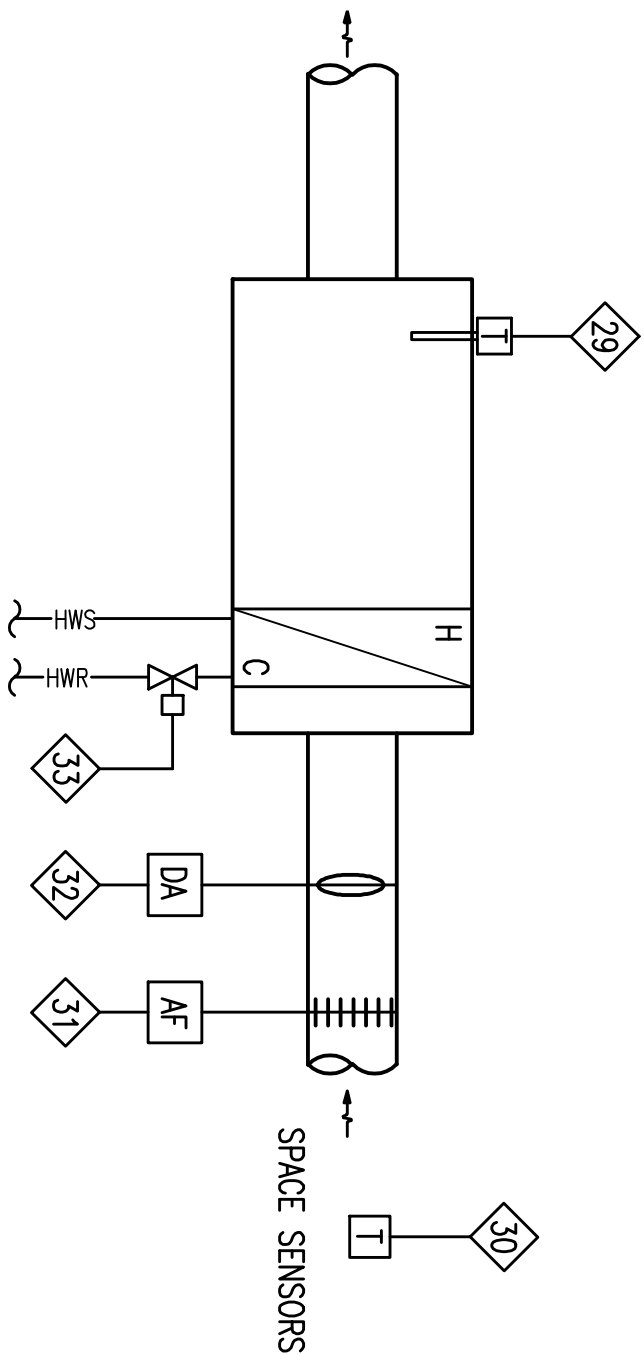


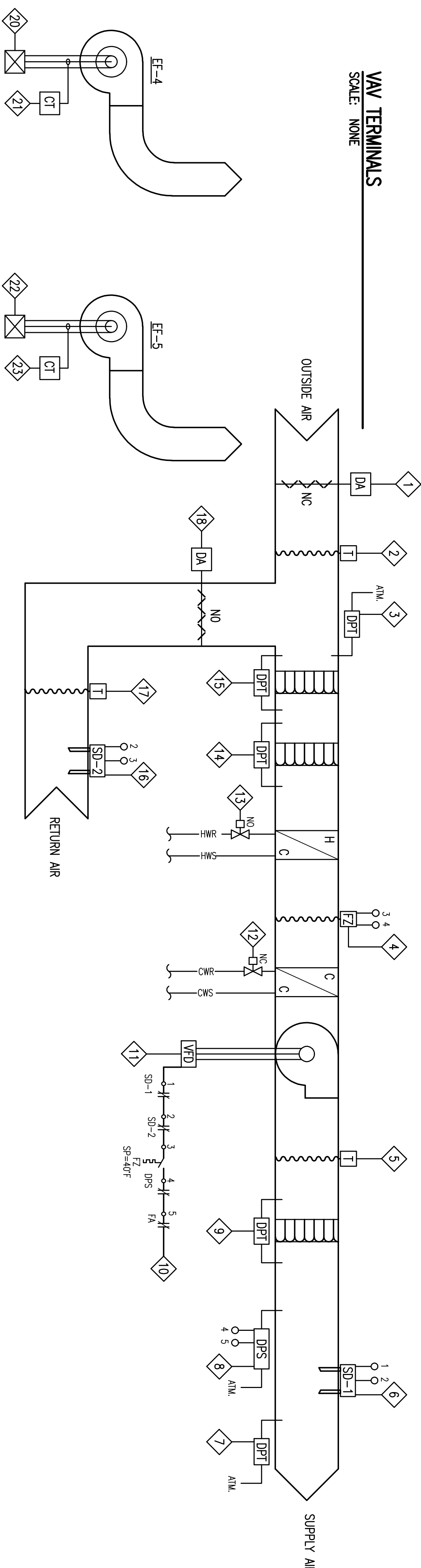
CHILLED WATER SYSTEM CONTROL DIAGRAM

SCALE: NONE



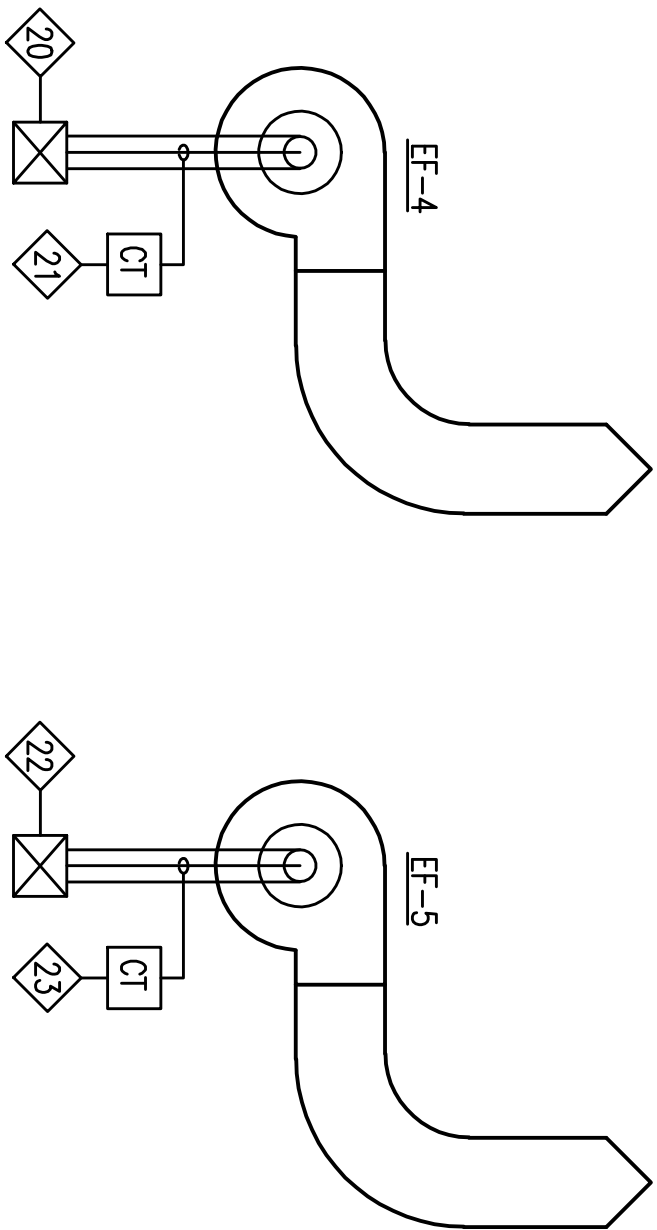
VAV TERMINALS

SCALE: NONE



AIR HANDLING UNIT AHU-2

SCALE: NONE



EXHAUST FAN EF-4

SCALE: NONE

EXHAUST FAN EF-5

SCALE: NONE

CONTROL LEGEND			
	FAN		DUCT MOUNTED TEMP. SENSOR
	FAN WITH INLET GUIDE VANES		SHIELDED BULB AIR TEMPERATURE SENSOR
	PUMP		DUCT MOUNTED HUMIDITY SENSOR
	DX COIL		SPACE HUMIDITY SENSOR
	COOLING COIL		SPACE TEMPERATURE SENSOR
	HEATING COIL		REFRIGERANT GAS SENSOR
	ENTHALPY WHEEL		OCCUPANCY SENSOR
	SENSIBLE WHEEL		CURRENT TRANSDUCER
	AIR FILTER		APPLICATION SPECIFIC CONTROLLER
	MOTOR STARTER		COOLING COIL DRAIN PAN FLOAT SWITCH
	HAND-OFF-AUTO SWITCH		FIRE THERMOSTAT
