# DUB14/15

The distribution board schedule indicates populated ways only.

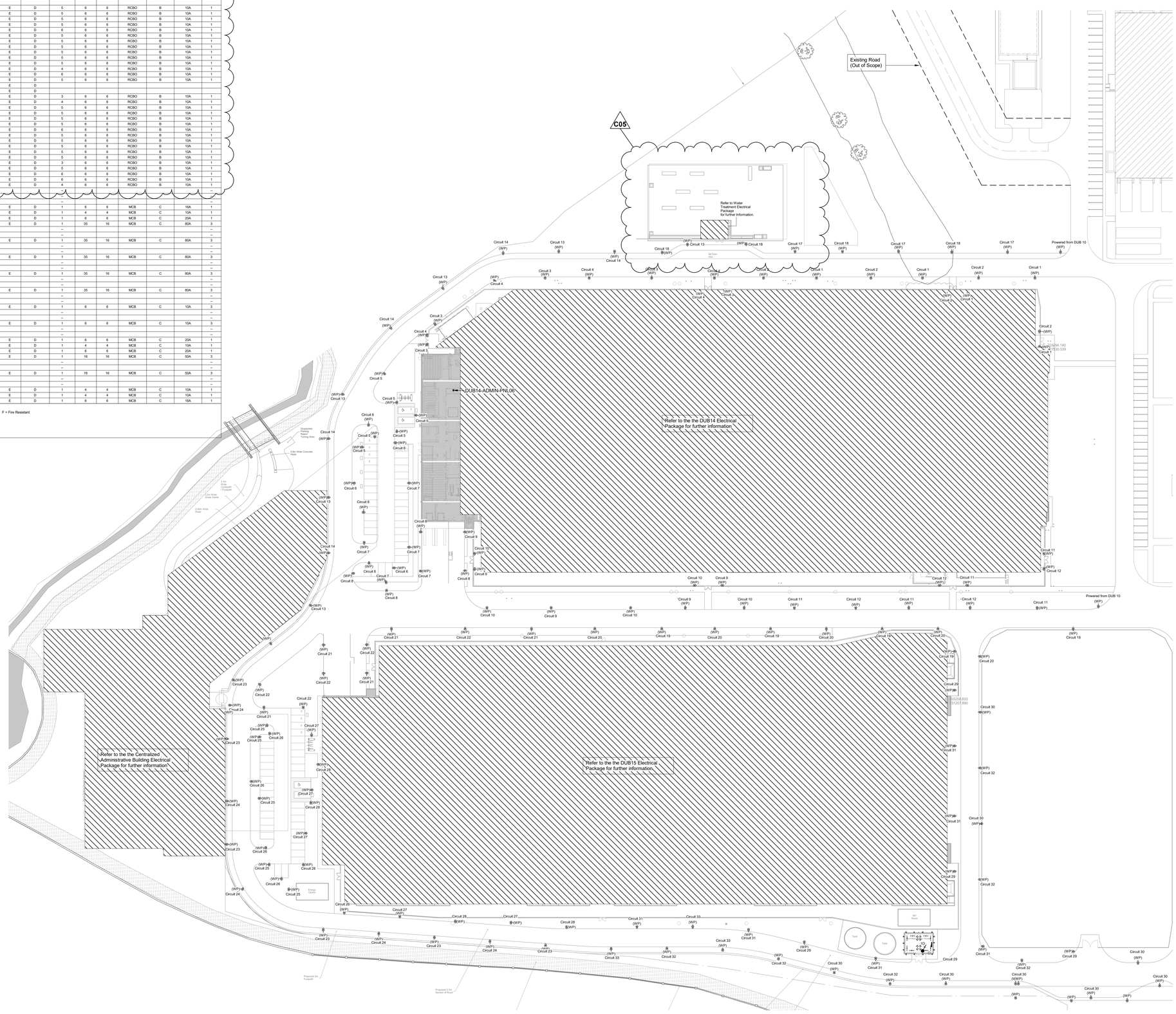
**Distribution Board Ref:** DUB14-ADMIN-PNL06.
**Location:** Electrical Riser 14.01.10
**Supplied From:**
**Number of TP Ways:** 24
**Volts:** 240V/415V Three Phase
**Incoming Device Rating/Type:** 160 A/Switch Disconnector
**Phases:** 3
**Note1:**

