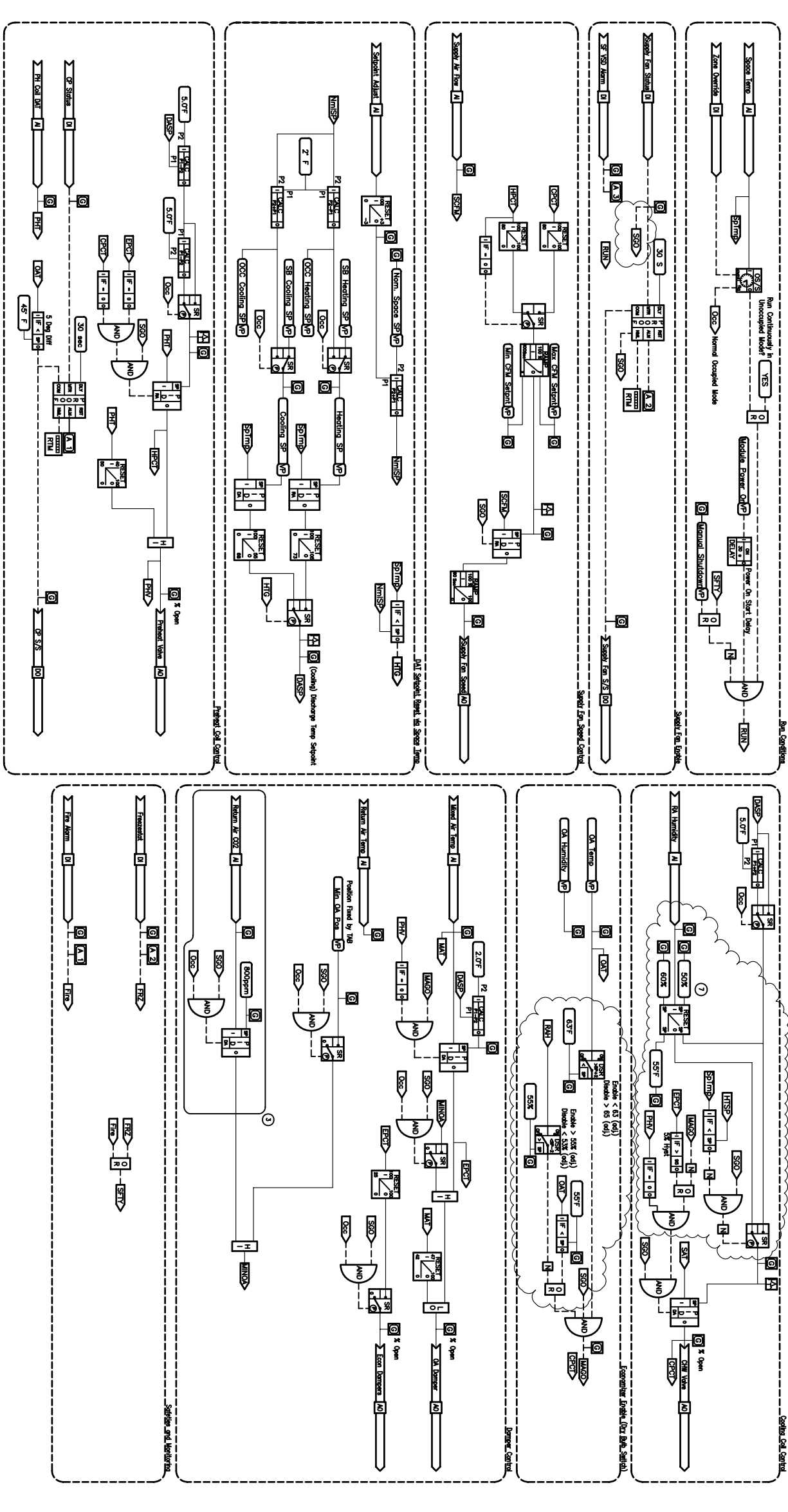


SINGLE DUCT CV-VSD AH WITH PREHEAT & CHW



Software Logic Diagram

- NOTES
1. Provide multiple Freezestats as required to achieve 3ft of element for each 3 sq ft of coil face area.
 2. Provide communications interface to the control system for diagnostic point information. Refer to notes 11a for detailed points to be mapped.
 3. Provide Return or Space Air CO2 sensors for demand ventilation applications only.
 4. Coordinate with mechanical design to ensure adequate straight lengths of duct and proper range on the sensor. Fan AFMS may be duct or inlet type, see plans for design.
 5. Where applicable per mechanical design.
 6. See sheet C-4.05 Miscellaneous Controls for additional equipment details.
 7. Reset values shown should be adjusted for optimized building and energy performance.

POINTS LIST					REMARKS	NO.	DESCRIPTION	DATE
ADDRESS	POINT TYPE	DI	AI	DO				
	Supply Fan S/S		*					
	Supply Fan Status		*					
	Supply Fan Speed		*					
	Supply Air Flow		*					
	Supply Temp		*					
	FH Coil DAT		*					
	Freeze/Stat		*					
	Mixed Air Temp		*					
	Space Temp		*					
	Supply Adjust		*					
	Space CO2		*					
	Return Air Temp		*					
	Return Air Humidity		*					
	Return Air CO2		*					
	Space CO2		*					
	Preheat Valve		*					
	CHW Valve		*					
	Exhaust Damper		*					
	Fire Alarm		*					
	Fire Alarm S/S		*					
	Fire Alarm Status		*					
	Fire Alarm Fault		*					
	Fire Alarm Code		*					
	Fire Alarm Feedback		*					
	Fire Alarm RV		*					
	Fire Alarm RV		*					

LOGIC VARIABLES

BI/MAT	ANALOG	DESCRIPTION
LOGC		ON WHEN OCCUPIED MODE ACTIVE
LOGC		ON WHEN UNIT COMMENCED TO START
LOGC		ON WHEN SETBACK HEATING MODE ACTIVE
LOGC		ON WHEN SETBACK COOLING MODE ACTIVE
LOGC		ON WHEN WARM-UP MODE ACTIVE
LOGC		ON WHEN COOL-DOWN MODE ACTIVE
LOGC		ON WHEN SUPPLY FAN ENERGIZED AND STATUS PROVEN
LOGC		ON WHEN OA CONDITIONS ALLOW ECONOMIZER CONTROL
LOGC		ON WHEN SPACE TEMPERATURE LOWER THAN NORMAL SPACE SETPOINT
LOGC		ON WHEN FREEZE/STAT IS IN ALARM
LOGC		ON WHEN FIRE ALARM IS ACTIVE
LOGC		ON WHEN FIRE SHUTDOWN SAFETY IS ON
LOGC		ON WHEN PREHEAT VALVE POSITION
LOGC		ON WHEN CHW VALVE POSITION
LOGC		ON WHEN EXHAUST DAMPER POSITION
LOGC		ON WHEN FIRE ALARM S/S
LOGC		ON WHEN FIRE ALARM STATUS
LOGC		ON WHEN FIRE ALARM FAULT
LOGC		ON WHEN FIRE ALARM CODE
LOGC		ON WHEN FIRE ALARM FEEDBACK
LOGC		ON WHEN FIRE ALARM RV
LOGC		ON WHEN FIRE ALARM RV

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Standard Control Drawings



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