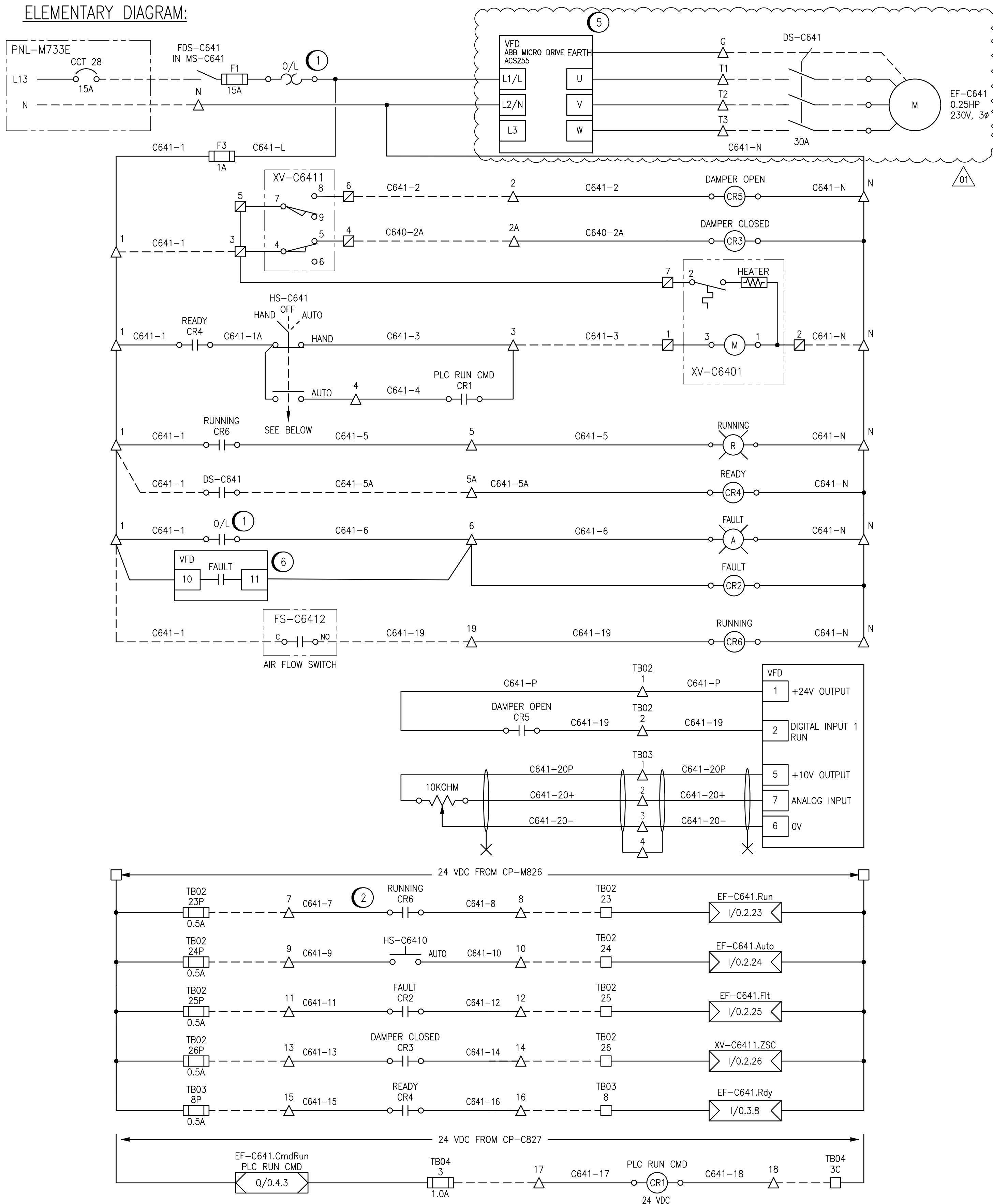


LAST SAVE: 2025/07/10 - 3:12pm
PATH: M:\694715\MENG\47ELE\DD - General DWG\MACLEAN\1-0630M-E0080-001-00.dwg
A1 SIZE - 594mm x 841mm