C05

| CKT | Load Name | Schedule Circuit Notes | Circuit Type | Cable Type | Installation Method | Number of Elements | Line Cable Size (mm²) | CPC Cable Size (mm²) | Protective Device Category | Protective Device Type | Protective Device Rating | Poles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L1/1 | External Lighting | Circuit 1 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/1 | External Lighting | Circuit 2 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/1 | External Lighting | Circuit 3 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/2 | External Lighting | Circuit 4 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/2 | External Lighting | Circuit 5 | Radial | E | D | 6 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/2 | External Lighting | Circuit 6 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/3 | External Lighting | Circuit 7 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/3 | External Lighting | Circuit 8 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/3 | External Lighting | Circuit 9 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/4 | External Lighting | Circuit 10 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/4 | External Lighting | Circuit 11 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/4 | External Lighting | Circuit 12 | Radial | E | D | 4 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/5 | External Lighting | Circuit 13 | Radial | E | D | 6 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/5 | External Lighting | Circuit 14 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/5 | | Circuit 15 | Radial | E | D | | | | | | | |
| L1/6 | | Circuit 16 | Radial | E | D | | | | | | | |
| L2/6 | External Lighting | Circuit 17 | Radial | E | D | 3 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/6 | External Lighting | Circuit 18 | Radial | E | D | 4 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/7 | External Lighting | Circuit 19 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/7 | External Lighting | Circuit 20 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/7 | External Lighting | Circuit 21 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/8 | External Lighting | Circuit 22 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/8 | External Lighting | Circuit 23 | Radial | E | D | 6 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/8 | External Lighting | Circuit 24 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/9 | External Lighting | Circuit 25 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/9 | External Lighting | Circuit 26 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/9 | External Lighting | Circuit 27 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/10 | External Lighting | Circuit 28 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/10 | External Lighting | Circuit 29 | Radial | E | D | 3 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/10 | External Lighting | Circuit 30 | Radial | E | D | 5 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/11 | External Lighting | Circuit 31 | Radial | E | D | 6 | 6 | 6 | RCBO | B | 10A | 1 |
| L2/11 | External Lighting | Circuit 32 | Radial | E | D | 6 | 6 | 6 | RCBO | B | 10A | 1 |
| L3/11 | External Lighting | Circuit 33 | Radial | E | D | 4 | 6 | 6 | RCBO | B | 10A | 1 |
| L1/12 | Space | | | | | -- | | | | | | -- |
| L2/12 | Space | | | | | -- | | | | | | -- |
| L3/12 | Space | | | | | -- | | | | | | -- |
| L1/13 | Security Control Panel | | Radial | E | D | 1 | 6 | 6 | MCB | C | 16A | 1 |
| L2/13 | Process Water Actuator | | Radial | E | D | 1 | 4 | 4 | MCB | C | 10A | 1 |
| L3/13 | Petrol Interceptor | | Radial | E | D | 1 | 6 | 6 | MCB | C | 20A | 1 |
| L1/14 | Electric Vehicle Car Charging Point | | Radial | E | D | 1 | 35 | 16 | MCB | C | 80A | 3 |
| L2/14 | – | | | | | -- | | | | | | -- |
| L3/14 | – | | | | | -- | | | | | | -- |
| L1/15 | Electric Vehicle Car Charging Point | | Radial | E | D | 1 | 35 | 16 | MCB | C | 80A | 3 |
| L2/15 | – | | | | | -- | | | | | | -- |
| L3/15 | – | | | | | -- | | | | | | -- |
| L1/16 | Electric Vehicle Car Charging Point | | Radial | E | D | 1 | 35 | 16 | MCB | C | 80A | 3 |
| L2/16 | – | | | | | -- | | | | | | -- |
| L3/16 | – | | | | | -- | | | | | | -- |
| L1/17 | Electric Vehicle Car Charging Point | | Radial | E | D | 1 | 35 | 16 | MCB | C | 80A | 3 |
| L2/17 | – | | | | | -- | | | | | | -- |
| L3/17 | – | | | | | -- | | | | | | -- |
| L1/18 | Electric Vehicle Car Charging Point | | Radial | E | D | 1 | 35 | 16 | MCB | C | 80A | 3 |
| L2/18 | – | | | | | -- | | | | | | -- |
| L3/18 | – | | | | | -- | | | | | | -- |
| L1/19 | Rain Water Harvesting Pump | | Radial | E | D | 1 | 6 | 6 | MCB | C | 10A | 3 |
| L2/19 | – | | | | | -- | | | | | | -- |
| L3/19 | – | | | | | -- | | | | | | -- |
| L1/20 | Rain Water Harvesting Pump | | Radial | E | D | 1 | 6 | 6 | MCB | C | 10A | 3 |
| L2/20 | – | | | | | -- | | | | | | -- |
| L3/20 | – | | | | | -- | | | | | | -- |
| L1/21 | Petrol Interceptor | | Radial | E | D | 1 | 6 | 6 | MCB | C | 20A | 1 |
| L2/21 | Process Water Actuator | | Radial | E | D | 1 | 4 | 4 | MCB | C | 10A | 1 |
| L3/21 | Petrol Interceptor | | Radial | E | D | 1 | 6 | 6 | MCB | C | 20A | 1 |
| L1/22 | Rain Water Harvesting Pump | | Radial | E | D | 1 | 16 | 16 | MCB | C | 50A | 3 |
| L2/22 | – | | | | | -- | | | | | | -- |
| L3/22 | – | | | | | -- | | | | | | -- |
| L1/23 | Rain Water Harvesting Pump | | Radial | E | D | 1 | 16 | 16 | MCB | C | 50A | 3 |
| L2/23 | – | | | | | -- | | | | | | -- |
| L3/23 | – | | | | | -- | | | | | | -- |
| L1/24 | Process Water Actuator | | Radial | E | D | 1 | 4 | 4 | MCB | C | 10A | 1 |
| L2/24 | Process Water Actuator | | Radial | E | D | 1 | 4 | 4 | MCB | C | 10A | 1 |
| L3/24 | Bike Shelter Power Supply | | Radial | E | D | 1 | 6 | 6 | MCB | C | 16A | 1 |

