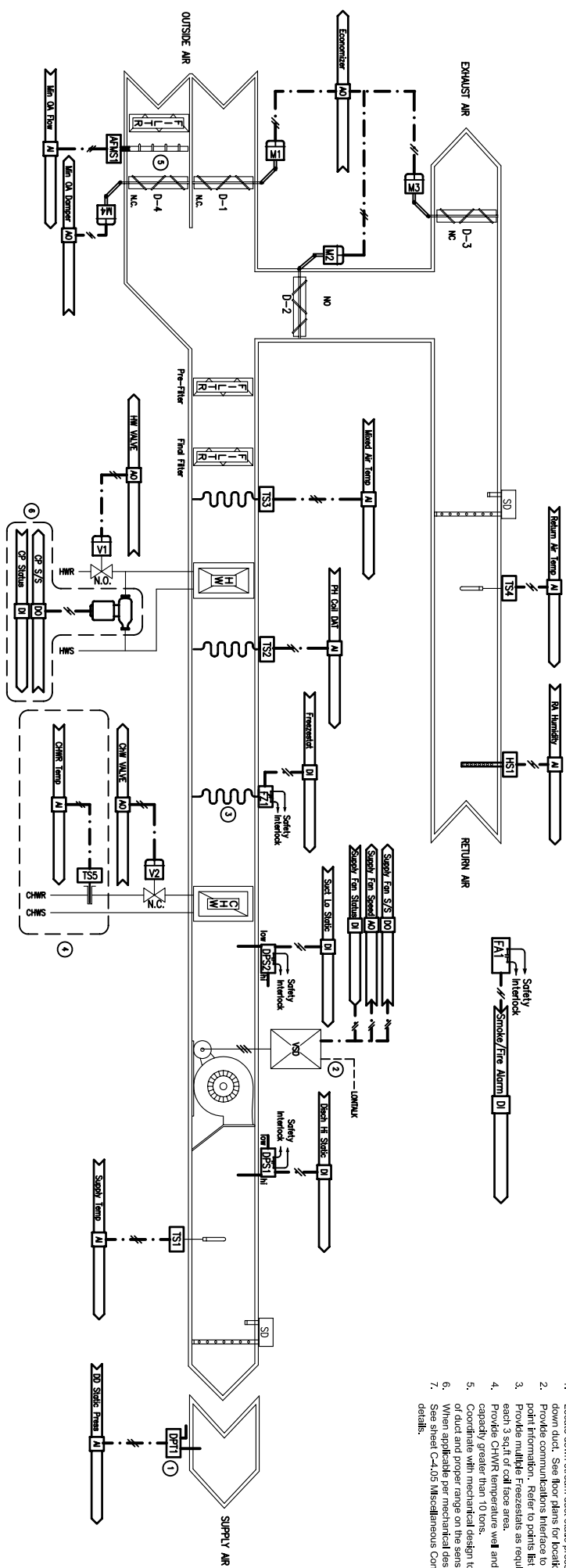


REVISIONS		
NO.	DESCRIPTION	DATE



1. Locate down stream dist static pressure pit-head tube approximately 20' down duct. See floor plans for location.
 2. Provide communications interface to the control system for diagnostic point information. Refer to points list for required points to be mapped.
 3. Provide multiple Firestriks as required to achieve 5ft of element for each 3' split of coil face area.
 4. Provide CMHR temperature wet and sensor on all units with coil capacity greater than 10 tons.
 5. Coordinate with mechanical design to ensure adequate straight lengths of duct and proper range on the sensor.
 6. When applicable per mechanical design.
7. See sheet CA-05 Miscellaneous Controls for additional equipment details.

POINTS LIST							
ADDRESS	POINT DESCRIPTION	POINT TYPE					REMARKS
		DI	AI	DO	AO	W	
	Supply Fan S/S		*				
	Supply Fan Status				*		
	DD Stole Press		*				See Note 1
	Supply Temp		*				
	Supply Ht Static		*				
	Supply to Static		*				
	PH Coil DAT		*				
	Freezestdt		*				
	Mixed Air Temp		*				
	Return Air Temp		*				
	CHW Valve		*				
	CHRW Temp		*				See Note 4
	HH Valve			*			
	Circ Pump S/S		*				See Note 6
	Circ Pump Status		*				See Note 6
	Economizer		*				
	Min OA Dhw		*				
	Smoke/Tra Alarm	*					
	VFD Alarm/Fault		*				Interlock Point
	VFD Fault Code		*				Interlock Point
	VFD Spd Feedback		*				Interlock Point
	VFD KW		*				Interlock Point
	VFD In Bypass		*				Interlock Point

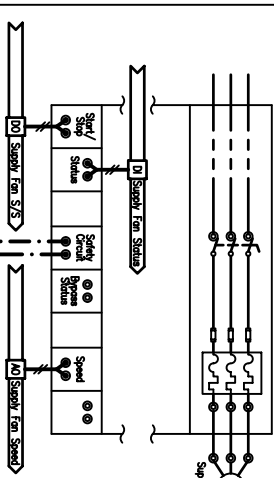
LOGIC VARIABLES

	BINARY	ANALOG	DESCRIPTION
DOGE			ON WHEN OCCUPIED MODE ACTIVE
FLUID			ON WHEN UNIT COMMENCED TO START
SSGO			ON WHEN SUPPLY FAN DEREGULATED AND STATUS PROVEN
IMAGSD			ON WHEN OA COMPARTMENT ALLOW ECONOMIZER CONTROL
HIPR			ON WHEN DISCHARGE HIGH PRESSURE SWITCH IS IN ALARM
LOPR			ON WHEN Suction LOW PRESSURE SWITCH IS IN ALARM
FRZ			ON WHEN FREEZE/STST IS IN ALARM
FLTE			ON WHEN FIRE ALARM IS ACTIVE
SEFT			ON WHEN SHUTDOWN SAFETY IS ON

[HST]	VARIABLE OCCUPIED VALUE OF HIGHEST SPACE TEMPERATURE
[OAT]	VARIABLE VALUE OF OUTSIDE AIR TEMPERATURE
[SAT]	VARIABLE VALUE OF SUPPLY AIR TEMPERATURE
[RHT]	VARIABLE VALUE OF RETURN AIR TEMPERATURE
[IAT]	VARIABLE VALUE OF INLET AIR TEMPERATURE
[DASP]	VARIABLE OCCUPIED VALUE OF DISCHARGE TEMPERATURE SETPOINT
[OCP]	VARIABLE OCCUPIED VALUE OF CHAM VALVE POSITION
[HCP]	VARIABLE OCCUPIED VALUE OF HM VALVE POSITION
[ECP]	VARIABLE OCCUPIED VALUE OF ECONOMIZER POI OUTPUT
[MINO]	VARIABLE OCCUPIED VALUE OF MINIMUM OA DAMPER POSITION

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

ELECTRIC LADDER DIAGRAMS



REV. 5

**SINGLE DUCT
VAV AH WITH
PREHEAT &
CHW COIL, MIN
OA DAMPER,
NO RETURN
FAN**

00 OF 00
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SHEET NUMBER

C-1.02

SAFETY INTERLOCK DETAIL

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Software Logic Diagram

SINGLE DUCT VAV AH WITH PREHEAT & CHW COIL, MIN OA DAMPER, NO RETURN FAN

