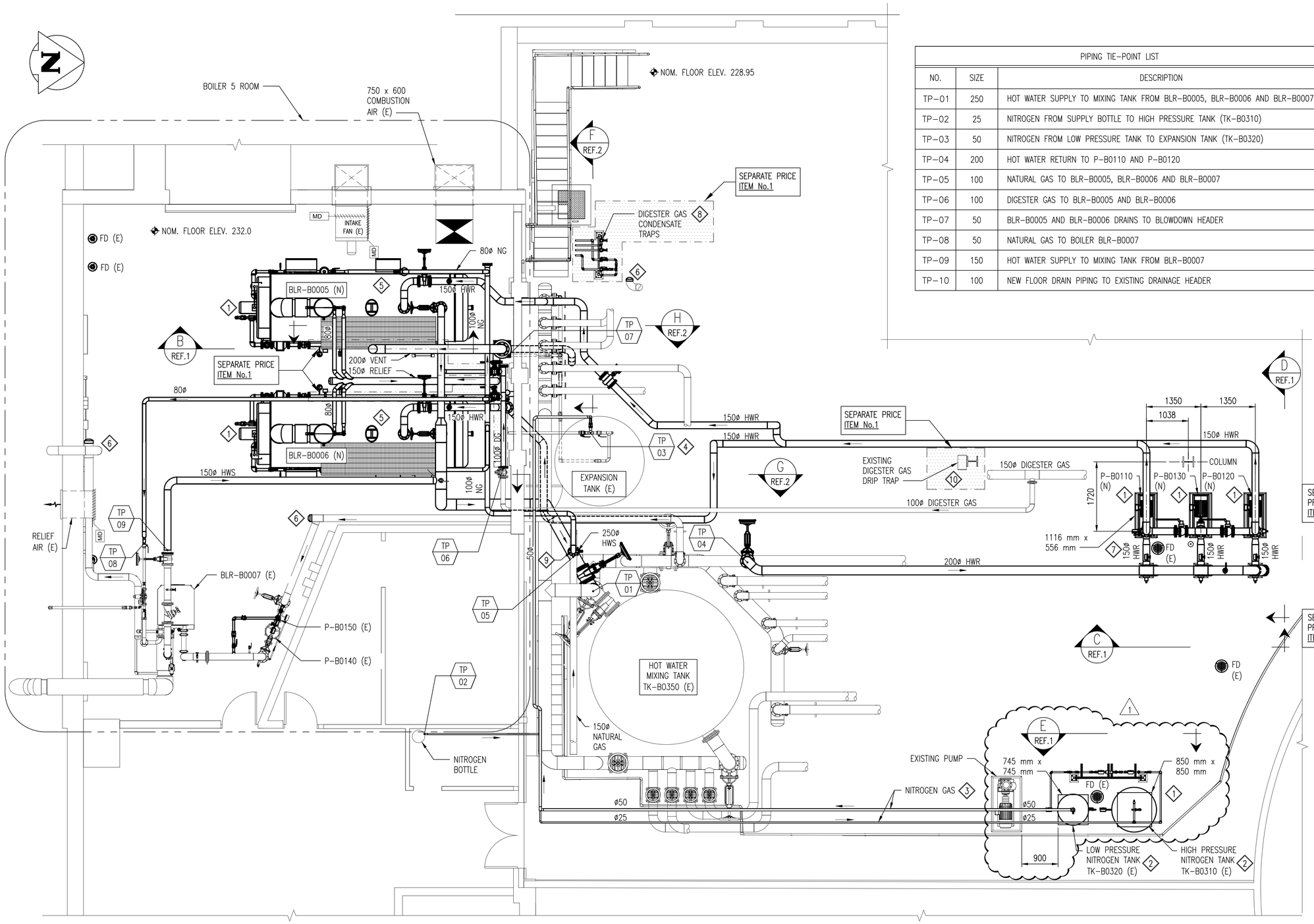
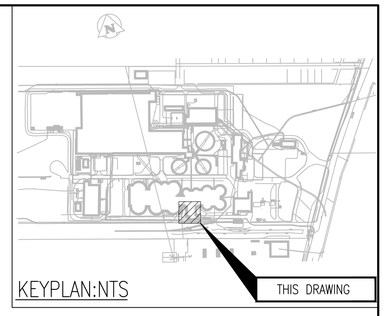


