CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-D0001-001	D01	COVER SHEET	0
1-0162L-D0002-001	D02	DRAWING INDEX	0
1-0162L-D0003-001	D03	SITE PLAN	0

AUTOMATION DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-A0001-001	A01.01	AUTOMATION PLAN LAYOUT – MAIN FLOOR	0
1-0162L-A0002-001	A02.01	AUTOMATION PLAN LAYOUT – MOTOR ROOM	0
1-0162L-A0003-001	A03.01	AUTOMATION PLAN LAYOUT – PUMP ROOM	0
1-0162L-A0004-001	A04.01	AUTOMATION PANEL LAYOUT & BILL OF MATERIALS PLC CONTROL PANEL CP-L81	0
1-0162L-A0004-002	A04.02	AUTOMATION PANEL LAYOUT & BILL OF MATERIALS PLC CONTROL PANEL CP-L81	0
1-0162L-A0005-001	A05.01	AUTOMATION NETWORK BLOCK DIAGRAM PLC CONTROL PANEL CP-L81	0
1-0162L-A0006-001	A06.01	AUTOMATION POWER DISTRIBUTION SCHEMATIC PLC CONTROL PANEL CP-L81	0
1-0162L-A0006-002	A06.02	AUTOMATION POWER DISTRIBUTION SCHEMATIC PLC CONTROL PANEL CP-L81	0
1-0162L-A0007-001	A07.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 DISCRETE INPUT RACK 0, MODULE 4	0
1-0162L-A0008-001	A08.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 DISCRETE INPUT RACK 0, MODULE 5	0
1-0162L-A0009-001	A09.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 DISCRETE INPUT RACK 0, MODULE 6	0
1-0162L-A0010-001	A10.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 DISCRETE OUTPUT RACK 0, MODULE 7	0
1-0162L-A0011-001	A11.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG INPUT RACK 0, MODULE 8	0
1-0162L-A0012-001	A12.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG INPUT RACK 0, MODULE 9	0
1-0162L-A0013-001	A13.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG INPUT RACK 0, MODULE 10	0
1-0162L-A0014-001	A14.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG INPUT RACK 0, MODULE 11	0
1-0162L-A0015-001	A15.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG INPUT RACK 1, MODULE 0	0
1-0162L-A0016-001	A16.01	PLC I/O WIRING DIAGRAM PLC CONTROL PANEL CP-L81 ANALOG OUTPUT RACK 1, MODULE 1	0
1-0162L-A0017-001	A17.01	CONTROL SCHEMATIC PLC CONTROL PANEL CP-L81 PLC MODE & LOCAL MODE PUMP CONTROLS	0
1-0162L-A0018-001	A18.01	AUTOMATION PANEL LAYOUT & BILL OF MATERIALS HVAC VENTILATION PANEL JBA-L83	0
1-0162L-A0019-001	A19.01	AUTOMATION POWER DISTRIBUTION SCHEMATIC HVAC VENTILATION PANEL JBA-L83	0
1-0162L-A0020-001	A20.01	AUTOMATION PANEL LAYOUT & BILL OF MATERIAL INTRINSICALLY SAFE JUNCTION BOX JBA-L82	0
1-0162L-A0021-001	A21.01	LOOP DIAGRAM TVSS ALARM XS-L711	0
1-0162L-A0022-001	A22.01	LOOP DIAGRAM MCC-L71 600 VOLT POWER STATUS ESL-L712	0
1-0162L-A0023-001	A23.01	LOOP DIAGRAM MAIN FLOOR HVAC FILTER & AIR FLOW SWITCHES PDSH-L660, FSL-L643 & FSL-L652	0
