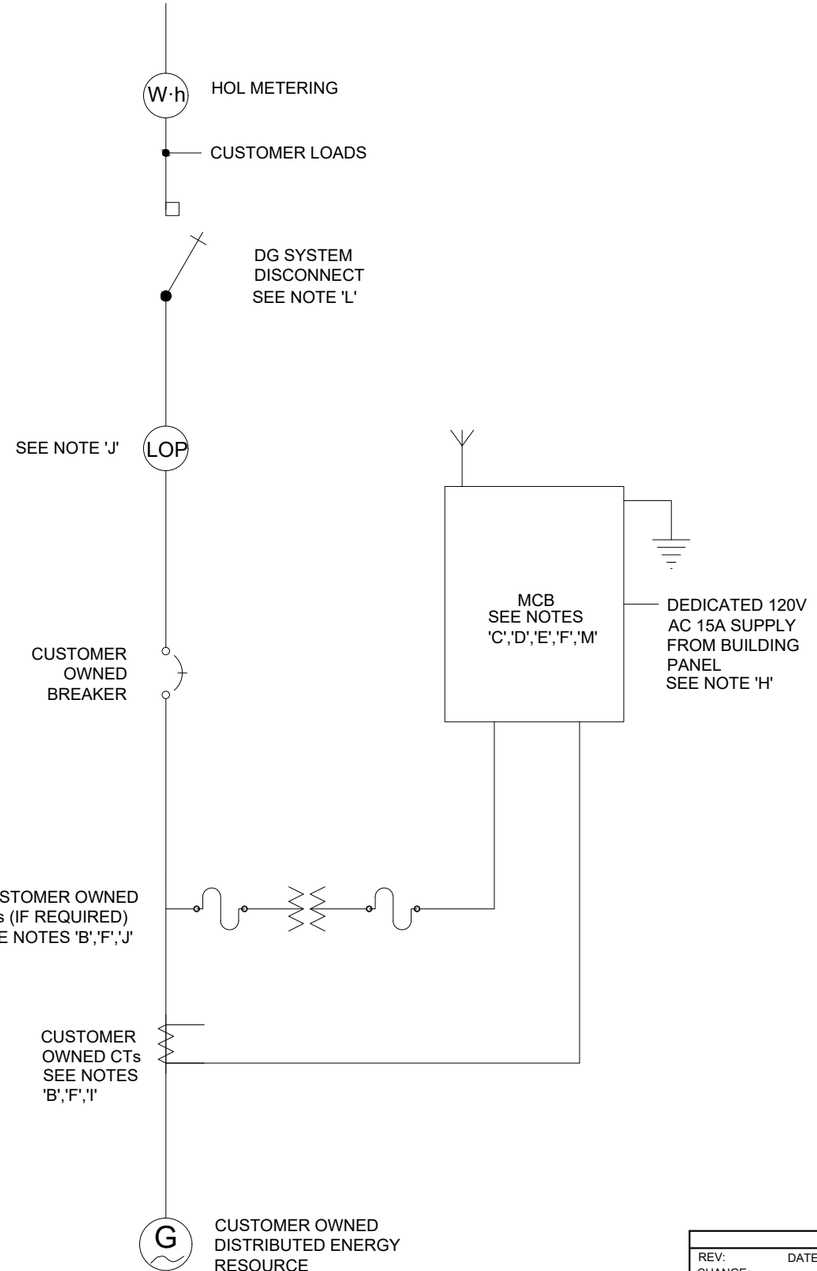

NOTES:

A. THE PROPOSED INSTALLATION SHALL COMPLY WITH HYDRO OTTAWA LIMITED (HOL) ENGINEERING STANDARDS AND THE ONTARIO ELECTRICAL SAFETY CODE.

B. ALL WIRING BETWEEN CUSTOMER EQUIPMENT AND MCB TO BE SUPPLIED AND INSTALLED BY CUSTOMER. CONNECTIONS INSIDE MCB UNIT TO BE COMPLETED BY HOL CREWS.

C. SEE GCS0048 FOR THE INSTALLATION WITH A CONTACTOR.

D. MCB ENCLOSURE SIZE TO BE 914 mm x 610 mm x 406 mm [36" H x 24" W x 16" D].

E. 1.5 METRE OF WORKING CLEARANCE IS REQUIRED IN FRONT OF THE ENCLOSURE

F. IF THE WIRING LENGTH BETWEEN THE MCB AND VT's, OR THE MCB AND CT's EXCEEDS 30m [100 ft], A LARGER WIRE SIZE MAYBE REQUIRED AND MODIFICATIONS MAY BE REQUIRED TO THE MCB, WHICH MAY RESULT IN ADDITIONAL COSTS TO THE CUSTOMER.

