

A

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A

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C

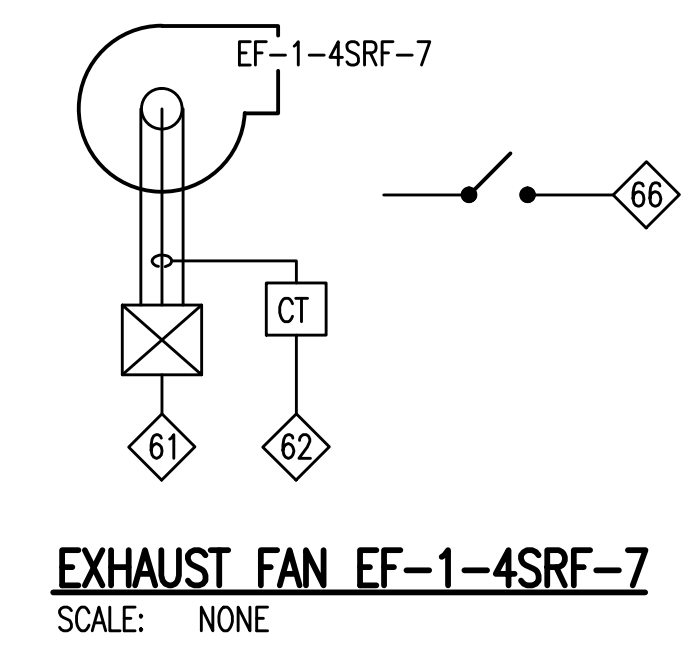
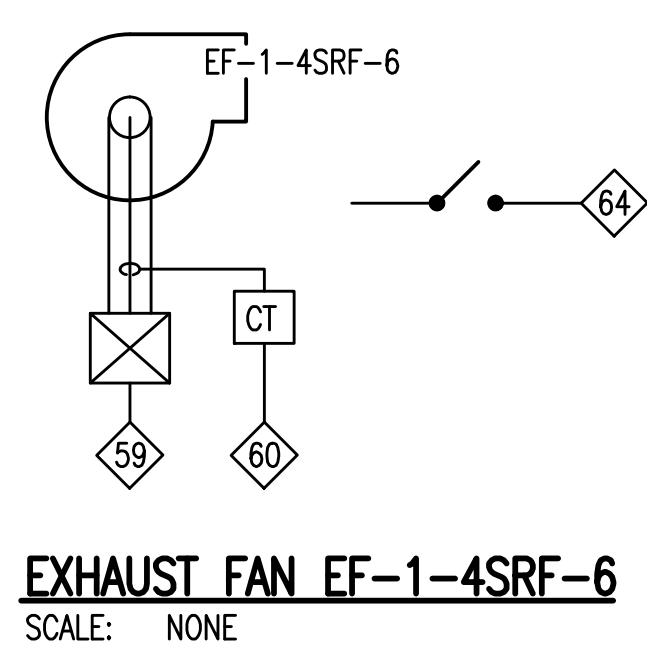
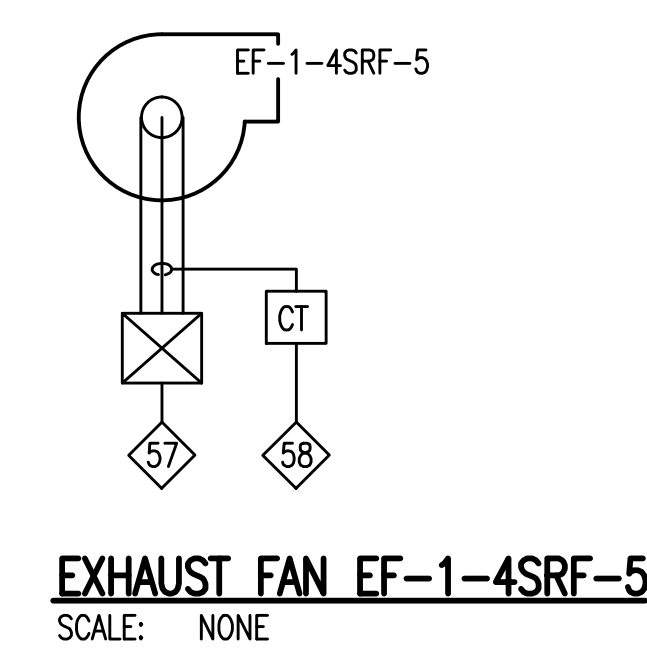
