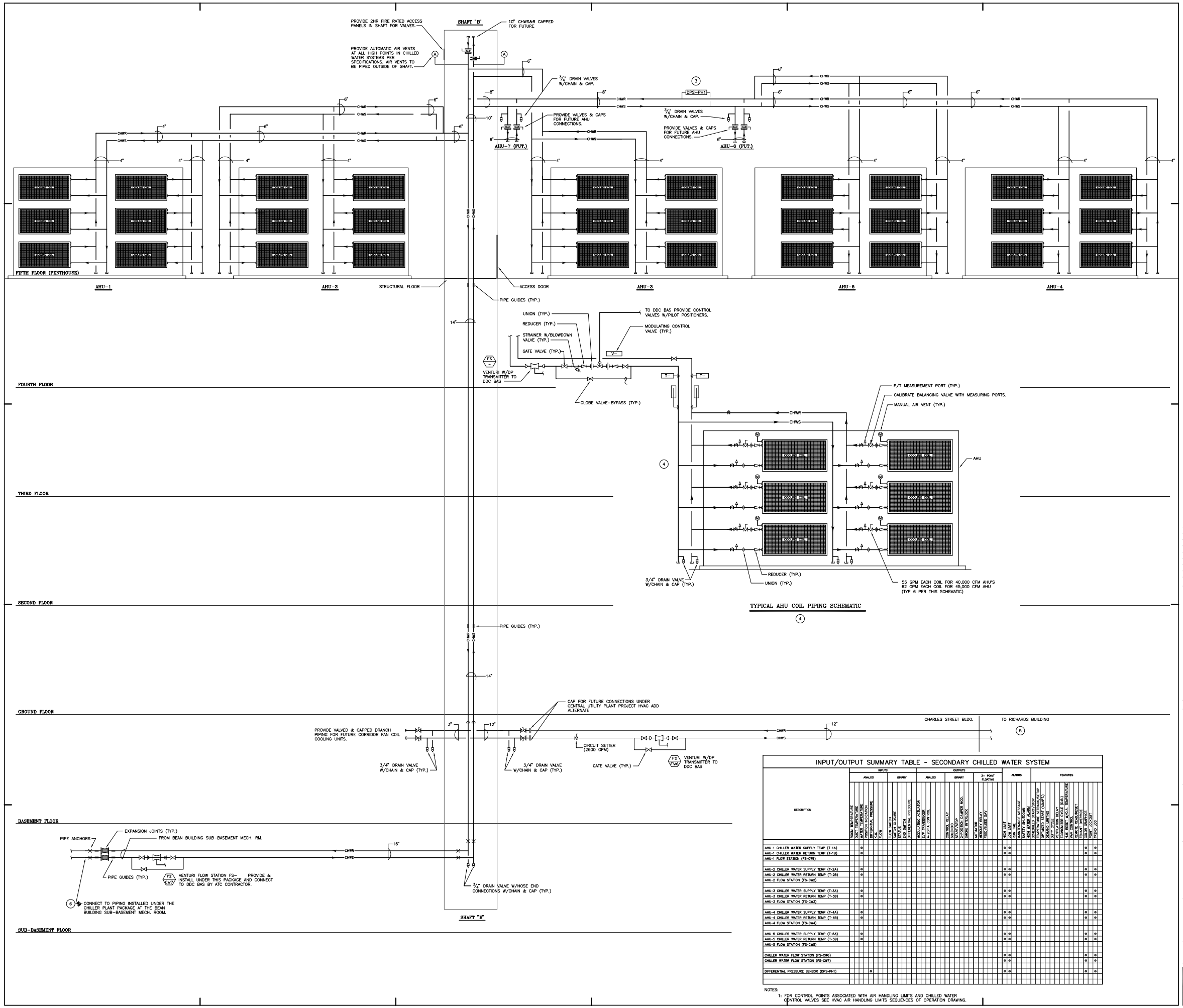


INPUT/OUTPUT SUMMARY TABLE - SECONDARY CHILLED WATER SYSTEM

DESCRIPTION	INPUTS: ANALOG: ROOM TEMPERATURE	INPUTS: ANALOG: WATER TEMPERATURE	INPUTS: ANALOG: WATER PRESSURE	INPUTS: ANALOG: DIFFERENTIAL PRESSURE	INPUTS: ANALOG: FLOW	INPUTS: BINARY: FLOW SWITCH	INPUTS: BINARY: SWITCH CLOSURE	INPUTS: BINARY: DPS SWITCH	INPUTS: BINARY: HIGH PRESSURE	OUTPUTS: ANALOG: MODULATING ACTUATOR	OUTPUTS: ANALOG: 4-20mA CONTROL	OUTPUTS: BINARY: CONTROL RELAY	OUTPUTS: BINARY: SOLENOID	OUTPUTS: BINARY: 2-SAFT/FLOW	OUTPUTS: BINARY: 2-SAFT/DAMPER MOD.	OUTPUTS: BINARY: SMOKE INTERLOCK	OUTPUTS: 3-POINT FLOATING: ACTUATOR	OUTPUTS: 3-POINT FLOATING: RELAY	OUTPUTS: 3-POINT FLOATING: FIELD/RELED SAV	ALARMS: HIGH LIMIT	ALARMS: LOW TEMP.	ALARMS: SMOKE/FIRE/DAMPER	ALARMS: SAFETY VALVE/LEAKAGE	ALARMS: SUMP WATER ALARM	FEATURES: TEMPERATURE RESET PILOT	FEATURES: TEMPERATURE RESET (S.P.)	FEATURES: DRAINING, LAYING UP	FEATURES: VENTILATION SPLIT	FEATURES: VENTILATION DELAY (S.)	FEATURES: I.L.B. RISER W/O.A. TEMPERATURE	FEATURES: I.L.B. RISER	FEATURES: REMOTE READ/INDEX	FEATURES: DOOR OPENING	FEATURES: PRINT LOGGING	FEATURES: PRESET
AHU-1 CHILLER WATER SUPPLY TEMP (T-1A)		●																		●	●													●	●		
AHU-1 CHILLER WATER RETURN TEMP (T-1B)		●																		●	●													●	●		
AHU-1 FLOW STATION (FS-CW1)																																					
AHU-2 CHILLER WATER SUPPLY TEMP (T-2A)		●																		●	●													●	●		
AHU-2 CHILLER WATER RETURN TEMP (T-2B)		●																		●	●													●	●		
AHU-2 FLOW STATION (FS-CW2)																																					
AHU-3 CHILLER WATER SUPPLY TEMP (T-3A)		●																		●	●													●	●		
AHU-3 CHILLER WATER RETURN TEMP (T-3B)		●																		●	●													●	●		
AHU-3 FLOW STATION (FS-CW3)																																					
AHU-4 CHILLER WATER SUPPLY TEMP (T-4A)		●																		●	●													●	●		
AHU-4 CHILLER WATER RETURN TEMP (T-4B)		●																		●	●													●	●		
AHU-4 FLOW STATION (FS-CW4)																																					
AHU-5 CHILLER WATER SUPPLY TEMP (T-5A)		●																		●	●													●	●		
AHU-5 CHILLER WATER RETURN TEMP (T-5B)		●																		●	●													●	●		
AHU-5 FLOW STATION (FS-CW5)																																					
