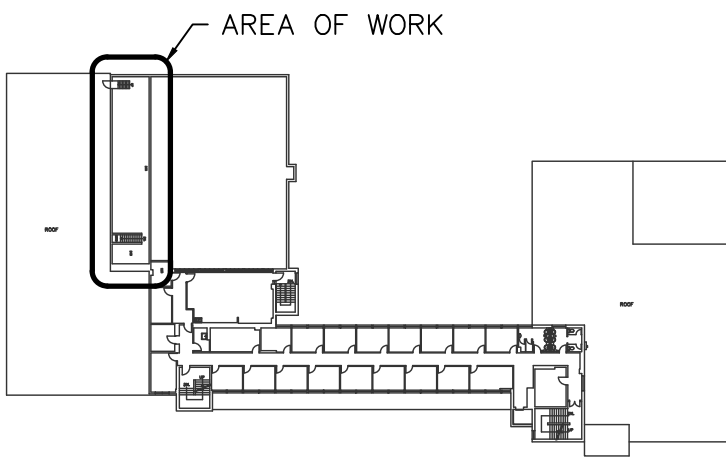


CAD OPERATOR: Mike Rowsell
CAD FILE: P:\Kingston Project\2000 - Building Services\2152710 - CSC Headquarters Boiler\Drawings\2152710-MECH-1C.dwg
PLOT SCALE: 1:?
DATE PLOTTED: 2014-12-10
2000-610-914

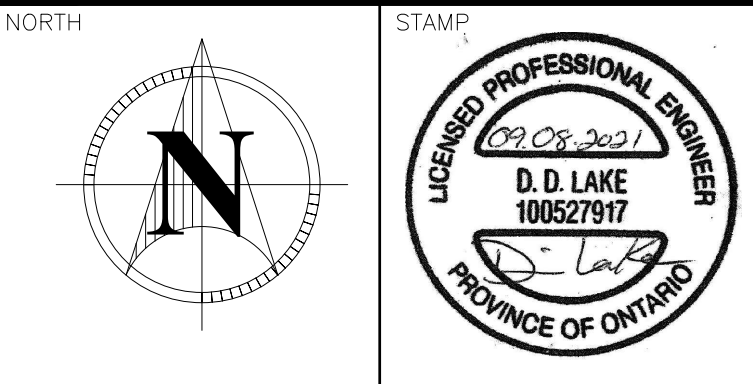
- NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES INCLUDING THE ONTARIO BUILDING CODE.
 2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

A A DETAIL NO.
B B DRAWING NO. - WHERE DETAILED



KEYPLAN

3	ISSUED FOR TENDER	08.09.2021
2	ISSUED FOR 99%	26.08.2021
1	ISSUED FOR 66%	20.07.2021
REVISION	DESCRIPTION	DD.MM.YYYY



PROJECT
Correctional Services
Of Canada
445 Union Street West
Kingston, Ont., K7L 2R8

Correctional Services Canada
Kingston, Ontario

DRAWING TITLE
Specifications
And Schedule

DESIGNED BY
D. Lake

DRAWN BY
M. Rowsell

REVIEWED BY
D. Lake

APPROVED BY
D. Lake

PROJECT DATE
JUNE 2021 (DD/MM/YYYY)