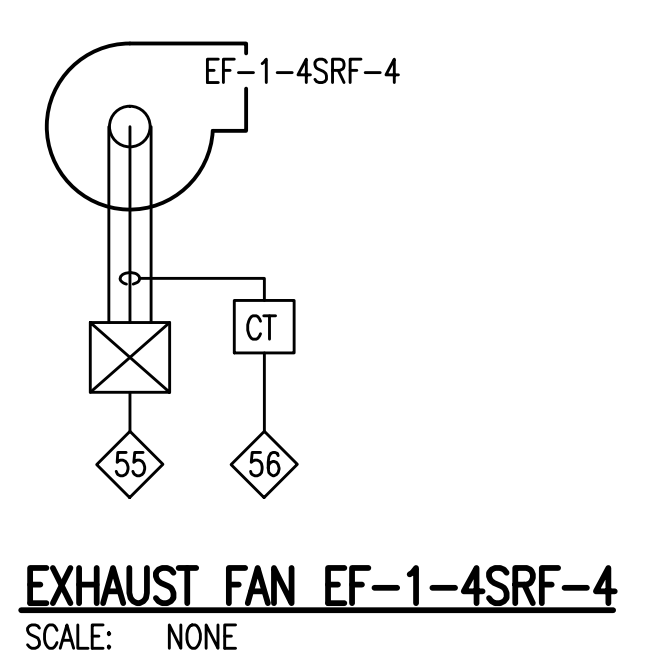
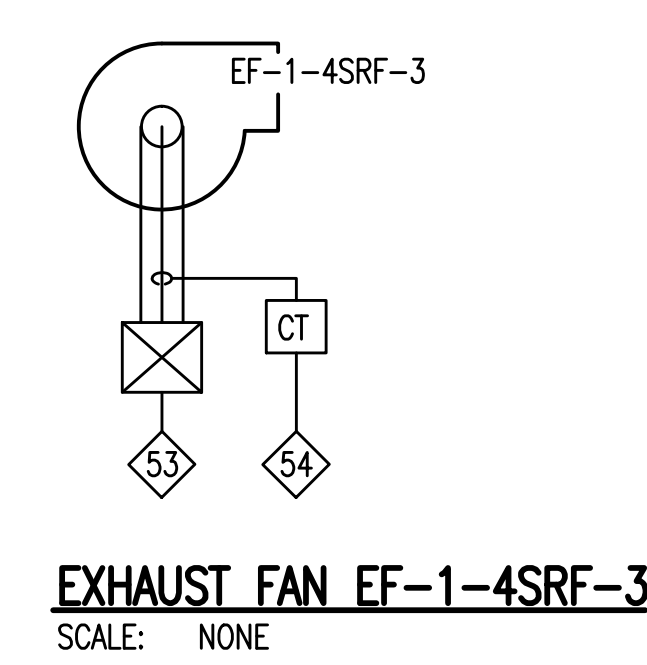
