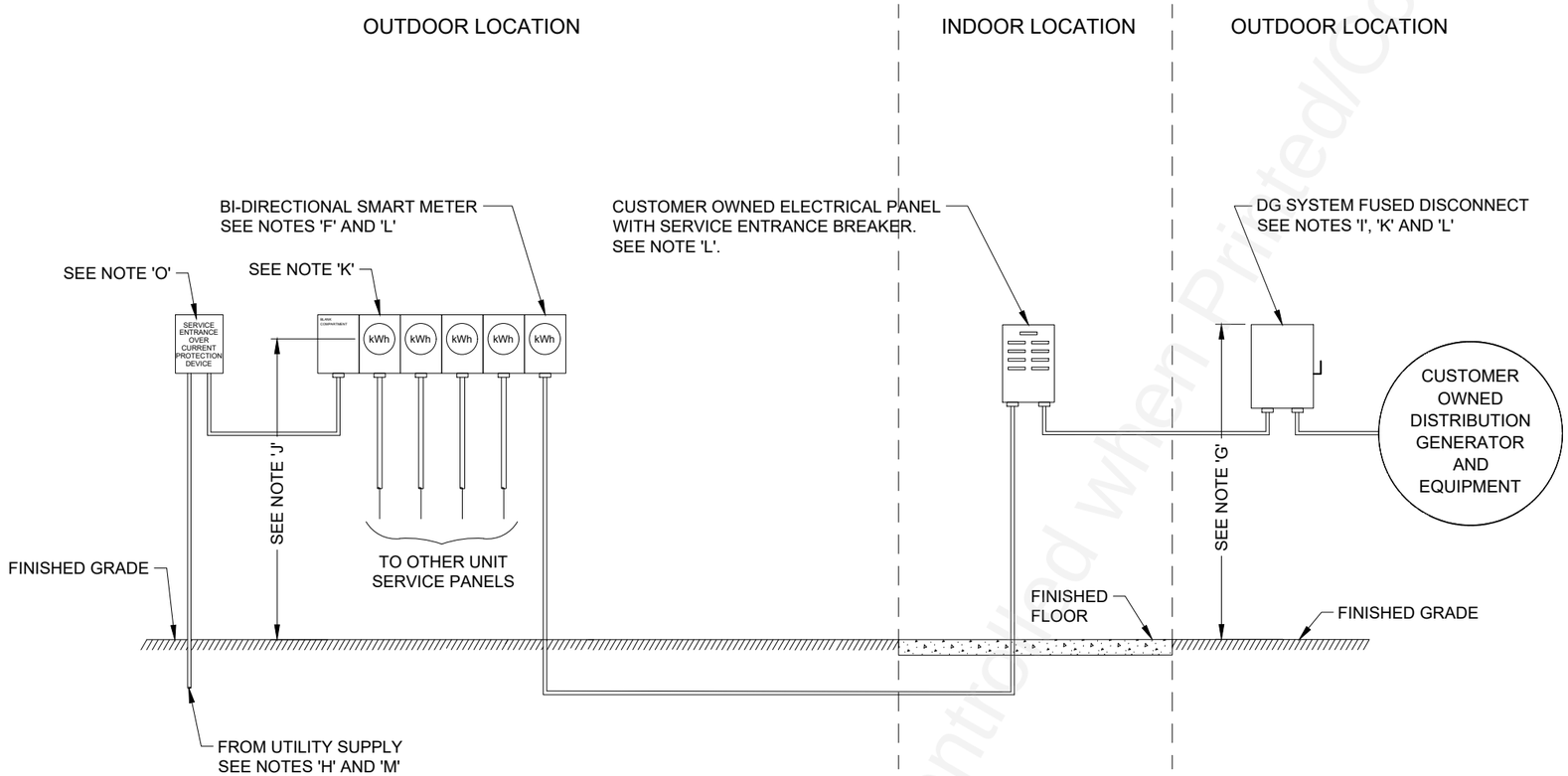

NOTES:

A. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

B. INSTALLATION OF NET METERED SERVICE SUBJECT TO HYDRO OTTAWA APPROVAL.

C. REFER TO HYDRO OTTAWA REVENUE METERING SPECIFICATION GCS0008 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

D. SINGLE LINE DIAGRAMS (SLD'S) FOR ALL DISTRIBUTED ENERGY RESOURCE'S (DER's) SHALL BE SUBMITTED TO HOL. THE SLD'S SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR ALL DER's EXCEPT FACILITIES ON SINGLE-RESIDENCE PREMISES:
   i. WHICH HAVE ≤ 10 kW OF GENERATION; AND
   ii. IN WHICH ALL GENERATION IS COVERED UNDER OESC SECTION 64 - *Renewable Energy Systems*.

E. THE PROPOSED INSTALLATION SHALL COMPLY WITH THE ONTARIO ELECTRICAL SAFETY CODE (OESC) AND IS SUBJECT TO THE ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION AND APPROVAL.

