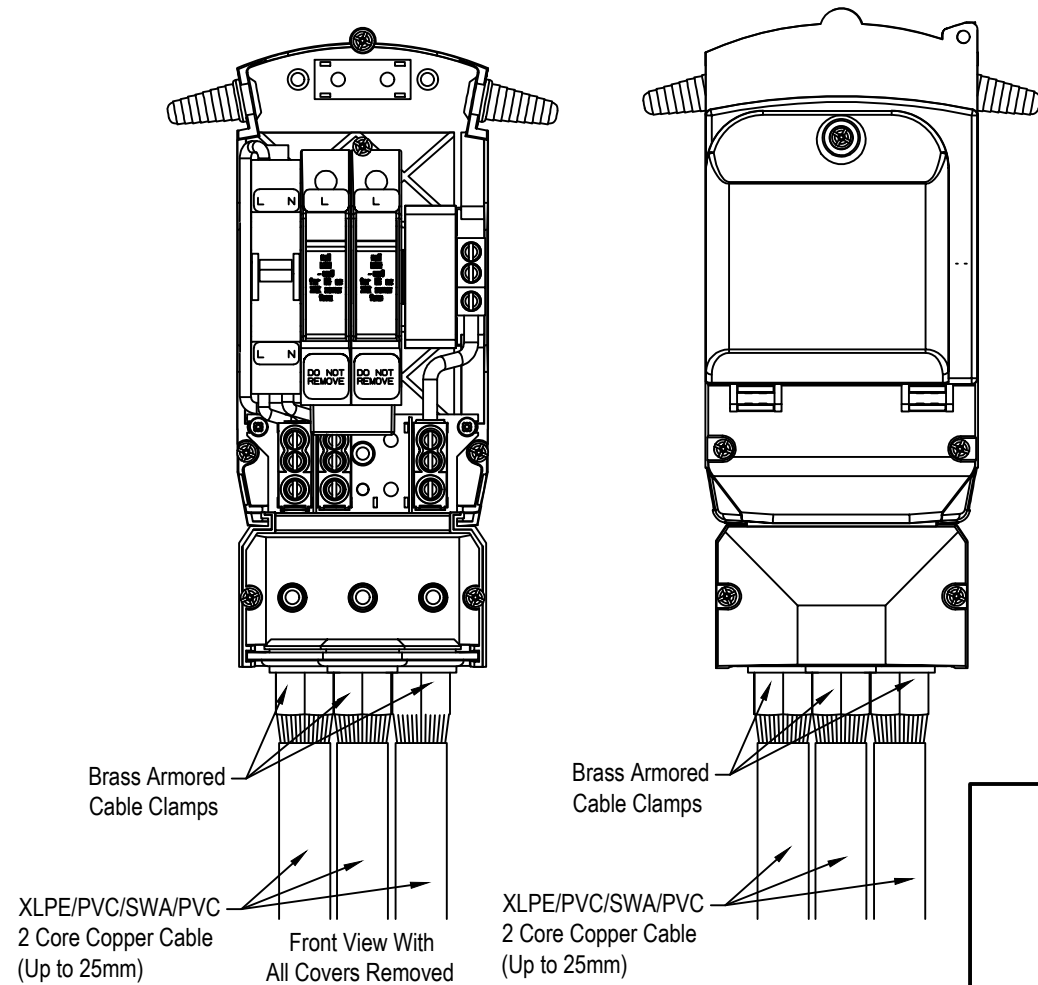
