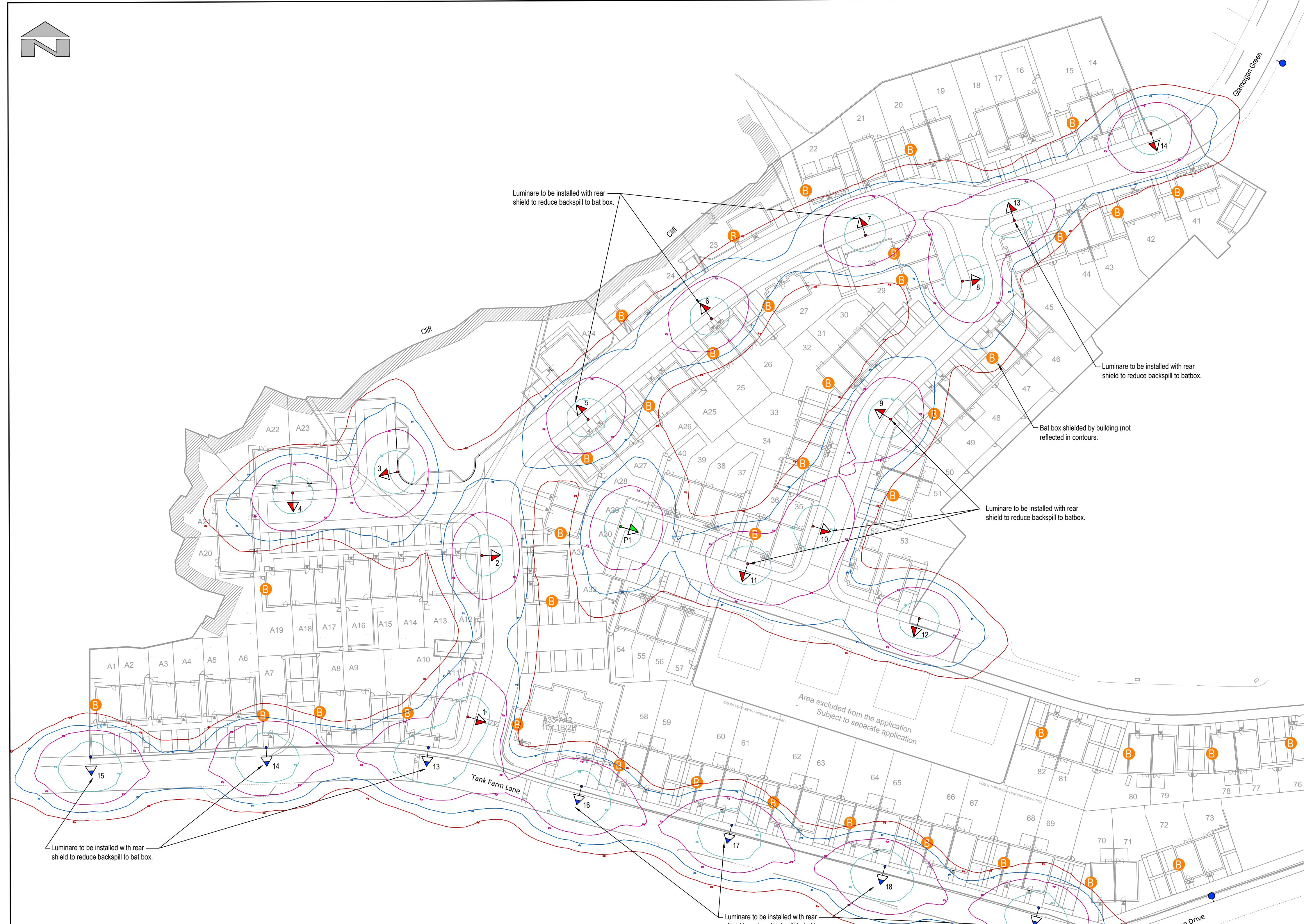




- Notes**
- The street lighting design layout meets the requirements of BS5489-1:2013 and BS EN 13201-2:2003, Class P5 for the site and Class P4 for Tank Farm Road (with relaxations by one lighting class due to local bat activity) as varied by S/P ratio of 1.30.
 - All lighting columns shall be provided with a direct unmetered 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.

- Light Sensitive Areas**
- Mitigation measures to ensure that retained habitats in and around the site used by protected and notable species (primarily bats) will not be adversely affected by artificial light:
- A reduction in target illuminance by one lighting class
 - Specification of warm white (3000K) colour temperature luminaires with no UV and a lower blue light content
 - Specification of external shields to reduce light spill to proposed bat boxes (effect not shown in lux contours).

