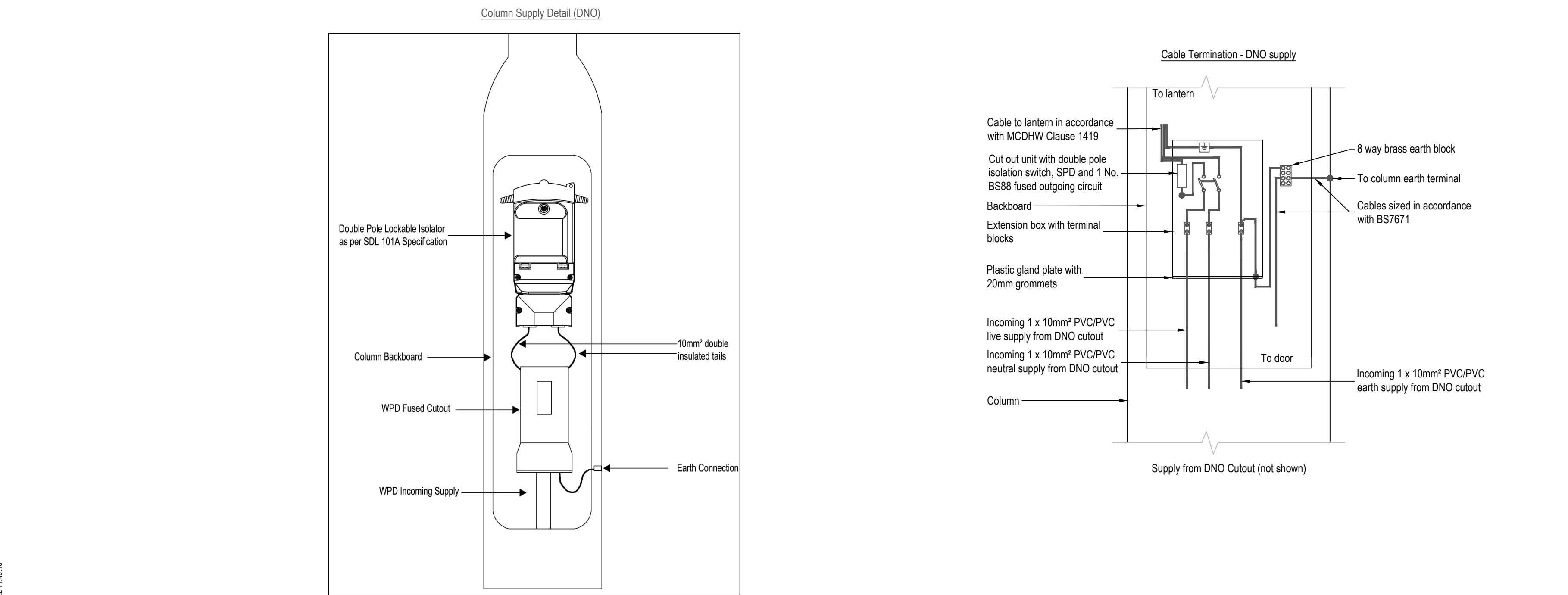
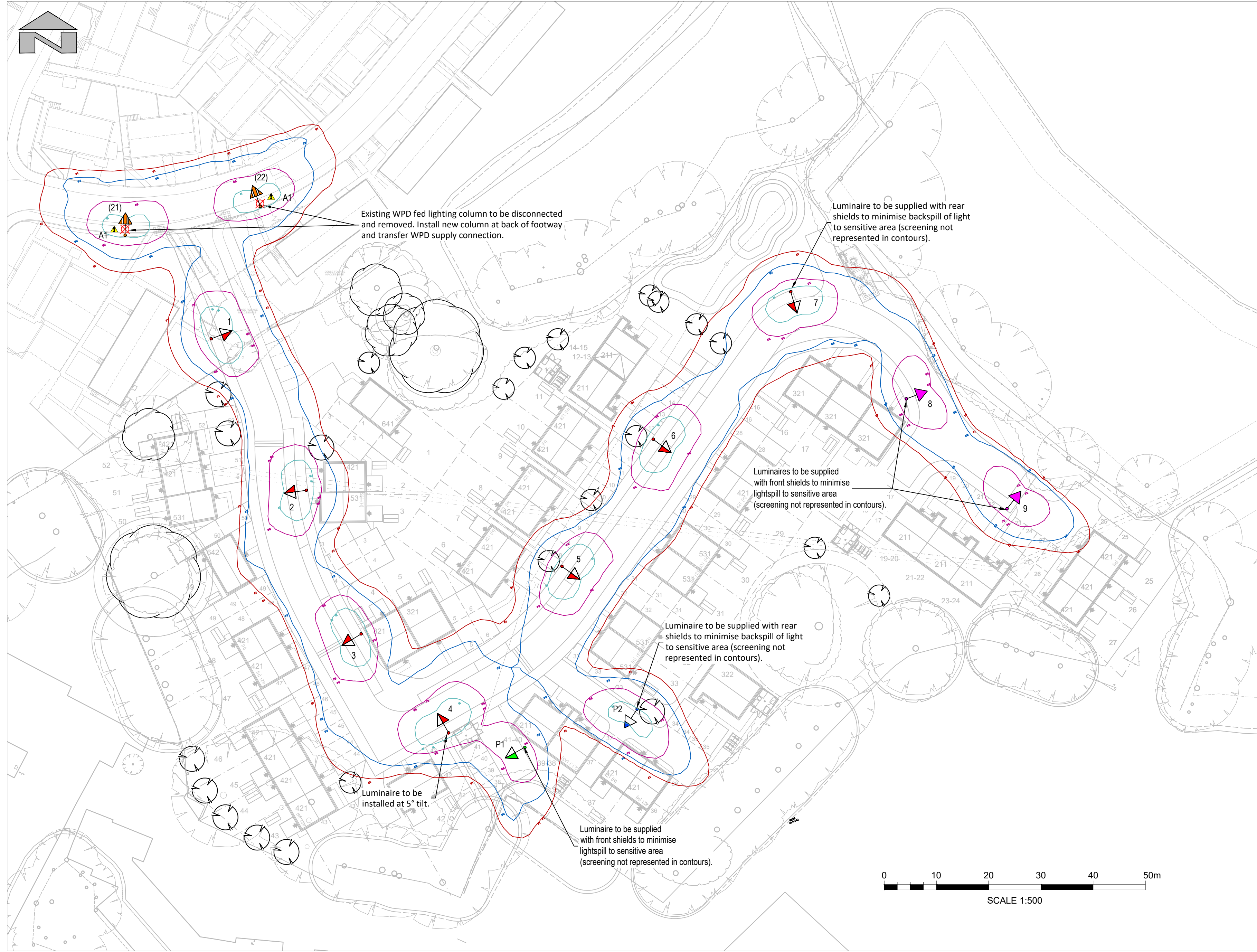