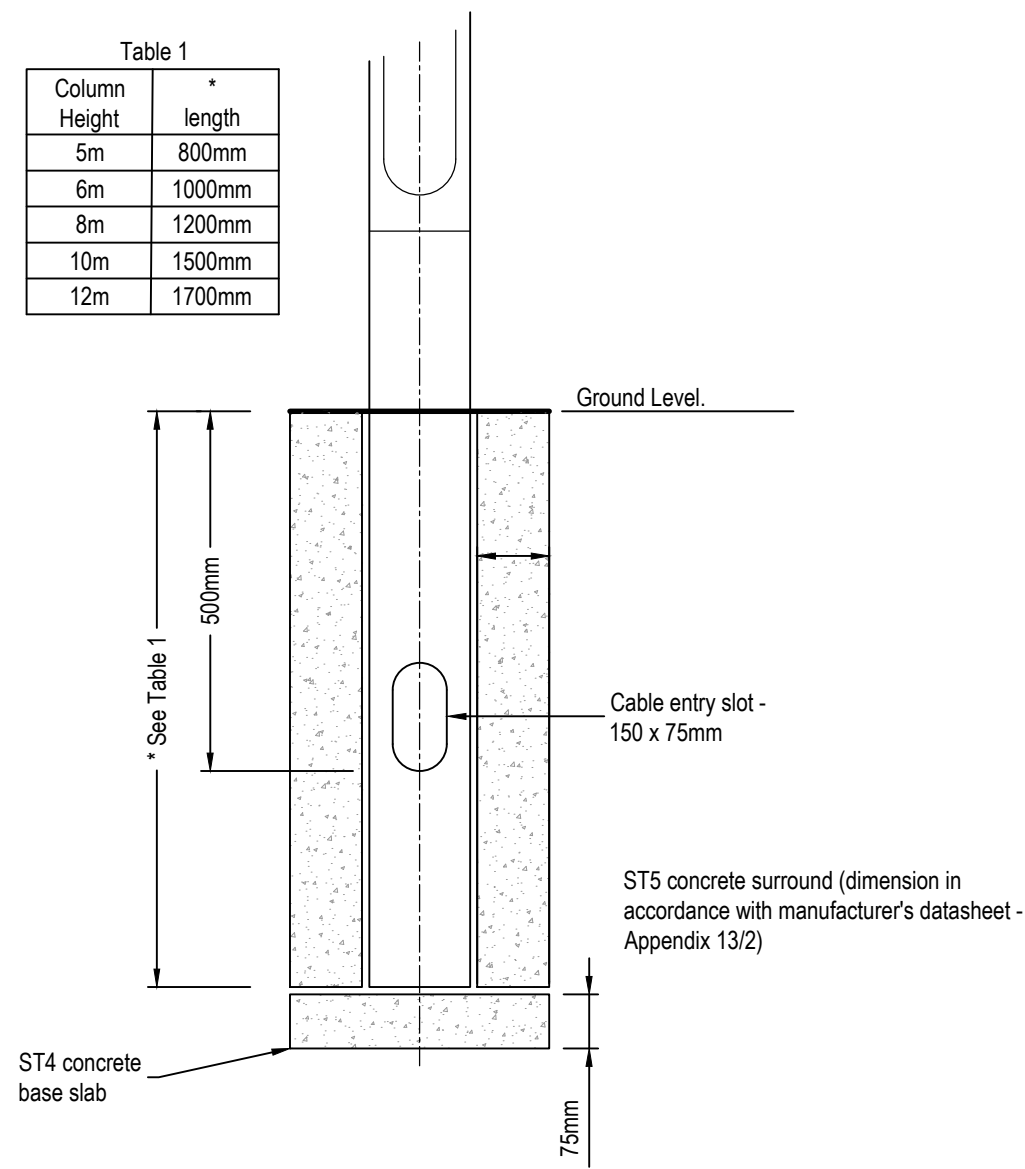


