

ECM SCHEDULE		
ECM NUMBER	BID ITEM NUMBER	REQUIRED ACTIONS
1	2	1. SET DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK. 2. REPAIR CONTROL ON OUTSIDE AIR DAMPER. SEE CONTROLS SCHEDULE. 3. REPAIR CONTROL ON RETURN AIR DAMPER. SEE CONTROLS SCHEDULE.
2	3	1. SET DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK. 2. REPAIR INLET GUIDE VANES TO ALLOW SYSTEM TO MAINTAIN STATIC PRESSURE.
3	4	1. REPLACE HEATING WATER VALVE.
4	5	1. REPLACE HEATING WATER VALVE. 2. REPLACE CHILLED WATER VALVE. 3. REPAIR RETURN AIR DAMPER TO ALLOW TO CLOSE COMPLETELY. SEE CONTROLS SCHEDULE. 4. SET DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK.
5	6	1. REPAIR MIXED AIR DAMPER POSITIONING. SEE CONTROLS SCHEDULE. 2. REPAIR RETURN AIR DAMPER POSITIONING. SEE CONTROLS SCHEDULE.
6	7	1. SET HOT DECK/COLD DECK DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK. 2. CONTROL OUTSIDE AIR PRE-HEAT FAN. INCLUDE ABILITY TO TURN FAN OFF/ON BASED ON SEQUENCE OF OPERATIONS. 3. REPAIR OUTSIDE AIR DAMPER CONTROL. SEE CONTROLS SCHEDULE. 4. REPAIR RETURN AIR DAMPER CONTROL. SEE CONTROLS SCHEDULE. 5. REPAIR ECONOMIZER. DAMPERS NOT CURRENTLY RESPONDING. SEE CONTROLS SCHEDULE.
7	8	1. SET HOT DECK/COLD DECK DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK. 2. CONTROL OUTSIDE AIR PRE-HEAT FAN. INCLUDE ABILITY TO TURN FAN OFF/ON BASED ON SEQUENCE OF OPERATIONS. 3. REPAIR OUTSIDE AIR DAMPER CONTROL. SEE CONTROLS SCHEDULE. 4. REPAIR RETURN AIR DAMPER CONTROL. SEE CONTROLS SCHEDULE.
8	9	1. SET HOT DECK/COLD DECK DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP. AND ROOM TEMP. FEEDBACK. 2. CONTROL OUTSIDE AIR PRE-HEAT FAN. INCLUDE ABILITY TO TURN FAN OFF/ON BASED ON SEQUENCE OF OPERATIONS. 3. REPAIR INLET GUIDE VANES. CURRENTLY THE VANES DON'T RESPOND TO COMMANDS.
NOTES: PROVIDE THE ECMS LISTED ABOVE WITH THE CONTROLS UPGRADE LISTED ON THE CONTROLS SCHEDULES. ECMS ARE GROUPED INTO BID ITEMS AS NOTED IN THE CONTROLS SCHEDULES.		
ITEMS LISTED ON THIS SCHEDULE ARE THOSE THAT HAVE BEEN DETERMINED TO CONSERVE ENERGY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONTROL DEVICES AS LISTED IN THE INDIVIDUAL CONTROL SCHEDULES AS WELL AS PERFORMING THE ACTIONS LISTED IN THIS		