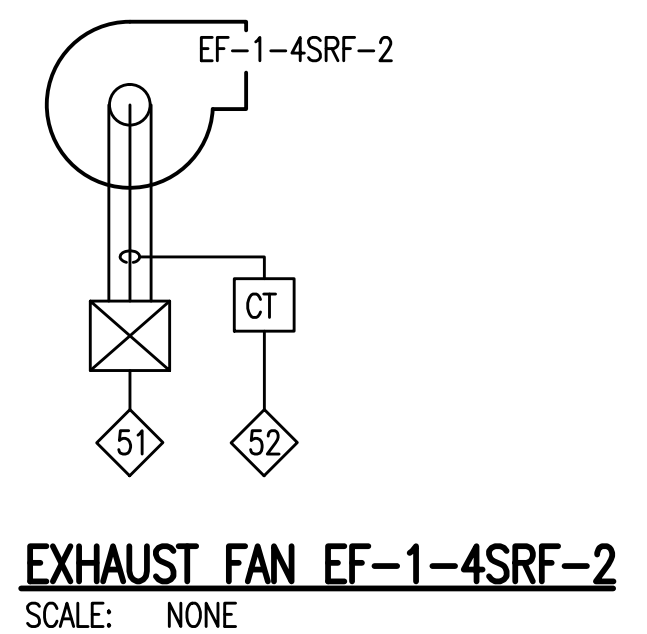
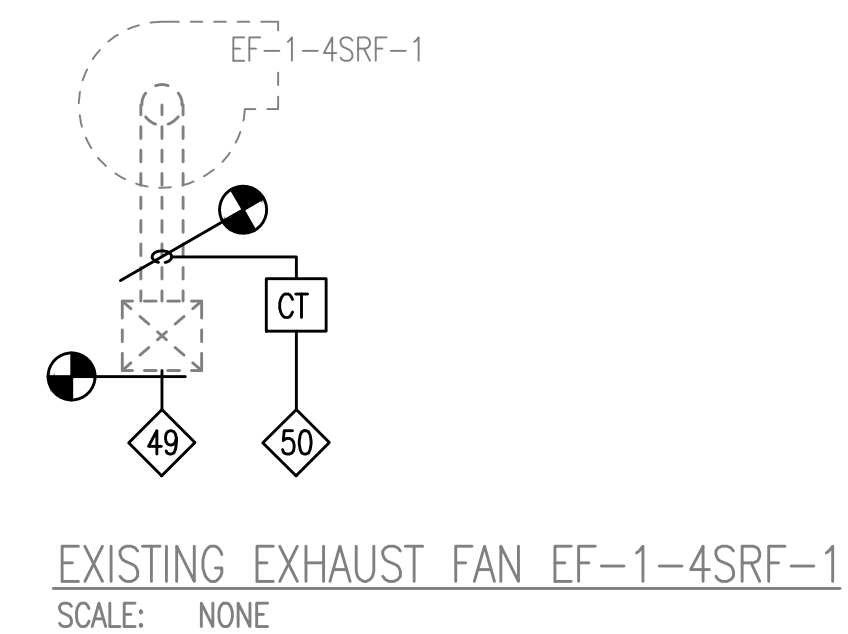
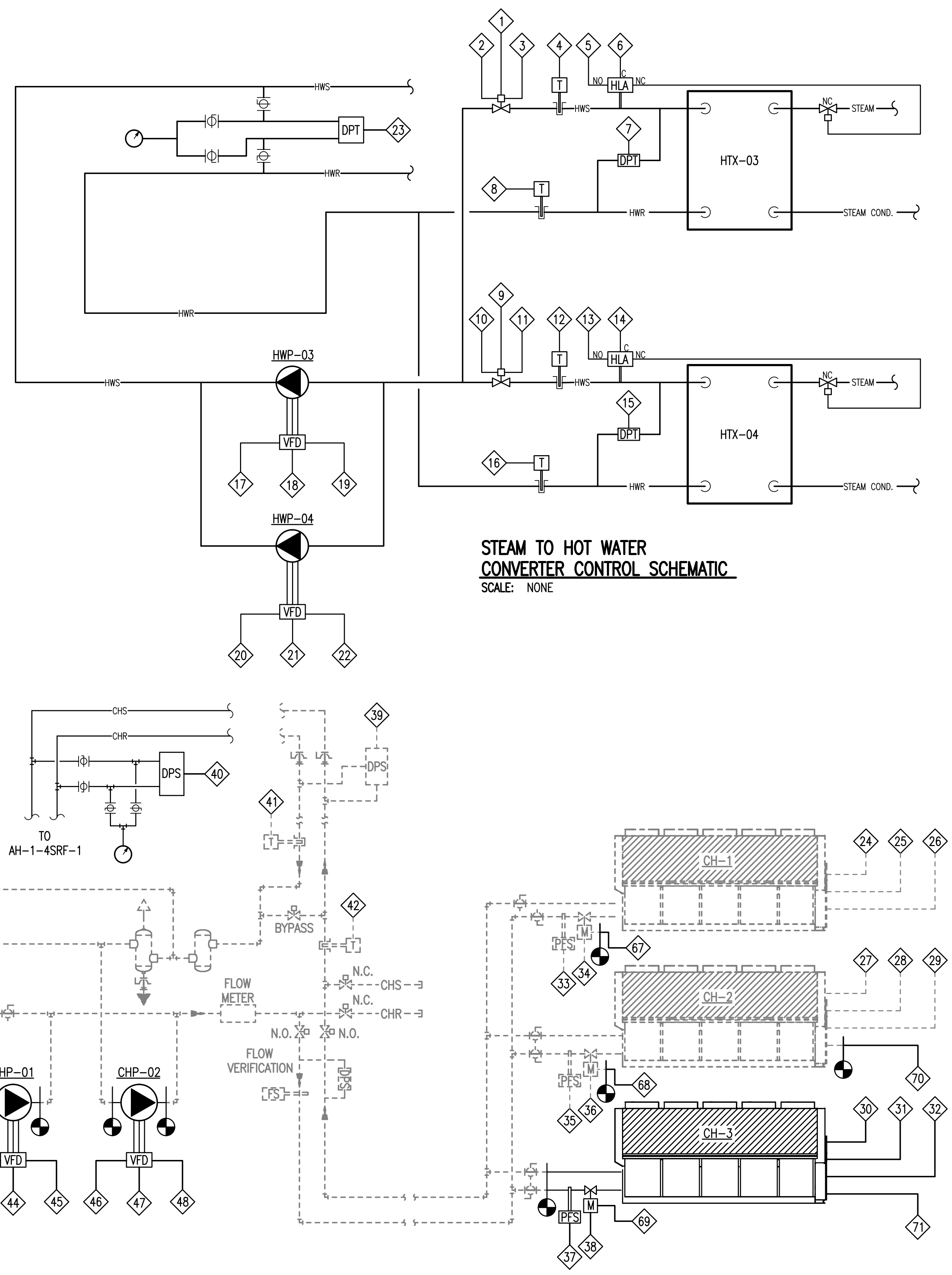
D

