



A message from Technical Standards



CitiPower/Powercor Technical Standards Update for April 2019

Please ensure that this information is passed on to all employees and contractors with in your organisation.

The following updates are relevant to all technical, field employees and contractors undertaking design, construction and maintenance activities on the CitiPower and Powercor networks.

Technical Standards are available on our [website](#).

All new design and construction proposals commenced after the **07 June 2019** are required to comply with these updates.

If you have further questions, please contact the relevant team member associated with the published documents.

Standard Category	Technical Standard	Description	Overview	Impacted Key Stakeholder/s
D - General	DS101	Distribution Construction Standard - Signage and Labelling	Standards updated to include new alternative solutions to the use of surface logs. Contact: Madhuka Ganegoda - (03) 9683 4267	DESIGN CONSTRUCTION MAINTENANCE
	DS901-999	Distribution Material Standard - Signage and Labelling		

<i>Standard Category</i>	<i>Technical Standard</i>	<i>Description</i>	<i>Overview</i>	<i>Impacted Key Stakeholder/s</i>
E - Overhead	EB021	Distribution Construction Standard - Poles - Footing Strength	Refer above	Refer above
	EB031	Distribution Construction Standard - Poles - Setting Depth		
	EB401	Distribution Construction Standard - Pole Assembly - Wood		
	EB406	Distribution Construction Standard - Pole Assembly - Concrete		
	EB436	Distribution Construction Standard - Pole Assembly - Footing for Substation Poles		
G - Underground	GH001	Distribution Construction Standard - Hybrid Underground - General Information	Standard updated to include a new SWER U/G ACR and ACR OCO pole top structures (drawings GH401-404). Contact: Anthony James - (03) 9297 6712	DESIGN CONSTRUCTION MAINTENANCE
				<u>LEGEND</u> HIGH IMPACT MEDIUM IMPACT LOW IMPACT

EB series & DS series – Poles – Footing Strength

Surface log review and an alternative deeper footing option

Key changes

Release date: 07th May 2019

**Please refer to official standard for details*

- The EB standards series has been updated to provide an alternative to the use of surface logs in situations where it becomes impractical to use them, such as:
 - Installation in hard soil where there is already good bearing capacity
 - Installation in areas where there are a lot of other assets already in the ground (i.e. U/G cables)
- To overcome these issues the standards have been updated to:
 - Introduce a deeper footing option with an additional 300mm depth, as an alternative to using a surface log
 - Provide designers with the option to exclude the use of surface logs in hard soil conditions and use an alternative concrete footing
- Standards DS101 and DS977 have also been updated to introduce new signage which indicates deeper footings