Notes

- The street lighting design layout meets the requirements of BS5489-1:2013 and BS EN 13201-2:2003, Class P4 for residential roads as varied by an S/P ratio of 1.50.
- The street lighting installation must comply fully with Neath Port Talbot CBC specification for road lighting and the Manual of Contract Documents for Highway Works (MCHW).
- All lighting columns shall be provided with a direct unmetred WPD 230V ac 50Hz PME supply. The Contractor shall liaise with WPD to arrange the service connections and determine the proposed ducting routes and trenching required to accommodate the service cables. Ducting shall be black in colour.
- Lighting columns shall be of galvanised steel construction complete with a Chiltern bracket, to Neath Port Talbot specification. The G2A paint system shall be applied at the column manufacturers works, with the exception of the top gloss coat (black in colour to match existing columns) which shall be site applied. Columns shall be installed in accordance with the manufacturer's instructions, taking account of local soil conditions and wind factor.
- Lighting columns shall be numbered with the Charles Endirect Ltd 'Enplate' system. The plates shall be attached to the columns with stainless steel banding and face oncoming traffic at a height of 2.4m above the verge or footway. The identification numbers shall be obtained from Neath Port Talbot CBC Lighting with exception of column 10 which will remain private.
- Lighting columns shall be fabricated and installed such that when the door is accessed, the operative will face oncoming traffic.
- Lighting column shall be installed with a secondary double pole isolator as manufactured by Charles Endirect Ltd (L2/SFE/A2) complete with integral SPD and 10mm² PVC/PVC tails to connect to the WPD cutout installed in the column base compartment.
- All electrical equipment shall be secured to the column base compartment backboard with brass round headed wood screws. Cables shall be terminated with Type BW cable glands secured to the cutout glandplate with brass locknuts and shrouded with PVC sleeves.
- The phase and neutral wiring between the cutout and luminaire shall be 3 core flexible "Blue Arctic Grade" 2.5 mm PVC/PVC cable with copper conductors.
- The main protective conductor between the cutout glandplate and the column main earthing terminal shall be 10 mm² PVC insulated cable with copper conductors complying with BS 6004:2012 Table 3 Ref 6181Y.
- Lighting columns shall be installed at the back of footway or with a minimum of 800mm lateral clearance from the face of column to the edge of carriageway when installed in verge. Where there is no footway or highway verge present columns shall be installed in an adoptable 1m x 1m parcel of land behind the shared surface, constructed to match the shared surface material. If this cannot be achieved the columns shall be physically protected from vehicle collision. All locations to be agreed with the supervising engineer before installation.
- The installation shall be installed, tested and commissioned in accordance with BS7671 "Requirements For Electrical Installations - IET Wiring Regulations (18th edition) with appropriate test certificates issued to the Project Engineer on completion of the Works.
- This drawing shall be used solely for the purpose described in the drawing title, as other details may be inaccurate.

