



GENERAL NOTES:

1. FOR THE KIRK KEY INTERLOCK, SWITCHGEAR SGR-F70 SHALL ONLY RELEASE THE KIRK KEY WHEN THE DISCONNECT SWITCH IS IN THE OPEN POSITION. KIRK KEY WILL BE REQUIRED TO ACCESS TRANSFORMER XFMR-F1 PRIMARY (5KV) COMPARTMENT. SGR-F70 DISCONNECT SWITCH SHALL ONLY BE CAPABLE OF CLOSING WHEN KIRK KEY IS INSERTED INTO KEY LOCK. XFMR-F1 PRIMARY (5KV) COMPARTMENT SHALL ONLY RELEASE THE KIRK KEY ONCE PRIMARY DOOR IS FULLY CLOSED.

MANITOBA HYDRO SCOPE OF WORK:

1. SUPPLY SURGE ARRESTORS AND CUTOFF FUSES ON 5KV HYDRO POLE.
2. SUPPLY NEW UTILITY CABLE (C-UTIL) FROM 5KV HYDRO POLE TO SGR-F70, FUSED DISCONNECT COMPARTMENT.
3. SUPPLY NEW METER ALONG WITH METERING TRANSFORMER IN SGR-F70, METERING COMPARTMENT.

CONSTRUCTION NOTES:

- 1 PROVIDE NEW 5KV SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH. DISCONNECT SWITCH IS LOAD-BREAK RATED.
- 2 PROVIDE NEW 5KV METERING COMPARTMENT. METER AND METERING TRANSFORMERS WILL BE SUPPLIED AND INSTALLED BY MANITOBA HYDRO.
- 3 PROVIDE NEW 5KV CABLE (133% INSULATION) BELOW GRADE. PROVIDE 5/8KV INDOOR RATED, 3/C MODIFICATION KIT (BREAKOUT BOOT) COMPLETE WITH 1/C TERMINATIONS SUITABLE FOR TERMINATIONS AT SGR-F70 METERING COMPARTMENT. PROVIDE 5/8KV INDOOR RATED, 3/C MODIFICATION KIT (BREAKOUT BOOT) COMPLETE WITH LOAD-BREAK ELBOWS FOR TERMINATIONS AT TRANSFORMER XFMR-F1 PRIMARY COMPARTMENT.
- 4 PROVIDE A NEW NEUTRAL-GROUND LINK AT CUSTOMER SERVICE SWITCHGEAR SGR-F70.
- 5 RETAG EXISTING CABLE.
- 6
- 7 CONTRACTOR TO PROVIDE KIRK KEY ON EXISTING TRANSFORMER XFMR-F1 AND SGR-F70. MAKE ADJUSTMENT AS NECESSARY. SUPPLY CITY WITH KEYS.
- 8 EXISTING TRANSFORMER TO REMAIN. CONTRACTOR TO REMOVE AND REPLACE THE EXISTING TRANSFORMER DOOR WEATHERPROOF BACKING.
- 9 CONTRACTOR TO REPLACE THE METER ENCLOSURE WITH SUITABLE JUNCTION BOX AND LUGS FOR CONNECTION TO CB-MAIN. CONTRACTOR SHALL LOCATE JUNCTION BOX ACCORDINGLY TO ENSURE EXISTING CABLE FROM THE TRANSFORMER IS RE-TERMINATED AT THE JUNCTION BOX. PROVIDE NEW LAMACOID.
- 10 CONTRACTOR SHALL PROVIDE NEW 3C, 350MCM, COPPER, TECK90, 1000V CABLE FROM THE JUNCTION BOX TO THE STATION MAIN BREAKER, CB-MAIN.

LEGEND:

- NEW WORK
- NEW
- EXISTING

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

NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR ADDENDUM 02	2025/01/23	PG	VE
02	ISSUED FOR TENDER AND CONSTRUCTION	2024/12/20	PG	VE

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 DATE: 2024/07/18
 DATE: 2024/12/20
 CONSULTANT NO.: 701408

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

GALT FLOOD PUMPING STATION
 2025 TRANSFORMER REMEDIATION UPGRADES
 SINGLE LINE DIAGRAM

CITY DRAWING NUMBER: 1-0142F-E0001
 SHEET: 001
 REV: 03
 SIZE: A1