AIRPORT TERMINAL BUILDING

CONCRETE WALKWAY

AI BLHWST — T

HWS → TO BUILDING

HWR → FROM BUILDING

P-2A
BACNET P2AE
BACNET P2AS
BACNET P2AP
AI BLHWRT — T

BOILER WATER MAKE UP ASSEMBLY

AV
P

P-2B
BACNET P2BE
BACNET P2BS
BACNET P2BP

DRAIN VALVE WITH HOSE CONNECTION

ET-1

P-2C
BACNET P2CE
BACNET P2CS
BACNET P2CP

BACNET P1DS
BACNET P1DCF

BACNET P1CS
BACNET P1CCF

BACNET P1BS
BACNET P1BCF

BACNET P1AS
BACNET P1ACF

CHEMICAL POT FEEDER

SIDE STREAM FILTER

AV
HS-1

T — AI PLHWST

HWS

HWR

LWCO — P
T

AI PLHWRT

HWS

P-1D   P-1C   P-1B   P-1A

LWCO — P
T

BACNET B2_ENA
BACNET B2_S
BACNET B2_SWT_SP
BACNET B2_SWT_SP_OV
BACNET B2_SWT_SP

(RELIEF TO DRAIN)

B-2

(RELIEF TO DRAIN)

B-1A
BACNET B1A_ENA
BACNET B1A_S
BACNET B1A_SWT_SP
BACNET B1A_SWT_SP_OV
BACNET B1A_SWT_SP

LWCO — P
T

FOR
FOS

NEW FILTER

HWR

T   T   T   T

(RELIEF TO DRAIN)

B-1B
BACNET B1B_ENA
BACNET B1B_S
BACNET B1B_SWT_SP
BACNET B1B_SWT_SP_OV
BACNET B1B_SWT_SP

HWR

LWCO — P
T

(RELIEF TO DRAIN)

B-1C
BACNET B1C_ENA
BACNET B1C_S
BACNET B1C_SWT_SP
BACNET B1C_SWT_SP_OV
BACNET B1C_SWT_SP

HWR

HEATING SYSTEM CONTROLS POINTS

POINT	DESIGNATION	TYPE	HARDWARE
B1A_ENA	BOILER B-1A ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1A_S	BOILER B-1A STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1A_SWT_SP	BOILER B-1A SUPPLY WATER SET TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1A_SWT_SP_OV	BOILER B-1A SUPPLY WATER SET TEMPERATURE OVERRIDE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1A_SWT	BOILER B-1A SUPPLY WATER TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1B_ENA	BOILER B-1B ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1B_S	BOILER B-1B STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1B_SWT_SP	BOILER B-1B SUPPLY WATER SET TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1B_SWT_SP_OV	BOILER B-1B SUPPLY WATER SET TEMPERATURE OVERRIDE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1B_SWT	BOILER B-1B SUPPLY WATER TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1C_ENA	BOILER B-1C ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1C_S	BOILER B-1C STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1C_SWT_SP	BOILER B-1C SUPPLY WATER SET TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B1C_SWT_SP_OV	BOILER B-1C SUPPLY WATER SET TEMPERATURE OVERRIDE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B1C_SWT	BOILER B-1C SUPPLY WATER TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B2_ENA	BOILER B-2 ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B2_S	BOILER B-2 STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B2_SWT_SP	BOILER B-2 SUPPLY WATER SET TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
B2_SWT_SP_OV	BOILER B-2 SUPPLY WATER SET TEMPERATURE OVERRIDE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
B2_SWT	BOILER B-2 SUPPLY WATER TEMPERATURE	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1AS	P-1A BOILER PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1BS	P-1B BOILER PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1CS	P-1C BOILER PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1DS	P-1C BOILER PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1ACF	P-1A BOILER PUMP CONSTANT FLOW/SPEED SETPOINT	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1BCF	P-1B BOILER PUMP CONSTANT FLOW/SPEED SETPOINT	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1CCF	P-1C BOILER PUMP CONSTANT FLOW/SPEED SETPOINT	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P1DCF	P-1D BOILER PUMP CONSTANT FLOW/SPEED SETPOINT	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P2AE	P-2A BUILDING PUMP ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
P2BE	P-2B BUILDING PUMP ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
P2CE	P-2C BUILDING PUMP ENABLE/DISABLE	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
P2AS	P-2A BUILDING PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P2BS	P-2B BUILDING PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P2CS	P-2C BUILDING PUMP STATUS	BACNET	INPUT TO EMCS FROM BACNET INTERFACE
P2AP	P-2A BUILDING PUMP CONSTANT PRESSURE SETPOINT	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
P2BP	P-2B BUILDING PUMP CONSTANT PRESSURE SETPOINT	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
P2CP	P-2C BUILDING PUMP CONSTANT PRESSURE SETPOINT	BACNET	OUTPUT FROM EMCS TO BACNET INTERFACE
PLHWST	PRIMARY LOOP HOT WATER SUPPLY TEMPERATURE	AI	TEMPERATURE SENSOR
PLHWRT	PRIMARY LOOP HOT WATER RETURN TEMPERATURE	AI	TEMPERATURE SENSOR
BLHWST	BUILDING LOOP HOT WATER SUPPLY TEMPERATURE	AI	TEMPERATURE SENSOR
BLHWRT	BUILDING LOOP HOT WATER RETURN TEMPERATURE	AI	TEMPERATURE SENSOR
OAT	OUTDOOR AMBIENT TEMPERATURE	AI	TEMPERATURE SENSOR

