DISTRIBUTION

- CONDUIT IDENTIFICATION TAG
- LIGHTING/POWER PANEL
- DATA PANEL
- INTERCOM PANEL
- FIRE ANNUNCIATOR PANEL
- GROUND BAR
- PLYWOOD BACKBOARD
- EXTERIOR TRANSFORMER
- DRY TYPE TRANSFORMER
- METERING CABINET GREATER THAN 200A
- UTILITY METER PLAN
- POWER METER
- ELECTRIC UTILITY METER 200A AND LESS
- WATER METER
- GAS METER
- SPLITTER
- ELECTRICAL CENTRAL DISTRIBUTION PANEL (CDP)
- ELECTRICAL MOTOR CONTROL CENTRE (MCC)
- ELECTRICAL MAIN DISTRIBUTION BOARD
- LVT 120/24V LOW VOLTAGE TRANSFORMER
- WEATHER HEAD

LIGHTING

- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE WITH END PLATES
- SURFACE MOUNTED STRIP LIGHT FIXTURE UNDER CABINET/VALENCE STRIP LIGHT FIXTURE
- WALL MOUNTED CUBED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EM WALL MOUNTED LIGHT FIXTURE ON EMERGENCY
- POLE MOUNTED LIGHT FIXTURE (ONE HEAD SHOWN)
- WALL MOUNTED HID LIGHT FIXTURE

POWER

- DUPLEX RECEPTACLE
- SPLIT FEED RECEPTACLE
- FOURPLEX RECEPTACLE
- SWITCHED DUPLEX RECEPTACLE
- 20A T–SLOT RECEPTACLE (KITCHEN)
- TWISTLOCK RECEPTACLE
- 208 VOLT 1PH RECEPTACLE
- 208 VOLT 3PH RECEPTACLE
- WALL MOUNTED USB PORT
- PEDESTAL DUPLEX RECEPTACLE
- SB - WALL MOUNTED MULTI–GANG BOX
- WALL MOUNTED PUSH BUTTON
- SPD WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS)
- VFD WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD)
- CEILING MOUNTED DUPLEX RECEPTACLE
- CEILING MOUNTED FOURPLEX RECEPTACLE
- CEILING MOUNTED 208 VOLT 1PH RECEPTACLE
- CEILING MOUNTED 208 VOLT 3PH RECEPTACLE
- AUXILIARY RELAY
- CEILING MOUNTED POWER ZONE BOX
- REEL DOWN RECEPTACLE
- PACK POLE
- No. FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS)
- No. FLOOR MOUNTED FOURPLEX RECEPTACLE (No. of OUTLETS)
- No. FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE
- No. FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE
- SB - FLOOR MOUNTED MULTI–GANG BOX

POWER CONTINUED

- MOTOR
- MOTOR WITH DISCONNECT SWITCH
- MOTOR WITH FUSIBLE DISCONNECT SWITCH
- MOTOR WITH COMBINATION DISCONNECT SWITCH
- MSM MAGNETIC MOTOR STARTER
- HOME RUN WITH WIRE COUNT
- WAP WIRELESS ACCESS POINT
- ELECTRICAL HEATING
- HEAT TRACING
- PIN AND SLEEVE CONNECTOR (FEMALE)
- PIN AND SLEEVE CONNECTOR (MALE)

SWITCHES AND JUNCTIONS BOXES

- LINE VOLTAGE SWITCH
- P SWITCH C/W PILOT LIGHT
- 2 TWO POLE SWITCH
- 3 THREE WAY SWITCH
- 4 FOUR WAY SWITCH
- M MANUAL MOTOR PROTECTION SWITCH C/W PILOT LIGHT
- K KEY OPERATED SWITCH – CYLINDER TYPE
- T TIMER SWITCH
- D DIMMER SWITCH – SLIDER TYPE
- L INTERNALLY ILLUMINATED LIGHT SWITCH
- R LOW VOLTAGE SWITCH
- 2 GANG SWITCH
- 3 GANG SWITCH
- 4 GANG SWITCH
- WALL MOUNTED PHOTOCELL
- WALL MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- J SQUARE CEILING MOUNTED JUNCTION BOX
- T THERMOSTAT
- NON–FUSEABLE DISCONNECT SWITCH
- FUSEABLE DISCONNECT SWITCH
- COMBINATION MAGNETIC HOA STARTER
- WALL MOUNTED OCCUPANCY SENSOR

LIFE SAFETY

- CEILING MOUNTED EXIT LIGHT SINGLE FACE
- CEILING MOUNTED EXIT LIGHT DOUBLE FACE
- CEILING COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY
- WALL MOUNTED EXIT LIGHT SINGLE FACE
- WALL MOUNTED EXIT LIGHT DOUBLE FACE
- WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY
- EXIT LIGHT DIRECTIONAL ARROW
- WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK
- CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD
- CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD
- WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD
- SMOKE DETECTOR
- SMOKE ALARM – 120V

POWER EQUIPMENT

- DELTA WYE TRANSFORMER
- DISTRIBUTION TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE DRAW OUT TYPE
- CIRCUIT BREAKER DRAW OUT TYPE
- 3 PHASE GENERATOR (GROUNDED)
- THERMAL OVERLOAD PROTECTION
- INTERLOCK
- CAPACITOR

POWER EQUIPMENT CONTINUED

- A CURRENT METER
- CONTACTOR
- FUSE
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- XXX XXX XXX CIRCUIT BREAKER — FRAME SIZE / TRIP RATING / POLE
- ETM ELAPSED TIME METER
- GROUND ROD
- GROUND ROD C/W WELL
- GROUND ROD WITHOUT WELL
- GH GATE HOIST
- x kw HEATER C/W KILOWATT RATING
- XXX MOTOR CONTROL IDENTIFICATION TAG
- TRANSFER SWITCH

