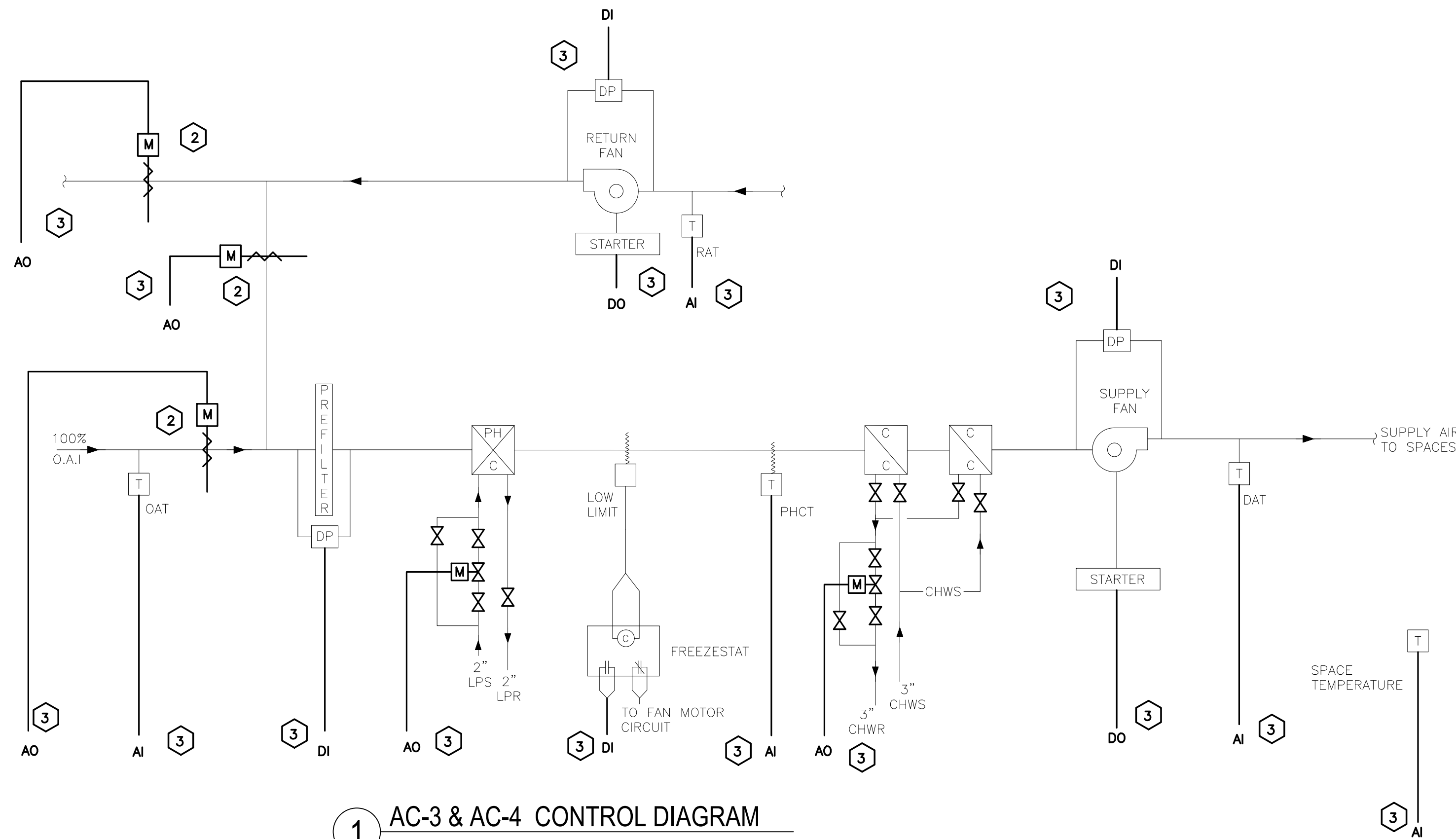


GENERAL NOTES

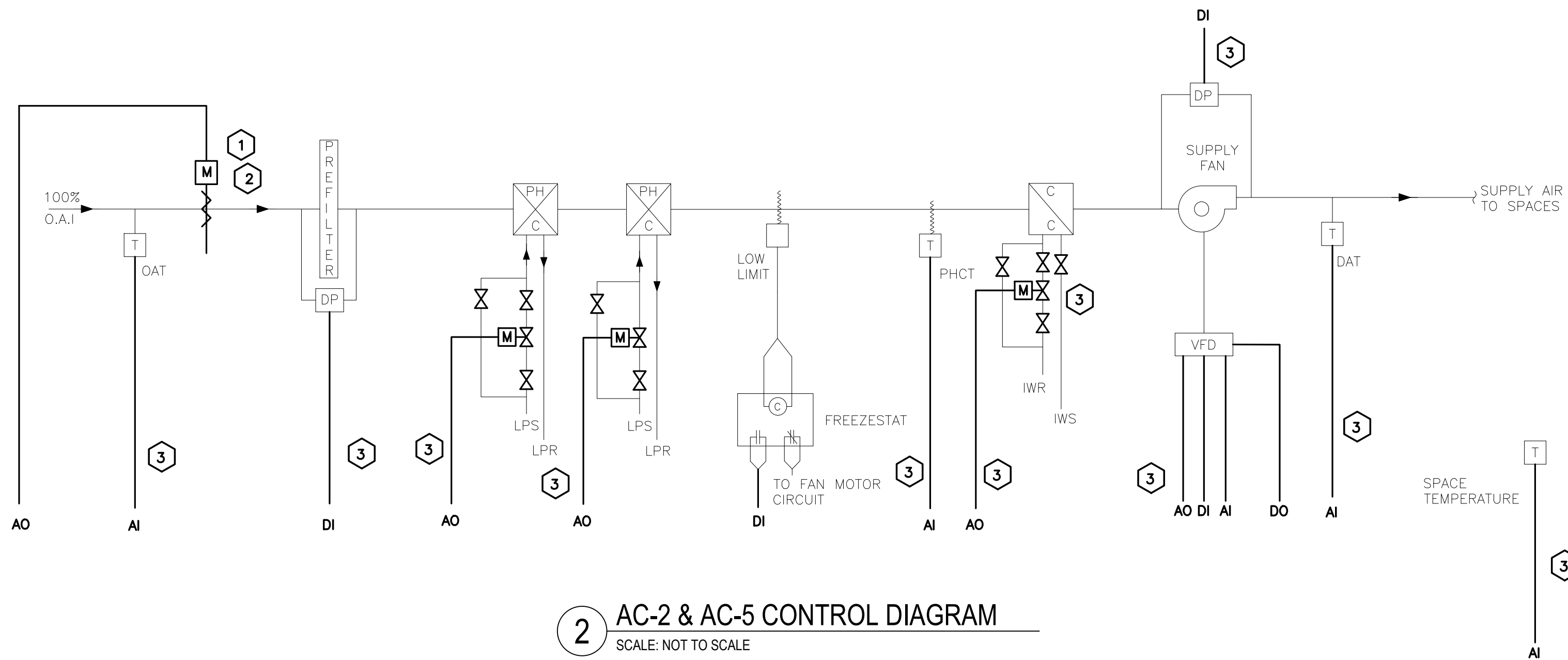
- ALL PENETRATIONS THROUGH THE FLOOR TO BE SEALED AS IF FLOORS ARE 1-HR FIRE RATED.
- IF THERE IS AN AIR PLENUM WITH NON-DUCTED SUPPLY, RETURN OR EXHAUST, CONTRACTOR IS TO PROVIDE PLENUM RATED CABLE. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ROOMS:
1-17, 1-18, 1-24, 1-38, 1-41, 1-51 & 1-55
- PHASING WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER AND THE PROPOSED PHASING ON M-001. CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR REVIEW AND APPROVAL BY DASNY, OMH/COOK CHILL FACILITY, AND EME. CONTRACTOR SHALL PROVIDE A SCHEDULE PER SPECIFICATION 013200 AND SCHEDULE SHALL BE CONSISTENT WITH APPROVED PHASING PLAN.
