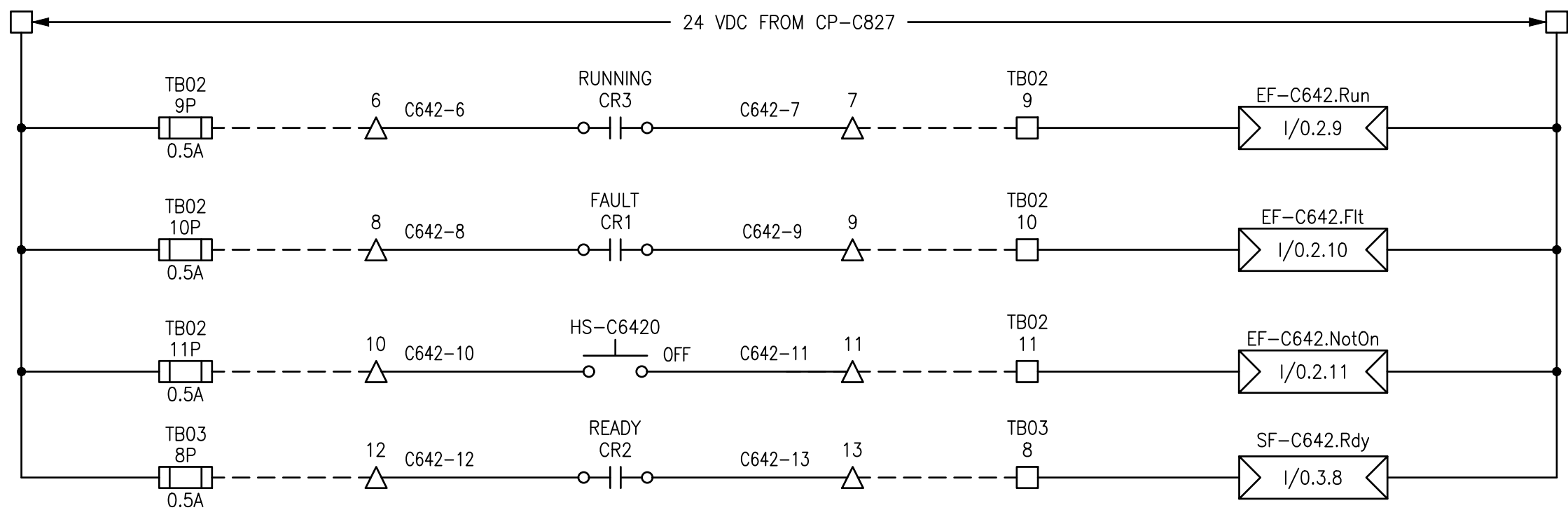
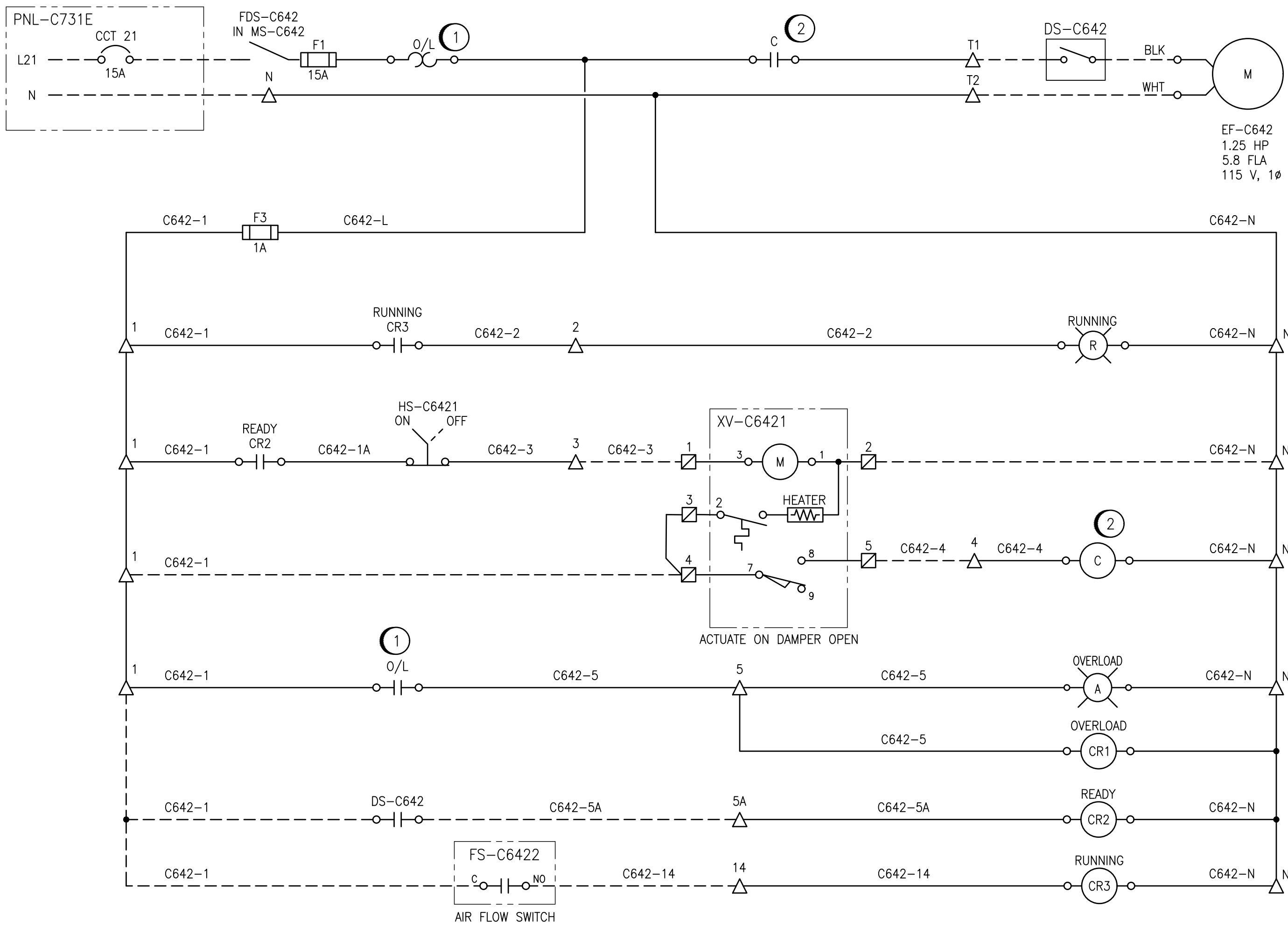