- Key**
- Adoptable 5.6m tubular steel road lighting column with Chiltern bracket having 0.5m projection arm and 11/4" BSP female threaded lantern suspension spigot and Urbis Carlton Small "Tear Drop" PC/5112/16LED/350mA/WW/18.2W/361782 LED luminaire programmable electronic driver and Telensa 2 Part Internal Cell with Twig Antenna.
 - Adoptable 5.6m tubular steel road lighting column with Chiltern bracket having 0.5m projection arm and 11/4" BSP female threaded lantern suspension spigot and Urbis Carlton Small "Tear Drop" PC/5098/16LED/500mA/WW/25.7W/361782 LED luminaire programmable electronic driver and Telensa 2 Part Internal Cell with Twig Antenna.
 - Private 5.6m tubular steel road lighting column with Chiltern bracket having 0.5m projection arm and 11/4" BSP female threaded lantern suspension spigot and Urbis Carlton Small "Tear Drop" PC/5112/16LED/350mA/WW/18.2W/358792 LED luminaire programmable electronic driver and Telensa 2 Part Internal Cell with Twig Antenna.
 - Existing lighting unit (for reference only)
 - Proposed Bat Boxes
 - 5.0
 - 2.0
 - 1.0
 - 0.5
- Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of rear shields, buildings, trees, hedges, etc.)



Urbis Carlton LED

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

P02	JF	JR	MB	Tank Farm Road lighting added.	16/04/2020
Rev	Drawn	Chk'd	App'd	Description	Date
Purpose of Issue					
S4 - Suitable for Approval					
Classification					
Commercial in Confidence					
Client					
Jehu Group					