- ALL SENSORS AND UNITARY CONTROLLERS TO REMAIN UNLESS OTHERWISE NOTED.
- EMT IS REQUIRED FOR ALL EXPOSED LOCATIONS INCLUDING KITCHEN AND MECHANICAL EQUIPMENT ROOMS. J HOOKS ARE TO BE PROVIDED FOR CONCEALED SPACES.
- FURNISH AND INSTALL NEW FIRE RATED CABLE SLEEVE THROUGH RATED WALLS AND FIRE STOP. REFER TO M-002 FOR FIRE RATINGS.
- EXISTING SMOKE DETECTORS TO REMAIN AND MAINTAIN EXISTING FUNCTIONS AND SEQUENCES FOR FIRE ALARM.
- CONTRACTOR TO VERIFY IF FREEZESTATS ARE NORMALLY OPEN OR NORMALLY CLOSED.
- NEW SPACE TEMPERATURE AND COMBINATION TEMPERATURE/HUMIDITY SENSORS ARE TO BE INSTALLED AS INDICATED ON FLOOR PLANS. REFER TO DRAWINGS M-100 THROUGH M-104 FOR LOCATIONS.
- PROVIDE ALL NECESSARY GRAPHIC PAGES INCLUDING BUT NOT LIMITED TO DP SENSORS AND TEMPERATURE AND RELATIVE HUMIDITY MONITORING.