1-0162L-A0024-001	A24.01	LOOP DIAGRAM PUMP P-L01, P-L02 & P-L03 MOTOR HIGH TEMPERATURE SWITCHES TSH-L011, TSH-L021 & TSH-L031	0
1-0162L-A0025-001	A25.01	LOOP DIAGRAM STATION TEMPERATURE TRANSMITTERS TT-L691 & TT-L692	0
1-0162L-A0025-002	A25.02	LOOP DIAGRAM STATION TEMPERATURE TRANSMITTERS TT-L671 & TT-L681	0
1-0162L-A0026-001	A26.01	LOOP DIAGRAM STATION OCCUPIED LIGHT SWITCH HS-L600	0
1-0162L-A0027-001	A27.01	LOOP DIAGRAM DUCT TEMPERATURE SENSOR AND DUCT HEATER TE-L600, HCE-L61	0
1-0162L-A0028-001	A28.01	LOOP DIAGRAM STATION MAIN WATER LOW PRESSURE SWITCH PSL-L526	0
1-0162L-A0029-001	A29.01	LOOP DIAGRAM WET WELL & COMMINUTOR LEVEL SWITCH LSHH-L101 & LSH-L502	0
1-0162L-A0030-001	A30.01	LOOP DIAGRAM HVAC DAMPERS AND SUPPLY FAN FV-L641, FV-L642 & FV-L651	0
1-0162L-A0031-001	A31.01	LOOP DIAGRAM STATION FLOOD LEVEL SWITCH LSH-L501	0
1-0162L-A0032-001	A32.01	LOOP DIAGRAM LIFT PUMP P-L01 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L010-1 & VIC-L010-1	0
1-0162L-A0032-002	A32.02	LOOP DIAGRAM LIFT PUMP P-L01 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L010-2 & VIC-L010-2	0
1-0162L-A0033-001	A33.01	LOOP DIAGRAM LIFT PUMP P-L02 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L020-1 & VIC-L020-1	0
1-0162L-A0033-002	A33.02	LOOP DIAGRAM LIFT PUMP P-L02 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L020-2 & VIC-L020-2	0
1-0162L-A0034-001	A34.01	LOOP DIAGRAM LIFT PUMP P-L03 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L030-1 & VIC-L030-1	0
1-0162L-A0034-002	A34.02	LOOP DIAGRAM LIFT PUMP P-L03 BEARING VIBRATION SENSORS AND CONTROLLERS VE-L030-2 & VIC-L030-2	0
1-0162L-A0035-001	A35.01	LOOP DIAGRAM LIFT PUMP P-L01 BEARING TEMPERATURE SENSORS & TRANSMITTERS TE-L010-1, TE-L010-2, TT-L010-1 & TT-L010-2	0
1-0162L-A0036-001	A36.01	LOOP DIAGRAM LIFT PUMP P-L02 BEARING TEMPERATURE SENSORS & TRANSMITTERS TE-L020-1, TE-L020-2, TT-L020-1 & TT-L020-2	0
1-0162L-A0037-001	A37.01	LOOP DIAGRAM LIFT PUMP P-L03 BEARING TEMPERATURE SENSORS & TRANSMITTERS TE-L030-1, TE-L030-2, TT-L030-1 & TT-L030-2	0
1-0162L-A0038-001	A38.01	LOOP DIAGRAM LIFT PUMP P-L01 DISCHARGE FLOW TRANSMITTER FIT-L012	0
1-0162L-A0039-001	A39.01	LOOP DIAGRAM LIFT PUMP P-L02 DISCHARGE FLOW TRANSMITTER FIT-L022	0
1-0162L-A0040-001	A40.01	LOOP DIAGRAM LIFT PUMP P-L03 DISCHARGE FLOW TRANSMITTER FIT-L032	0
1-0162L-A0041-001	A41.01	LOOP DIAGRAM WET WELL LEVEL TRANSMITTER AND LEVEL CONTROLLER LIT-L100-1, LIC-L100-1 & LSH-L100-1	0
1-0162L-A0041-002	A41.02	LOOP DIAGRAM WET WELL LEVEL TRANSMITTER AND LEVEL CONTROLLER LIT-L100-2, LIC-L100-2 & LSH-L100-2	0

