

Order Plans @

DDC INPUT/OUTPUT (I/O) SUMMARY - DINING FACILITY										
UNIT	GEN.	HARDWARE						SOFTWARE		
		OUTPUT			INPUT			ALARMS		
		DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG			
		BASE EMCS INTERFACE (MONITOR ONLY)								
		SINGLE SPEED FAN (START/STOP)	X							
		VARIABLE SPEED PUMP DRIVE (START/STOP)	X							
		SINGLE SPEED PUMP (START/STOP)	X							
		CHILLER (ENABLE/DISABLE)		X						
		HEATING BOILER (ENABLE/DISABLE)		X						
		RETURN AIR DAMPER		X						
		RETURN AIR DAMPER		X						
		VARIABLE SPEED PUMP DRIVE (SPEED)		X						
		COOLING COIL 2-WAY VALVE POSITION		X						
		HEAT COIL 2-WAY VALVE POSITION		X						
		HOT WATER RESET 3-WAY VALVE POSITION		X						
		SECONDARY LOOP 2-WAY CONTROL VALVE		X						
		CURRENT SWITCH (FAN OR PUMP PROOF)		X						
		FREZE STAT SWITCH STATUS		X						
		SCHEDULE OVERRIDE BUTTON		X						
		WATER FLOW DIFF. PRESSURE SWITCH		X						
		AIR FLOW DIFF. PRESSURE SWITCH-FILTERS		X						
		MIXED AIR TEMPERATURE		X						
		ROOM TEMPERATURE		X						
		HEAT COIL DISCHARGE AIR TEMPERATURE		X						
		PIPE PRESSURE SENSOR		X						
		SUPPLY FAN DISCHARGE AIR TEMPERATURE		X						
		CHILLED WATER TEMPERATURE		X						
		HEATING WATER TEMPERATURE		X						
		AMBIENT AIR TEMPERATURE		X						
		COMMUNICATION FAILURE		X						
		FREZE STAT SWITCH		X						
		MOTOR DRIVE FAILURE		X						
		FILTER PRESSURE DROP		X						
		HIGH TEMPERATURE		X						
		LOW TEMPERATURE		X						
AHU-1			X							
AHU-2			X							
AHU-3			X							
AHU-4			X							
CHILLER CH-1 (NOTE 1)			X							
HEATING BOILER B-1			X							
PUMP P-1 (NOTE 2)			X							
PUMP P-2 (NOTE 3)			X							
PUMP P-3 (NOTE 4)			X							
PUMP P-4 (NOTE 5)			X							
UH-1			X							
UH-2			X							
EF-1 AND EF-3			X							
SF-2 AND SF-4			X							
SF-5			X							
EF-6, EF-7 AND EF-8			X							
EF-9			X							
SECONDARY LOOP ZONE CONTROLLER (NOTE 6)		X		X						

- NOTES:
 1. CHILLER CH-1 DELETED IF CPRO IS ACCEPTED
 2. PUMP P-1 DELETED IF CPRO IS ACCEPTED
 3. PUMP P-2 BASE BID, CHANGE UNIT DESIGNATION TO P-7 IF CPRO IS ACCEPTED.
 4. PUMP P-3 BASE BID, CHANGE UNIT DESIGNATION TO P-8 IF CPRO IS ACCEPTED.
 5. PUMP P-4 BASE BID, CHANGE UNIT DESIGNATION TO P-9 IF CPRO IS ACCEPTED.
 6. SECONDARY LOOP CONTROLLER PROVIDED ONLY IF CPRO IS ACCEPTED.

DDC INPUT/OUTPUT (I/O) SUMMARY - CPRO										
UNIT	GEN.	HARDWARE						SOFTWARE		
		OUTPUT			INPUT			ALARMS		
		DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG			
		BASE EMCS INTERFACE (MONITOR ONLY)								
		BASE EMCS INTERFACE (CONTROL)								
		SINGLE SPEED FAN (START/STOP)	X							
		VARIABLE SPEED PUMP DRIVE (START/STOP)	X							
		SINGLE SPEED PUMP (START/STOP)	X							
		CHILLER (ENABLE/DISABLE)		X						
		COOLING TOWER (ENABLE/DISABLE)		X						
		LOW CONTROL/SHUT-OFF VALVE		X						
		OUTSIDE AIR INTAKE LOUVER DAMPER		X						
		VARIABLE SPEED PUMP DRIVE (SPEED)		X						
		COOLING COIL 3-WAY BYPASS VALVE		X						
		SECONDARY LOOP 2-WAY CONTROL VALVE		X						
		CURRENT SWITCH (PUMP PROOF)		X						
		WATER FLOW DIFF. PRESSURE SWITCH		X						
		REFRIGERANT TX SENSOR		X						
		ROOM TEMPERATURE		X						
		PIPE PRESSURE SENSOR		X						
		CHILLED WATER TEMPERATURE		X						
		CONDENSATE WATER TEMPERATURE		X						
		COMMUNICATION FAILURE		X						
		MOTOR DRIVE FAILURE		X						
		REFRIGERANT LAK DETECTION		X						
		HIGH TEMPERATURE		X						
		LOW TEMPERATURE		X						
CHILLER CH-1			X							
CHILLER CH-2			X							
COOLING TOWER CT-1			X							
PUMP P-1			X							
PUMP P-2			X							
PUMP P-3			X							
PUMP P-4			X							
PUMP P-5			X							
PUMP P-6			X							
EF-1 AND EF-1			X							
EUH-1			X							
EUH-2			X							
REFRIGERANT SENSOR			X							
NEW PUMP - BLDG. 464			X							
NEW PUMP - BLDG. 465			X							
NEW PUMP - BLDG. 473			X							
NEW PUMP - BLDG. 475			X							
EXIST. PUMP - BLDG. 477			X							
SECONDARY LOOP ZONE CONTROLLER (TYP. FOR BLDGS. 464, 465, 473, 475 AND 477)		X		X						



RECORD DRAWING DATE: 9/27/04
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 SHEET 186 OF 194
 M-610

Naval Facilities Engineering Command
 Southern Division
 Charleston, South Carolina

CHARLESTON AIR FORCE BASE CHARLESTON, SOUTH CAROLINA
 DINING FACILITY
 CONTROL INPUT/OUTPUT SCHEDULES
 APPROVED: [Signature] DATE: 5/14/04
 LTD FOR COMMANDER, VFMG

DRAWING REVISIONS:
 Description: AS-BUILT Dwg. NO CORRECTIONS
 Prop. By: [Signature]
 Date: 5/14/04
 Appr. By: [Signature]
 Date: 5/14/04

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