ELEMENTARY DIAGRAM:

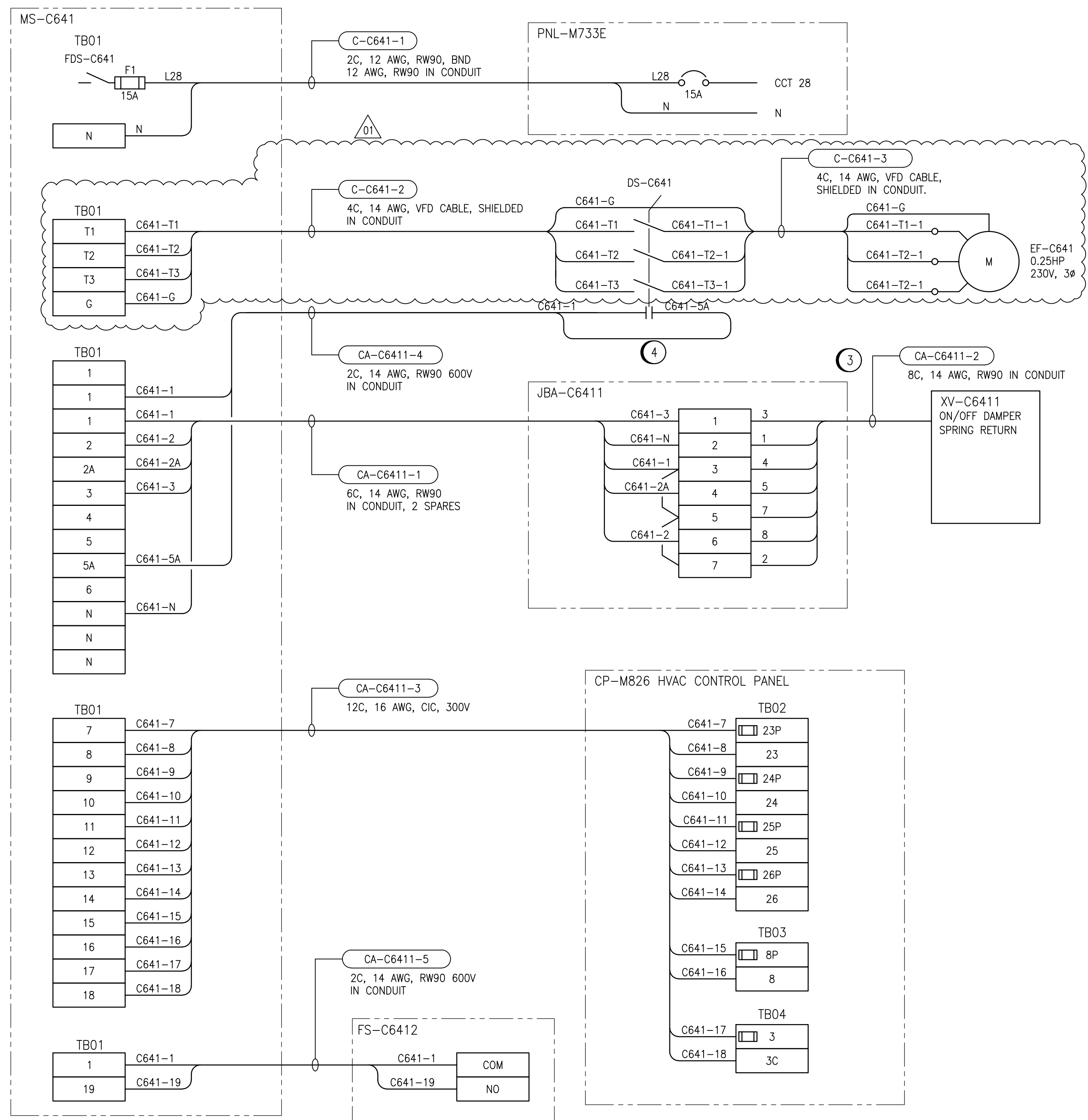


GENERAL NOTES:

