



LEGEND:
 NEW WORK
 NEW
 EXISTING

MANITOBA HYDRO SCOPE OF WORK:

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

CONSTRUCTION NOTES:

- PROVIDE NEW 5kV SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH. DISCONNECT SWITCH IS LOAD-BREAK RATED.
- PROVIDE NEW 5kV METERING COMPARTMENT. METER AND METERING TRANSFORMERS WILL BE SUPPLIED AND INSTALLED BY MANITOBA HYDRO.
- PROVIDE NEW 5kV CABLE (100% 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. PROVIDED 5/8kV INDOOR RATED, 3/C MODIFICATION KIT (BREAKOUT BOOT) COMPLETE WITH LOAD-BREAK ELBOWS FOR TERMINATIONS AT TRANSFORMER XFMR-F1 PRIMARY COMPARTMENT.
- PROVIDE A NEW NEUTRAL-GROUND LINK AT CUSTOMER SERVICE SWITCHGEAR SGR-F70.
- REPLACE EXISTING LAMACIODS.
- RETAG CABLES AS NOTED.
- CONTRACTOR TO PROVIDE KIRK KEY ON EXISTING TRANSFORMER XFMR-F1 AND SGR-F70. MAKE ADJUSTMENTS AS NECESSARY. SUPPLY CITY WITH KEYS.
- CONTRACTOR SHALL REMOVE THE EXISTING METERING CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS. CONTRACTOR SHALL PROVIDE NEW BUS BARS TO THE GAP (OR GAPS) WITHIN THE BUS BAR CONDUCTOR SYSTEM AS A RESULT OF THE TRANSFORMER REMOVALS SO THAT THE CONDUCTOR ELEMENTS ARE CONTINUOUS WITHOUT BREAK.

GENERAL NOTES:

- 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 IS 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.

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

NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR ADDENDUM 01	2026/01/26	PG	VE
02	ISSUED FOR TENDER AND CONSTRUCTION	2026/01/12	PG	VE

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DESIGNED BY: P. GILL
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 ISSUED FOR CONSTRUCTION
 BY: B. SOLOWAY
 DATE: 2024/07/18
 DATE: 2026/01/09
 CONSULTANT NO.: 701408

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

HART FLOOD PUMPING STATION
 TRANSFORMER REMEDIATION AND UPGRADES 2026
 SINGLE LINE DIAGRAM

CITY DRAWING NUMBER: 1-0144F-E0001
 SHEET: 001
 REV: 03
 SIZE: A1