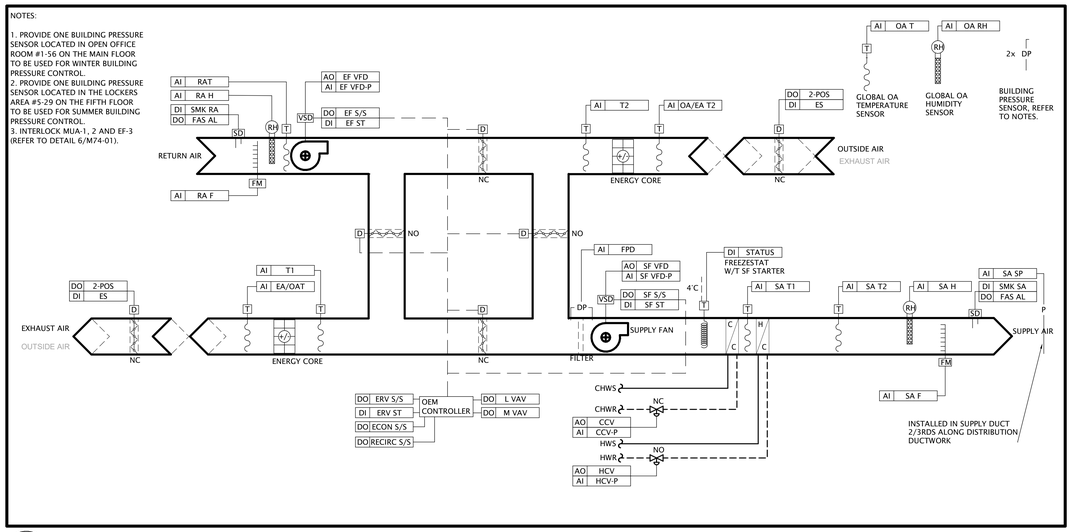
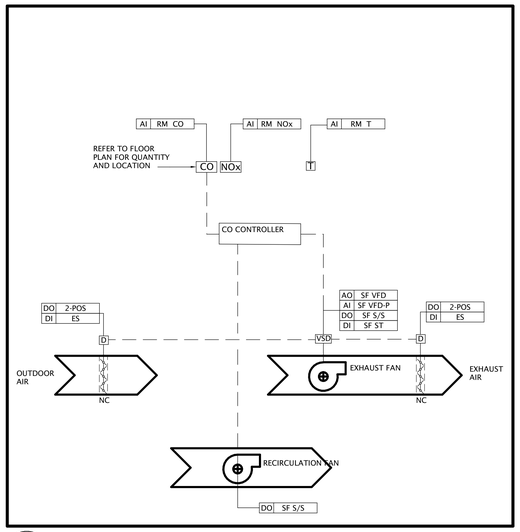
NOTES:

1. PROVIDE ONE BUILDING PRESSURE SENSOR LOCATED IN OPEN OFFICE ROOM #1-56 ON THE MAIN FLOOR TO BE USED FOR WINTER BUILDING PRESSURE CONTROL.
2. PROVIDE ONE BUILDING PRESSURE SENSOR LOCATED IN THE LOCKERS AREA #5-29 ON THE FIFTH FLOOR TO BE USED FOR SUMMER BUILDING PRESSURE CONTROL.
3. INTERLOCK MUA-1, 2 AND EF-3 (REFER TO DETAIL 6/M74-01).



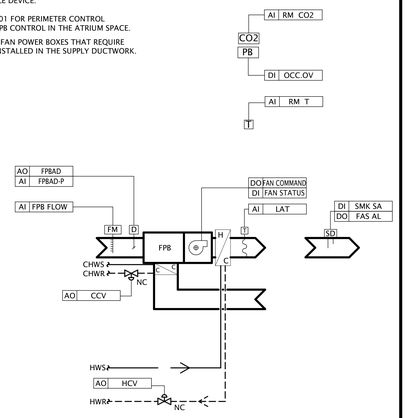
1 MAU CONTROLS SCHEMATIC
M74-01 N.T.S.



