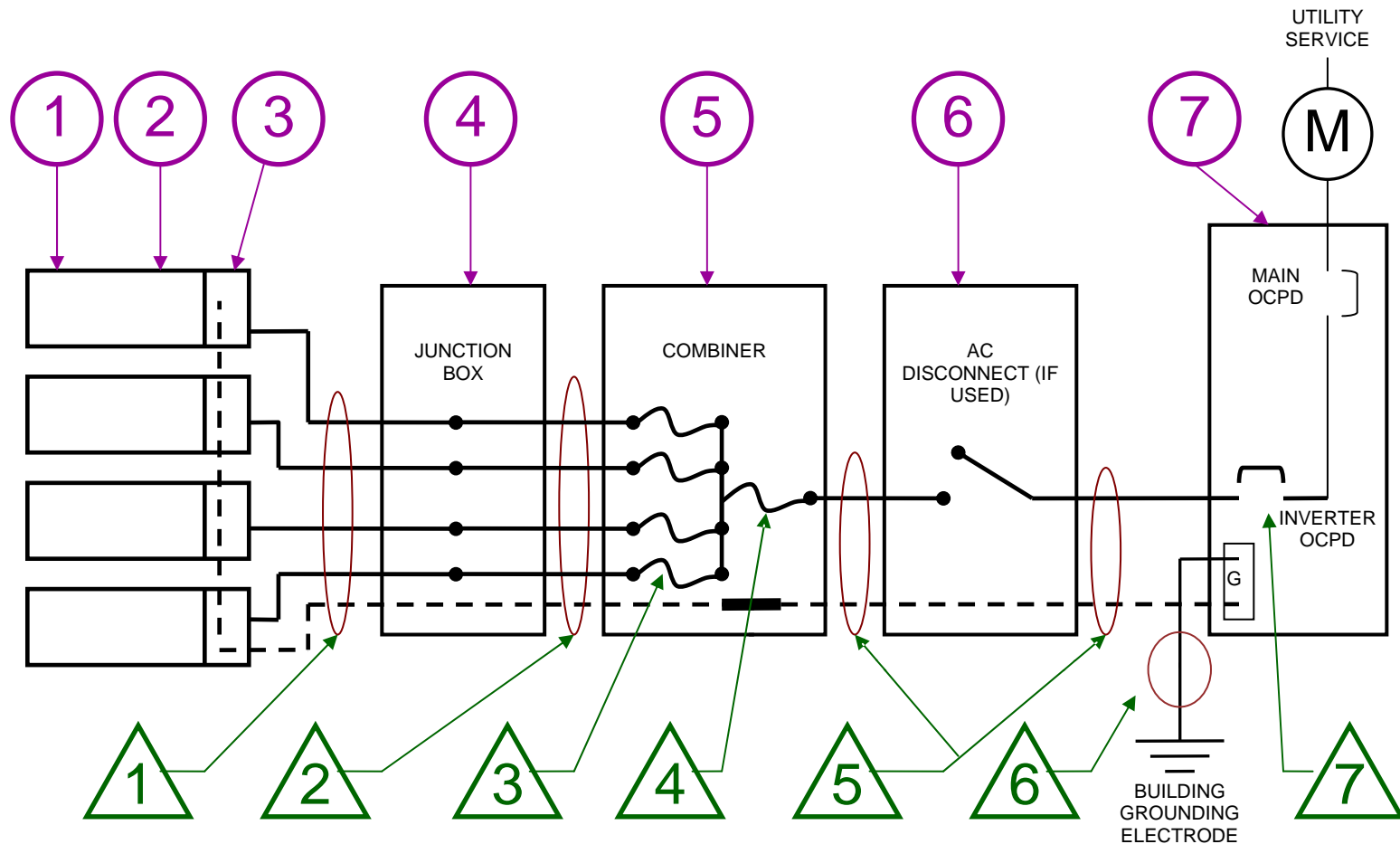




PRINCE WILLIAM COUNTY  
Department of Development Services – Building Development Division

**SOLAR ENERGY SYSTEMS**  
**SMALL, MICRO INVERTER / AC SYSTEM PLANS**

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	Equipment Cut Sheet	Equipment Cut Sheet	N/A	N/A
	BARE COPPER EQ. GRD. COND. (EGC)		1		
2	<input type="checkbox"/> THWN-2 or <input type="checkbox"/> XHHW-2 or <input type="checkbox"/> RHW-2 INSULATED EGC				
3	Branch OCPD _____ AMPS			N/A	N/A
4	Combiner Output _____ AMPS			N/A	N/A
5	<input type="checkbox"/> THWN-2 or <input type="checkbox"/> XHHW-2 or <input type="checkbox"/> 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, and 705.
2	Additional labeling is required; see the <a href="#">Solar Energy Systems Plan Submission and Inspection Guidelines</a> 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.