PROJECT #
2152710
DRAWING SCALE
As Shown

DRAWING #
400

BOILER SCHEDULE

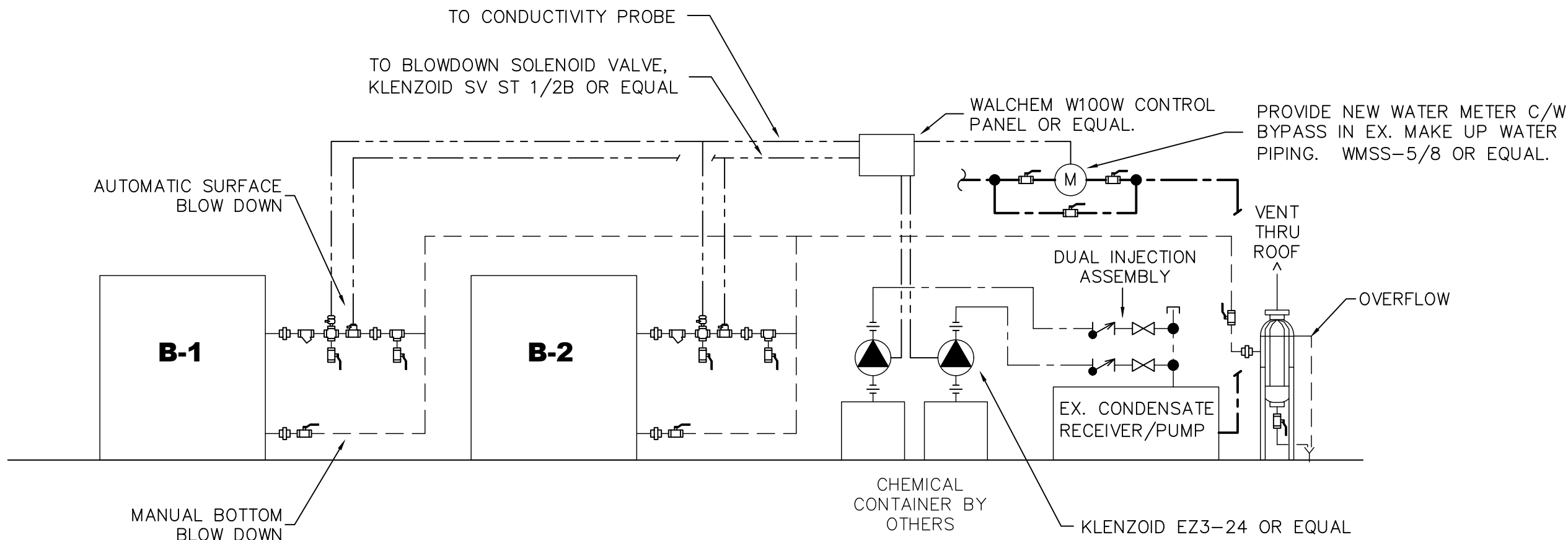
TAG	MAKE	MODEL	OPERATING PRESSURE KPA (PSI)	INPUT KW (MBH)	OUTPUT KW (MBH)	THERMAL EFFICIENCY	VOLTAGE	MCA	HP	NAT. GAS MIN P KPA (IN.WC)	NAT. GAS MAX P KPA (IN.WC)	WEIGHT KG (LBS)
B-1	WEIL-MCLAIN	480	89.6 (13)	144 (491)	116 (396)	82	120/1/60	15	1/3	1.4 (5.8)	3.5 (14)	640 (1411)
B-2	WEIL-MCLAIN	480	89.6 (13)	144 (491)	116 (396)	82	120/1/60	15	1/3	1.4 (5.8)	3.5 (14)	640 (1411)

- NOTES:
- ALTERNATIVE MANUFACTURERS WILL BE CONSIDERED.
 - PROVIDE A FIELD ASSEMBLED 15 PSI STEAM BOILER WITH LOW-HIGH-LOW OPERATION NATURAL GAS BURNER, BACNET COMPATIBLE CONTROLS, PRIMARY AND SECONDARY LWCO, FLOAT OR PROBE TYPE WITH MANUAL RESET, AND LOUVRE INTERLOCK.
 - PROVIDE MANUFACTURER START-UP SERVICE.