CHILLER WATER FLOW STATION (FS-CW6)																				●	●													●	●		
CHILLER WATER FLOW STATION (FS-CW7)																				●	●													●	●		
DIFFERENTIAL PRESSURE SENSOR (DPS-PH1)			●																	●	●													●	●		

NOTES:
1: FOR CONTROL POINTS ASSOCIATED WITH AIR HANDLING LIMITS AND CHILLED WATER CONTROL VALVES SEE HVAC AIR HANDLING LIMITS SEQUENCES OF OPERATION DRAWING.

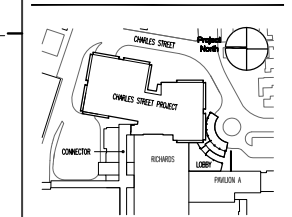
General Notes:

1. PROVIDE ADEQUATE CLEAR STRAIGHT DISTANCE UPSTEAM OF EACH FLOW SENSOR PER MANUFACTURE'S INSTRUCTIONS: MINIMUM OF 5 PIPE DIAMETERS UPSTEAM AND 3 DIAMETERS DOWNSTEAM.
2. PREBALANCE HYDRONIC FLOW TESTING REQUIRED PRIOR TO DEMOLITION OR CHANGE OF ANY SYSTEM WITH THE ULTRASONIC FLOW TESTING APPARATUS AS SPECIFIED IN THE TESTING AND BALANCING SPECIFICATION. THE SAME EQUIPMENT SHALL ALSO BE A PART OF THE FINAL BALANCE PROCESS FOR ALL NEW EQUIPMENT.
3. PROVIDE HARD WIRE CONNECTION BETWEEN DPS-PH1 AND DDC/BAS MASTER CONTROL PANEL LOCATED THE NEW CHILLER BUILDING OR ENGINEERING OFFICE FOR EFFECTIVE SECONDARY PUMP CONTROL RESPONSE.
4. REFER TO "HVAC CHILLED WATER SCHEMATIC" NOT THE "TYPICAL AHU COIL PIPING SCHEMATIC" FOR CORRECT HAND OF COIL PIPING. ALSO COORDINATE WITH 5TH FLOOR MECHANICAL ROOM PLANS AND "HVAC AIR HANDLING UNIT AHU-1 AND AHU-4, AHU-2 AND AHU-3, AHU-5 DETAIL SHEETS" FOR CORRECT COIL PIPING.
5. PIPING IN THE RICHARDS BUILDING IS PART OF A SEPARATE CONTRACT ASSOCIATED WITH THE NEW BOILER/CHILLER PLANT
6. CHILLED WATER PIPING SOURCE IN THE L.L. BEAN SUB-BASEMENT IS PART OF A SEPARATE CONTRACT ASSOCIATED WITH THE NEW BOILER/CHILLER PLANT. CONNECTIONS IN THE L.L. BEAN SUB-BASEMENT ARE PART AND PARCEL OF THIS CONTRACT.

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/24/04	PERMIT SET - NOT FOR CONSTRUCTION

FOR PERMIT ONLY - NOT FOR CONSTRUCTION

Issue Log



Key Plan

TRO
Architecture
Planning
Engineering
Interior Design
The Fitzhile Organization
50 Bridge Street
Newton, MA 02459-4134
617-969-0400

Maine Medical Center
Charles Street Project
Portland, Maine
MMC Project No. 21841

Drawing Title
HVAC CHILLED WATER SCHEMATIC

0' 0 0 0 0

Commission No.	4673	Date Issued	
Scale	NTS	Sheet Number	
Drawn By	FWC		
Approved By	CW		
Filename	4673H503		H503

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