CIVIL DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-C0001	C01	TEMPORARY BY-PASS PUMPING PLAN AND DETAILS S-MA70017062	0

ELECTRICAL DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-E0001-001	E01.01	ELECTRICAL SITE PLAN DEMOLITION	0
1-0162L-E0003-001	E03.01	ELECTRICAL SINGLE LINE DIAGRAM	0
1-0162L-E0004-001	E04.01	ELECTRICAL AND LIGHTING PLAN LAYOUT MAIN FLOOR AND SUB-LEVEL 1	0
1-0162L-E0005-001	E05.01	ELECTRICAL AND LIGHTING PLAN LAYOUT MOTOR ROOM	0
1-0162L-E0006-001	E06.01	ELECTRICAL AND LIGHTING PLAN LAYOUT PUMP ROOM	0
1-0162L-E0007-001	E07.01	ELECTRICAL HAZARDOUS AND WET LOCATION PLAN MAIN FLOOR	0
1-0162L-E0008-001	E08.01	ELECTRICAL HAZARDOUS AND WET LOCATION PLAN DRY WELL (SUB-LEVELS 1, MOTOR ROOM & PUMP ROOM) AND WETWELL	0
1-0162L-E0009-001	E09.01	ELECTRICAL GROUNDING INSTALLATION DETAILS	0
1-0162L-E0010-001	E10.01	ELECTRICAL MCC ELEVATIONS AND DETAILS MCC-L71	0
1-0162L-E0011-001	E11.01	ELECTRICAL SCHEDULES AND PHOTOCELL DETAILS PNL-L73 & JBA-L74	0
1-0162L-E0012-001	E12.01	ELECTRICAL MOTOR STARTER SCHEMATIC LIFT PUMP P-L01	0
1-0162L-E0013-001	E13.01	ELECTRICAL MOTOR STARTER CONNECTION DIAGRAM LIFT PUMP P-L01	0
1-0162L-E0014-001	E14.01	ELECTRICAL MOTOR STARTER SCHEMATIC LIFT PUMP P-L02	0
1-0162L-E0015-001	E15.01	ELECTRICAL MOTOR STARTER CONNECTION DIAGRAM LIFT PUMP P-L02	0
1-0162L-E0016-001	E16.01	ELECTRICAL MOTOR STARTER SCHEMATIC LIFT PUMP P-L03	0
1-0162L-E0017-001	E17.01	ELECTRICAL MOTOR STARTER CONNECTION DIAGRAM LIFT PUMP P-L03	0
1-0162L-E0018-001	E18.01	ELECTRICAL MOTOR STARTER SCHEMATIC SUPPLY AND EXHAUST FAN SF-L64 & EF-L65	0
1-0162L-E0019-001	E19.01	ELECTRICAL CONNECTION DIAGRAM SUPPLY AND EXHAUST FAN SF-L64 & EF-L65	0
1-0162L-E0020-001	E20.01	ELECTRICAL SITE PLAN	0

MECHANICAL DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-M0001-001	M01	MECHANICAL PIPING DEMOLITION PLAN	0
1-0162L-M0002-001	M02	MECHANICAL PIPING DEMOLITION SECTION AND DETAIL	0
1-0162L-M0003-001	M03	MECHANICAL HVAC AND PLUMBING DEMOLITION SECTION	0
1-0162L-M0004-001	M04	MECHANICAL HVAC AND PLUMBING DEMOLITION PLANS	0
1-0162L-M0005-001	M05	MECHANICAL NEW PROCESS PIPING PLANS	0
1-0162L-M0006-001	M06	MECHANICAL NEW PROCESS PIPING SECTION	0
1-0162L-M0007-001	M07	MECHANICAL HVAC AND PLUMBING SECTION	0
1-0162L-M0008-001	M08	MECHANICAL HVAC AND PLUMBING PLANS	0
1-0162L-M0009-001	M09	MECHANICAL MECHANICAL EQUIPMENT SCHEDULES	0
1-0162L-M0010-001	M10	MECHANICAL PIPING SUPPORT STANDARD DETAILS	0
1-0162L-M0011-001	M11	MECHANICAL HVAC AND PLUMBING STANDARD DETAILS	0
1-0162L-M0012-001	M12	MECHANICAL NEW PROCESS PIPING SECTIONS AND DETAILS	0