NOTES:
1. BOILERS TO COME WITH PACKAGED CONTROLS WITH BACNET INTERFACE. EMCS TO MONITOR/CONTROL ALL AVAILABLE POINTS.
2. PUMPS TO COME WITH PACKAGED SENSORLESS VFD CONTROLLER WITH BACNET INTERFACE. EMCS TO MONITOR/CONTROL ALL AVAILABLE POINTS.
3. REFER TO SEQUENCE OF OPERATIONS SPECIFICATIONS FOR ALARMS.
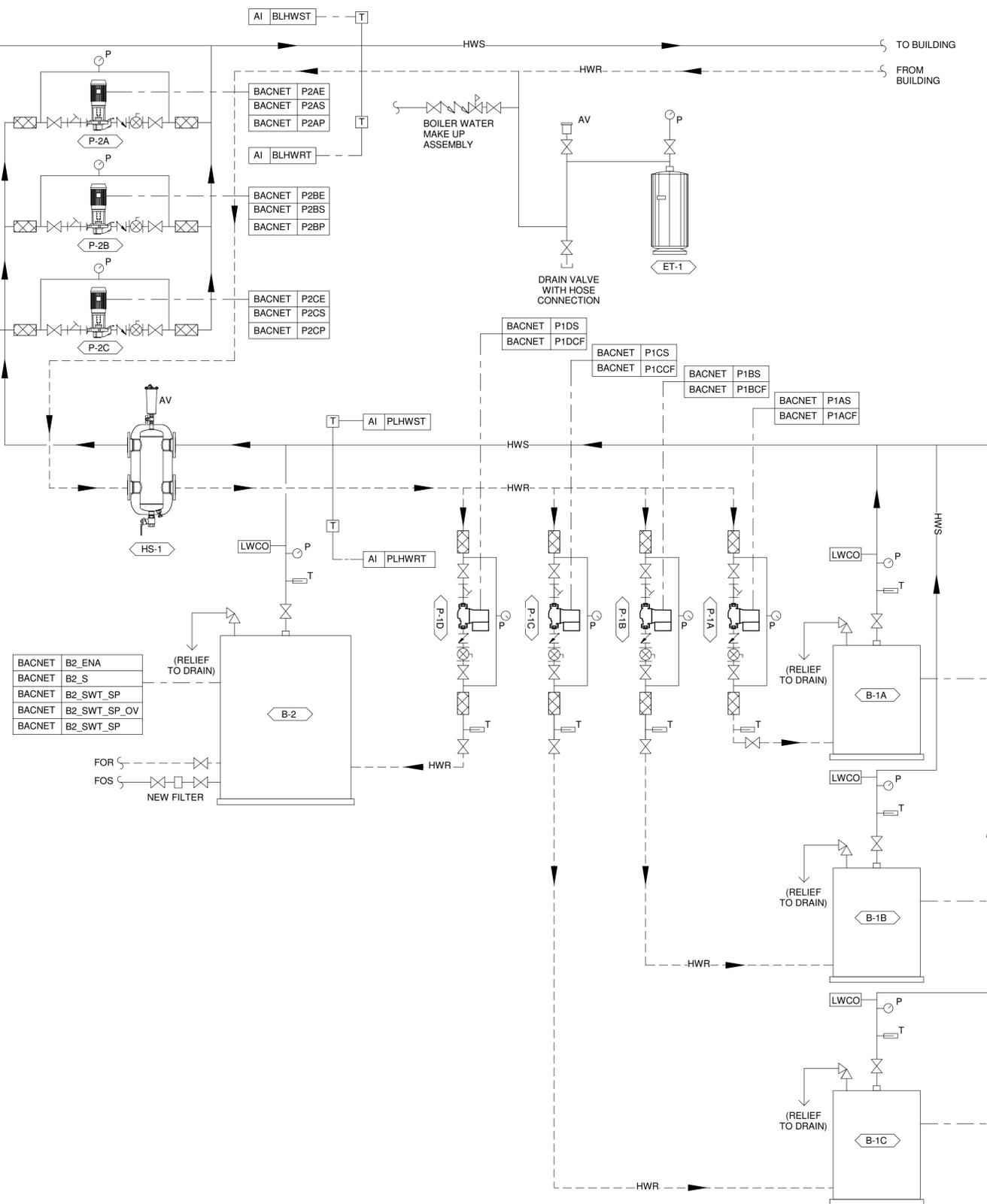
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M-6 CONTROLS SCHEMATIC
NTS

1	ISSUED FOR CONSTRUCTION	2022-05-17
revisions		date

project | projet
Wabush - ATB Boiler Upgrade

Wabush Airport Terminal Building (ATB)

drawing | dessin

CONTROLS SCHEMATIC

designed | conçu
DH

drawn | dessiné
IS

approved | approuvé
DH

Tender | Soumission

PSPC Project Manager | Administrateur de prjets TPSGC

project no. | no. du project
R111141.001

drawing no. | no. du dessin
M-6