KEYED NOTES

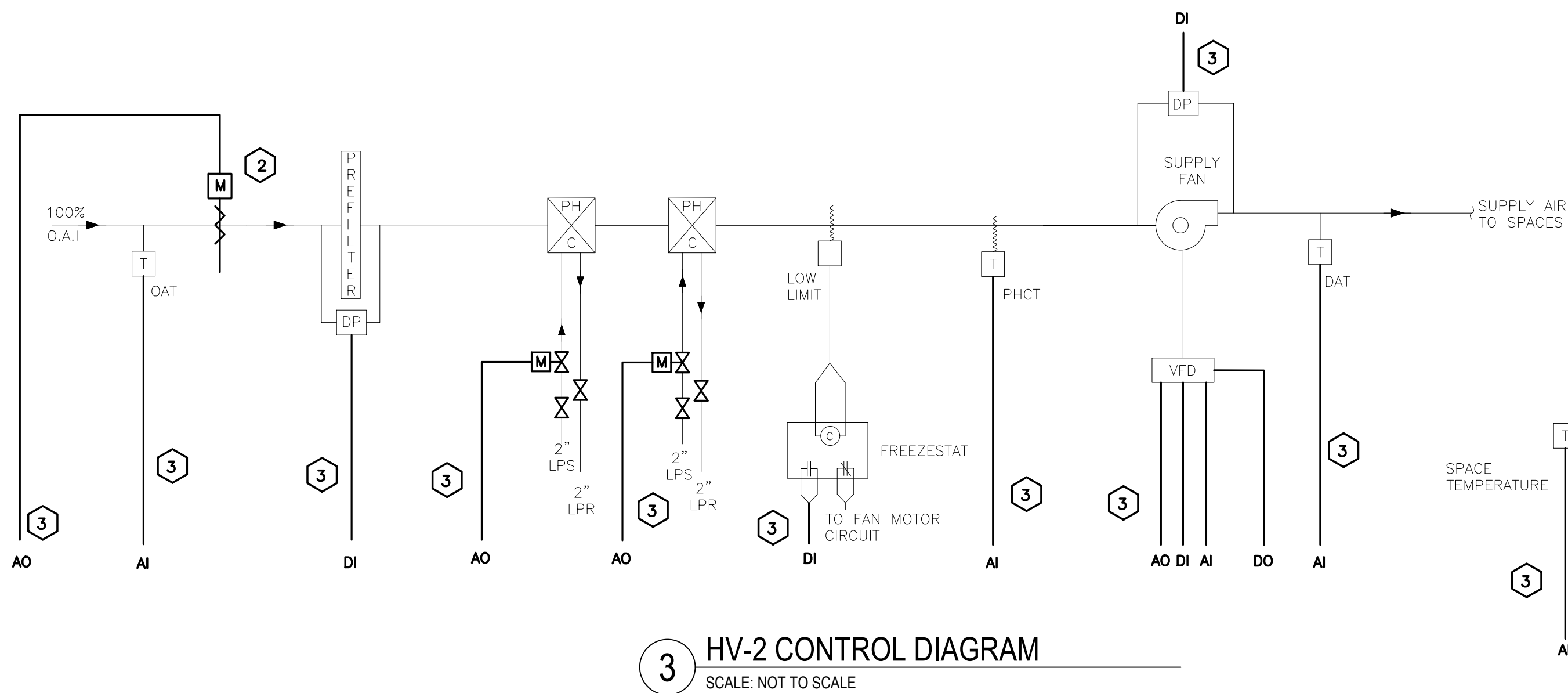
- FURNISH AND INSTALL NEW DAMPER ACTUATOR, PROVIDE NEW CONTROL WIRING, CONDUIT AND INTEGRATE TO NEW BMS. (ONLY APPLIES TO AC-5)
- FURNISH AND INSTALL NEW DAMPER AND ACTUATOR, PROVIDE NEW CONTROL WIRING, CONDUIT AND INTEGRATE TO THE NEW BMS.
- FURNISH AND INSTALL REQUIRED CONTROLLER NETWORK WIRING AND COMMUNICATION CABLING TO INTEGRATE CONTROL POINTS TO THE NEW BMS.



