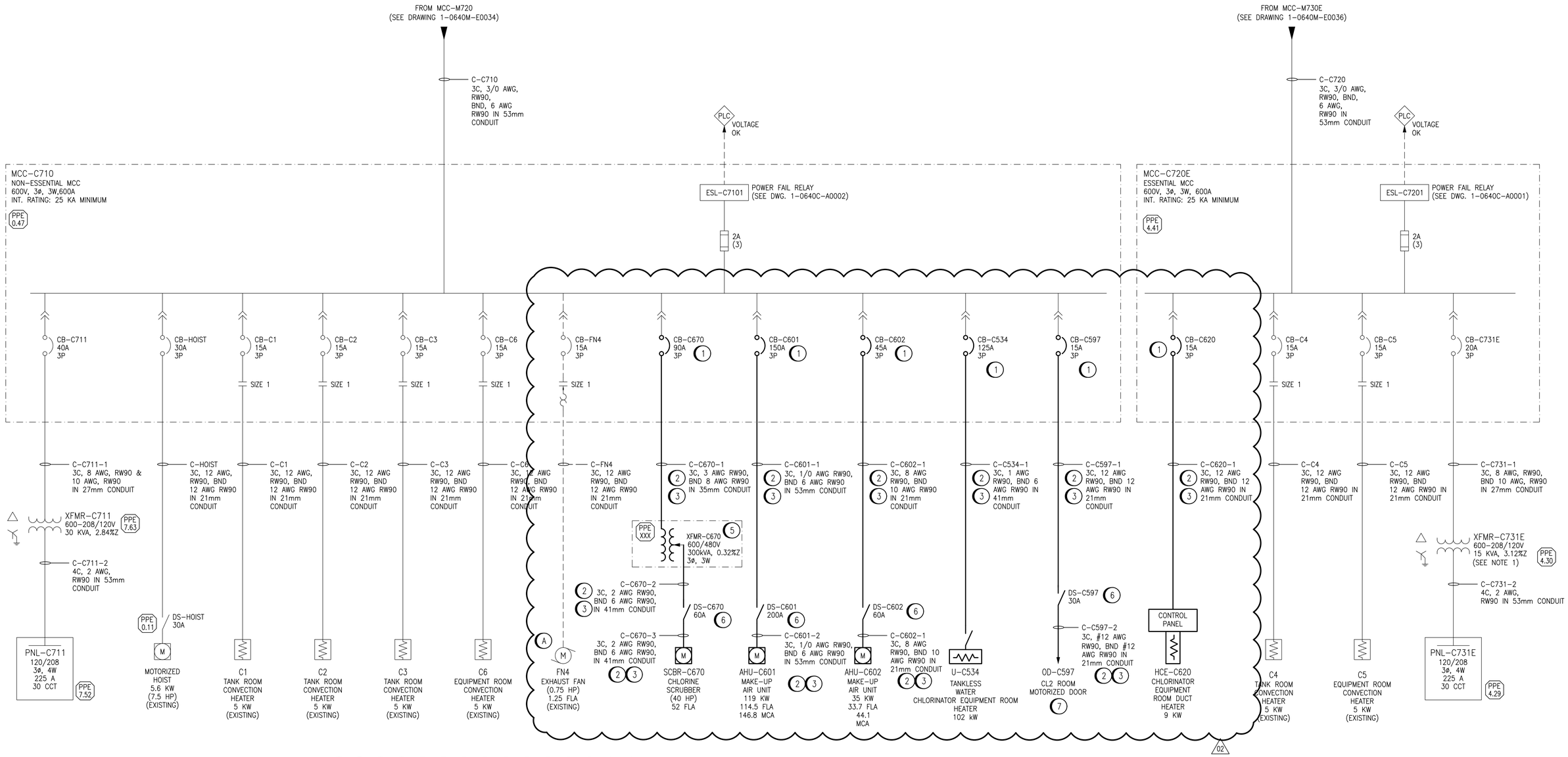
A1 SIZE – 594mm x 841mm



NOTES:

1. XFMR–C731E SIZED AT 15KVA TO LIMIT INRUSH ON STANDBY GENERATOR. CABLING DESIGNED FOR POTENTIAL FUTURE 30KVA TRANSFORMER.
2. THIS DRAWING SUPERSEDES DRAWING 1–0640C–E0001.
3. ALL WORK/DEVICES/EQUIPMENT WITHIN REVISION CLOUDS ARE NEW UNLESS NOTED OTHERWISE.