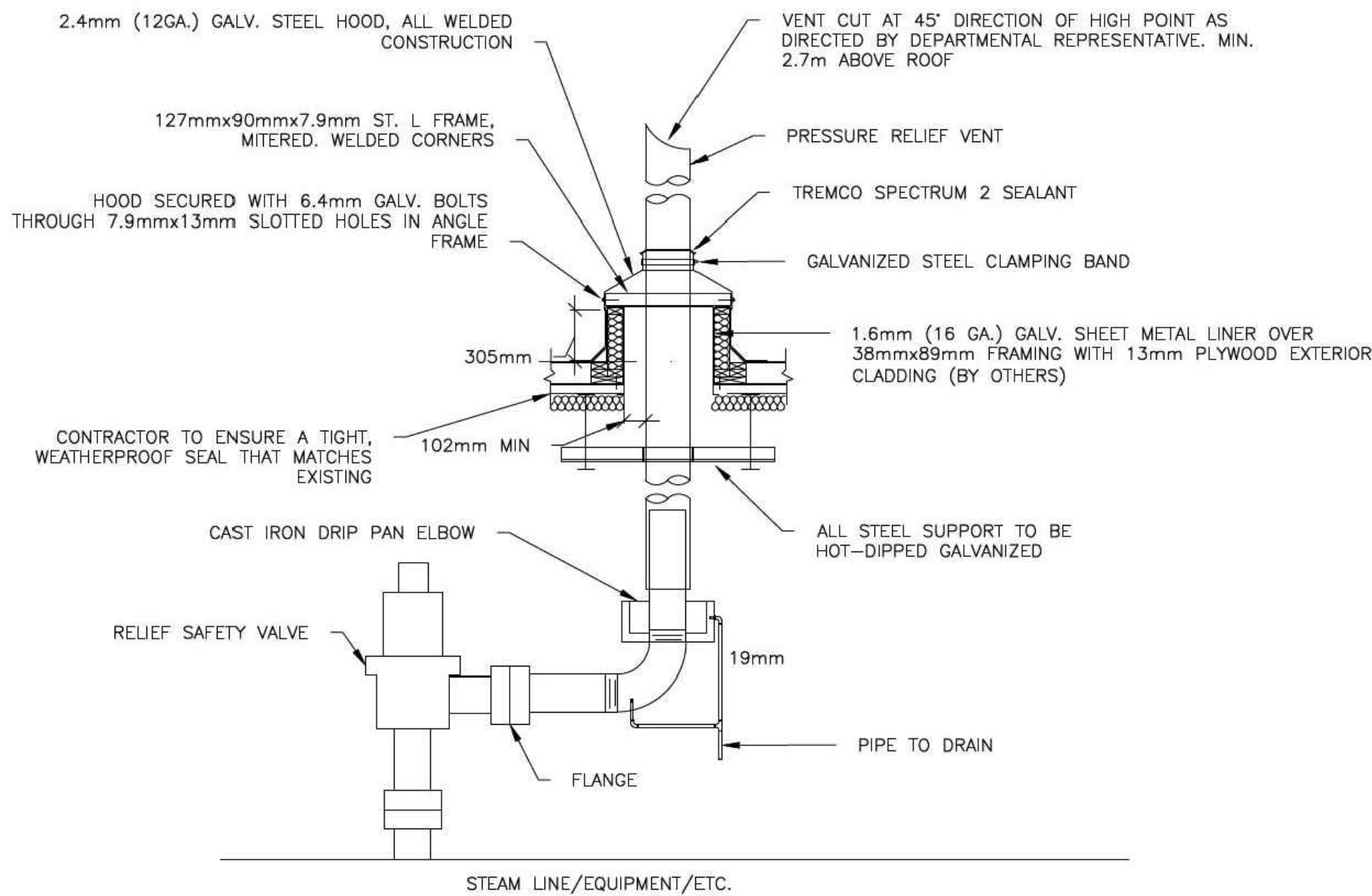
STEAM COIL SCHEDULE

TAG	SERVES	AIR				STEAM	
		FLOW L/S (CFM)	OUTSIDE AIR L/S (CFM)	EAT °C	LAT °C	CAPACITY KW (MBH)	PRESSURE KPA (PSI)
SC-1	AC-1	2184 (4628)	677 (1435)	5.0	26.7	57.3 (196)	89.6 (13)
SC-2	AC-2	1888 (4000)	580 (1230)	5.0	26.7	49.5 (169)	89.6 (13)
SC-3	SA-1	963 (3500)	511 (1083)	5.0	26.7	43.3 (148)	89.6 (13)

- NOTES:
- CONTRACTOR TO CONFIRM OA DAMPER POSITION AND FLOW RATE AND REPORT TO CONSULTANT. CONSULTANT TO ADVISE OF ANY REQUIRED ADJUSTMENT.
 - CONTROLS CONTRACTOR TO PROVIDE A FREEZE STAT TO PROTECT THE COILS.