1 AC-3 & AC-4 CONTROL DIAGRAM
SCALE: NOT TO SCALE



2 AC-2 & AC-5 CONTROL DIAGRAM
SCALE: NOT TO SCALE



3 HV-2 CONTROL DIAGRAM
SCALE: NOT TO SCALE

TYPICAL AC-3 CONTROL POINTS				
TYPE	DESCRIPTION	UNITS	TREND	ALARM
DI	SUPPLY FAN PRESSURE SWITCH	ON/OFF		X
AI	SPACE TEMPERATURE (RM 1-45)	DEG	X	X
AI	PREHEAT DISCHARGE AIR TEMPERATURE	DEG	X	X
AI	MIXED AIR TEMPERATURE	DEG	X	X
DI	FILTER STATUS PRESSURE SWITCH	NORMAL/ALARM	X	X
AI	SUPPLY AIR TEMPERATURE	DEG	X	X
DI	FREEZE STAT LOW LIMIT SWITCH	ON/OFF		X
DO	SUPPLY FAN S/S RELAY	ON/OFF		X
AO	PREHEAT COIL STEAM VALVE	%OPEN	X	
AO	COOLING COIL VALVE	%OPEN	X	
AO	MAX OA DAMPER	%OPEN	X	
AO	RETURN DAMPER	%OPEN	X	
AO	EXHAUST DAMPER	%OPEN	X	
DI	RETURN FAN PRESSURE SWITCH	ON/OFF		X
DO	RETURN FAN S/S RELAY	ON/OFF		X
AI	RETURN AIR TEMPERATURE	DEG	X	X
DI	AC SMOKE PURGE RELAY	NORMAL/ALARM		X