SPECIFIC NOTES:

1. PROVIDE NEW CIRCUIT BREAKERS AND ALL REQUIRED CABLING AND CONDUIT FROM MCC–C710 TO NEW EQUIPMENT LOADS AHU–C601, AHU–C602, SCBR–C670, AND U–C534. PROVIDE NEW CIRCUIT BREAKERS AND ALL REQUIRED CABLING AND CONDUIT FROM MCC–C720E TO NEW EQUIPMENT LOAD HCE–C620. BREAKER MODEL AND KAIC RATING TO EXISTING BREAKER IN DISTRIBUTION
2. ALL CONDUIT AND CABLING RAN WITHIN THE TONNER STORAGE ROOM AND CHLORINATOR EQUIPMENT ROOM MUST MEET NEMA 4X STANDARDS AND CEC CATEGORY 2 LOCATION REQUIREMENTS.
3. ALL WALL PENETRATIONS INTO THE CHLORINE STORAGE SPACE (TANK ROOM) AND EQUIPMENT ROOM (CHLORINATION ROOM) MUST BE APPROPRIATELY SEALED PER CEC HAZARDOUS LOCATION REQUIREMENTS TO PREVENT THE EXIT OF GAS FROM THE CHLORINE SPACE.
4. PROVIDE NEW MCC BUCKET COMPLETE WITH CONTACTOR FOR HEATER HCE–C620. REFER TO SCHEMATIC 1–0640C–E0022. HEATER TO BE CONTROLLED BY FIELD MOUNTED THERMOSTAT.
5. PROVIDE NEW 600/480V STEP–DOWN AUTOTRANSFORMER XFMR–C670 TO FEED CHLORINE SCRUBBER UNIT SCBR–C670. TRANSFORMER ENCLOSURE IS TO BE NEMA 4X RATED AND WILL BE MOUNTED OUTSIDE ON THE SCRUBBER PAD.
6. PROVIDE NEW LOCAL DISCONNECT SWITCH. DISCONNECT SWITCH TO BE NEMA 4X RATED.
7. PROVIDE NEW OVERHEAD DOOR, OD–C597, COMPLETE WITH WALL MOUNTED CONTROLLER. PROVIDE NEW FIELD MOUNTED LOCAL DISCONNECT, DS–C597.

DEMOLITION NOTES:

A. DEMOLISH EXISTING FAN FN4 AND ALL CONDUIT AND CABLING ASSOCIATED WITH POWER AND CONTROLS. SEAL ALL HOLES LEFT BY DEMOLITION. SEE DRAWING 1–0640C–E0014 FOR DEMOLITION DETAILS. RENAME MCC BUCKET AS SPARE.

02

LEGEND:

- NEW EQUIPMENT
- DEMOLITION
- EXISTING

DRAWING NUMBER	REFERENCE DRAWINGS
1–0640C–E0012	ELECTRICAL – HAZARDOUS LOCATION, CHLORINE BLDG GROUND LEVEL
1–0640C–E0006	PANEL BOARD SCHEDULES PNL–C711 & PNL–C731E
1–0640C–E0005	ELECTRICAL PANEL LAYOUT, MCC–C710/MCC–C720E LOCATION PLAN
1–0640C–E0004	ELECTRICAL PANEL LAYOUT, MCC–C710/MCCC720E
1–0640C–A0001	LOOP DIAGRAM, MCC–C720E VOLTAGE PRESENT
1–0640M–E0036	SINGLE LINE, MCC–M730E
1–0640M–E0034	SINGLE LINE, MCC–M720
1–0640M–E0030	ELECTRICAL SINGLE LINE DIAGRAM, OVERVIEW

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

NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR TENDER AND CONSTRUCTION	2025/04/30	VE	VE
01	AS–BUILT – 1070–2019 TENDER	2023/03/17	–	VE
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	SB	KS

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DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/01/15	DATE: 2019/10/18
CONSULTANT NO.: 661472–47DD–0007	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ELMIRAN
Member
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REGISTERED PROFESSIONAL ENGINEER
2025-05-02

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
ELECTRICAL SINGLE LINE DIAGRAM
CHLORINE BUILDING
MCC–C710/MCC–C720E

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0640C–E0003	001	02	A1