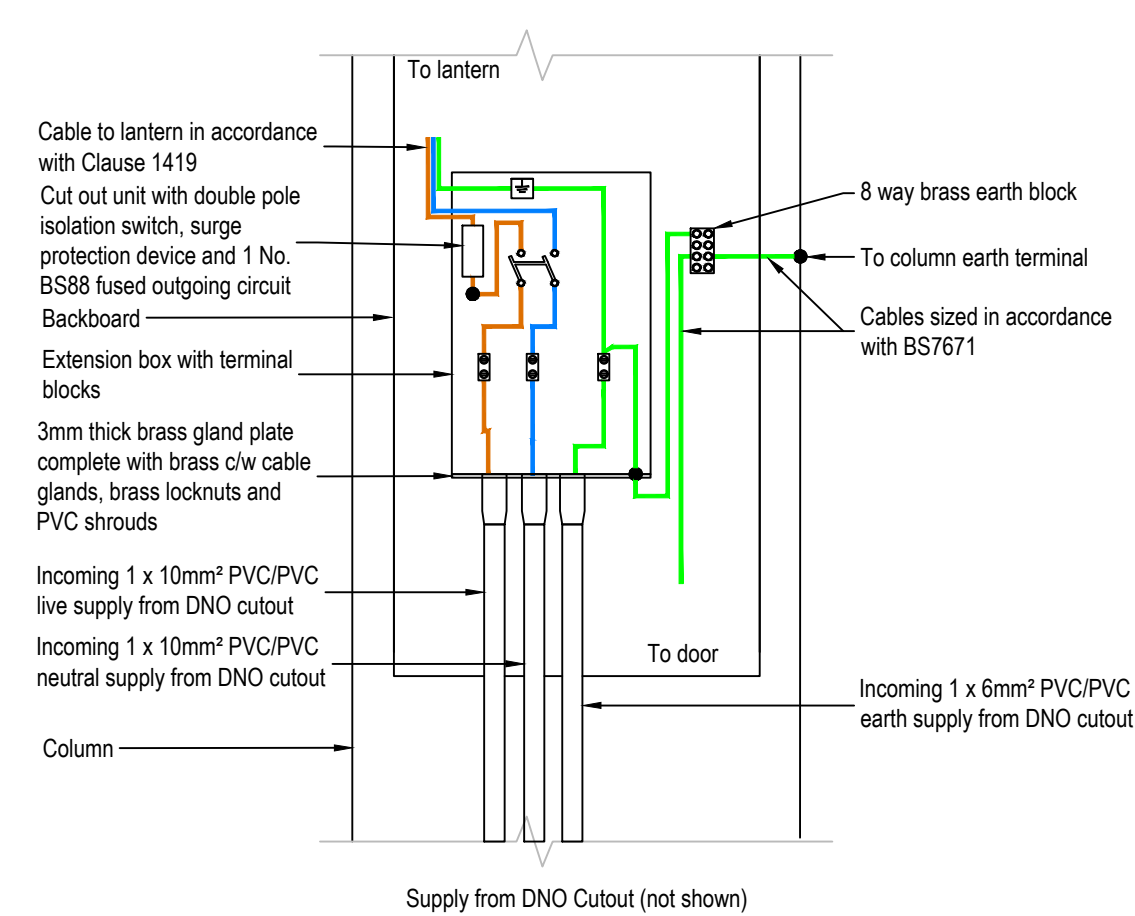
Table 1	
Column Height	Length
5m	800mm
6m	1000mm
8m	1200mm
10m	1500mm
12m	1700mm

Column Planting Detail



- The column shall be installed in accordance with the manufacturer's specific instructions.
- The hole shall be excavated to the depth required for the root of the particular column, keeping the width of the hole to a minimum & creating as little disturbance as possible to the surrounding soil.
- A concrete or paving slab shall be provided in soft ground to prevent sinking.
- A pre-formed duct shall be inserted to the cable entry slot for protection of the cable.
- Where paving or bituminous surfacing is to be applied around the lighting column, the top level of the concrete may be lowered by the thickness of the surfacing.
- The soil type factor shall be taken from PD6547/EN 40 Part 2. For undetermined or unusual conditions guidance should be sought from a Geotechnical Engineer.