PROCESS DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-P0001-001	P01.01	PROCESS WASTEWATER PUMPING PROCESS AND INSTRUMENTATION DIAGRAM	0
1-0162L-P0001-002	P01.02	PROCESS WASTEWATER PUMPING PROCESS AND INSTRUMENTATION DIAGRAM	0
1-0162L-P0001-003	P01.03	PROCESS WASTEWATER PUMPING PROCESS AND INSTRUMENTATION DIAGRAM	0
1-0162L-P0002-001	P02	PROCESS HVAC AND PLUMBING SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM	0

STRUCTURAL DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-S0001-001	S01	STRUCTURAL SPECIFICATION NOTES NEW	0
1-0162L-S0002-001	S02	STRUCTURAL FOUNDATION AND ROOF FRAMING PLAN NEW	0
1-0162L-S0002-002	S03	STRUCTURAL SUB-LEVEL 1 & 2 FLOOR FRAMING PLANS NEW	0
1-0162L-S0002-003	S04	STRUCTURAL SUB-LEVEL 3 FLOOR FRAMING PLAN NEW	0
1-0162L-S0003-001	S05	STRUCTURAL WETWELL SECTION DEMOLITION & RETROFIT	0
1-0162L-S0003-002	S06	STRUCTURAL WETWELL DETAILS RETROFIT	0
1-0162L-S0004-001	S07	STRUCTURAL DETAILS NEW	0
1-0162L-S0004-002	S08	STRUCTURAL DETAILS NEW	0
1-0162L-S0004-003	S09	STRUCTURAL DETAILS NEW	0
1-0162L-S0004-004	S10	STRUCTURAL AIR CONDITIONER CONNECTION DETAIL	0
1-0162L-S0004-005	S11	STRUCTURAL SECTION & DETAILS	0

BUILDING DRAWINGS

CITY OF WINNIPEG DWG NO.	KGS GROUP DWG NO.	DESCRIPTION	REV
1-0162L-B0001-001	B01	BUILDING NOTES	0
1-0162L-B0002-001	B02	BUILDING PLAN & SECTIONS DEMOLITION	0
1-0162L-B0002-002	B03	BUILDING PLANS DEMOLITION	0
1-0162L-B0002-003	B04	BUILDING PLAN DEMOLITION	0
1-0162L-B0002-004	B05	BUILDING SECTION DEMOLITION	0
1-0162L-B0003-001	B06	BUILDING MAIN FLOOR & ROOF PLAN NEW	0
1-0162L-B0003-002	B07	BUILDING SUB-LEVEL 1, 2 & 3 FLOOR PLANS NEW	0
1-0162L-B0004-001	B08	BUILDING ELEVATIONS NEW	0
1-0162L-B0005-001	B09	BUILDING BUILDING SECTIONS NEW	0
1-0162L-B0005-002	B10	BUILDING SUB-LEVEL SECTION NEW	0
1-0162L-B0006-001	B11	BUILDING WALL SECTIONS & DETAILS NEW	0
1-0162L-B0007-001	B12	BUILDING ROOM FINISH & DOOR SCHEDULE NEW	0

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES

DRAWING INDEX

KGS GROUP

SHEET 2 OF 109	CITY DRAWING NUMBER	SHEET	REV.	SIZE
	1-0162L-D0002	001	0	A1

A1 SIZE – 594mm x 841mm

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