	VARIABLE FREQUENCY DRIVE		FREEZE PROTECTION THERMOSTAT
	TWO WAY PNEUMATIC CONTROL VALVE		SMOKE DETECTOR CONTACTS
	THREE WAY PNEUMATIC CONTROL VALVE		SMOKE DETECTOR
	THREE WAY ELECTRONIC CONTROL VALVE		AIR FLOW MEASUREMENT STATION
	PARALLEL BLADE DAMPER		ANALOG INPUT
	OPPOSED BLADE DAMPER		ANALOG OUTPUT
	ROUND CONTROL DAMPER		COMMON
	DAMPER ACTUATOR (ELECTRONIC)		BINARY DATA LINK
	DAMPER MOTOR (PNEUMATIC)		DIGITAL INPUT
	BI-DIRECTIONAL FLUID FLOW METER		DIGITAL OUTPUT
	PADDLE TYPE FLOW SWITCH		INPUT
	DIFFERENTIAL AIR PRESSURE SWITCH		NORMALLY CLOSED
	DIFFERENTIAL PRESSURE SENSOR		NORMALLY OPEN
	AFMS AIR FLOW MEASURING STATION		OUTPUT
	PIPE MOUNTED TEMPERATURE SENSOR		THERMOSTAT
	DUCT MOUNTED AVERAGING TEMP. SENSOR		TERMINAL EQUIPMENT CONTROLLER