E

F

CONTROL LEGEND									
	FAN		TWO WAY ELECTRONIC CONTROL VALVE		REFRIGERANT GAS SENSOR		NORMALLY CLOSED		ISOLATION ROOM PRESSURE CONTROLLER KEY SWITCH
	FAN WITH INLET GUIDE VANES		THREE WAY ELECTRONIC CONTROL VALVE		OCCUPANCY SENSOR		NORMALLY OPEN		OPPOSED BLADE DAMPER
	PUMP		PARALLEL BLADE DAMPER		CURRENT TRANSDUCER		ELECTRIC HEAT SCR CONTROLLER		ROUND CONTROL DAMPER
	DX COIL		BACKDRAFT DAMPER		APPLICATION SPECIFIC CONTROLLER		FLUID FLOW METER		DAMPER ACTUATOR (ELECTRONIC)
	COOLING COIL		COMMON		COOLING COIL DRAIN PAN FLOAT SWITCH		PADDLE TYPE FLOW SWITCH		THERMOSTAT
	HEATING COIL		BINARY DATA LINK		FIRE THERMOSTAT		DIFFERENTIAL AIR PRESSURE SWITCH		FIRE ALARM CONTACTS
	HEAT EXCHANGER		DIGITAL INPUT		FREEZE PROTECTION THERMOSTAT		DIFFERENTIAL PRESSURE SENSOR		ANALOG INPUT
	SENSIBLE WHEEL		ELECTRIC HEAT STEP CONTROLLER		THERMAL OVERLOADS—NUMBER AS REQUIRED		AFMS AIR FLOW MEASURING STATION		ANALOG OUTPUT
	AIR FILTER		DUCT MOUNTED TEMP. SENSOR		SMOKE DETECTOR CONTACTS		PIPE MOUNTED TEMPERATURE SENSOR		EMERGENCY AIR SYSTEM TURN OFF BUTTON
	MOTOR STARTER		SHIELDED BULB AIR TEMPERATURE SENSOR		SMOKE DETECTOR		DUCT MOUNTED, AVERAGING TEMP. SENSOR		PRESSURE INDEPENDENT CONTROL VALVE
	HAND-OFF-AUTO SWITCH		DUCT MOUNTED HUMIDITY SENSOR		AIR FLOW MEASUREMENT STATION		STROBE/HORN		OXYGEN MONITORING SENSOR
	MOTOR START SOLENOID		SPACE HUMIDITY SENSOR		DIGITAL OUTPUT		DUCT MOUNTED HIGH LIMIT HUMIDISTAT		TERMINAL EQUIPMENT CONTROLLER
	VARIABLE FREQUENCY DRIVE		SPACE TEMPERATURE SENSOR		INPUT / OUTPUT		UVC RADIATION SENSOR		