F. 120V/240V, 1-PHASE, 3-WIRE, 200A RATED BI-DIRECTIONAL SMART METER.

G. THE DG SYSTEM DISCONNECT SWITCH SHALL BE INSTALLED WITHIN THE FOLLOWING HEIGHTS ABOVE FINISHED GRADE:
   i. MINIMUM - 1200 [4']
   ii. MAXIMUM - 1800 [6']

H. OUTDOOR CONDUIT SHALL BE RIGID PVC, WITH EXPANSION COUPLING, SIZED AS APPROPRIATE.

I. DG SYSTEM DISCONNECT SWITCH RATED, INSTALLED, AND LABELED AS PER HYDRO OTTAWA REVENUE METERING SPECIFICATION GCS0008.

J. REFER TO MCS0105 AND MCS0106 FOR INSTALLATION AND MINIMUM CLEARANCE REQUIREMENTS.

K. METER SOCKET BASE AND DG SYSTEM DISCONNECT SWITCH SHALL ONLY BE INSTALLED IN AN ACCESSIBLE EXTERIOR LOCATION APPROVED BY HYDRO OTTAWA.

L. ALL METERING EQUIPMENT, INCLUDING METER BASES, DISCONNECT SWITCHES, SERVICE PANELS, AND ENCLOSURES SHALL BE CLEARLY LABELED AS PER HOL SPECIFICATION MCS0102.

M. REFER TO MCS0021 FOR UNDERGROUND CABLE INSTALLATION AND FROST-LOOP REQUIREMENTS.

N. THE CUSTOMER OR ELECTRICIAN MUST SUBMIT A DETAILED LOAD SUMMARY CONFORMING TO SECTION 8 OF THE OESC FOR EACH SUB-SERVICE. LOAD SUMMARIES ARE TO BE SUBMITTED TO HYDRO OTTAWA FOR REVIEW AND COMPLETED USING APPENDIX A OF THE CONDITIONS OF SERVICE - *LOAD SUMMARY FORM*.

O. UPSTREAM OVER CURRENT PROTECTION (COLD METER ARRANGEMENT) REQUIRED FOR SERVICES WHICH DO NOT MEET TABLE 1. THE RATING OF THE OVER CURRENT DEVICE SHALL NOT EXCEED THE MAIN SERVICE AMPACITY. THE OVER CURRENT DEVICE SHALL BE LOCKABLE IN THE CLOSED POSITION OR HOUSED IN A LOCKABLE ENCLOSURE - A SINGLE-USE PADLOCK SHALL BE PROVIDED BY HOL.

TABLE 1.

MAIN SERVICE AMPACITY	HOL RECOMMENDED METER TROUGH	SUB-SERVICE AMPACITY* PER POSITION	MAXIMUM NUMBER OF ALLOWABLE SUB-SERVICES
100A	GCS0008 TABLE 8 (1,2)	60A	2
		80A	N/A
		100A	N/A
200A	GCS0008 TABLE 8 (1,2)	60A	5
		80A	3
		100A	2
		200A	N/A
400A	GCS0008 TABLE 2	60A	5
		80A	5
		100A	5
		200A	2

*REFERS TO THE CONTINUOUS LOAD OPERATION RATING OF THE OVER CURRENT DEVICE.

REVISIONS	PREP	CHKD	APPD
REV: 3 DATE: 2020-06-18 CHANGE: MOVED DG SYSTEM FUSED DISCONNECT TO OUTDOOR LOCATION, REMOVED LOP DETECTION DEVICE, REVISED NOTE 'J', REMOVED NOTE 'P'	EV	ED/ PL	RH
REV: 4 DATE: 2025-03-13 CHANGE: UPDATED NOTES, REFERENCE TO DISCONNECT, DEPICTION OF METER-BASE, AND ADDED TABLE 1	LG	FK/ BH	MW
REV: 5 DATE: 2025-11-28 CHANGE: ADDED UPSTREAM OCP DISCONNECT, UPDATED NOTES	LG	FK/ RH	MW

HydroOttawa
WWW.HYDROOTTAWA.COM

PREP:	G. MOLNAR	
CHKD:	S. McNALLY	(E.I.T.)
APPD:	C. MALONE	P.Eng
DATE:	2014-09-03	
SCALE:	N.T.S. @ ANSI B	

TITLE
ENGINEERING SPECIFICATION
DER/RES 120V/240V, 1PH, 3W, ≤400A
LOAD DISPLACEMENT OR NET-METERING
WITH GANGED METER TROUGH
CONSTRUCTION DETAIL

NO: MCS0084

1 OF 1

REV: 5

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G:\4.2.3 TECH STD & MAT\01_STDS\01 HOL\M-METERING\C-CONSTRUCTION\MCS0084 R5 ERF-RES 120V-240V, 1PH, 3W, LT400A LOAD DISPLACEMENT OR NET-METERING WITH GANGED METER TROUGH.DWG