2 PARKING GARAGE VENTILATION SCHEMATIC
M74-01 N.T.S.

NOTE:

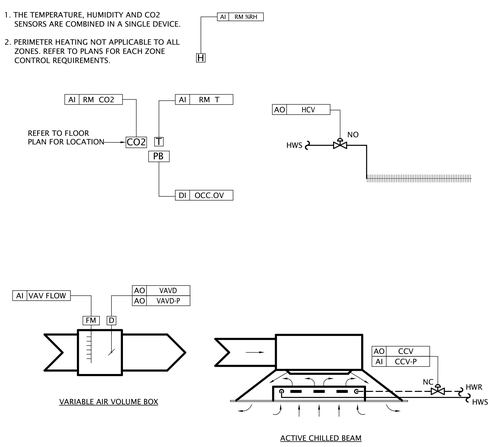
1. THE TEMPERATURE AND CO2 SENSORS ARE COMBINED IN A SINGLE DEVICE.
2. REFER TO DWG. M53-01 FOR PERIMETER CONTROL INTEGRATION WITH FPB CONTROL IN THE ATRIUM SPACE.
2. REFER TO PLANS FOR FAN POWER BOXES THAT REQUIRE SMOKE DETECTORS INSTALLED IN THE SUPPLY DUCTWORK.



3 FAN POWERED BOX CONTROLS SCHEMATIC
M74-01 N.T.S.

NOTE:

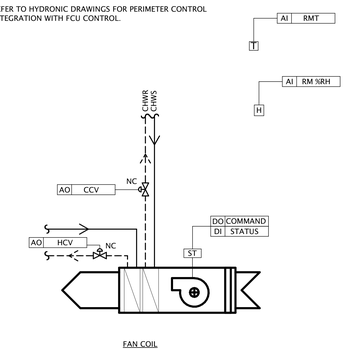
1. THE TEMPERATURE, HUMIDITY AND CO2 SENSORS ARE COMBINED IN A SINGLE DEVICE.
2. PERIMETER HEATING NOT APPLICABLE TO ALL ZONES. REFER TO PLANS FOR EACH ZONE CONTROL REQUIREMENTS.



4 DEMAND CONTROL VENTILATION VAV WITH ACTIVE CHILLED BEAMS
M74-01 N.T.S.

NOTE:

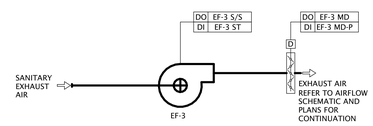
1. THE TEMPERATURE AND HUMIDITY SENSORS ARE PART OF A COMBINED DEVICE.
2. HEATING COILS ARE NOT SPECIFIED ON ALL FAN COIL UNITS. REFER TO SCHEDULES FOR EACH FAN COIL UNIT SPECIFICATION.
3. REFER TO HYDRONIC DRAWINGS FOR PERIMETER CONTROL INTEGRATION WITH FCU CONTROL.



5 FCU CONTROLS SCHEMATIC
M74-01 N.T.S.

NOTE:

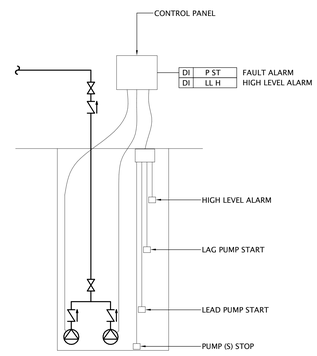
1. INTERLOCK EF-3 WITH MAU-1,2.



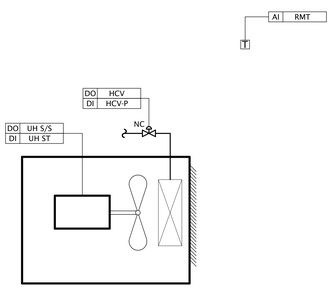
6 EF-3 CONTROLS SCHEMATIC
M74-01 N.T.S.

