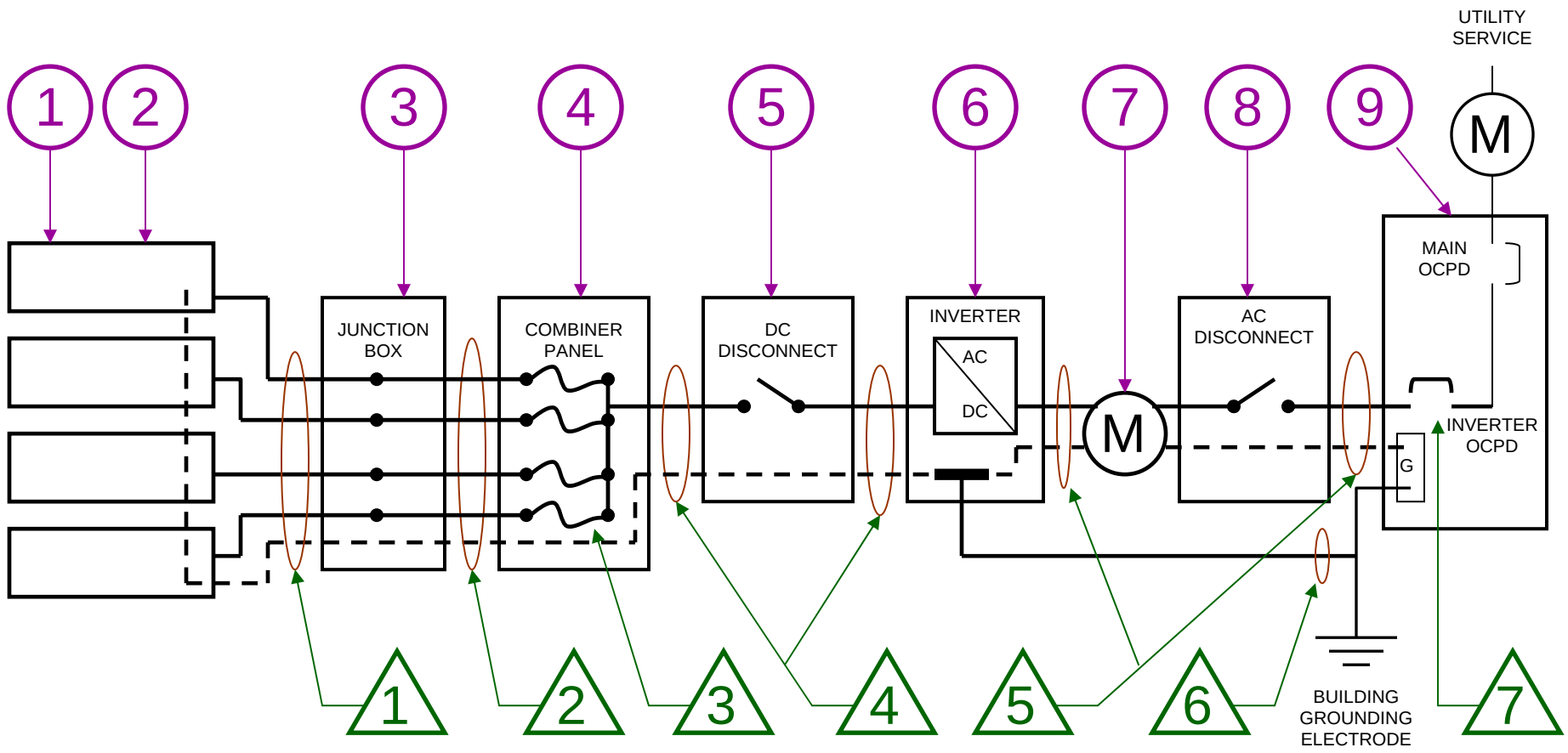
PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

SOLAR ENERGY SYSTEMS
SMALL, SINGLE INVERTER SYSTEM PLANS

Version 2014-10-18

Figure - SMALL SINGLE INVERTER SYSTEM DETAIL



Site Address _____

Prepared by _____

Email _____

Phone: _____ Date _____

○	EQUIPMENT SCHEDULE					
TAG	DESCRIPTION	MODEL NUMBER	NOTES			
1	SOLAR PV MODULE					
2	PV ARRAY		_____Module	VOC_____V	ISC_____R	
3	J-BOX (IF USED)					
4	COMBINER PANEL					
5	DC DISCONNECT					
6	DC / AC CONVERTER		_____Watts	_____Volts	Max per Branch_____	
7	GEN METER (IF USED)					
8	AC DISCONNECT (IF USED)					
9	SERVICE PANEL		_____VAC	_____A Main	_____A Bus	_____A Inverter OCPD

△	CONDUIT AND CONDUCTOR SCHEDULE				
TAG	DESCRIPTION OR CONDUCTOR TYPE	CONDUCTOR GUAGE	NUMBER OF CONDUCTORS	CONDUIT TYPE	CONDUIT SIZE
1	☐ USE-2 or ☐ PV WIRE BARE COPPER EQ. GRD. COND. (EGC)			N/A	N/A
2	☐ THWN-2 or ☐ XHHW-2 or ☐ RHW-2 INSULATED EGC				
3	ARRAY OCP_____AMPS			N/A	N/A
4	☐ THWN-2 or ☐ XHHW-2 or ☐ RHW-2 INSULATED EGC				
5	☐ THWN-2 or ☐ XHHW-2 or ☐ RHW-2 INSULATED EGC				
6	GROUNDING ELECTRODE COND.				
7	SOLAR BACK-FED OCP _____AMPS			N/A	N/A

NOTES	
1	All labels will be placed in accordance with NEC 690.
2	Additional labeling is required; see the Solar Energy Systems Plan Submission and Inspection Guidelines for details.
3	The sum of all supply breakers feeding a busbar / conductor cannot exceed 120% of the busbar / conductor rating.
4	Interconnection within the main panel shall be located at the opposite end of the main breaker.