- Notes**
- The street lighting layout complies with the requirements of BS5489-1:2020 and BS EN 13201-2:2015 Class P4 with a relaxation to Class P5 near plots 17-27 due to sensitive environmental features.
 - The installation shall comply with the Neath Port Talbot County Borough Council street lighting specification and the Manual of Contract Documents for Highway Works. All electrical work to be carried out by a Highway Electrical Association and HERS approved Contractor.
 - All new columns shall have a direct unmetered DNO 230V ac 50Hz PME supply. The Contractor shall arrange with WPD the service connections, transfers and disconnections and associated quotations and determine the proposed final ducting routes and trenching required to accommodate the service cables. Ducting shall be WPD approved and black in colour.
 - Road lighting columns shall be of steel construction to BS EN 40 and hot dip galvanised to BS EN ISO 1461 with root protection and minimum 40 year design life. Columns shall be designed to accommodate a 0.6m² sign as NPT standard detail SD/Type A. Columns shall be installed in accordance with the manufacturer's instructions, taking account of local soil conditions and wind factor.
 - Lighting columns shall be fabricated and installed such that when the door is accessed, the operative will face oncoming traffic.
 - All luminaires shall be electronically controlled using 5 pin Telensa NEMA Telecells, supplied directly by Telensa for use within Neath Port Talbot and fitted by the Contractor prior to installation.
 - Identification numbers shall be painted onto the column using stencilling equipment with the number 75mm in height located 2.4m above ground level, facing oncoming traffic. Numbers shown on the drawing are for design reference only. The final maintenance numbers shall be obtained from the Highway Authority.
 - Cutouts shall be of the double pole type as manufactured by Tofco Ltd Cat No. F144/PME (DNO) with integral SPD protection and earth terminal for 3 core cables. All cutouts shall be secured to the column base compartment backboard with brass round headed wood screws. Cables shall be terminated with 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' PVC/PVC cable with 1.5mm² 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 0.8m setback 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. All locations to be agreed with the supervising engineer before installation. All locations to be agreed with the Supervising Engineer prior to 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 Manager 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.

- Key**
- Adoptable 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/700mA/EWC/3.71 km LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and 5 pin Telensa Telecell.
 - Adoptable 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/500mA/EWC/2.76 km LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and 5 pin Telensa Telecell.
 - Adoptable 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/350mA/NR/2.03 km LED luminaire with 7 pin NEMA socket c/w DALI enabled driver and 5 pin Telensa Telecell.
 - Private 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/350mA/EWS/1.97 km LED luminaire with 7 pin NEMA socket c/w Lucy Zodion SS3 photo-electric NEMA cell (35 lux on/18 lux off)
 - Private 6.0m galvanised steel H/S lighting column with integral 0.5m outreach arm and side-entry mounted Thorn Isaro Pro S/IP12/4000K/500mA/NR/2.80 km LED luminaire with 7 pin NEMA socket c/w Lucy Zodion SS3 photo-electric NEMA cell (35 lux on/18 lux off)
 - Existing WPD fed lighting column to be disconnected and removed.
 - Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of rear shields, buildings, trees, hedges, etc.)



Thorn Isaro Pro

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

Existing overhead power lines to be diverted. The contractor shall ensure that all work within 10m of overhead electricity lines is undertaken in accordance with HSE guidance note GS6. Operatives shall be G39/1 certified.

