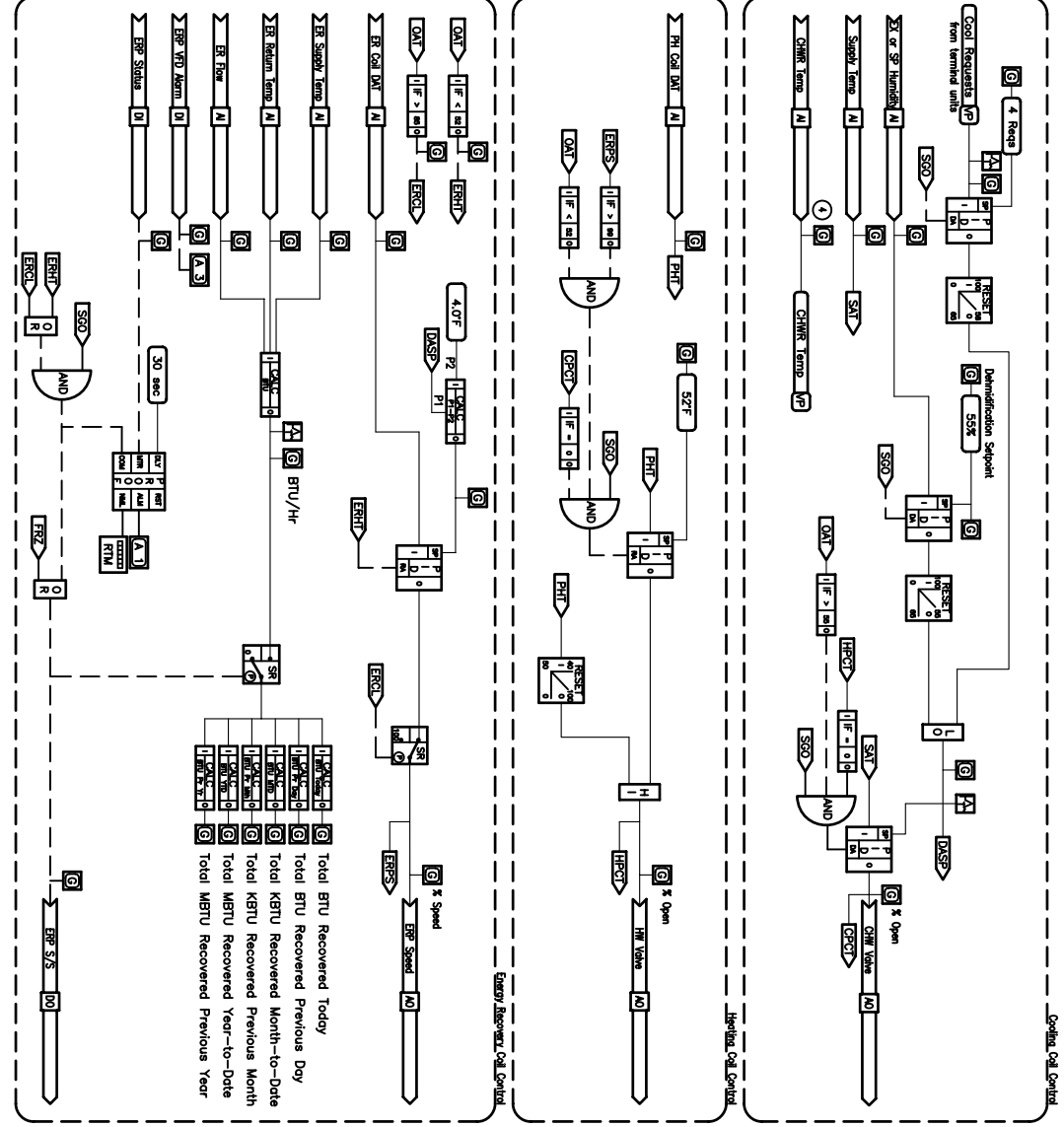
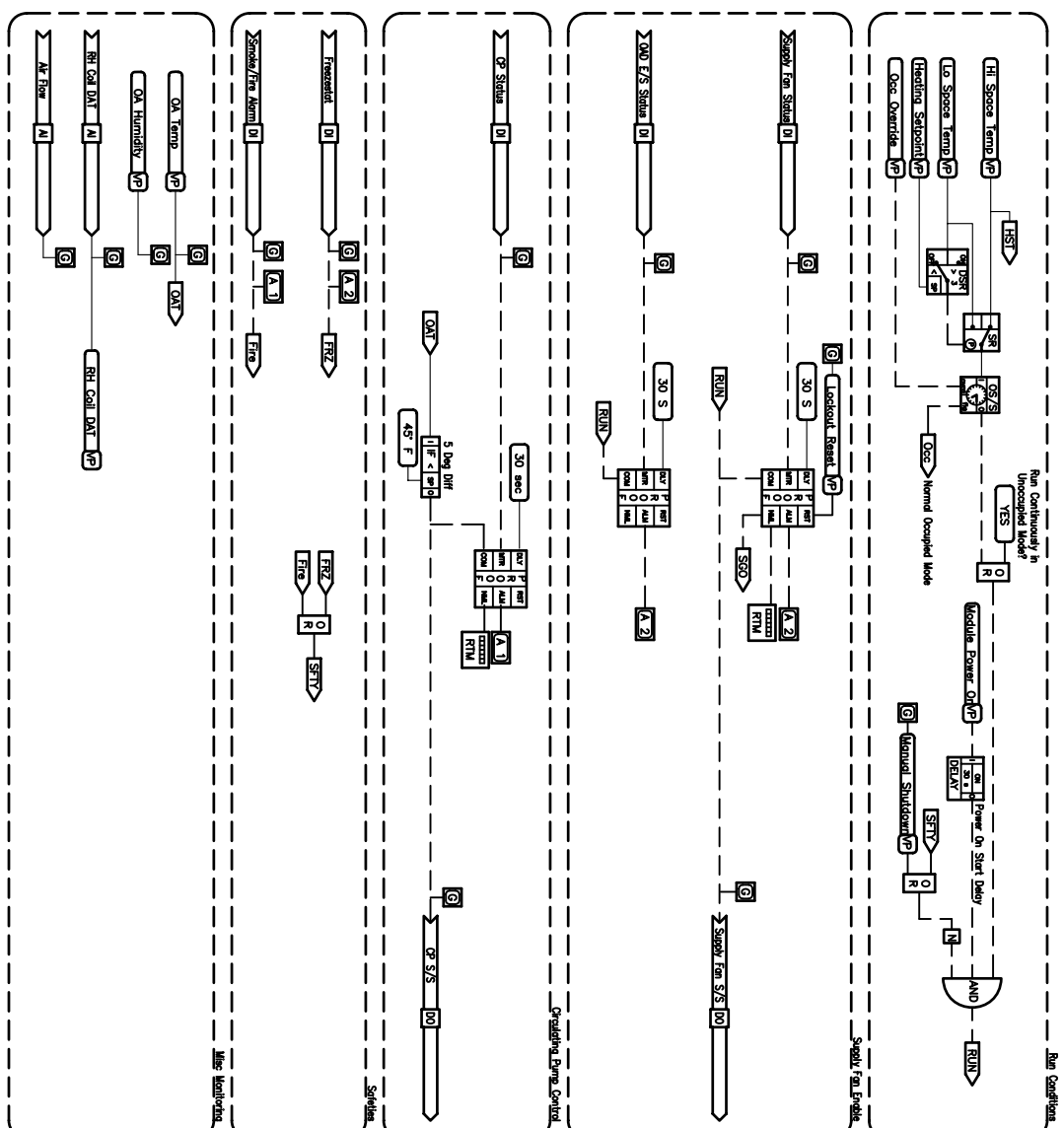