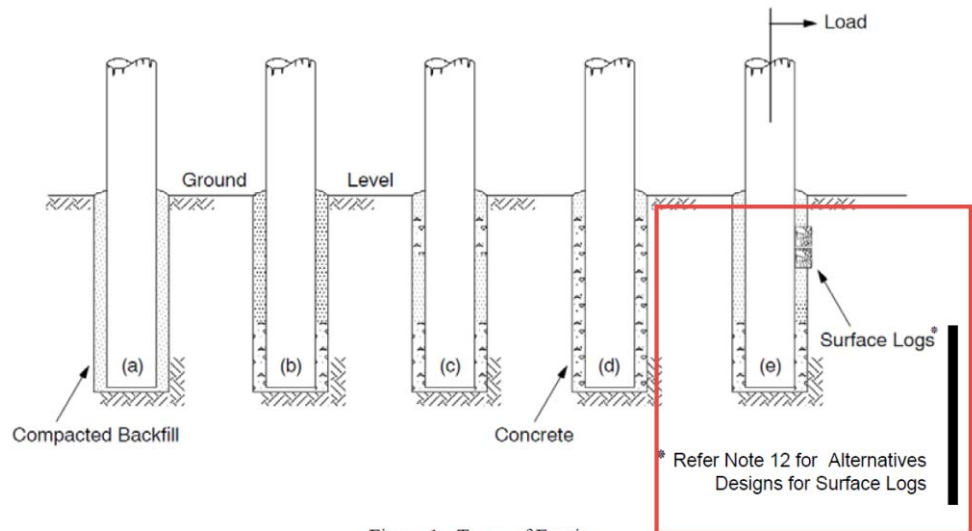


Figure 1 - Types of Footing



New deeper footing signage DS977

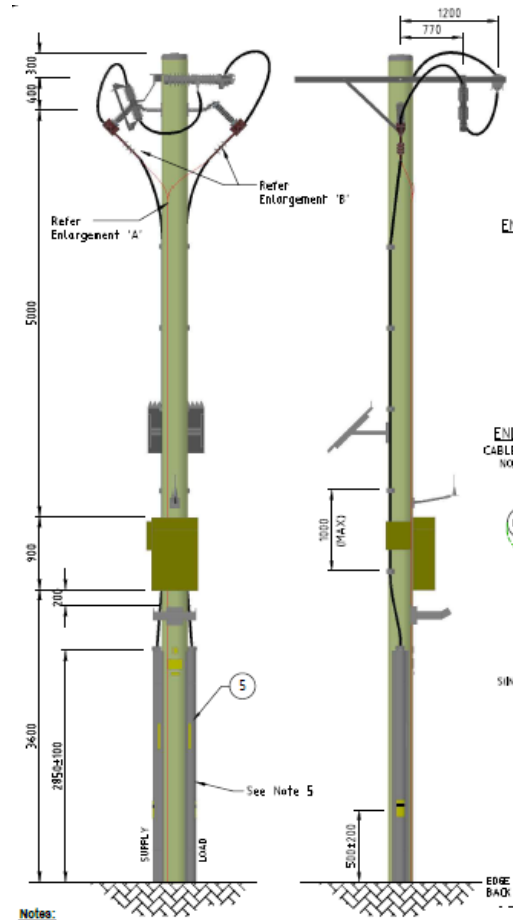
GH001 - Hybrid Underground Standards

Key changes*

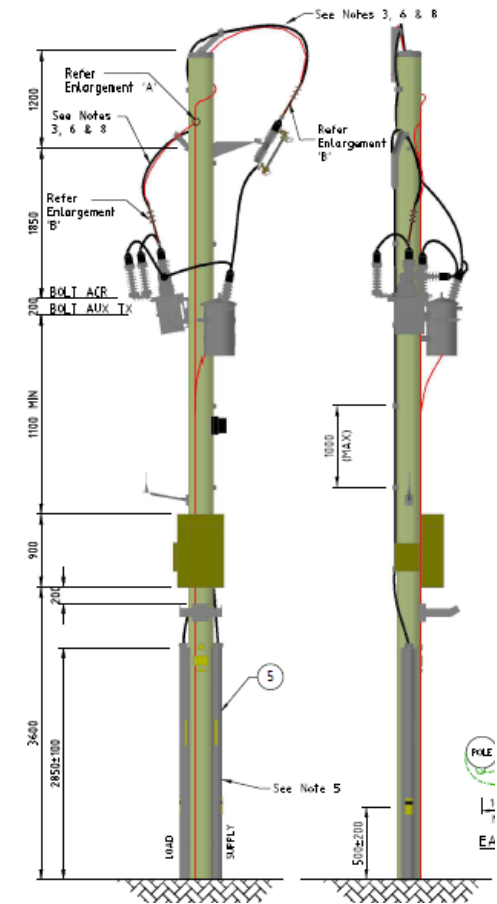
Release Date: 07th May 2019

**Please refer to official standard for details*

- Standard GH001 has been updated to include new SWER hybrid U/G ACR and ACR-OCO pole top structures
- The new arrangements have been created to meet the Bushfire Mitigation Regulations that require all SWER systems to have auto-circuit reclosers (ACRs) installed to rapidly clear faults to minimize the possibility of fires, injury, and property damage
- Two new SWER hybrid U/G ACR structures have been developed, one arrangement uses a Schneider W27 ACR and the other arrangement uses a Siemens Fusesaver ACR OCO
- Both options can be used dependent on the system and site conditions (i.e. adequate line current)
- The functionality, set up and operation of both ACRs has not changed from their current use on the overhead SWER network
- Both arrangements have full communications to the control room via SCADA



ACR – OCO (Fusesaver) arrangement



W27 ACR (Schneider) arrangement