

AIR COOLED CHILLER SCHEDULE (THIS SCHEDULE NOT USED IF CPRO IS ACCEPTED)	
MARK	CH-1
CAPACITY - TONS	98.6
AMBIENT AIR TEMPERATURE - °F	95
CHILLED WATER FLOW - GPM	237
CHILLED WATER PRESSURE DROP - FT. W.G.	15
CHILLED WATER TEMP. ENT./LVG. - °F/°F	54/44
COMPRESSORS - MINIMUM NO.	2
REFRIGERANT TYPE	R-22 OR R-134A
FOULING FACTOR	0.00025
UNIT EER	9.6
TOTAL POWER INPUT - KW	124.0
ELECTRICAL - V/ø/Hz	460/3/60
NOTES	1,2
NOTES: 1. UNIT KW AND EER ARE BASED ON CHILLER PERFORMANCE AT STANDARD ARI RATING CONDITIONS. 2. PROVIDE A UNIT MOUNTED DISCONNECT SWITCH, CONTROL VOLTAGE TRANSFORMER, CONDENSER AND EVAPORATOR/COMPRESSOR ACCESS GUARDS.	

PUMP SCHEDULE (THIS SCHEDULE NOT USED IF CPRO IS ACCEPTED)				
MARK	P-1	P-2	P-3	P-4
SERVICE	PRIMARY CHILLED WATER	SECONDARY CHILLED WATER	PRIMARY HEATING WATER	HEATING HOT WATER
WATER FLOW - GPM	237	237	77	116
TOTAL DYNAMIC HEAD - FT. W.G.	35	55	16	50
MOTOR - HP	5	7 1/2	3/4	3
MOTOR SPEED - RPM	1750	1750	1750	1750
ELECTRICAL - V/ø/Hz	460/3/60	460/3/60	460/3/60	460/3/60
MINIMUM EFFICIENCY - %	65	65	60	55
PUMP TYPE	BASE MOUNT END SUCTION	BASE MOUNT END SUCTION	IN-LINE PUMP	BASE MOUNT END SUCTION
NOTES	1,4	1,2,4	3,4	1,2,4
NOTES: 1. PUMP SHALL BE TAKE APART DROP COUPLING BACK SERVICE TYPE. 2. PROVIDE A PUMP MOTOR SUITABLE FOR VARIABLE SPEED CONTROL. 3. PUMP PROVIDED AS PART OF HEATING WATER BOILER PACKAGE. SHOWN HERE FOR REQUIREMENTS. 4. PUMP SELECTIONS ARE BASED ON EQUIPMENT WATER PRESSURE DROPS INDICATED ON OTHER SCHEDULES.				

HEATING WATER BOILER (GAS) SCHEDULE	
MARK	B-1
TYPE	PACKAGED FIN TUBE
INPUT - BTUH	1,430,000
MINIMUM OUTPUT - BTUH	1,160,000
GPM	77
ENT./LVG. WATER TEMP. - °F/°F	160/190
PRESSURE DROP - FT. W.G.	7.0
ELECTRICAL - V/ø/Hz	120/1/60
OPERATING PRESSURE - PS	50
NOTES	2
NOTES: 1. PROVIDE A FACTORY FURNISHED PRIMARY HOT WATER CIRCULATING PUMP P-3 OR BASE BID, PUMP P-8 IF ALTERNATE BID IS ACCEPTED). SEE SCHEDULES FOR REQMTS. 2. SIZE BOILER FLUE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.	

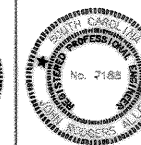
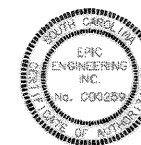
HOT WATER UNIT HEATER SCHEDULE		
MARK	UH-1	UH-2
TYPE	HORIZONTAL THROW	HORIZONTAL THROW
SUPPLY AIR - CFM	500	500
BLOWER MOTOR - HP	1/20	1/20
ELECTRICAL - V/ø/Hz	120/1/60	120/1/60
CAPACITY - BTUH	14,000	14,000
ENT. AIR TEMP. - °F	45	45
LVG. AIR TEMP. - °F	70.8	70.8
GPM	1.4	1.4
ENT. WATER TEMP. - °F	180	180
PRESSURE DROP - FT. W.G.	5.0	5.0
NOTES		
NOTES:		

HOT WATER DUCT HEATER SCHEDULE		
MARK	DH-1	DH-2
COIL (DUCT) SIZE	60	42
CFM	9,700	5,657
CAPACITY - BTUH	295,000	172,000
ENT. AIR TEMP. - °F	27	27
LVG. AIR TEMP. - °F	55	55
AIR PRESSURE DROP - FT. W.G.	0.20	0.20
MAXIMUM FACE VELOCITY - FPM	800	800
GPM	29.5	17.2
ENT./LVG. WATER TEMP. - °F/°F	180/160	180/160
PRESSURE DROP - FT. W.G.	5.0	5.0
NOTES		
NOTES:		

AIR BALANCE SCHEDULE (OCCUPIED SPACES)						
AIR SERVICE	EQUIP. MARK	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	PRESSURE RELATIONSHIP (+ OR -) CFM
DINING AREA	AHU-1	4,500	2,700	1,800	0	+ 1,800
	AHU-2	4,900	3,100	1,800	0	+ 1,800
	EF-7	0	0	0	800	- 800
	EF-8 (PARTIAL)	0	0	0	80	- 80
AREA SUB TOTAL		9,400	5,800	3,600	880	+ 2,720
SERVING AREA	AHU-3	4,950	3,650	1,300	0	+ 1,300
	EF-3	0	0	0	7,070	- 7,070
	SF-4	5,657	0	5,657	0	+ 5,657
AREA SUB TOTAL		10,607	3,650	6,957	7,070	- 113
KITCHEN AREA	AHU-4	4,400	700	3,700	0	+ 3,700
	EF-1	0	0	0	12,100	- 12,100
	SF-2	9,700	0	9,700	0	+ 9,700
	EF-6 (PARTIAL)	0	0	0	925	- 925
AREA SUB TOTAL		14,100	700	13,400	14,925	- 1,525
BUILDING TOTALS		34,107	10,150	23,957	22,875	+ 1,082

Order Plans @

WWW.LDLINE.COM



Naval Facilities Engineering Command
Southern Division
Charleston, South Carolina

CHARLESTON AIR FORCE BASE CHARLESTON, SOUTH CAROLINA
DINING FACILITY
MECHANICAL SCHEDULES - BASE BID
APPROVED BY DATE 02/10/04

Rev.	Description	Prep By	Date	Appr. By	Checked By
1	AS-BUILD	AW	01/14/04	AW	AW

RECORD DRAWING DATE	9/27/04
CODE I.D. NO.	80081
DRAWING SIZE	D
SPEC. NO.	06-98-0339
CONSTR. CONTR. NO.	N62467-98-C-0839
NAVFAC DRAWING NO.	53579BZ
SHEET 157 OF 194	
M-602	