GENERAL NOTES:
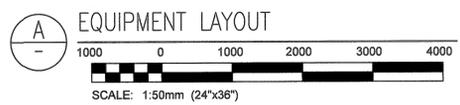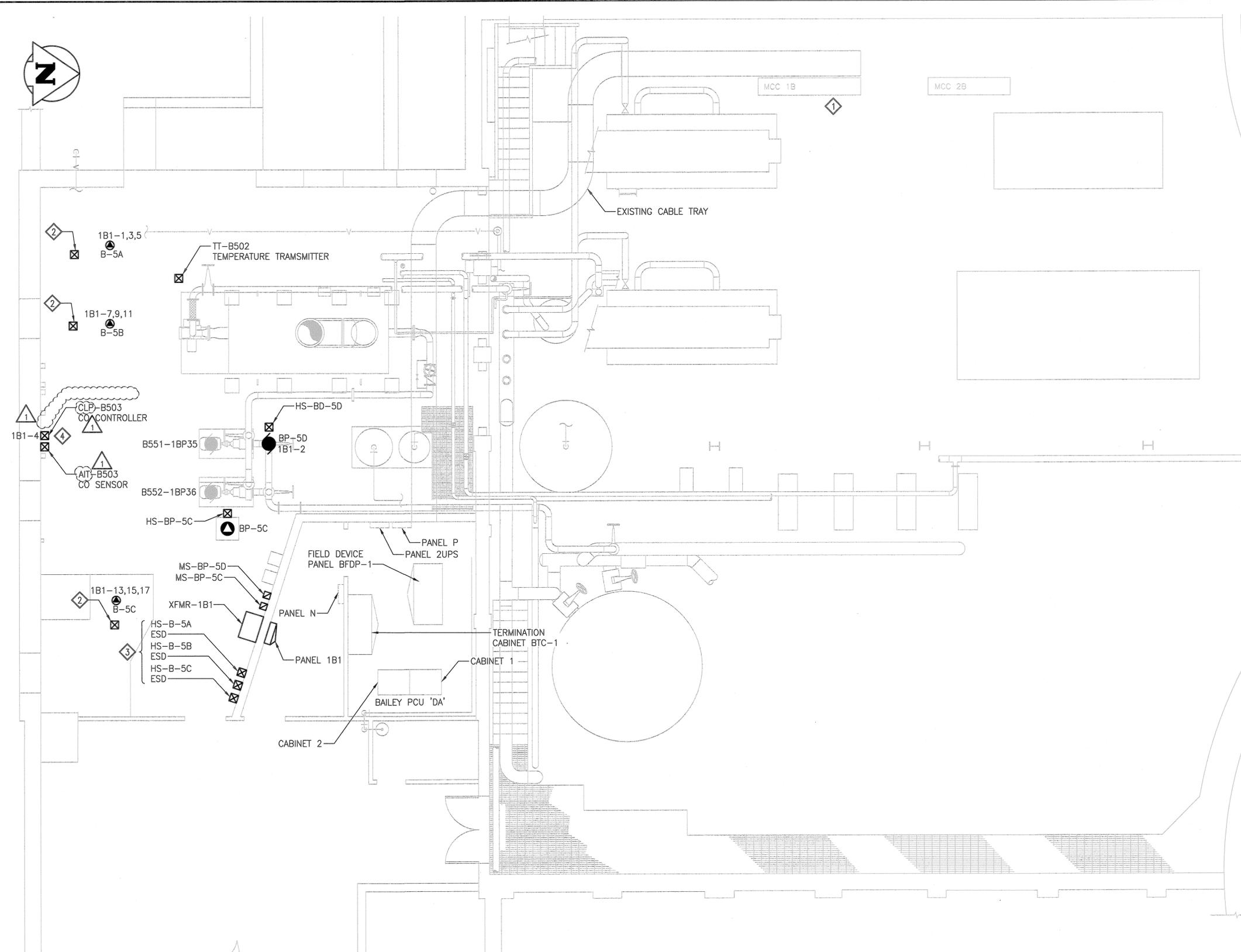
1. GREY LINEWEIGHT DENOTES EXISTING, BOLD DENOTES NEW.