Project

Coed Darcy, Llandarcy Phase 2

Drawing

Street Lighting

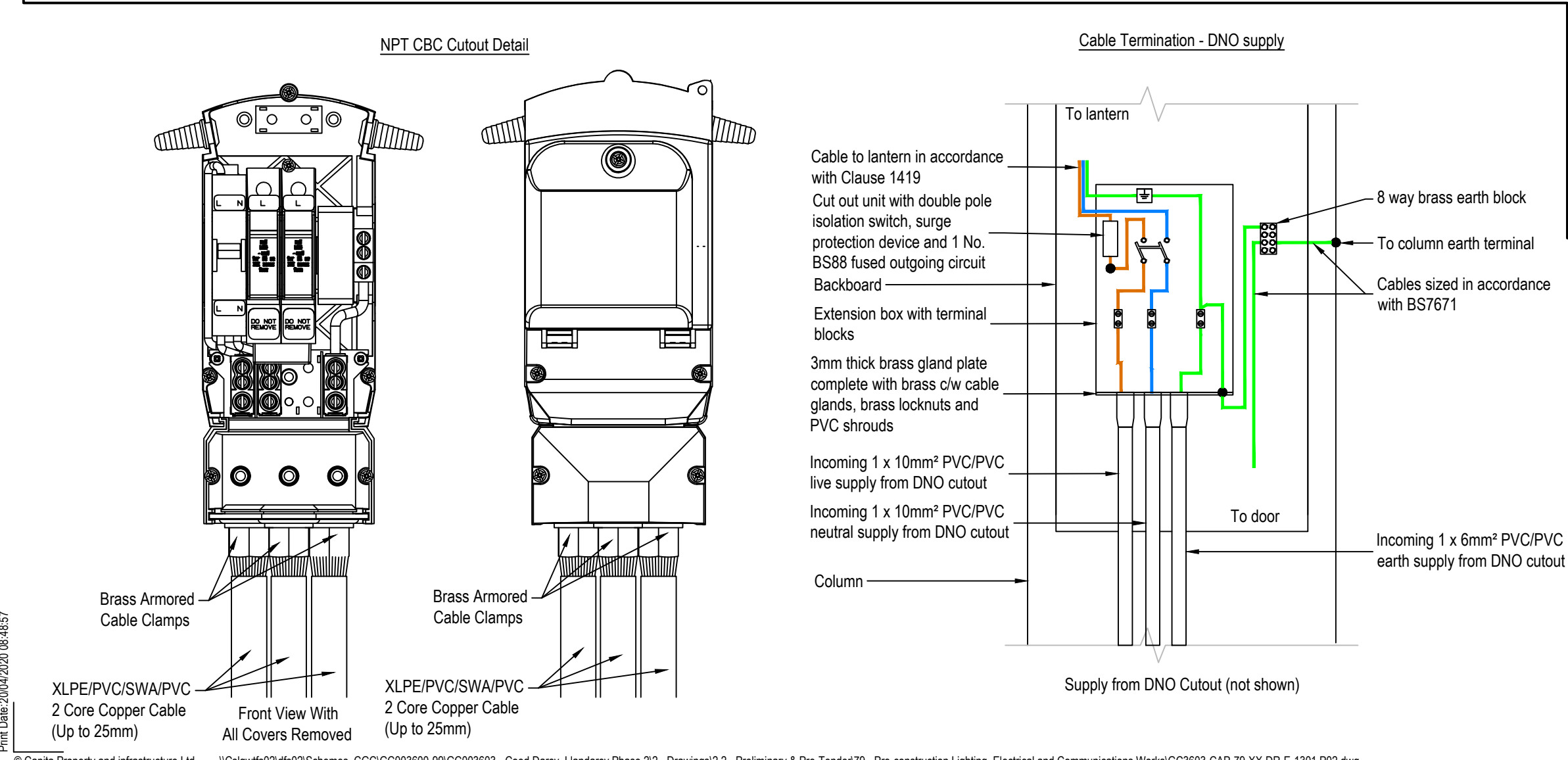
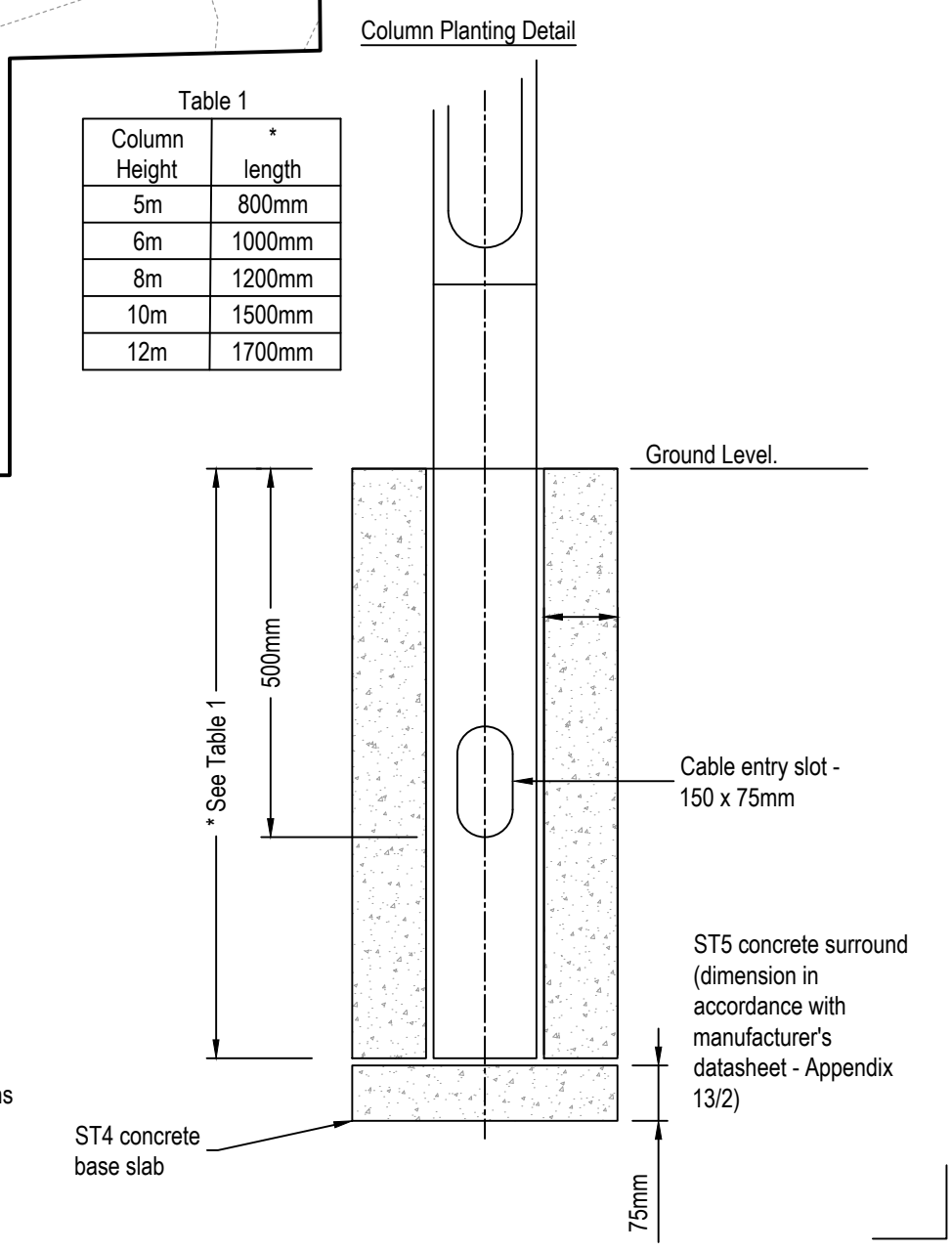
Scale @ A1	Drawn	Checked	Approved
1:500	JF	JR	MB
Project No.	Date		
GC/3603	05 March 2020		

Drawing Identifier	BS1192 Compliant
Project - Originator - Zone - Level - File Type - Role - Number	revision
GC3603-CAP-79-DR-E-1301	P02

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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.