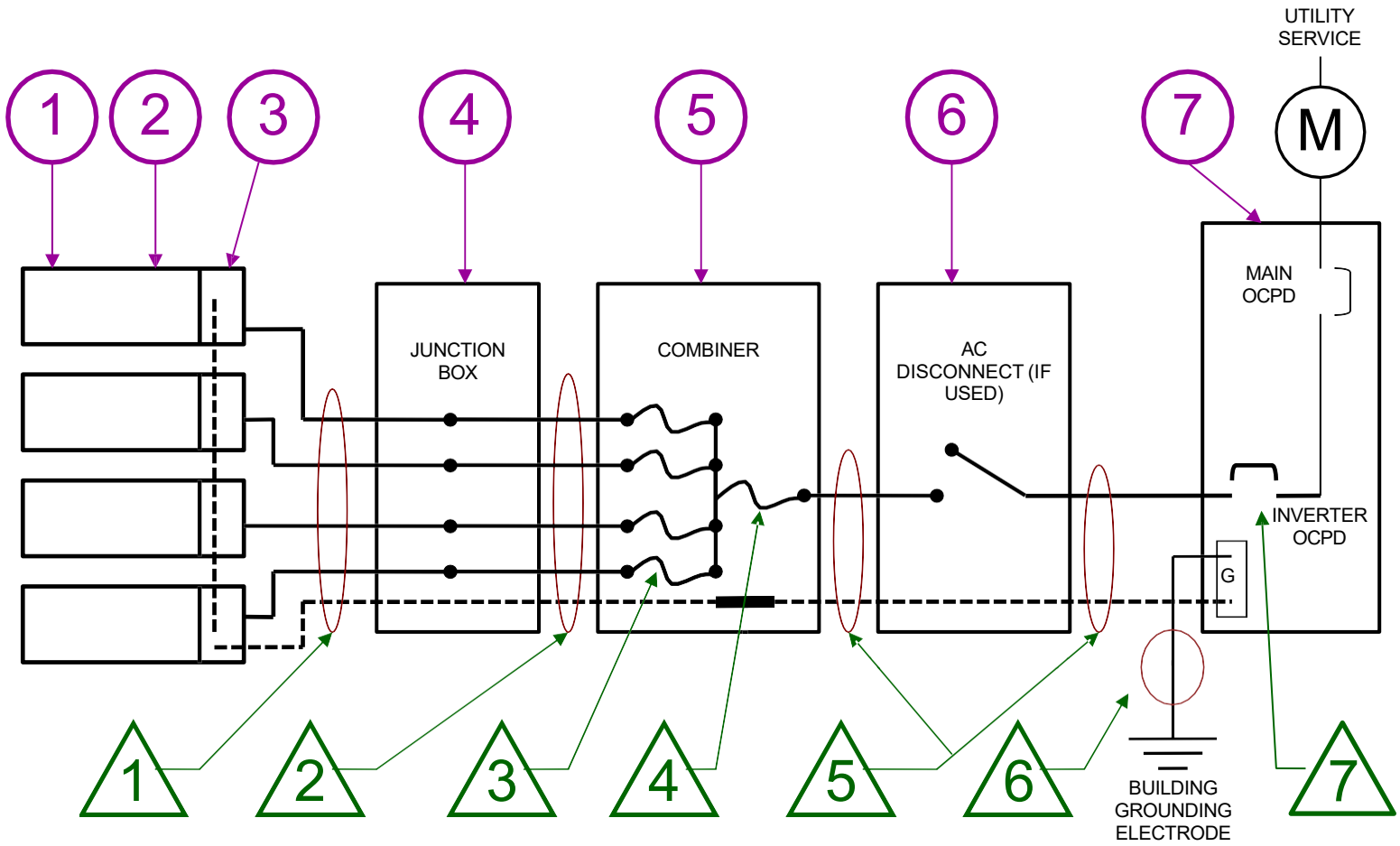
PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

SOLAR ENERGY SYSTEMS
SMALL, MICRO INVERTER / AC SYSTEM PLANS
LOAD SIDE CONNECTION

Figure - SMALL MICRO INVERTER / AC 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	MICRO INVERTER		MAX INPUT:_____VDC,_____ISC	MAX PER BRANCH_____	OUTPUT:_____VAC,_____A	
4	J-BOX (IF USED)		BRANCH 1 INVERTER COUNT___ BRANCH 2 INVERTER COUNT___ BRANCH 3 INVERTER COUNT___ BRANCH 4 INVERTER COUNT__			
5	COMBINER		BRANCH 1 INVERTER COUNT___ BRANCH 2 INVERTER COUNT___ BRANCH 3 INVERTER COUNT___ BRANCH 4 INVERTER COUNT__			
6	AC DISCONNECT		_____VAC	_____A Rated		
7	SERVICE PANEL		_____VAC	_____A Main	_____A Bus	_____A Inverter OCPD

△	CONDUIT AND CONDUCTOR SCHEDULE				
TAG	DESCRIPTION OR CONDUCTOR TYPE	CONDUCTOR GAUGE	NUMBER OF CONDUCTORS	CONDUIT/ CABLE TYPE	CONDUIT SIZE
1	Inverter Output Cable BARE COPPER EQ. GRD. COND. (EGC)	Equipment Cut Sheet 1	Equipment Cut Sheet 1	N/A	N/A
2	☐ THWN-2 or ☐ XHHW-2 or ☐ RHW-2 INSULATED EGC				
3	Branch OCPD _____AMPS			N/A	N/A
4	Combiner Output _____AMPS			N/A	N/A
5	☐ THWN-2 or ☐ XHHW-2 or ☐ RHW-2 INSULATED EGC				
6	GROUNDING ELECTRODE COND.	EXISTING	N/A	N/A	N/A
7	SOLAR BACK-FED OCP _____AMPS			N/A	N/A

NOTES	
1	All labels will be placed in accordance with NEC 690, and 705.
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.