1
400
BLOWDOWN SYSTEM SCHEMATIC
SCALE: 1:40



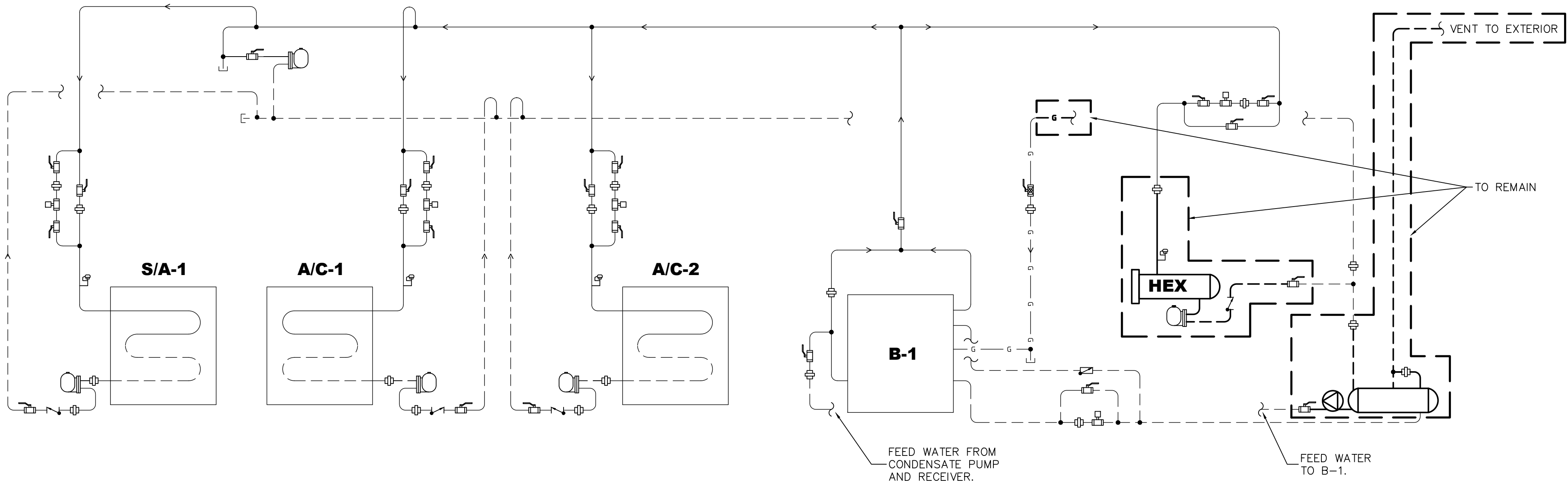
2
400
VENT / RELIEF DETAIL
SCALE: 1:40

CAD OPERATOR: Mike Rowsell

CAD FILE: P:\Kingston Project\2000 - Building Services\2152710 - CSC Headquarters Boiler\Drawings\2152710-MECH-1C.dwg

PLOT SCALE: 1:?

2020-01-01 14:00 DATE PLOTTED: 2014-12-10



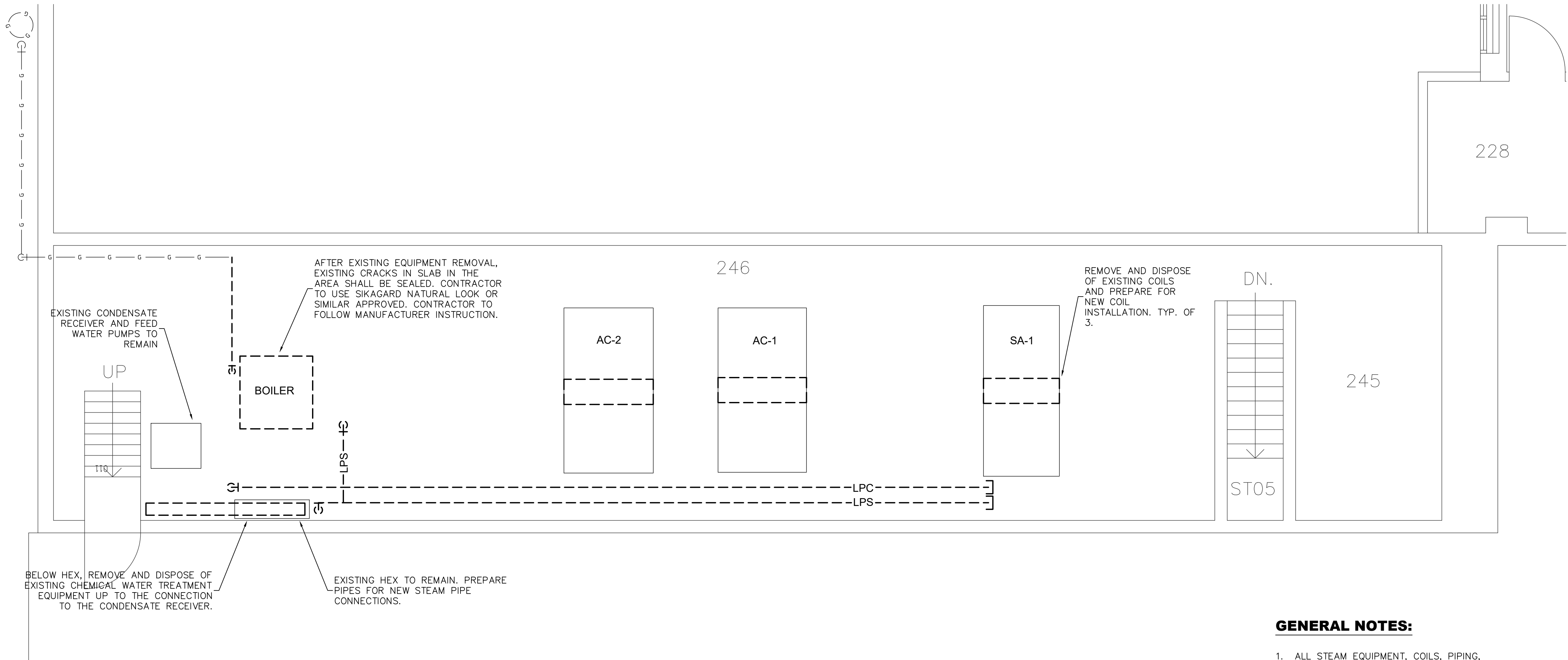
PIPING SCHEMATIC (DEMO)
SCALE: N.T.S.

