



Notes

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- All dimensions in millimeters.
 - The specification referred to in this drawing is the *Specification for Highway Works (SHW)* published by T.S.O. (The Stationery Office).
 - A representative of The Highland Council's Lighting Section will be present on site during construction. All electrical connections to be carried out by a Highland Council Street Lighting Section Electrician.
 - BS 7671 Regulations 541, 542, BS 7430 and optionally BS EN 62305 apply, the HSE HSG47 Guidance Note 'Avoiding danger from underground services' shall apply.
 - Earth rod to be installed as close as possible to the roadside equipment to a maximum distance of 1m unless otherwise agreed with The Highland Council's Lighting Section.
 - Larger diameter rods to be used where ground conditions are diverse or compacted. Where resistance readings are higher than required value an additional rod may be required.
 - Marconite or similar conductive concrete to be used for a minimum of the first 600mm plantings depth where resistance readings are higher than required value, unless otherwise agreed with The Highland Council Street Lighting Section.
 - Minimum buried depth of duct to be 500mm, duct to terminate in the base of the lighting column or cabinet of feeder pillar as standard. Backfill around PVC conductor to be Type 1 sub-base material to SHW Clause 803. Duct to include drain hole at lowest point as required.
 - Suitable arrangement provided to allow the earth conductor to be disconnected for test as BS 7671 regulation 542.
 - Rod to cable clamp in accordance with BS 7671 Regulation 542. To be coated with suitable inhibitor such as denso tape, grease or equivalent.
 - Final circuits of 3 or more lighting columns to have an earth rod at the last or penultimate position unless otherwise agreed with The Highland Council.
 - Earth bonding connection within roadside equipment to be labeled in accordance with BS 7671 Regulation 514.
 - The PVC insulated earth conductor to be sized in accordance with BS 7671.
 - The earth conductor PVC insulation colour to be green/yellow. The earth conductor shall be suitably protected from corrosion and damage.

Revision Details	Drawn by	Checked by	Check Date	SubP



Project: Standard details. Series 1400:
 Electrical work for road lighting and traffic signs

Title: Earth electrode installation in footway and verge

Scale (at A4): Not to scale

Drawn	JC	Date	05/2024
Checked	CHK	Date	06/2024

Drawing No: SD/1400/06 Rev: 1