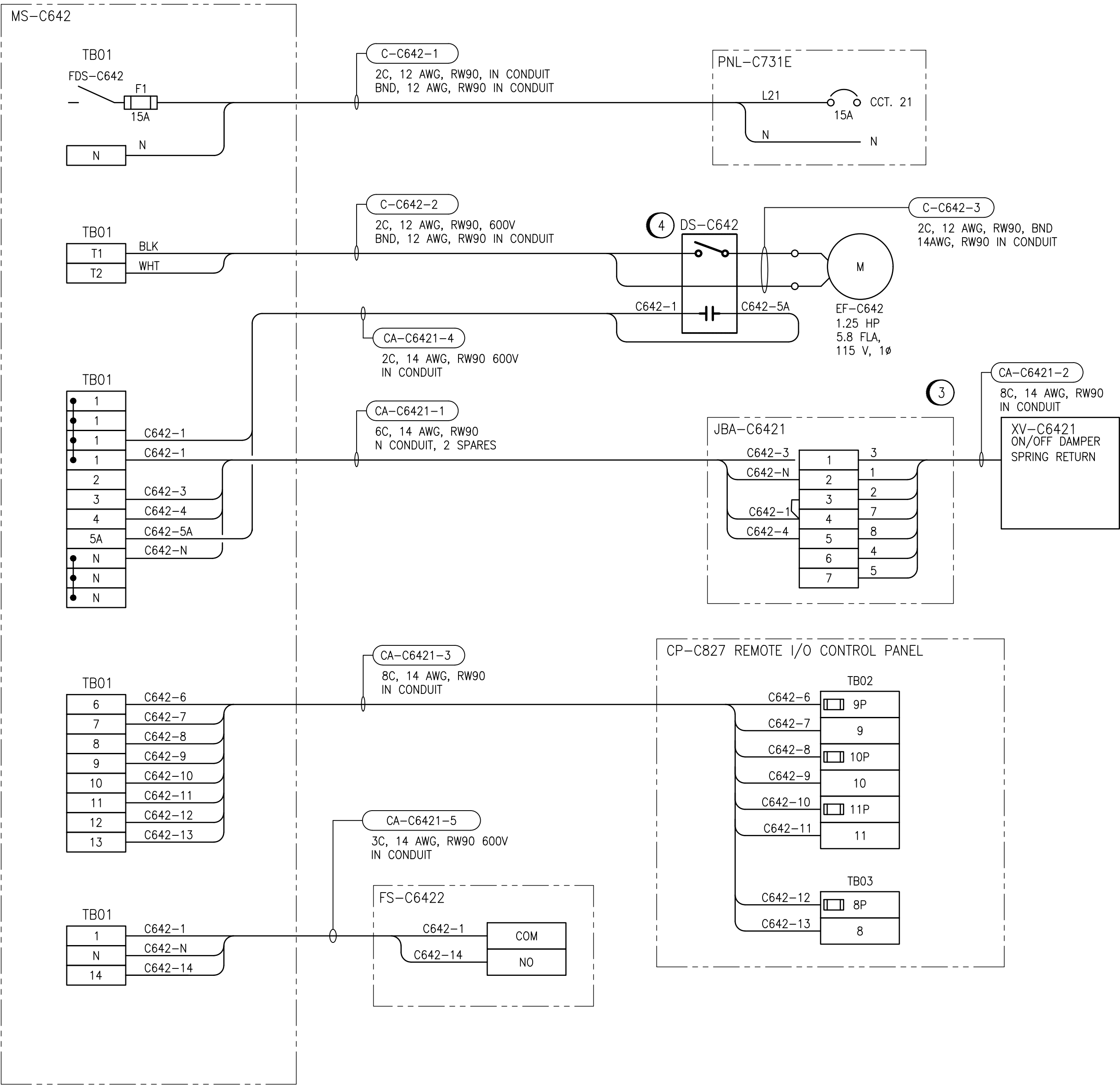