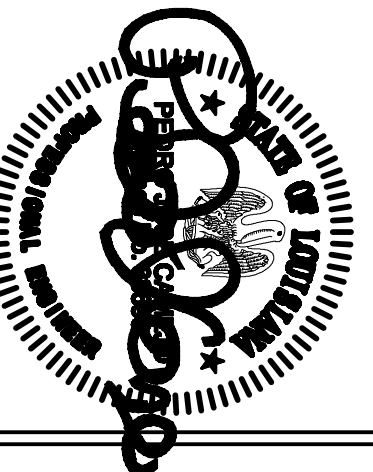
CONTROL POINTS SCHEDULE

MARK	TYPE	DESCRIPTION	NOTES
1	AO	AHU-2 OUTSIDE AIR DAMPER MODULATION	
2	AI	AHU-2 OUTSIDE AIR TEMPERATURE	
3	AI	MIXED AIR SECTION STATIC PRESSURE SENSOR	
4	DI	FREEZE STAT STATUS	1:
5	AI	SUPPLY AIR TEMPERATURE	
6	DI	SUPPLY DUCT SMOKE DETECTOR STATUS	
7	AI	SUPPLY DUCT STATIC PRESSURE	
8	DI	OVER PRESSURE SWITCH STATUS	1:
9	DI	FINAL FILTER STATUS	
10	DO	SUPPLY FAN ON/OFF	
11	AO	SUPPLY FAN SPEED CONTROL	
12	AO	CHILLED WATER VALVE MODULATION	
13	AO	HEATING WATER VALVE MODULATION	
14	DI	INTERMEDIATE FILTER STATUS	
15	DI	PREFILTER STATUS	
16	DI	RETURN AIR SMOKE DETECTOR STATUS	
17	AI	RETURN AIR TEMPERATURE	
18	AO	RETURN DAMPER MODULATION	
19	SPARE		
20	DO	EF-4 ON/OFF	
21	DI	EF-4 STATUS (MOTOR CURRENT)	
22	DO	EF-5 ON/OFF	
23	DI	EF-5 STATUS (MOTOR CURRENT)	
24	DI	CH-2 PROBE FLOW SWITCH	2:
25	DO	CH-2 ISOLATION VALVE OPEN/CLOSE	2:
26	AI	CH-1 PERCENT LOADING	2:
27	AI	CH-2 PERCENT LOADING	2:
28	SPARE		
29	AI	SUPPLY AIR TEMPERATURE	3:
30	AI	SPACE TEMPERATURE	3:
31	AI	AIR FLOW MEASUREMENT	3:
32	AO	DAMPER MODULATION	3:
33	AO	REHEAT WATER VALVE MODULATION	3,4:

NOTES:

- MANUAL RESET DEVICE.
- NEW CONTROL POINT IN EXISTING CONTROL SYSTEM.
- TYPICAL OF ONE PER VAV TERMINAL.
- TWO WAY CONTROL VALVE SHOWN. SEE FLOOR PLAN FOR FOUR TERMINALS THAT SHALL BE CONTROLLED WITH 3 WAY VALVES.

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Drawing Title		Project Title		Date	
CONTROLS MECHANICAL		2ND FLOOR OUTPATIENT MENTAL HEALTH		05-25-2011	
Approved Project Engineer	Building Number BLDG 1 SOUTH WING	Checked PJC	Drawn WSS	Project No. VA256-C-1047	100% REVIEW SUBMITTAL
	Location VA MEDICAL CENTER SHREVEPORT, LOUISIANA			DRAWING NO. M701	
				Veterans Administration	