**Cable Types:**
A = XLPE/LSF B = LSF Singles C = PVC Singles D = XLPE/SWA/LSF E = PVC/SwA/PVC F = Fire Resistant

**Installation Method:**
B = In Trunking D = In Ducts E = On Perforated Cable Tray




## Approvals:

| | | |
|---|---|---|
| Customer | Microsoft | Date \| 29/01/21 |
| Microsoft Mechanical Engineer | Andrew Layer | |
| Microsoft Telecom Engineer | Cathal O'Sullivan | |
| Microsoft Electrical Engineer | Alan Kellett | |
| Engineering Manager | Declan Comerford | |
| Security Manager | Michael O'Donnell | |
| CSA | Leslee Maher / Sharendra Naidu | |

## General Notes:

1. This is not an installation drawing and shows design intent information only.
2. All dimensions are in millimetres (mm) unless noted otherwise. all levels are in metres (m) unless noted otherwise.
3. Do not scale; work to figured dimensions only. This drawing shall be read in conjunction with building services documents and other relevant contract documents.
4. Equipment and plant details are not manufacturer specific. Contractor selected equipment shall meet the given constraints and long lead equipment will be coordinated by the GC based on final equipment selection.
5. All service penetrations through fire rated compartments shall be fire stopped to achieve a rating equivalent to the compartment and shall be designed to accommodate thermal movement.
6. All services crossing the movement joints shall be installed to accommodate the movements as defined in the structural engineers contract documentation.
7. The Contractor will produce fully coordinated installation drawings prior to installation for approval.
8. The Contractor will produce as built drawings prior to handover for approval.

| Issue | Date | Revision Description |
|---|---|---|
| C05 | 17/12/21 | Issue for IFC Update 02 |
| C04 | 03/09/21 | Issued for Commencement |
| C03 | 13/08/21 | Issue for IFC |
| C02 | 30/07/21 | Issue for 90% |
| C01 | 09/04/21 | Issue for IFC |
| P01 | 12/03/21 | Issue for 90% |

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Client: Microsoft

Project Title: DUB14/15

Key Plan

Drawing Title: Electrical Services Site Lighting Layout

| | |
|---|---|
| Scale at A0: 1 : 500 | By / Chkd / Appd: ME/FA/TH |
| Role: Electrical | |
| Status: A4 - Stage Complete | |
| Arup Job No: 279225 | Rev: C05 |

ID: DUB14-15_E-D-100

17/12/2021 12:03:40

Do not scale

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