ELEMENTARY DIAGRAM:



FIELD CONNECTION 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-C642 TO BE LOCATED OUTSIDE CHLORINATOR EQUIPMENT ROOM IN THE UNHEATED VESTIBULE AREA. CONTRACTOR TO PROVIDE CONTROL PANEL BASED ON SCHEMATIC. CONTRACT ADMINISTRATOR TO REVIEW AND APPROVE SHOP DRAWING OF CONTROL PANEL PRIOR TO CONSTRUCTION AND SHIPMENT TO SITE. CONTRACTOR TO PRIORITISE MINIMIZING SIZE OF PANEL IN ORDER FIT IN EXISTING SPACE. PANEL TO BE RATED NEMA 4X AND ALL DEVICE ON THE FRONT PANEL SHALL BE RATED APPROPRIATELY.

CONSTRUCTION NOTES:

- PROVIDE OVERLOAD RELAY BASED ON MOTOR FLA 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.

LEGEND:

- △ TERMINAL IN MS-C642
- TERMINAL IN CONTROL PANEL CP-C827
- ▣ TERMINAL IN JUNCTION BOX
- ⊗ INDICATING LIGHT, R = RED
A = AMBER
- ▢ PLC OUTPUT
- ▤ PLC INPUT
- FIELD WIRING
- INTERNAL WIRING

1-0640C-A0024-001	PANEL LAYOUT, DAMPER ACTUATOR, JUNCTION BOXES
1-0640C-A0006-001	PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 3
1-0640C-A0005-001	PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 2
1-0640C-A0004-001	REMOTE I/O PANEL, CONTROL PANEL CP-C827
1-0640C-A0003-001	REMOTE I/O PANEL LAYOUT, CONTROL PANEL CP-827
1-0640C-E0003-001	SINGLE LINE DIAGRAM, MCC-C710/MCC-C720E

DRAWING NUMBER REFERENCE DRAWINGS

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

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: 2023/08/17	DATE: 2025/04/30
CONSULTANT NO.:	
00 ISSUED FOR TENDER AND CONSTRUCTION	2025/04/30 VE VE
NO. REVISIONS	DATE DESIGN CHECK

AtkinsRéalis
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ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
CHLORINE SYSTEM UPGRADES
MOTOR STARTER SCHEMATIC / FIELD WIRING DIAGRAM
EXHAUST FAN EF-C642
CHLORINATOR EQUIPMENT ROOM

CITY DRAWING NUMBER
1-0640C-E0024
SHEET
001
REV.
00
SIZE
A1