NOTE:

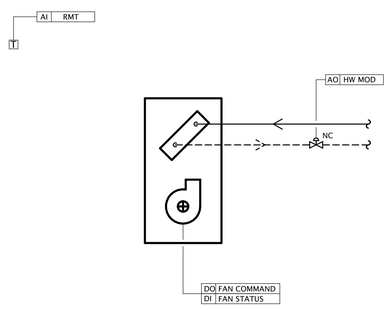
1. PROVIDE WATER DETECTOR IN THE ELEVATOR PIT AND CONNECT TO EMCS.



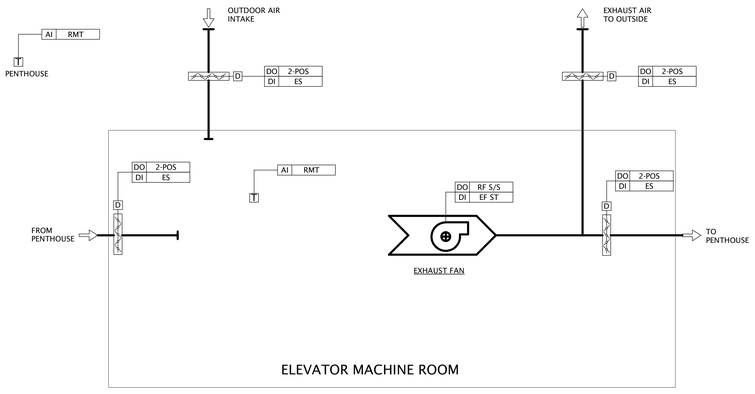
7 SANITARY, STORM AND ELEVATOR SUMP PUMPS
M74-01 N.T.S.



8 HYDRONIC UNIT HEATER CONTROL SCHEMATIC
M74-01 N.T.S.



9 FORCED FLOW HEATER
M74-01 N.T.S.



NOTES:

1. SCHEMATIC APPLICABLE FOR ELEVATOR MACHINE ROOMS IN THE PENTHOUSE.
2. THE ELEVATOR MACHINE ROOM IN THE BASEMENT RECIRCULATES AIR IN THE PARKING GARAGE, IT DOES NOT HAVE PROVISIONS FOR OUTSIDE AIR.

10 ELEVATOR MACHINE ROOM VENTILATION
M74-01 N.T.S.

LEGEND:

T	SENSOR - TEMPERATURE	PB	PUSH BUTTON
	CONTROL VALVE 2-WAY	CO2	CO2 SENSOR
VSD	VARIABLE SPEED DRIVE	CO	CO SENSOR
D	MOTORIZED DAMPER		
FM	FLOW METER		

DI-BINARY INPUT
DO-BINARY OUTPUT
AI-ANALOG INPUT
AO-ANALOG OUTPUT

RM - ROOM
T - TEMPERATURE
H - HUMIDITY
SA - SUPPLY AIR
F - FLOW
HW - HEATING WATER
CH - CHILLED WATER
MOD - MODULATING
2-POS - TWO POSITION (OPEN/CLOSE)
OCC.OV. - OCCUPANCY OVERRIDE
RA - RETURN AIR
EA - EXHAUST AIR
PD - PRESSURE DIFFERENTIAL
OA - OUTDOOR AIR
ECON - FREE COOLING MODE
RECIRC - RECIRCULATION MODE
L VAV - LOW VOLUME FAN RANGE
M VAV - MEDIUM VOLUME FAN RANGE

ES - END SWITCH
LLH - HIGH LEVEL ALARM
VFD-P - VFP POSITION
HTG - HEATING
S/S - START/STOP
ST - STATUS
SMK - SMOKE DETECTED
FAS AL - ALARM TO FAS

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key plan

project and true North

project legend

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2022
P.N. Frasie
No. 2553
DATE: 27 MAY, 2022
LICENSED PROFESSIONAL ENGINEER PROVINCE OF PRINCE EDWARD ISLAND

Paul Frasie
Digitally signed by Paul Frasie
DN: cn=Paul Frasie, c=CA, o=norr.com, ou=NORR Architects & Engineers Limited, CN=Paul Frasie
Date: 2022.06.01 12:54:46-04'00'

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drawing / dessin
CONTROLS SCHEMATIC

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PWGSC Project Manager Administrateur de projets TPSGC
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