EXISTING AIR HANDLING UNIT CONTROL SCHEDULE													
PLAN MARK	LOCATION	EXISTING VA CONTROL DESIGNATION	HOT WATER CONTROL VALVE	CHILLED WATER CONTROL VALVE	HUMIDIFIER CONTROL VALVE	DISCH AIR HUMIDITY SENSOR	RETURN AIR TEMP SENSOR	PRE-HEAT VALVE	MIXING DAMPER ACTUATOR (2)	DETAIL	ECM NUMBER	BID ITEM NUMBER	
C-1	ROOF	14-AC-10	N/A	PN 2-1/2" 2 WAY	N/A	N/A	N/A	N/A	PN	C3 OR C4,B3,A4	1	2	
C-2	BASEMENT	14-AC-8	PN 3" 3 WAY	N/A	N/A	N/A	N/A	N/A	N/A	C3 OR C4,B3,A4,D4	2	3	
C-3	BD01A.01	14-DINE	PN 1/2" 3 WAY	PN 1-1/2" 3 WAY	N/A	N/A	N/A	N/A	N/A	C3 OR C4,B3,A4	3	4	
C-4	BA08	14-AH-2	PN 2" 3 WAY	PN 2-1/2" 3 WAY	N/A	N/A	N/A	N/A	N/A	C3 OR C4,B3,A4	4	5	
C-5	BA02	14-MAS	PN 1/2" 3 WAY	PN 1" 2 WAY	N/A	N/A	N/A	N/A	N/A	C3 OR C4,B3,A4	5	6	
C-6	BC03	14-AC-2	PN 2" 3 WAY	PN 2" 2 WAY	Y	N/A	Y	Y	PN	C3 OR C4,B3,A4	6	7	
C-7	BASEMENT	14-AC-6	PN 2" 3 WAY	PN 2-1/2" 2 WAY	Y	N/A	Y	PN 1-1/2" 3 WAY	PN	C3 OR C4,B3,A4	7	8	
C-8	BB05	14-AC-4	PN 2" 3 WAY	PN 3" 2 WAY	Y	N/A	Y	PN 1-1/2" 3 WAY	PN	C3 OR C4,B3,A4	8	9	
C-9	BA08	14-MORG	PN 1-1/2" 3 WAY	PN 2" 2 WAY	N/A	N/A	N/A	N/A	N/A	C3 OR C4,B3	N/A	11	
C-10	BC08	14-AC-1	PN 1-1/2" 3 WAY	PN 3" 2 WAY	Y	N/A	Y	PN 2" 3 WAY	PN	C3 OR C4,B3,A4	N/A	12	
C-11	BB05	14-AC-3	PN 2" 3 WAY	PN 3" 2 WAY	Y	N/A	Y	PN 1-1/2" 3 WAY	PN	C3 OR C4,B3,A4	N/A	13	
C-12	BASEMENT	14-AC-5	PN 1-1/2" 3 WAY	PN 2" 2 WAY	Y	N/A	Y	PN 1-1/2" 3 WAY	PN	C3 OR C4,B3,A4	N/A	14	
C-13	BB05	14-AC-7	PN 3" 3 WAY	N/A	N/A	N/A	Y	N/A	N/A	C3 OR C4,B3,A4,D4	N/A	15	
C-14	ROOF	14-AC-9	PN 2" 3 WAY	PN 2" 3 WAY	PN 1" 2 WAY	Y	S	PN 2" 3 WAY	N/A	C3 OR C4,B3,A4,D4	N/A	16	
C-15	ROOF	14-AC-11	N/A	PN 2" 2 WAY	N/A	N/A	N/A	N/A	PN	C3 OR C4,B3,A4	N/A	17	
Y INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM N/A INDICATES THAT POINT IS NOT APPLICABLE TO THIS EQUIPMENT PN INDICATES EXISTING PNEUMATIC CONTROLS THAT NEED TO BE UPGRADED TO DIRECT DIGITAL CONTROL S INDICATES A CONTROL DEVICE THAT NEEDS TO BE ADDED													

EXISTING GENERATOR CONTROL SCHEDULE (BID ITEM 18)					
PLAN MARK	LOCATION	VA DESIGNATION	GENERATOR E STOP STATUS	SYSTEM READY / NOT READY	DETAIL
C-16	BLDG 44	14-GEN	S	S	C3 OR C4
Y INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM S INDICATES A CONTROL DEVICE THAT NEED TO BE ADDED  ITEMS IN THIS SCHEDULE ARE ASSOCIATED WITH BID ITEM # 18					

EXISTING PUMP CONTROL SCHEDULE (BID ITEM 19)				
PLAN MARK	LOCATION	VA DESIGNATION	CONVERTER VALVE	DETAIL
C-17	BC08	CONVERTER PUMP 10	PN	B3
Y INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM PN INDICATES EXISTING PNEUMATIC CONTROL THAT NEED TO BE UPGRADE TO DIRECT DIGITAL CONTROLS  INCLUDE 2" 2 WAY, 3" 2 WAY, 3" 2 WAY, AND 2-1/2" 2 WAY STEAM CONTROL VALVES  ITEMS IN THIS SCHEDULE ARE PART OF BID ITEM # 19				

EXISTING SOLAR SYSTEM CONTROL SCHEDULE (BID ITEM 20)						
PLAN MARK	LOCATION	VA DESIGNATION	FILL VALVE	SYPHON VALVE	ISO VALVE	DETAIL
C-18	ROOF	14-SOLAR	N/A	N/A	N/A	B3
Y INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM PN INDICATES EXISTING PNEUMATIC CONTROLS THAT NEED TO BE UPGRADED TO DIRECT DIGITAL CONTROL  ITEMS IN THIS SCHEDULE ARE PART OF BID ITEM # 20						

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title B.14 MECHANICAL SCHEDULES		Project Title METASYS CONTROLS AND ENERGY UPGRADE PHASE III		Project Number 660-12-110		Office of Construction and Facilities Management Department of Veterans Affairs	
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