LEGEND:

- Y-STRAINER
- BALL VALVE
- ISOLATION VALVE
- MOTORIZED CONTROL VALVE
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- VACUUM BREAKER
- UNION
- SWING CHECK VALVE
- F&T STEAM TRAP
- GATE VALVE
- SPRING LOADED CHECK VALVE
- CIRCUIT BALANCING VALVE
- F&T STEAM TRAP, PLAN VIEW

GENERAL NOTES:

- ALL STEAM EQUIPMENT, COILS, PIPING, VALVES AND ASSOCIATED TRIM TO BE REMOVED UNLESS OTHERWISE INDICATED.



PARTIAL FLOOR PLAN - MECHANICAL ROOM (DEMO)
SCALE: 1:40

GENERAL NOTES:

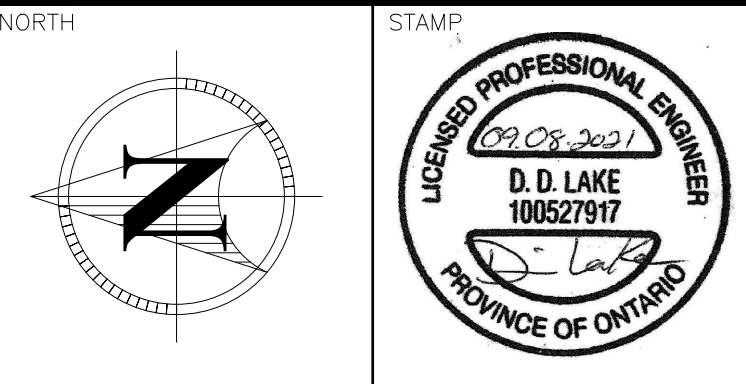
- ALL STEAM EQUIPMENT, COILS, PIPING, VALVES AND ASSOCIATED TRIM TO BE REMOVED UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO MEASURE AND RECORD HEIGHT AND LOCATION OF EXISTING PIPING PRIOR TO REMOVAL. THE NEW PIPING WILL FOLLOW THE SAME ROUTE AND HEIGHT.

NOTES:

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Correctional Services
Of Canada
445 Union Street West
Kingston, Ont., K7L 2R8

Correctional Services Canada
Kingston, Ontario

DRAWING TITLE
Mechanical
Boiler Replacement
Demo

DESIGNED BY
D. Lake

DRAWN BY
M. Rowsell

REVIEWED BY
D. Lake

APPROVED BY
D. Lake

PROJECT DATE
JUNE 2021 (DD/MM/YYYY)

PROJECT #
2152710

DRAWING SCALE
As Shown

DRAWING #
401