Refer to Designer's CDM Risk/Hazard log 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

P03	JC	MB	MB	Columns 7 & 9 relocated. Additional shields specified.	06.04.2022
P02	JF	JR	MB	Columns relocated, key updated.	03.11.2021
P01	JF	JR	MB	First issue	03.11.2021
Rev	Drawn	Chk'd	App'd	Description	Date

Purpose of Issue

S4 - Suitable for Approval

Classification

Confidential

Client

Jones Brothers (Henllan) Ltd.

Project

Meadow Road, Neath

Drawing

Street Lighting

Scale @ A1	Drawn	Checked	Approved
1:500	JF	JR	MB
Project No.	Date		
GC/4015	3rd Nov 2021		

Drawing Identifier	BS1192 Compliant
Project - Originator - Zone - Level - File Type - Role - Number	revision
GC4015-CAP-79-XX-DR-E-1301	P03

CAPITA

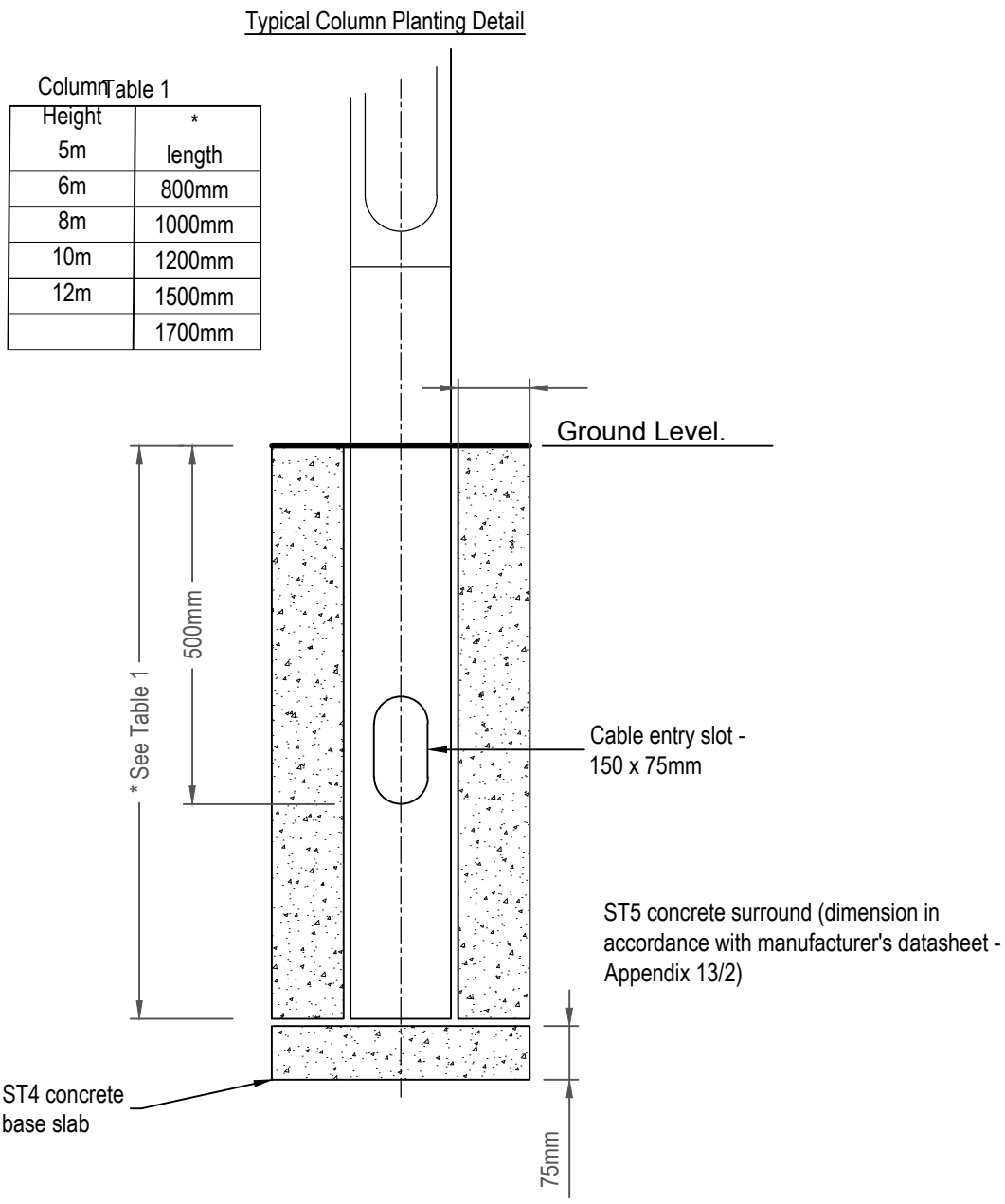
Civil Engineering

St David's House, Pascal Close, St Mellons, Cardiff, CF3 0LW

029 2080 3500

www.capitaproperty.co.uk

Capita Property and Infrastructure Ltd.



- 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.