCCUPIABLE AREA SQ.FT.	VENTILATION RATE O/A CFM/SQ.FT.	CFM/SQ. FT REQUIRED	ACTUAL OCCUP. NO. OF PEOPLE	VENTILATION RATE O/A CFM/PERSON	COMBINED TOTAL CFM O/A REQ'D	COMBINED TOTAL CFM O/A PROV'D	NOTES	
LUNCH & MEETING RM	531	0.06	31.86	10	5	81.86	85	1,2	
ADMINISTRATIVE OFFICE	260	0.06	15.6	3	5	30.6	30	1,2	
ADMINISTRATIVE ENTRANCE	109	0.06	6.54	0	5	6.51	10	1,2	
SUPT/ ASST. OFFICE	471	0.06	28.26	3	5	43.26	45	1,2	
MECHANIC OFFICE	248	0.06	14.88	1	5	19.88	20	1,2	
TOTALS	1619.0 NET SF		17				645 CFM		
NOTES: 1. CALCULATIONS ARE BASED ON ESTIMATED MAX. OCCUPANCY RATES PER ARCHITECTURAL PLANS; VENTILATION RATES PER FMC 2020 TABLE 403.3.1.1. 2. VENTILATION PROVIDED BY ROOF EXHAUSTER AND SIDEWALL INLETS. FAN TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS 3. UNCONDITIONED SPACES									

AIR BALANCE SCHEDULE						
AREA SERVED	EQUIPMENT TAG	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	MAKE-UP AIR (CFM)	EXHAUST AIR (CFM)	
OFFICE RTU'S	OARTU-1	X	545	X	X	
OFFICE BATHROOMS	OARTU-1	X	X	X	450	
X	X	X	X	X	X	
X	X	X	X	X	X	
TOTAL	X	X	545	X	450	
NOTES: 1. 50 CFM USED AS TYPICAL FOR IN/EXFILTRATION FOR A SINGLE 36" DOOR, 100 CFM FOR A DOUBLE DOOR 2. BUILDING IS 545-450=95 POSITIVE WHEN OARTU-1 IS OPERATING						



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ISSUED FOR :

BIDS

PERMIT

CONSTRUCTION

SEAL

JOSE AGUILA
FL. REG# A000

PROJECT TITLE

**STONEBRIDGE
COUNTRY CLUB
GOLF
MAINTENANCE
BUILDING**

17501 S. STATE ROAD 7
BOCA RATON, FL 33498

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

DRAWING TITLE

MECHANICAL SCHEDULES
DRAWN BY
KAB

JOB NUMBER
220906

DRAWING NUMBER

M6.1

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-
KAMM CONSULTING PROJECT #:	2023-0419
PROJECT MANAGER:	RON SLOAN
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PERMIT SET - 10/16/23