TYPICAL AC-4 CONTROL POINTS				
TYPE	DESCRIPTION	UNITS	TREND	ALARM
AI	AC-4 SPACE TEMPERATURE	DEG	X	X
AI	AC-4 MIXED AIR TEMPERATURE	DEG	X	X
AI	AC-4 PREHEAT DISCHARGE AIR TEMPERATURE	DEG	X	X
AI	AC-4 SUPPLY AIR TEMPERATURE	DEG	X	X
AI	AC-4 RETURN AIR TEMPERATURE	DEG	X	X
AI	AC-4 OUTSIDE AIR TEMPERATURE	DEG	X	X
DI	AC-4 SUPPLY FAN PRESSURE SWITCH	ON/OFF	X	X
DI	AC-4 FILTER STATUS PRESSURE SWITCH	NORMAL/ALARM	X	X
DI	AC-4 FREEZE STAT LOW LIMIT SWITCH	ON/OFF		X
DO	AC-4 SUPPLY FAN S/S RELAY	ON/OFF		X
AO	AC-4 PREHEAT COIL STEAM VALVE	%OPEN	X	
AO	AC-4 COOLING COIL VALVE	%OPEN	X	
DI	AC-4 SMOKE PURGE RELAY	NORMAL/ALARM		X
AO	AC-4 MAX OA DAMPER	%OPEN	X	
AO	AC-4 EXHAUST DAMPER	%OPEN	X	
DI	RF-2 RETURN FAN PRESSURE SWITCH	ON/OFF	X	X
DO	RF-2 RETURN FAN S/S RELAY	ON/OFF		X
AO	RF-2 RETURN DAMPER	%OPEN	X	

TYPICAL AC-2 CONTROL POINTS				
TYPE	DESCRIPTION	UNITS	TREND	ALARM
DI	AC-2 SUPPLY FAN PRESSURE SWITCH	ON/OFF	X	X
AI	AC-2 SPACE TEMPERATURE	DEG	X	X
AI	AC-2 PREHEAT DISCHARGE AIR TEMPERATURE	DEG	X	X
AI	AC-2 OUTSIDE AIR TEMPERATURE	DEG	X	
DI	AC-2 FILTER STATUS PRESSURE SWITCH	NORMAL/ALARM	X	X
AI	AC-2 SUPPLY AIR TEMPERATURE	DEG	X	X
DI	AC-2 FREEZE STAT LOW LIMIT SWITCH	ON/OFF		X
DO	AC-2 SUPPLY FAN S/S RELAY	ON/OFF		X
AO	AC-2 PREHEAT COIL VALVE #1	%OPEN	X	
AO	AC-2 PREHEAT COIL VALVE #2	%OPEN	X	
AO	AC-2 COOLING COIL VALVE	%OPEN	X	
AO	AC-2 OUTSIDE AIR DAMPER	%OPEN	X	
AI	AC-2 FAN SPEED FEEDBACK	% SPEED	X	X
DI	AC-2 FAN COMMON ALARM	NORMAL/ALARM		X
AO	AC-2 FAN SPEED COMMAND	% SPEED	X	X

TYPICAL AC-5 CONTROL POINTS				
TYPE	DESCRIPTION	UNITS	TREND	ALARM
DI	AC-5 SUPPLY FAN PRESSURE SWITCH	ON/OFF	X	X
DI	AC-5 PACKAGED LIQUID STATUS PRESSURE SWITCH	ON/OFF	X	X
AI	AC-5 PREHEAT DISCHARGE AIR TEMPERATURE	DEG	X	X
AI	AC-5 SUPPLY AIR TEMPERATURE	DEG	X	X
AI	AC-5 OUTSIDE AIR TEMPERATURE	DEG	X	X
DI	AC-5 FILTER STATUS PRESSURE SWITCH	NORMAL/ALARM	X	X
DI	AC-5 FREEZE STAT LOW LIMIT SWITCH	ON/OFF		X
AO	AC-5 OUTSIDE AIR DAMPER	%OPEN	X	
DI	AC-5 ICE PUMP ALARM RELAY	NORMAL/ALARM		X
DI	AC-5 BAC COMMON ALARM RELAY	NORMAL/ALARM		X
DI	AC-5 NIAGARA UNIT ALARM RELAY	NORMAL/ALARM	X	X
DO	AC-5 SUPPLY FAN S/S RELAY	ON/OFF		X
AO	AC-5 PREHEAT COIL STEAM VALVE #1	%OPEN	X	
AO	AC-5 PREHEAT COIL STEAM VALVE #2	%OPEN	X	
AO	AC-5 COOLING COIL VALVE	%OPEN	X	
DI	LOW TEMP CUT-OUT	NORMAL/ALARM	X	X
DI	SUMP PUMP LEVEL HIGH	NORMAL/ALARM		X
DI	DIALER STATUS ALARM	NORMAL/ALARM		X
DI	NIAGARA DEHUMIDIFICATION SYSTEM STATUS	ON/OFF		X