A – PLAN – MAIN BOILER ROOM

1000 0 1000 2000 3000 4000

SCALE: 1:50mm

PIPING TIE-POINT LIST		
NO.	SIZE	DESCRIPTION
TP-01	250	HOT WATER SUPPLY TO MIXING TANK FROM BLR-B0005, BLR-B0006 AND BLR-B0007
TP-02	25	NITROGEN FROM SUPPLY BOTTLE TO HIGH PRESSURE TANK (TK-B0310)
TP-03	50	NITROGEN FROM LOW PRESSURE TANK TO EXPANSION TANK (TK-B0320)
TP-04	200	HOT WATER RETURN TO P-B0110 AND P-B0120
TP-05	100	NATURAL GAS TO BLR-B0005, BLR-B0006 AND BLR-B0007
TP-06	100	DIGESTER GAS TO BLR-B0005 AND BLR-B0006
TP-07	50	BLR-B0005 AND BLR-B0006 DRAINS TO BLOWDOWN HEADER
TP-08	50	NATURAL GAS TO BOILER BLR-B0007
TP-09	150	HOT WATER SUPPLY TO MIXING TANK FROM BLR-B0007
TP-10	100	NEW FLOOR DRAIN PIPING TO EXISTING DRAINAGE HEADER



GENERAL NOTES:

1. REFER TO GENERAL NOTES ON DRAWING 1-0101-MAAA-B002-001.

KEYNOTES:

1. INSTALL NEW HOUSEKEEPING PADS. DO NOT COVER EXISTING FLOOR DRAINS. REFER TO STRUCTURAL DRAWING 1-0101-SDTL-B003-001 FOR HOUSEKEEPING PAD DETAIL (TYP).
2. RELOCATE HIGH PRESSURE AND LOW PRESSURE NITROGEN TANKS TO NEW LOCATION IN MAIN BOILER ROOM. CONFIRM LOCATION WITH CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
3. INSTALL NEW NITROGEN GAS PIPING OVERHEAD FOR RELOCATED NITROGEN TANKS.
4. TIE-IN NEW NITROGEN PIPING TO EXISTING SYSTEM. PROVIDE NEW ISOLATION VALVE AT TIE-IN POINT.
5. INSTALL NEW BOILERS AND ASSOCIATED HWS, HWR, DRAIN, RELIEF AND GAS PIPING.
6. INSTALL NEW CAP ON END OF EXISTING PIPING.
7. INSTALL NEW BOILER CIRCULATION PUMPS AND ASSOCIATED HWR PIPING.
8. INSTALL DIGESTER GAS CONDENSATE TRAPS IN MAIN BOILER ROOM. INSTALL VENT PIPING FROM HIGH PRESSURE CONDENSATE TRAPS TO OUTDOORS.
9. INSTALL NEW 150x100 WELDOLET AND VALVE FOR TIE-IN TO EXISTING NATURAL GAS SYSTEM. COORDINATE NATURAL GAS SYSTEM SHUTDOWN WITH CONTRACT ADMINISTRATOR. (WORK TO BE COMPLETED IN 2025 AND TEMPORARILY TIED INTO EXISTING 80ø LINE TO KEEP BOILERS B-5A, B, AND C OPERATIONAL GAS SHUTDOWN TO BE LIMITED TO 8 HOURS OR LESS.)
10. DEMOLISH AND REMOVE EXISTING DIGESTER GAS DRIP TRAP AND ASSOCIATED PIPING, CONNECTED TO DIGESTER GAS SYSTEM. INSTALL NEW HIGH PRESSURE DIGESTER GAS DRIP TRAP. PROVIDE SHUT-OFF VALVE AND VENT OUTLET. FIELD ROUTE VENT TO ATMOSPHERE. CONFIRM ROUTING WITH CONTRACT ADMINISTRATOR.

LEGEND:

NEW EQUIPMENT/PIPING

EXISTING EQUIPMENT/PIPING

1 FD FLOOR DRAIN

(NOTE: REFER TO DRAWING 1-0101-MAAA-B002-001 FOR ADDTIONAL LEGENDS)

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	–	–
9	–	–
8	–	–
7	–	–
6	–	–
5	–	–
4	–	–
3	–	–
2	1-0101-MGAD-B025-001	MECHANICAL – SECTIONS AND DETAILS
1	1-0101-MGAD-B024-001	MECHANICAL – SECTIONS AND DETAILS

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
1	RE-ISSUED FOR CONSTRUCTION	2025 04 15	
0	ISSUED FOR CONSTRUCTION	2025 03 24	JS

KGS GROUP

DESIGNED BY	JS	CHECKED BY	AJF
DRAWN BY	RP	APPROVED BY	JS
SCALE:	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE	2024 08 16	DATE	

PLOT DATE: 2025 04 15

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.V. SMITH
2025-04-15
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
23-0107-010_PB_M2-02

BID OPPORTUNITY: 277-2025
CONTRACT NUMBER:

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
NEWPCC BOILER REPLACEMENT 2025-2026
AREA B – BOILER ROOM

MECHANICAL
MAIN BOILER ROOM – PIPING

CITY DRAWING NUMBER 1-0101-MGAD-B013-001

SHEET 1 OF 1

FILE PATH: R:\Projects\2023\23-0107-010\Dwg\Mech\
FILE NAME: 1-0101-MGAD-B013-001.dwg