G. IF THERE IS AN INTERMEDIATE TRANSFORMER BETWEEN THE GENERATOR CONNECTION AND THE UTILITY SUPPLY POINT, THE LOSS OF PHASE PROTECTION (LOP) MUST BE LOCATED ON THE UTILITY SIDE OF THE TRANSFORMER. THE DG SYSTEM DISCONNECT MAY BE INSTALLED ON THE GENERATOR SIDE OF THE TRANSFORMER.

H. MCB SHALL BE CONNECTED TO A DEDICATED 15 A 120 VAC SUPPLY FROM MAIN SERVICE ENTRANCE PANEL, UPSTREAM FROM GENERATION CONNECTION.
THE SUPPLY MUST REMAIN POWERED WHILE GENERATION IS OUT OF SERVICE.

I. CUSTOMER OWNED CURRENT TRANSFORMERS ARE REQUIRED FOR CONNECTION TO MCB.

J. CUSTOMER OWNED POTENTIAL TRANSFORMERS ARE REQUIRED FOR VOLTAGES GREATER THAN 120/208 V FOR CONNECTION TO MCB.

K. CUSTOMER TO INSTALL HOL PROVIDED ANTENNA AT A LOCATION WHERE COMMUNICATION IS AVAILABLE. FIBER OPTIC COMMUNICATION IS AN OPTION, AND IS MANDATORY WHERE WIRELESS COMMUNICATION DOES NOT MEET HYDRO OTTAWA'S RELIABILITY REQUIREMENTS.

L. DG SYSTEM DISCONNECT TO MEET REQUIREMENTS OF OESC AND MUST BE LOCATED IN AN ELECTRICAL ROOM ACCESSIBLE TO HYDRO OTTAWA PERSONNEL.

M. MCB ENCLOSURE TO BE MOUNTED 1500 mm MINIMUM AND 2000 mm MAXIMUM FROM FINISHED FLOOR TO TOP OF CABINET.

N. SEE GCS0051 SHEET 2 FOR THE CONTROL SCHEMATIC.

REVISIONS	PREP	CHKD	APPD
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PREP: L.SANDHAUS
CHKD: M. SYED/R. HARRINGTON
APPD: E.DONKERSTEEG P.ENG
DATE: 2024-05-07
SCALE: N.T.S. @ ANSI B

TITLE
ENGINEERING SPECIFICATION
HOL MONITORING AND CONTROL BOX (MCB) MODEL B INSTALLATION WITH CIRCUIT BREAKER
CONSTRUCTION DETAIL