TYPICAL HV-2 CONTROL POINTS				
TYPE	DESCRIPTION	UNITS	TREND	ALARM
DI	HV-2 SUPPLY FAN PRESSURE SWITCH	ON/OFF	X	X
AI	HV-2 SPACE TEMPERATURE	DEG	X	X
AI	HV-2 PREHEAT DISCHARGE AIR TEMPERATURE	DEG	X	X
AI	HV-2 OUTSIDE AIR TEMPERATURE	DEG	X	X
DI	HV-2 FILTER STATUS PRESSURE SWITCH	NORMAL/ALARM	X	X
AI	HV-2 SUPPLY AIR TEMPERATURE	DEG	X	X
DI	HV-2 FREEZE STAT LOW LIMIT SWITCH	ON/OFF		X
DO	HV-2 SUPPLY FAN S/S RELAY	ON/OFF		X
AO	HV-2 PREHEAT COIL VALVE #1	%OPEN	X	
AO	HV-2 PREHEAT COIL VALVE #2	%OPEN	X	
AO	HV-2 OUTSIDE AIR DAMPER	%OPEN	X	
AI	HV-2 FAN SPEED FEEDBACK	% SPEED	X	X
DI	HV-2 FAN COMMON ALARM	NORMAL/ALARM		X
AO	HV-2 FAN SPEED COMMAND	% SPEED	X	X

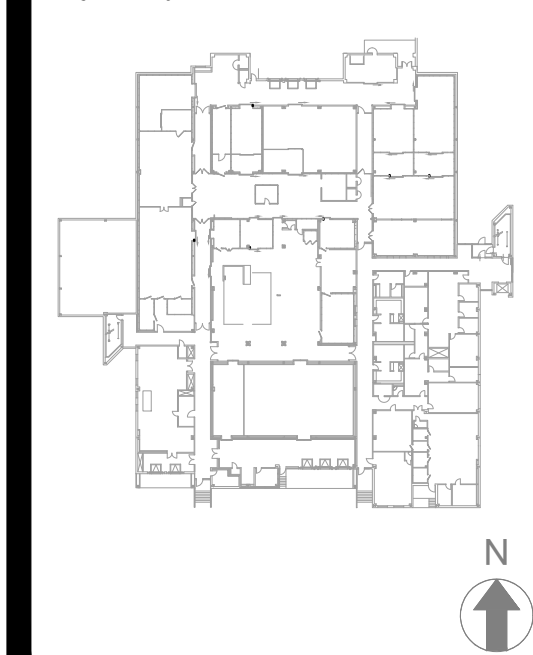
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Project Key



REVISIONS

Rev No	Description	Date
1	ADDENDUM #1	03/25/2022
2		
3		
4		
5		
6		
7		
8		
9		
10		

Client

NEW YORK STATE OF OPPORTUNITY
Office of Mental Health
44 HOLLAND AVENUE
ALBANY, NY 12229

Project Title

BMS REPLACEMENT
COOK CHILL PRODUCTION CENTER
145 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Drawing Title

CONTROL DIAGRAMS
PAGE 2 OF 4

Phase

BID DOCUMENTS

Drawn By: Checked By: Date: 10/15/2021

Seal & Signature

DASNY Project No: 360880
Drawing Number



M-301
Drawing 20 of 30