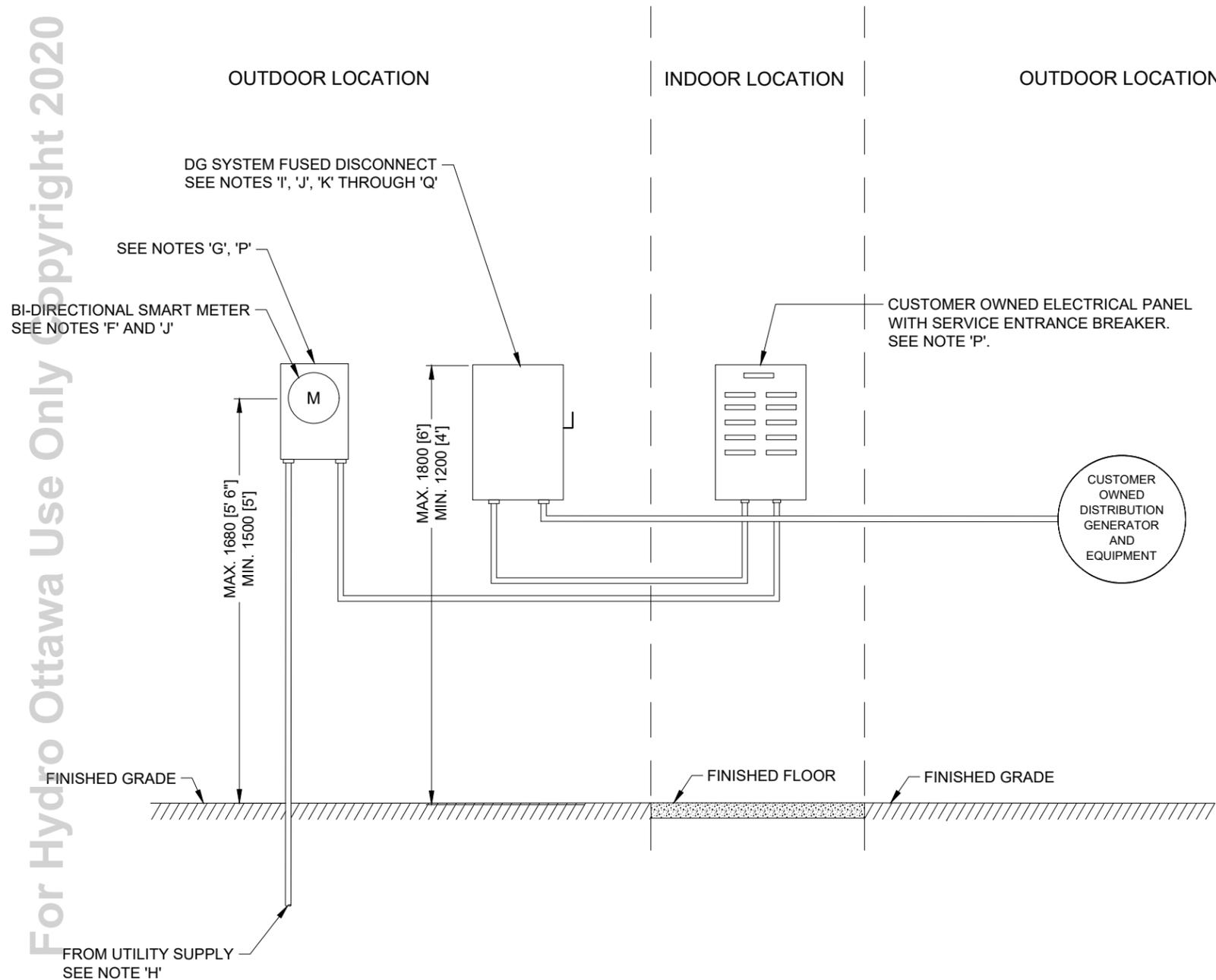


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NOTES:

- 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 ENERGY RESOURCE FACILITIES (ERF'S) SHALL BE SUBMITTED TO HOL. THE SLD'S SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR ALL ERF'S EXCEPT FOR NET-METERED 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. FOR 120V/240V, 1-PHASE, $\leq 200A$ SERVICES, ONLY USE KING-SIZE CSA APPROVED METER SOCKET BASES; REFER TO HYDRO OTTAWA REVENUE METERING SPECIFICATION GCS0008, TABLE 1A, FOR LIST OF APPROVED METER SOCKET BASES.
- H. OUTDOOR CONDUIT SHALL BE RIGID PVC, WITH EXPANSION COUPLING, SIZED AS APPROPRIATE.
- I. DG SYSTEM FUSED DISCONNECT SWITCH RATED, INSTALLED, AND LABELED AS PER HYDRO OTTAWA REVENUE METERING SPECIFICATION GCS0008.
- J. REFER TO MCS0105 & MCS0106 FOR MINIMUM CLEARANCE REQUIREMENTS IN FRONT OF METER TO CUSTOMER PROPERTY LINE AND/OR NEXT TO METER EQUIPMENT AND DG FUSED DISCONNECT SWITCH.
- K. METER SOCKET BASE AND DG SYSTEM FUSED DISCONNECT SWITCH SHALL BE INSTALLED IN AN ACCESSIBLE EXTERIOR LOCATION ONLY AND APPROVED BY HYDRO OTTAWA.
- L. CUSTOMER/CONTRACTOR RESPONSIBLE TO ATTACH A LAMACOID PLATED ELECTRICAL SINGLE LINE DIAGRAM (SLD) AT THE DG SYSTEM FUSED DISCONNECT SWITCH. THE SLD MUST BE PLAINLY AND PERMANENTLY MARKED, SHOWING THE SWITCHING ARRANGEMENTS, THE LOCATIONS OF THE DISCONNECT, AND THE TYPE AND NAMEPLATE RATING OF THE DISTRIBUTED GENERATOR.
- M. A PERMANENT LABEL INDICATING THE CURRENT AND VOLTAGE RATING OF THE INVERTER SHALL BE ATTACHED TO THE DG SYSTEM FUSED DISCONNECT.
- N. THE DG SYSTEM FUSED DISCONNECT SWITCH SHALL BE EQUIPPED WITH AT MINIMUM:
 - ii. COVER/DOOR INTERLOCK MECHANISM PREVENTING OPENING OF THE COVER WHILE THE DISCONNECT SWITCH IN THE "ON" POSITION.
 - ii. PROVISION FOR DISCONNECT HANDLE TO BE LOCKED IN THE "OFF" POSITION WITH STANDARD HYDRO OTTAWA PADLOCK.
 - iii. PADLOCKING PROVISION FOR DISCONNECT SWITCH COVER TO ALLOW FOR INSTALLATION OF TAMPER PREVENTION SEAL.
- O. THE DG SYSTEM FUSED DISCONNECT SWITCH SHALL BE INSTALLED WITHIN THE FOLLOWING MINIMUM AND MAXIMUM HEIGHTS ABOVE FINISHED GRADE:
 - i. MINIMUM - 1200 [4']
 - ii. MAXIMUM - 1800 [6']
- P. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ATTACH WARNING LABELS INDICATING "WARNING POWER FED FROM MORE THAN ONE SOURCE" MUST BE POSTED AT THE METER SOCKET BASE, CUSTOMER OWNED SERVICE PANEL, AND DG SYSTEM FUSED DISCONNECT SWITCH.
- Q. THE DG SYSTEM FUSED DISCONNECT SWITCH TO BE LOCATED OUTSIDE AND INSTALLED AT A MAXIMUM DISTANCE OF 1800 [6'] FROM THE UNDERGROUND RATED 1-PHASE, $\leq 200A$, 120V/240V METER SOCKET BASE. THE OUTDOOR MOUNTED DISCONNECT SHALL BE MINIMUM NEMA-4 AND/OR NEMA-4X RATED.

DEFINITIONS:

"DG SYSTEM FUSED DISCONNECT" MEANS AN ELECTRICAL SAFETY AUTHORITY (ESA) APPROVED DEVICE WITH FACTORY INSTALLED OVER-CURRENT PROTECTION RATED AT EITHER 100% FULL-LOAD AMPS (FLA) OR 80% OF THE AVAILABLE FAULT AMPS OF THE CUSTOMER'S GENERATION OR ENERGY STORAGE EQUIPMENT, WHICHEVER IS GREATER; MOULDED CASE BREAKERS ARE NOT ACCEPTABLE. IT SHALL PROVIDE AN OBVIOUS VISIBLE OPEN POINT. THIS DEVICE IS USED TO ISOLATE THE CUSTOMER'S DISTRIBUTED GENERATION (DG) EQUIPMENT, OR ENERGY RESOURCE FACILITY (ERF) EQUIPMENT, FROM THE UTILITY DISTRIBUTION SYSTEM.

REVISIONS		PREP	CHKD	APPD
REV: 1	DATE: 2016-02-05 CHANGE: UPDATE NOTES, UPDATE TITLE	JD	SMC	CSM
REV: 2	DATE: 2016-12-07 CHANGE: REVISED LAYOUT & NOTES.	GM	BP	CSM
REV: 3	DATE: 2020-06-18 CHANGE: REMOVED LOP DETECTION DEVICE, REVISED NOTE 'J'	EV	ED/PL	RH

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

ENGINEERING SPECIFICATION ERF/RES 120V/240V, 1PH, 3W, $\leq 200A$ LOAD DISPLACEMENT (NET-METERING) WITH SINGLE SOCKET BASE CONSTRUCTION DETAIL		NO: MCS0083	1 OF 1	REV: 3
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