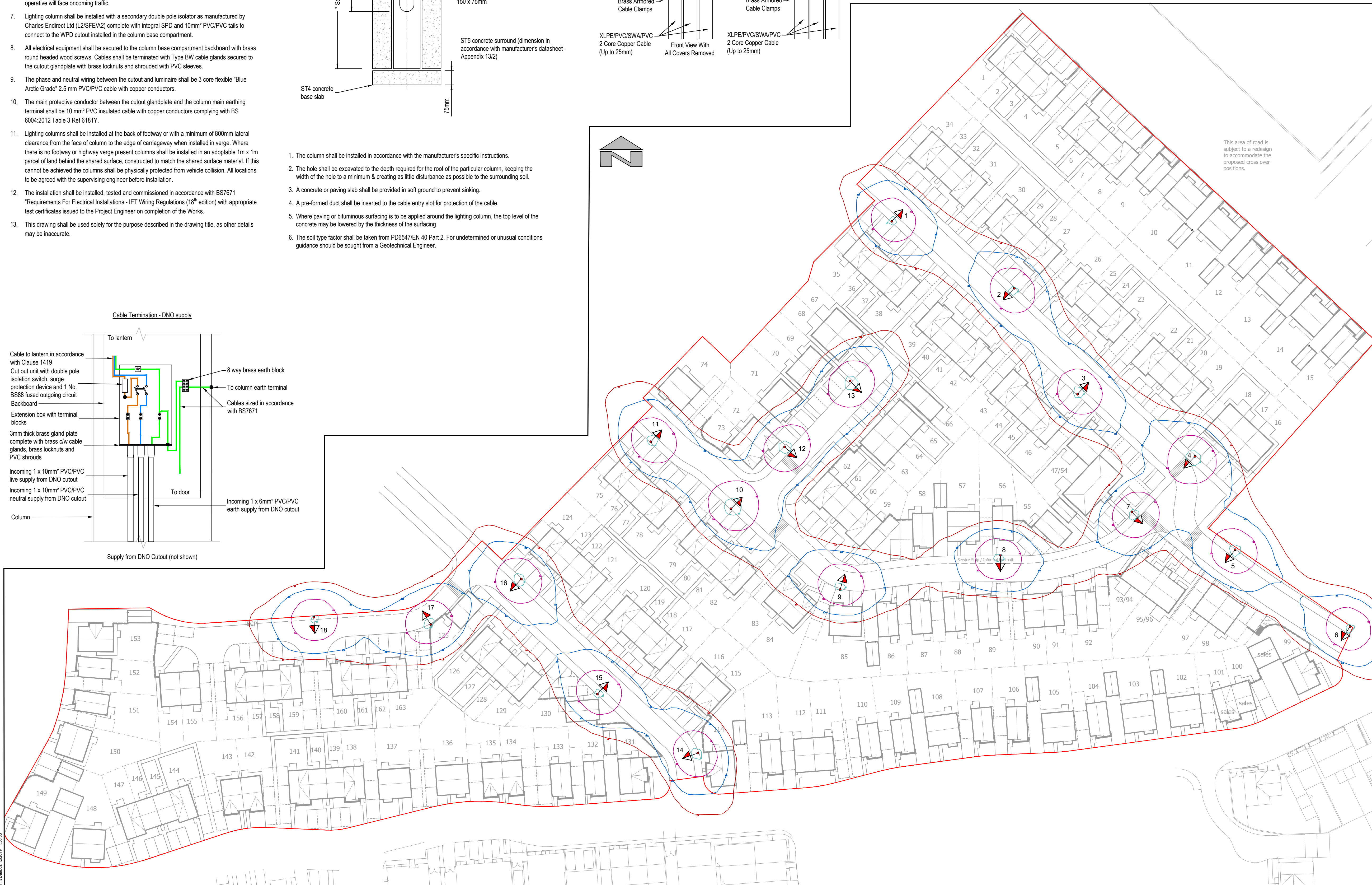
Cable Termination - DNO supply



Key

- 5.6m tubular steel road lighting column with Chiltern bracket having 0.5m projection arm and 1 1/4" BSP female threaded lantern suspension spigot and Urbis Carlton Small "Tear Drop" PC/5112/16LED/500mA/NNW/2940/25-7W/358792 LED luminaire programmable electronic driver and Telensa 2 Part Internal Cell with Twig Antenna.
- Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of buildings, trees, hedges, etc.)

10
5.0
2.0
1.0



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING	
No significant risks identified.	
Refer to Designers CDM Risk/Hazard Identification Sheet for further information	
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT	

Rev	Drawn	Chkd	App'd	Description	Date
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Purpose of Issue
S4 - Suitable for Approval

Classification
Commercial in Confidence

Client
PHG Consulting Engineers Ltd

Project
Coed Darcy, Llandarcy

Drawing
Street Lighting

Scale @ A1	Drawn	Checked	Approved
1:500	JF	MB	LS

Project No.
GC/3504

Date
02 December 2019

Drawing Identifier	BS1192 Compliant
Project - Originator - Zone - Level - File Type - Role - Number	revision
GC3504-CAP-79-DR-E-1301	P01

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