NO: GCS0051

1 OF 2

REV: 0

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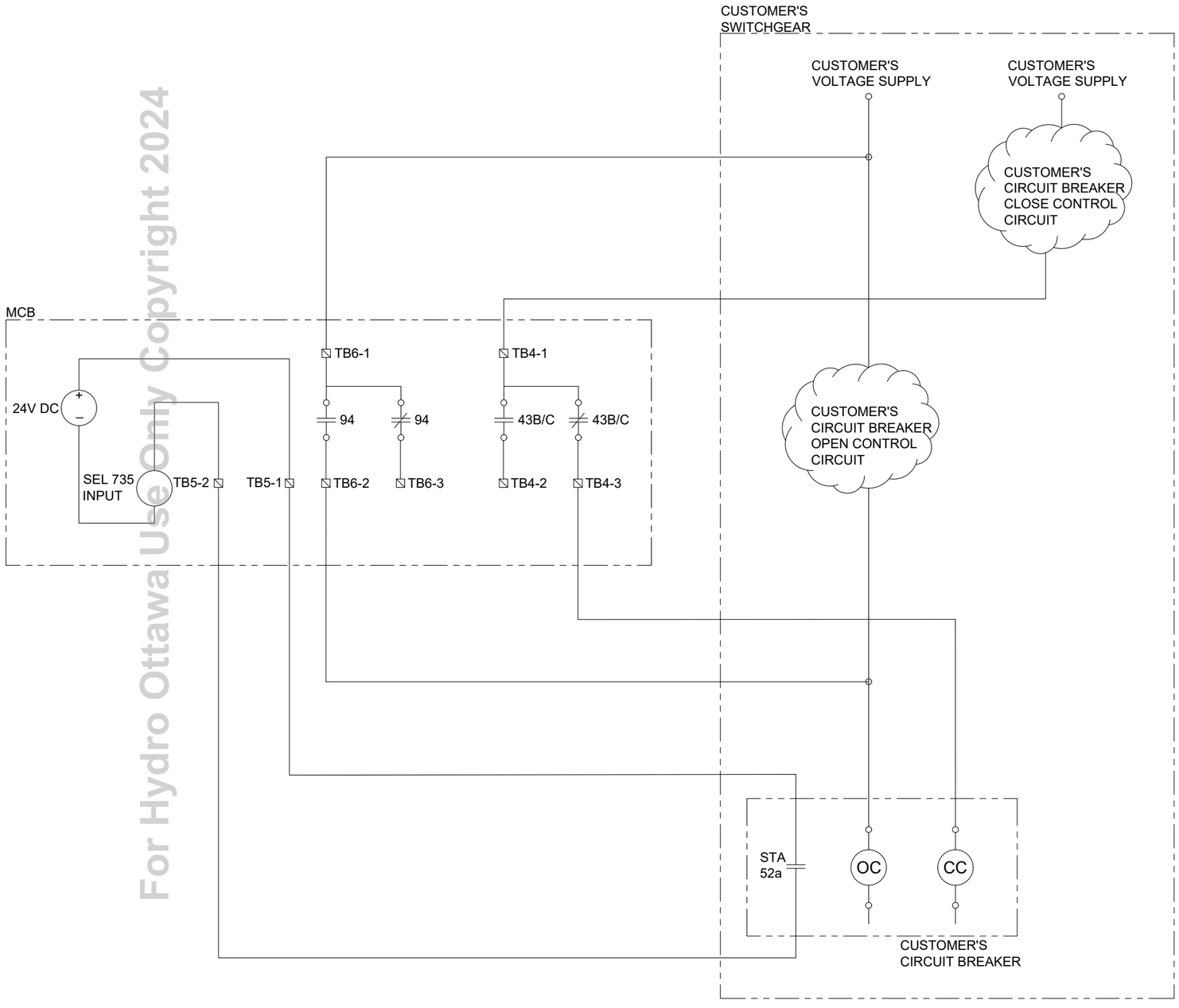
G:\4.2.3 TECH STD & MAT\01_STDS\01 HOL\G-GENERAL\C-CONSTRUCTION\GCS0051 R0-1 HOL MONITORING AND CONTROL BOX (MCB) INSTALLATION WITH CIRCUIT BREAKER FOR LESS THAN 500KW ERF.DWG



NOTES:

A. MCB CONTROL OF CUSTOMER BREAKER MUST FUNCTION AS FOLLOWS:
- ENERGIZING THE TRIPPING RELAY MUST OPEN THE BREAKER.
- RESETTING OF THE BLOCK/CLOSE RELAY MUST PERMIT THE BREAKER TO CLOSE.
- CLOSE COMMAND FOR THE BREAKER MUST COME FROM CUSTOMER CONTROL SYSTEM
- MAXIMUM CONTROL CIRCUIT RATING OF 125 V AC/DC, 10A

B. MCB MONITORING CIRCUIT OF CUSTOMER BREAKER AUXILIARY CONTACT IS 24VDC.

C. BREAKER CONTROL FOR INSTALLATIONS ≥ 200kW. SPACE FOR FUTURE ADDITION
BREAKER CONTROL FOR INSTALLATIONS < 200kW.

D. IF THE WIRING LENGTH BETWEEN THE MCB AND THE 52a CONTACT EXCEEDS 30m [100 ft], A LARGER WIRE SIZE MAY BE REQUIRED AND MODIFICATIONS MAY BE REQUIRED TO THE MCB, WHICH MAY RESULT IN ADDITIONAL COSTS TO THE CUSTOMER.

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DATE: 2024-05-07
SCALE: N.T.S. @ ANSI B

TITLE
ENGINEERING SPECIFICATION
HOL MONITORING AND CONTROL BOX (MCB) MODEL B INSTALLATION WITH CIRCUIT BREAKER
CONSTRUCTION DETAIL

NO: GCS0051 | 2 OF 2 | REV: 0

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G:\4.2.3 TECH STD & MAT\01_STDS\01 HOL\G-GENERAL\C-CONSTRUCTION\GCS0051 R0-1 HOL MONITORING AND CONTROL BOX (MCB) INSTALLATION WITH CIRCUIT BREAKER FOR LESS THAN 500KW ERF.DWG