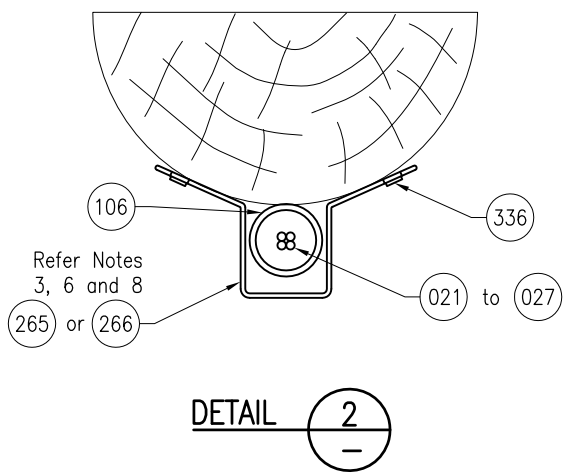
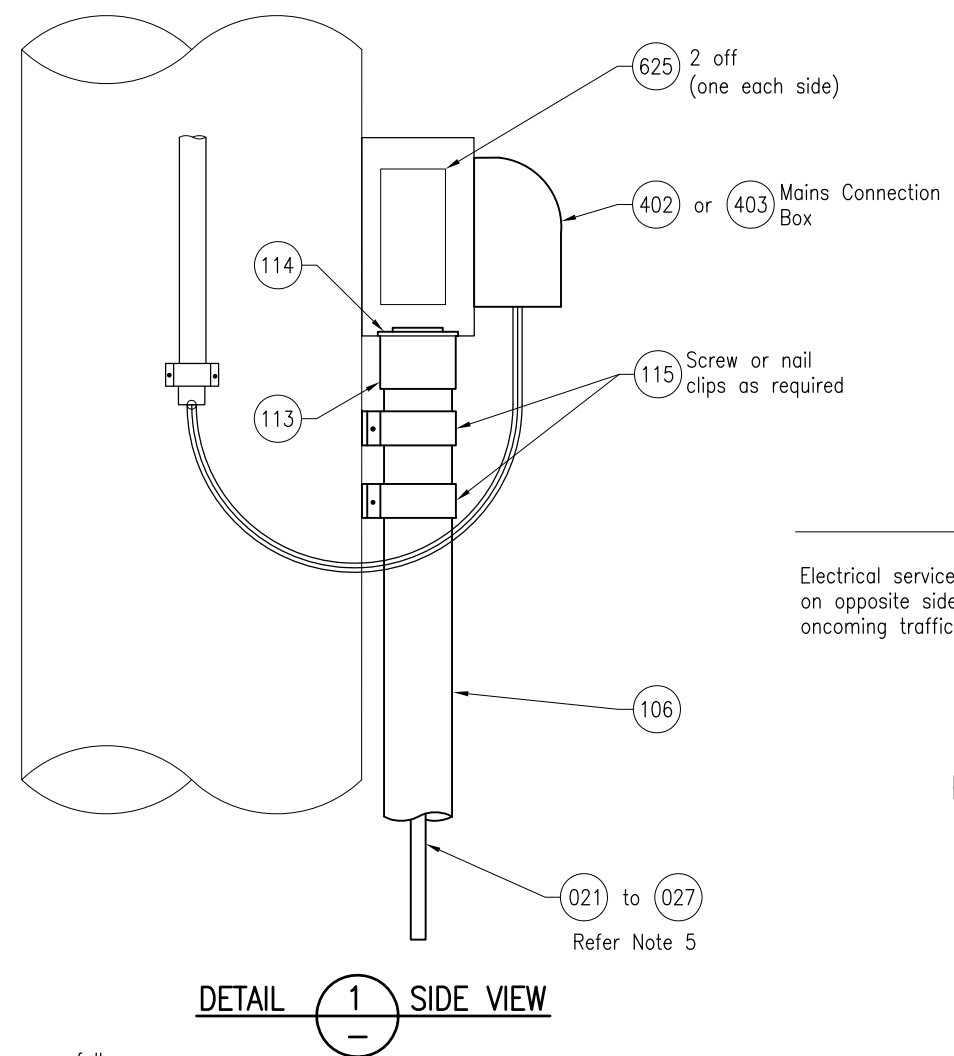


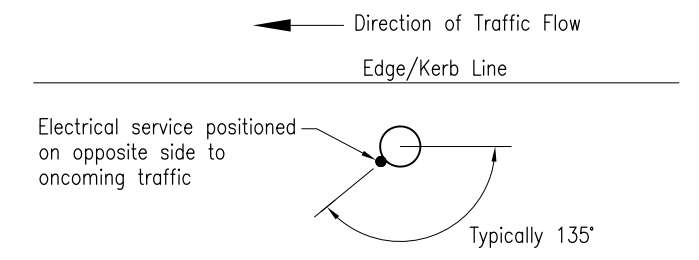
ELEVATION



DETAIL 2



DETAIL 1 SIDE VIEW



POSITION OF SERVICE

NOTES:

1. Electricity Entity responsibilities in providing the service are as follows:
 - (a) To supply, install and maintain a primary fused service to the Department's mains connection box.
 - (b) To test polarity of the point of supply and to connect Electricity Entity service to installation.
2. Electrical Contractors responsibilities are as follows:
 - (a) To make application for installation of mains supply to Electricity Entity.
 - (b) To carry out installation work in accordance with AS/NZS 3000.
 - (c) To submit "Ready for Connection" form to Electricity Entity.
 - (d) To submit to the Electricity Entity a disconnection notice when the supply is no longer required.
 - (e) To submit to the Electricity Entity an approved schedule of loading or change of load.
 - (f) To supply and install property pole (if required).
 - (g) Submit to the Department a record of tests.
3. Galvanised Cable Guard to be as per Standard Drawing 1434 or an equivalent polymeric guard approved by the local Electricity Entity.
4. Circular pit shall be used.
5. Refer project specific drawing for size of consumer mains.

6. Earthing requirements for the galvanised metal cable guard (if applicable) are as follows:
 - (a) Pole nails or nail fastenings must not be connected to, or contact any earth downleads.
 - (b) L.V. Cable Guard on Pole. No other metal work. Provided the L.V. cable is double insulated and inside conduit within the cable guard, there is no requirement to earth the cable guard to the COMMON MEN (CMEN) system. If doubt exists regarding the type of cable insulation, the guard shall be connected to the CMEN system.
 - (c) L.V. Cable Guard and other metal work on Pole. Connect Cable Guard and other metal work to CMEN System.
 - (d) Both L.V. and H.V. Cable Guards on Pole and other Metal Work. CMEN System. Both cable guard and other metal work shall be connected together and also connected to the CMEN system. The CMEN connection shall be made on the downlead to the butt earth.
 - (e) Both L.V. and H.V. Cable Guards on Pole and other metal work. Separate earth system for H.V. and L.V. equipment. (No CMEN system). Both cable guards and other metal work shall be connected together and also connected to the L.V. neutral downlead to the butt earth of the L.V. system. The H.V. cable shall have an insulated outer sheath, or if jute covered, it shall be housed in split conduit inside the guard. The H.V. earth conductor must never contact any part of the L.V. earth system or metal work at ground level.
 - (f) Overhead earthwire downleads. The overhead earthwire downlead must not connect to, or contact H.V. earthed equipment (e.g. surge arresters) or any equipment connected to the L.V. earthing system. Where there is no requirement for H.V. or L.V. earths at the pole, the OHEW downlead is butt earthed. Otherwise, the OHEW downlead is to be earthed by an electrode driven at least 4 meters from the pole. The L.V. earthing system has priority in the use of the butt earth. In situations where a separate H.V., L.V. and OHEW earthing system is required and all three systems cannot be accommodated, the OHEW downlead and earth electrode may be omitted at the pole provided the adjacent poles have an OHEW earthing system installed.
7. For installation details refer to Standard Drawing 1149.
8. Part 266 is not to be used in the areas subject to grass fires.
9. Dimensions are in millimetres unless shown otherwise.
10. The distance from the Entity pole shall be:
 - (a) Minimum distance:
 - i. For a pole with Entity earth leads or cables running down into the ground, without prior approval of the Electrical Entity, is 5m (horizontal distance).
 - ii. Otherwise minimum distance from pole = depth of pit + bedding (excavation depth). Refer to: Electricity Entity requirements "Do Not Disturb Zone requirements when excavating near poles".
 - (b) Maximum distance from pole, unless directed otherwise by Entity as in 10.a.(i) above, is 2m.

ASSOCIATED DEPARTMENTAL DOCUMENTS:

Standard Drawings
Specifications

REFERENCED DOCUMENTS:

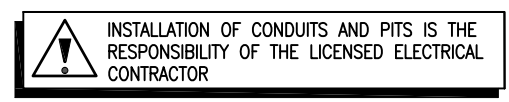
Departmental Standard Drawings:
1149 Traffic Signals/Road Lighting/ITS – Installation of Underground Electrical and Communications Conduit
1434 Traffic Signals/Road Lighting – Cable Guard Manufacturing Details
1699 Traffic Signals/Road Lighting/ITS – Parts List

Departmental Specifications:

MRTS91 Conduits and Pits
MRTS228 Electrical Switchboards
MRTS256 Power Cables

Australian Standards:

AS/NZS 2053 Conduits and fittings for electrical installations
AS/NZS 3000 Electrical Installations (Wiring Rules)



Department of Transport and Main Roads		 <small>© The State of Queensland (Department of Transport and Main Roads) 2020 https://creativecommons.org/licenses/by/3.0/au </small>	
TRAFFIC SIGNALS/ROAD LIGHTING			
MAINS CONNECTIONS		A3 Not to Scale	Standard Drawing No 1327 Date 7/2020