COMMUNICATIONS

- WALL MOUNTED TELEPHONE OUTLET
- WALL MOUNTED DATA OUTLET
- WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET
- WALL MOUNTED TELEVISION OUTLET
- WALL MOUNTED CHIME OR BUZZER
- CEILING MOUNTED TELEPHONE OUTLET
- CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET
- CEILING MOUNTED TELEVISION OUTLET
- CEILING MOUNTED DATA OUTLET (No. OF OUTLETS)
- No. FLOOR MOUNTED DATA OUTLET (No. OF OUTLETS)
- No. FLOOR MOUNTED TELEPHONE OUTLET (No. OF OUTLETS)
- No. FLOOR MOUNTED TELEVISION OUTLET (No. OF OUTLETS)
- No. FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS)
- RADIO LINK

CONTROL PANEL EQUIPMENT

- RESET PUSH BUTTON (NO)
- RESET PUSH BUTTON (NC)
- MUSHROOM HEAD STOP
- H A 3 POSITION SELECTOR SWITCH
- ON OFF 2 POSITION SELECTOR SWITCH
- H A HAND–OFF–AUTO SELECTOR SWITCH
- U D UP–OFF–DOWN SELECTOR SWITCH
- RESET PUSH BUTTON
- A AMBER PILOT LIGHT
- G GREEN PILOT LIGHT
- R RED PILOT LIGHT
- DUPLEX RECEPTACLE
- SINGLE PHASE PLUG
- MAIN CONTROL PANEL FUSED TERMINAL BLOCK
- AUXILIARY FUSED TERMINAL BLOCK
- CIRCUIT BREAKER
- MAIN CONTROL PANEL TERMINAL BLOCK
- PLC/RTU TERMINAL
- AUXILIARY TERMINAL BLOCK
- MCC/VFD TERMINAL BLOCK
- DEVICE TERMINAL BLOCK

CONTROL PANEL EQUIPMENT CONTINUED

- R 1000 DRY CONTACT RELAY COIL
- TDR 1000 TIME DELAY RELAY COIL
- M MAGNETIC CONTACTOR
- SOLENOID
- DRY CONTACT RELAY (NC) CONTACT
- DRY CONTACT RELAY (NO) CONTACT
- VARIABLE RESISTOR
- RESISTOR
- TH THERMISTOR
- DIODE
- MOV METAL OXIDE VARISTOR

INSTRUMENTATION EQUIPMENT

- LEVEL SWITCH (OPEN ON RISING LEVEL)
- LEVEL SWITCH (OPEN ON FALLING LEVEL)
- FLOW SWITCH (OPEN ON RISING FLOW)
- FLOW SWITCH (OPEN ON FALLING FLOW)
- PRESSURE SWITCH (OPEN ON RISING PRESSURE)
- PRESSURE SWITCH (OPEN ON FALLING PRESSURE)
- TEMPERATURE SWITCH (OPEN ON RISING TEMPERATURE)
- TEMPERATURE SWITCH (OPEN ON FALLING TEMPERATURE)
- LIMIT SWITCH (NC)
- LIMIT SWITCH (NO)
- TIME DELAY RELAY (NC)
- TIME DELAY RELAY (NO)

INSTRUMENTATION IDENTIFICATION TAG

PLC I/O

- PLC INPUT
- PLC OUTPUT

MISCELLANEOUS AND LABELS

- REVISION NUMBER
- FIXTURE TYPE
- MECHANICAL EQUIPMENT IDENTIFICATION TAG
- KITCHEN EQUIPMENT TAG
- KEY NOTES
- E CAPPED OFF LINE OR CONDUIT
- CONDUIT BREAK
- TP TAMPER PROOF
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- IG ISOLATED GROUND
- EM EMERGENCY
- AF AMP FRAME
- AT AMP TRIP
- WP WEATHER PROOF
- XP EXPLOSION PROOF
- WIRE COUNT
- CONDUIT RUN UP
- CONDUIT RUN DOWN
- --OH-- OVERHEAD POWER
- --UG-- UNDERGROUND POWER
- CONDUCTOR/CONDUIT
- UNDERGROUND CONDUCTOR/CONDUIT
- FLEXIBLE CONDUIT
- EXISTING EQUIPMENT
- NEW EQUIPMENT
- EQUIPMENT TO BE REMOVED

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, a division of Englobe Corp.
No. 4968 Date: MAR 19, 2024

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024–03–19	

MPE a division of Englobe

DESIGNED BY	J. SWAIN	CHECKED BY	R. OFSTIE
DRAWN BY	J. SWAIN, T. SHRUFI	APPROVED BY	R. OFSTIE
SCALE: HORIZONTAL / VERTICAL	NOT TO SCALE	RELEASED FOR CONSTRUCTION	
DATE	2024–03–19	DATE	

PLOT DATE: 2024 03 19

PROVINCE OF MANITOBA — R.G. OFSTIE — Member 44405 — REGISTERED PROFESSIONAL ENGINEER
MARCH 21, 2024
CONSULTANT DRAWING NUMBER

BID OPPORTUNITY: --

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CONWAY LIFT PUMPING STATION
2024 UPGRADES

ELECTRICAL LEGEND

CITY DRAWING NUMBER 1–0131L–E0001–001–00 | SHEET 42 OF 102

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FILE NAME: E1.1 Electrical Legend.dwg