KEYNOTES:

1. INSTALL NEW CIRCUIT BREAKERS IN EXISTING MCC. REFER TO DRAWING REFERENCE 1 FOR DETAILS.

2. APPROXIMATE LOCATION OF LOW WATER CUT-OUT (LWCO) SWITCH. WIRE AND CONNECT TO BOILER CONTROL CIRCUIT. THE LWCO SHALL BE WIRED IN SERIES WITH THE BOILER FLOW SWITCH 24VAC BURNER CONTROL CIRCUIT. WIRE AND CONNECT 120VAC LWCO SUPPLY VOLTAGE TO BOILER 120V TERMINALS. ALL FIELD DEVICES AND WIRING CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH BOILER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. PROVIDE RED TOGGLE SHUTDOWN SWITCH FOR BOILER. WIRE AND CONNECT TO BOILER SHUTDOWN CONTROL CIRCUIT. ALL WIRING CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH BOILER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

4. CARBON MONOXIDE DETECTION CONTROLLER AND CO SENSOR SHALL BE MOUNTED 1524mm ABOVE FINISHED FLOOR.

LEGEND:

	SURFACE MOUNTED PANELBOARD
⊠	FIELD DEVICE
⬚	MOTOR STARTER
⬤	MOTOR
⬥	EQUIPMENT LOAD
⬢	SPECIAL POWER OUTLET

EXISTING CABLE TRAY

MCC 1B

MCC 2B

1B1-1,3,5
B-5A

TT-B502
TEMPERATURE TRAMSMITTER

1B1-7,9,11
B-5B

CLP-B503
CO CONTROLLER

1B1-4
AIT-B503
CO SENSOR

HS-BD-5D

B551-1BP35
BP-5D
1B1-2

B552-1BP36

HS-BP-5C
BP-5C

PANEL P
PANEL 2UPS

FIELD DEVICE
PANEL BFDP-1

MS-BP-5D
MS-BP-5C

XFMR-1B1
PANEL N

1B1-13,15,17
B-5C

HS-B-5A
ESD
HS-B-5B
ESD
HS-B-5C
ESD

PANEL 1B1

TERMINATION
CABINET BTC-1

CABINET 1

BAILEY PCU 'DA'

CABINET 2

A EQUIPMENT LAYOUT

1000 0 1000 2000 3000 4000

SCALE: 1:50mm (24"x36")

ENGINEER'S SEAL

PROVINCE OF MANITOBA
R.T. BECK
Member 39841
REGISTERED PROFESSIONAL ENGINEER
2023-10-18

KGS GROUP

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
INTERIM BACKUP BOILER SYSTEM
AREA B - BOILER ROOM

ELECTRICAL
EQUIPMENT LAYOUT

Winnipeg

| DESIGNED BY | TB | CHECKED BY | DDW |
| DRAWN BY | DIS | APPROVED BY | TB |

SCALE: AS SHOWN

DATE 2023 09 11

CONSULTANT DRAWING NUMBER
23-0107-010_E1.01

CITY DRAWING NUMBER —

SHEET 1 OF 1

B.M.
ELEV.
CONSTRUCTION COMPLETION DATE: YYYY MM DD

| | RELEASED FOR CONSTRUCTION |
| DATE | |

RE-ISSUED FOR CONSTRUCTION 2023 10 18 TB
ISSUED FOR CONSTRUCTION 2023 10 05 TB

TEMPORARY

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	–	–
9	–	–
8	–	–
7	–	–
6	–	–
5	–	–
4	–	–
3	–	–
2	–	–
1	23-0107-010_E0.02	AREA B – BOILER ROOM SINGLE LINE DIAGRAM ELECTRICAL DISTRIBUTION

REFERENCE DRAWINGS

NO.	REVISIONS	DATE	BY
1	RE-ISSUED FOR CONSTRUCTION	2023 10 18	TB
0	ISSUED FOR CONSTRUCTION	2023 10 05	TB

PLOT DATE: 2023 10 18

BID OPPORTUNITY: 792-2023
CONTRACT NUMBER:

FILE PATH: R:\Projects\2023\23-0107-010\Dwg\Elec\
FILE NAME: 23-0107-010_E1.01.dwg