CONTROL POINTS SCHEDULE (THIS SHEET ONLY)			
MARK	TYPE	DESCRIPTION	NOTES
1	DO	HTX-03 BLOCKING VALVE ON/OFF	
2	DI	HTX-03 BLOCKING VALVE FEEDBACK 100% OPEN	
3	DI	HTX-03 BLOCKING VALVE FEEDBACK 100% CLOSED	
4	AI	HTX-03 HEATING WATER SUPPLY TEMPERATURE	
5	DI	HTX-03 HIGH LIMIT HUMIDISTAT STATUS	
6	AO	HTX-03 STEAM VALVE MODULATION	
7	AI	HTX-03 DIFFERENTIAL PRESSURE	
8	AI	HTX-03 HEATING WATER RETURN TEMPERATURE	
9	DO	HTX-04 BLOCKING VALVE ON/OFF	
10	DI	HTX-04 BLOCKING VALVE FEEDBACK 100% OPEN	
11	DI	HTX-04 BLOCKING VALVE FEEDBACK 100% CLOSED	
12	AI	HTX-04 HEATING WATER SUPPLY TEMPERATURE	
13	DI	HTX-04 HIGH LIMIT HUMIDISTAT STATUS	
14	AO	HTX-04 STEAM VALVE MODULATION	
15	AI	HTX-04 DIFFERENTIAL PRESSURE	
16	AI	HTX-04 HEATING WATER RETURN TEMPERATURE	
17	DO	HWP-03 ON/OFF	
18	AO	HWP-03 SPEED CONTROL	
19	DATA	HWP-03 VFD STATUS	5:
20	DO	HWP-04 ON/OFF	
21	AO	HWP-04 SPEED CONTROL	
22	DATA	HWP-04 VFD STATUS	5:
23	AI	HEATING WATER SYSTEM DIFFERENTIAL PRESSURE	3:
24	DO	CH-1 ENABLE/DISABLE	1:
25	AI	CH-1 PERCENT LOADING	2:
26	DI	CH-1 FAULT STATUS	1:
27	DO	CH-2 ENABLE/DISABLE	1:
28	AI	CH-2 PERCENT LOADING	2:
29	DI	CH-2 FAULT STATUS	1:
30	DO	CH-3 ENABLE/DISABLE	
31	AI	CH-3 PERCENT LOADING	
32	AI	CH-3 ALL STATUS DATA	4:
33	DI	CH-1 PROVE FLOW	1:
34	DO	CH-1 BLOCKING VALVE ACTUATOR	1:
35	DI	CH-2 PROVE FLOW	1:
36	DO	CH-2 BLOCKING VALVE ACTUATOR	1:
37	DI	CH-3 PROVE FLOW	
38	DO	CH-3 BLOCKING VALVE ACTUATOR	
39	AI	CHILLED WATER SYSTEM DIFFERENTIAL PRESSURE	1:
40	AI	CHILLED WATER SYSTEM DIFFERENTIAL PRESSURE	6:
41	AI	CHILLED WATER RETURN TEMPERATURE	1:
42	AI	CHILLED WATER SUPPLY TEMPERATURE	1:
43	DO	CHP-01 ON/OFF	
44	AO	CHP-01 SPEED CONTROL	
45	DATA	CHP-01 VFD STATUS	5:
46	DO	CHP-02 ON/OFF	
47	AO	CHP-02 SPEED CONTROL	
48	DATA	CHP-02 VFD STATUS	5:
49	DO	EF-1-4SRF-1 ON/OFF	7:
50	AI	EF-1-4SRF-1 FAN MOTOR CURRENT	7:
51	DO	EF-1-4SRF-2 ON/OFF	
52	AI	EF-1-4SRF-2 FAN MOTOR CURRENT	
53	DO	EF-1-4SRF-3 ON/OFF	
54	AI	EF-1-4SRF-3 FAN MOTOR CURRENT	
55	DO	EF-1-4SRF-4 ON/OFF	
56	AI	EF-1-4SRF-4 FAN MOTOR CURRENT	
57	DO	EF-1-4SRF-5 ON/OFF	
58	AI	EF-1-4SRF-5 FAN MOTOR CURRENT	
59	DO	EF-1-4SRF-6 ON/OFF	
60	AI	EF-1-4SRF-6 FAN MOTOR CURRENT	
61	DO	EF-1-4SRF-7 ON/OFF	
62	AI	EF-1-4SRF-7 FAN MOTOR CURRENT	
63	SPARE		
64	DI	EMERGENCY START BUTTON EF-1-4SRF-6	3:
65	SPARE		
66	DI	EMERGENCY START BUTTON EF-1-4SRF-7	3:
67	DI	END SWITCH CH-1 ISOLATION VALVE	2:
68	DI	END SWITCH CH-2 ISOLATION VALVE	2:
69	DI	END SWITCH CH-3 ISOLATION VALVE	
70	DI	CHILLER 2 LOAD LIMIT	2:
71	DI	CHILLER 3 LOAD LIMIT	
NOTES:			
1. EXISTING POINT JCI TO REUSE AND PROVIDE 1 YEAR WARRANTY OR PROVIDE NEW ON EXISTING EQUIPMENT.			
2. NEW POINT ON EXISTING EQUIPMENT.			
3. SEE FLOOR PLAN FOR LOCATION.			
4. JCI AND CHILLER MANUFACTURER COORDINATE COMMUNICATIONS PROTOCOL SO THAT ALL DATA AVAILABLE ON CHILLER CONTROLS IS AVAILABLE ON CONTROLS INTERFACE.			
5. MECHANICAL CONTRACTOR AND CONTROLS CONTRACTOR COORDINATE VFD COMMUNICATIONS PROTOCOL WITH CONTROL SYSTEM REQUIREMENTS TO ENSURE FULL COMPATIBILITY (ALL DATA POINTS DISPLAYED/ALARMED ON CONTROLS USER INTERFACE).			
6. PROVIDE AT TOP OF NEW RISERS TO ROOF UNITS. (INSIDE AH-1-4SRF-1)			
7. NEW POINTS ON RELOCATED FAN.			



Revisions:

Date:

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Drawing Title:

CONTROL SCHEDULES AND LEGEND MECHANICAL

Project Title:

EXPAND RADIOLOGY AND SPS OVERTON BROOKS VAMC

Project Number:

667-083

Building Number:

1

Drawing Number:

M803

Date:

04-17-2015

Checked:

PJC

Drawn:

JSW

Office of Construction and Facilities Management

VA