NOTES:

1. ALL EQUIPMENT TO BE PROVIDED NEW.
2. CONTRACTOR TO PROVIDE TYPE WRITTEN PANEL SCHEDULES FOR PNL-G71 AND PNL-G73.
3. CONTRACTOR TO PROVIDE AND INSTALL NEW EMERGENCY LIGHT BATTERY PACK LOCATED IN THE ELECTRICAL CABINET C/W TEST SWITCH AND LED STATUS INDICATION. BATTERY PACK TO BE WIRED TO ENABLE THE EMERGENCY LIGHTS ON LOSS OF POWER TO CIRCUIT 3 ON PNL-G73.

	PANEL: G71							
	LOCATION: ELECTRICAL CABINET							
	600V 3PH 4W 100A							
DESCRIPTION	LOAD (W)	TRIP AMPS	BRK. No.	PHASE	BRK. No.	TRIP AMPS	LOAD (W)	DESCRIPTION
XFMR-G73		15	1	A	2	30		SURGE PROTECTION DEVICE
			3	B	4			
P-G01		30	5	C	6	30		SPARE
			7	A	8			
			9	B	10			
P-G02		30	11	C	12			
			13	A	14			SPARE
			15	B	16			SPARE
SPARE			17	C	18			SPARE

600V PANEL SCHEDULE

	PANEL: G73							
	LOCATION: ELECTRICAL CABINET							
	120/240V 1PH 3W 100A							
DESCRIPTION	LOAD (W)	TRIP AMPS	BRK. No.	PHASE	BRK. No.2	TRIP AMPS	LOAD (W)	DESCRIPTION
CP-G81	500	15	1	A	2	30		SURGE PROTECTION DEVICE
CHAMBER LIGHTING		15	3	B	4			
ENCLOSURE LIGHTING		15	5	A	6	15	800	ENCLOSURE HEATER
RECEPTACLE	500	15	7	B	8			SPARE

120/240V PANEL SCHEDULE

BREAKER	MODEL	TRIP UNIT	FRAME	SENSOR TRIP UNIT	LTPY (ir)	LTD (tr)	STPU (Isd)	STD (Isd)	INST (Ii)
MCB-G70	POWERPACT H SERIES	MICROLOGIC 3.2S	100A	100A					

BREAKER SCHEDULE

LUMINAIRE SCHEDULE

TAG	COUNT	DESCRIPTION	MANUFACTURER/MODEL (OR APPROVED EQUIVALENT)	MOUNTING HEIGHT	LAMPS	LENS	FIXTURE LUMEN OUTPUT	COLOUR TEMPERATURE	MOUNTING	VOLT	LIFESPAN	REMARKS
A	3	LED HAZARDOUS LOCATION STRIP LIGHT	COLUMBIA LIGHTING / HEM4-40HL-DFA-EU	SEE DWG. 1-0240G-E0003	LED	DEEP FROSTED ACRYLIC	5800	4000K	WALL	120 VAC	50000 HRS	CONTROL VIA 3 WAY SWITCH AT HATCH ENTRANCE AND WITHIN ELECTRICAL CABINET.

EMERGENCY LIGHTING SCHEDULE

TYPE	COUNT	LOCATION	DESCRIPTION	MODEL	SOURCE VOLTAGE	OUTPUT VOLTAGE	WATTAGE	CONNECTED WATTAGE	REMARKS
EM1	1	ELECTRICAL CABINET	STANDALONE HEADLESS EMERGENCY LIGHT BATTERY PACK	STANPRO / SLA-12100-WA-AT-ACTB	120VAC	12VDC	100W	24W	
EM2	2	PUMPING CHAMBER	REMOTE SINGLE HEAD DUAL HEAD LAMP	STANPRO / VC12-12-24V-6WLAWM	12VDC	N/A	12W	N/A	EXPLOSION PROOF, SUBMERSIBLE REMOTE HEAD

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4	1-0240G-E0003-001	ELECTRICAL SITE PLAN
3	1-0240G-E0004-001	VAULT LAYOUT AND SECTIONS
2	1-0240G-E0005-001	ELECTRICAL ENCLOSURE LAYOUT
1	1-0240G-E0010-001	ELECTRICAL GROUNDING DETAILS

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, A DIVISION OF
ENGLOBE CORP.
No. 4968

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024.03.15	

MPE a division of Englobe

DESIGNED BY J. SWAIN
CHECKED BY R. OFSTIE
DRAWN BY D. MCMILLAN
APPROVED BY R. OFSTIE
SCALE: NOT TO SCALE
HORIZONTAL
VERTICAL
RELEASED FOR CONSTRUCTION
DATE 2024-03-15
DATE
PLOT DATE: 2024 03 15

PROVINCE OF MANITOBA
R.G. OFSTIE
Member 44405
REGISTERED PROFESSIONAL ENGINEER
MARCH 18, 2024
CONSULTANT DRAWING NUMBER

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

RENFREW OUTFALL GATE CHAMBER
2024 UPGRADES

ELECTRICAL SINGLE LINE DIAGRAM
AND SCHEDULES

CITY DRAWING NUMBER 1-0240G-E0002-001
SHEET 15 OF 41

BID OPPORTUNITY: --

FILE PATH: M:\N-Data\84\00 City of Winnipeg\006 - Renfrew Outfall Gate Chamber Upgrades\AutoDesk\ACAD\
FILE NAME: e1.3 electrical single line diagram.dwg