- NOTES
1. Provide multiple Freezerstats as required to achieve 3ft of element for each 3 sqft of coil face area.
 2. Provide CHWR temperature wall and sensor on all units with coil capacity greater than 10 tons.
 3. Where applicable per mechanical design.
 4. See sheet C-4.05 Miscellaneous Controls for additional equipment details.

100% OA CV AH WITH HEAT RECOVERY, PREHEAT & CHW COIL

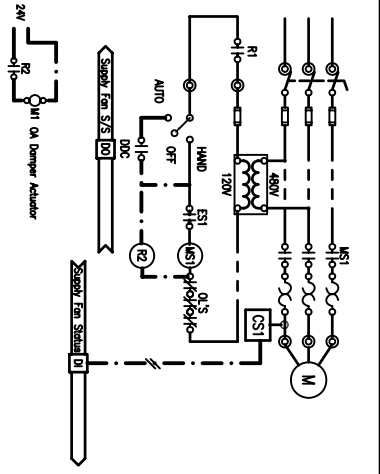


POINTS LIST					REMARKS	NO.	DESCRIPTION	DATE
ADDRESS	POINT TYPE	DI	AI	DO				
Supply Fan S/S	*							
Supply Fan Status	*							
Air Flow	*							
Supply Temp	*							
RH Coil DAT	*							
Freezerstat	*							
OA E/S Status	*							
ER Coil DAT	*							
CHWR Temp	*							
CHW Valve	*							
HR Valve	*							
Chw Pump S/S	*							
Chw Pump Status	*							
Fire Alarm	*							
ER Pump S/S	*							
ER Pump Status	*							
FRP VFD Alarm	*							
FRP Speed	*							
ER Supply Temp	*							
ER Return Temp	*							
ER Flow	*							
EX or SP Humidity	*							

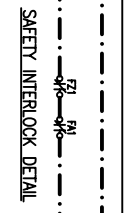
LOGIC VARIABLES

BINARY	ANALOG	DESCRIPTION
OGC		ON WHEN OCCUPIED MODE ACTIVE
RUN		ON WHEN UNIT COMMENCED TO START
SSO		ON WHEN SUPPLY FAN ENERGIZED AND STATUS PROVEN
SMKZ		ON WHEN SMOKE DETECTOR IS IN ALARM
FRZ		ON WHEN FREEZERSTAT IS IN ALARM
FRP		ON WHEN FIRE ALARM IS ACTIVE
LSI		ON WHEN "FRZ", "THW" OR "SMK" ARE ON
CAI		VARIABLE CALCULATED VALUE OF HIGHEST SPACE TEMPERATURE
SAT		VARIABLE VALUE OF SUPPLY AIR TEMPERATURE
PHT		VARIABLE VALUE OF PREHEAT AIR TEMPERATURE
OPC		VARIABLE CALCULATED VALUE OF CHW VALVE POSITION
HPRC		VARIABLE CALCULATED VALUE OF RH VALVE POSITION
ERPS		VARIABLE CALCULATED VALUE OF ENERGY RECOVERY PUMP SPEED
ERHT		ON WHEN ENERGY RECOVERY SYSTEM ENERGIZED IN HEATING MODE
ERCL		ON WHEN ENERGY RECOVERY SYSTEM ENERGIZED IN COOLING MODE

ELECTRIC LADDER DIAGRAMS



SUPPLY FAN STARTER



REV. 5

100% OA CV AH
WITH HEAT
RECOVERY, PREHEAT
& CHW COIL

00 OF 00
SHEET NUMBER

C-1.05

DWG NUMBER



The University of North Carolina
Chapel Hill, North Carolina
Standard Control Drawings