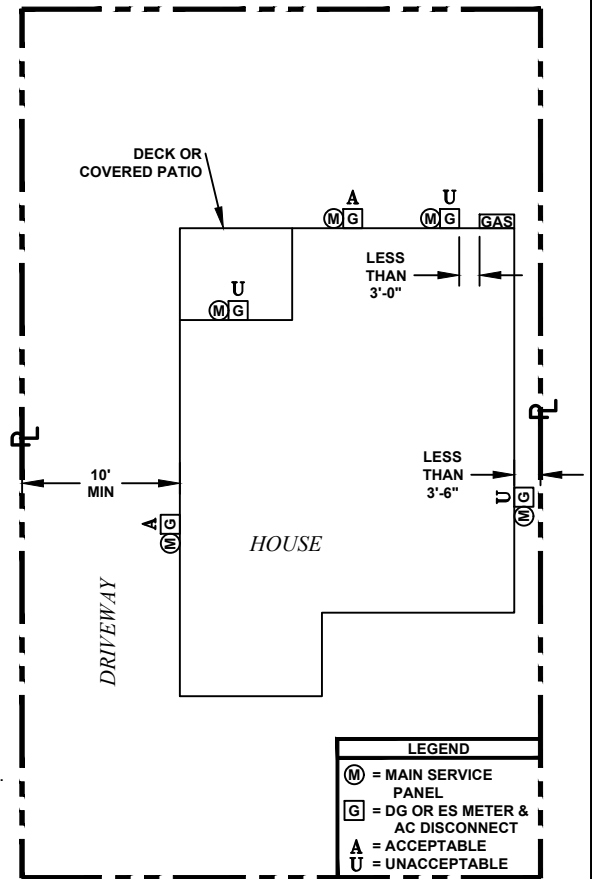
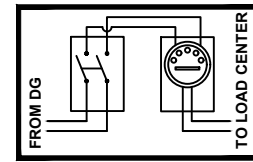


D.E.R.S.

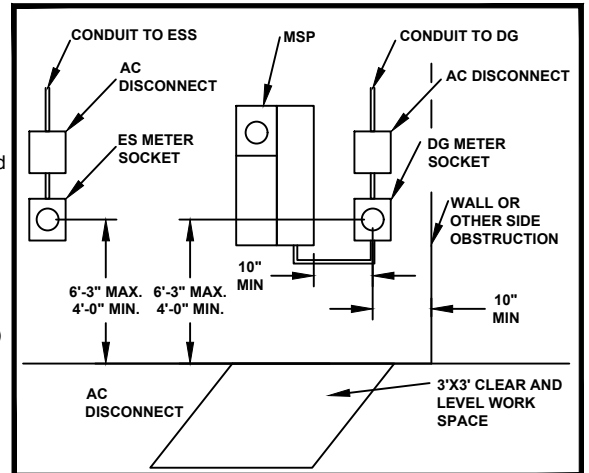
1. All Distributed Generation (DG) systems require a utility DG meter and AC disconnect.
Distributed Generation + Storage (DG+S) systems that export to the utility grid require a utility Energy Storage (ES) meter and AC disconnect.
2. Customer shall incorporate this drawing (DER-DWG-001) into the two sets of DG plans for permitting; otherwise, GWP will not approve DG plans.
3. Solar Single Line shall be drawn per the "TYP. SINGLE LINE" depicted in these requirements.
4. Contact GWP at 818-548-3921 to request a utility Service Spot drawing if:
 - 4.1. Any conditions within this requirement cannot be met.
 - 4.2. Property is commercial or multi-residential.
 - 4.3. DG circuit breaker is to be installed on a load center located inside a building.
 - 4.4. Existing Main Service Panel (MSP) has no load center.
 - 4.5. MSP will be upgraded or replaced.
 - 4.6. The DG+S design does not match GWP Drawings DER-DWG-004, -005, -006, and -007.
5. DG & ES meter sockets and AC disconnects for residential properties shall:
 - 5.1. Be installed within 10' and in line-of-sight of the MSP.
 - 5.2. Be installed in a location compliant with GWP Requirements MTR-105.
 - 5.3. Not be installed in a driveway, unless the drivable space is a minimum of 10'-0" wide.
 - 5.4. Maintain a 10" min. clearance from any side obstruction (e.g. MSP, wall, gutter, other equipment, etc.) to center-line of meter.
 - 5.5. Maintain a 3'X3' clear and level work space measured from the front face of equipment.
 - 5.6. Not be installed above objects protruding more than 6" from wall (e.g. hose bib, pipe, etc.).
6. DG & ES meter sockets shall be 120/240V, 1Ø, 3-wire, ring-type, and 4-clip.
 - 6.1. ES meter shall have permanent placard indicating "Battery Backup Meter."
7. Utility AC disconnects shall be:
 - 7.8. Installed within 24" of the DG meter socket.
 - 7.9. Installed so that the operating handle is no higher than 6'-7" from grade when the handle is in the highest position.
 - 7.10. Fused or blade-type. A viewing window is not required; unless otherwise specified by GWP.
8. Down-sizing of the Main Disconnect on the MSP or Load Center and the sizing of the generation circuit breaker is the sole jurisdiction of Building & Safety (B&S).
 - 8.1. Call 818-548-2011 to request a meter unlock (if needed, to down-size Main).
9. A 3' min. horizontal clearance is required between all electrical equipment (conduits, panels, etc.) and all gas equipment (pipes, meters, etc.).
10. If ES is installed, solar contractor is responsible for coordinating a date/time for GWP, B&S, and solar contractor to meet simultaneously at the site. Call 818-548-4830 to request a final B&S inspection and 818-548-2122 to request a functionality test from GWP.
11. GWP will install the DG and/or ES meter(s) within 7-10 working days after receiving all City inspection releases.
12. After the DG and/or ES meter(s) is installed, the customer will receive Permit to Operate (PTO) from GWP. The DER system shall not be energized until PTO is granted.
13. These requirements are not intended to be comprehensive. Refer to the GWP Electrical Service Requirements for complete requirements.



TYP. SITE PLAN



TYP. SINGLE LINE



TYP. ELEVATION PLAN

DATE	REV.	DESCRIPTION	BY	CHK'D	APP.
5/6/19	1	ADDED LINE ITEM #10	CC	VG	DH



REV. NO. 2
DATE 10/17/18
DRAWN BY: CC
APPROVED: DH

CITY OF GLENDALE WATER AND POWER

DISTRIBUTED ENERGY RESOURCES
SPECIFICATIONS (DERS) – RESIDENTIAL

DER-DWG-001
PAGE 1 of 1

CUSTOMER SERVICE ENGINEERING