- ALL CONNECTIONS FOR POWER AND CONTROLS ARE TO BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. REVIEW REQUIREMENTS ON SHOP DRAWINGS. CONTRACTOR TO VERIFY ALL CONNECTIONS WITH MANUFACTURER AND PROVIDE ALL REQUIRED EQUIPMENT, INCLUDING ANY EQUIPMENT NOT SHOWN ON DRAWING.
- ALL EQUIPMENT, CONDUIT AND CABLING SHOWN IS NEW AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- MS-C641 TO BE LOCATED IN TONNER STORAGE ROOM. CONTRACTOR TO PROVIDE CONTROL PANEL LAYOUT BASED ON SCHEMATIC. CONTRACT ADMINISTRATOR TO REVIEW AND APPROVE SHOP DRAWING OF CONTROL PANEL PRIOR TO CONSTRUCTION AND SHIPMENT TO SITE. MS-C641 TO INCLUDE VFD.

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
AtkinsRéalis Canada Inc.
No. 4489

FIELD CONNECTION DIAGRAM:



CONSTRUCTION NOTES:

- PROVIDE OVERLOAD RELAY BASED ON MOTOR FLA AND NAMEPLATE DATA. OVERLOAD SHALL BE RESET WITH A MANUAL PUSH BUTTON MOUNTED ON THE FRONT OF THE CONTROL PANEL.
- PROVIDE CONTACTOR RATED FOR CONTINUOUS OPERATION AND THE CONTACTOR RATED MINIMUM 1.25X THE FLA OF THE MOTOR.
- JUNCTION BOX TO BE LOCATED WITHIN 10 FEET OF DAMPER ACTUATOR.
- CONTRACTOR TO PROVIDE DISCONNECT COMPLETE WITH AUXILIARY CONTACT FOR READY SIGNAL.
- CONTRACTOR TO PROVIDE NEW VFD AND LOCATE IN MOTOR STARTER PANEL MS-C641. CONTRACTOR RESPONSIBLE FOR PROGRAMMING OF VFD AND DETERMINING SETTINGS BASED ON MOTOR APPLICATION. THE VFD IS SINGLE PHASE 120V INPUT, 3 PHASE 208V OUTPUT.
- CONFIGURE VFD RELAY OUTPUT FOR DEVICE TRIPPED (FAULT CONDITION)

1-0630M-A0072
1-0630M-A0057
1-0630M-A0056
1-0630M-A0055
1-0630M-A0053
1-0630M-E0042

PANEL LAYOUT, DAMPER ACTUATOR JUNCTION BOXES
HVAC CONTROL PANEL CP-M826, DISCRETE OUTPUTS RACK 0, MODULE 4
HVAC CONTROL PANEL CP-M826, DISCRETE INPUTS RACK 0, MODULE 3
HVAC CONTROL PANEL CP-M826, DISCRETE INPUTS RACK 0, MODULE 2
PANEL LAYOUT, HVAC CONTROL PANEL CP-M826
PANELBOARD SCHEDULES

DRAWING NUMBER REFERENCE DRAWINGS

AtkinsRéalis

148 Nature Park Way, Winnipeg, Manitoba
Canada R3P 0X7 204-786-8080

DESIGNED BY: B. WILKS
CHECKED BY: V. ELIMBAN
DRAWN BY: B. WILKS
APPROVED BY: V. ELIMBAN
SCALE: NTS
ISSUED FOR CONSTRUCTION
BY: M. SKINNER
DATE: 2023/08/21
DATE: 2025/04/30
CONSULTANT NO.:

ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MACLEAN PUMPING STATION
CHLORINE SYSTEM UPGRADES
MOTOR STARTER SCHEMATIC / FIELD WIRING DIAGRAM
EXHAUST FAN EF-C641
TONNER STORAGE ROOM

CITY DRAWING NUMBER
1-0630M-E0080
SHEET
001
REV.
01
SIZE
A1

1-0630M-E0080-001-00.dwg