



- TYPE C COLUMN DETAILS**
- HEIGHT : 6m
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 37
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 16
  - MAKE & MODEL : C.U.Phosco E950-28PL-P4A-730-C600
- TYPE D COLUMN DETAILS**
- HEIGHT : 6m ABACUS Raise & lower type
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 18
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 8
  - MAKE & MODEL : C.U.Phosco E950-28PL-P4A-730-C250
- TYPE F COLUMN DETAILS**
- HEIGHT : 6m ABACUS Raise & lower type
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 3
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 9
  - MAKE & MODEL : C.U.Phosco E950-28PL-R3A-730-C300
- TYPE G COLUMN DETAILS**
- HEIGHT : 6m ABACUS Raise & lower type
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 1
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 8
  - MAKE & MODEL : C.U.Phosco E950-28PL-A2A-730-C250

**Volt drop calculation for the most onerous circuit**

ESB SUPPLY	SOURCE PILLAR	CIRCUIT	DESIGN CURRENT (Amps per Phase)	CABLE SIZE (sq.mm)	CABLE LENGTH (m)	FUSE (Amps)	VOLT DROP (Volts)
S1	MP2	MAIN	0.75	2x6sq	150	16	0.55

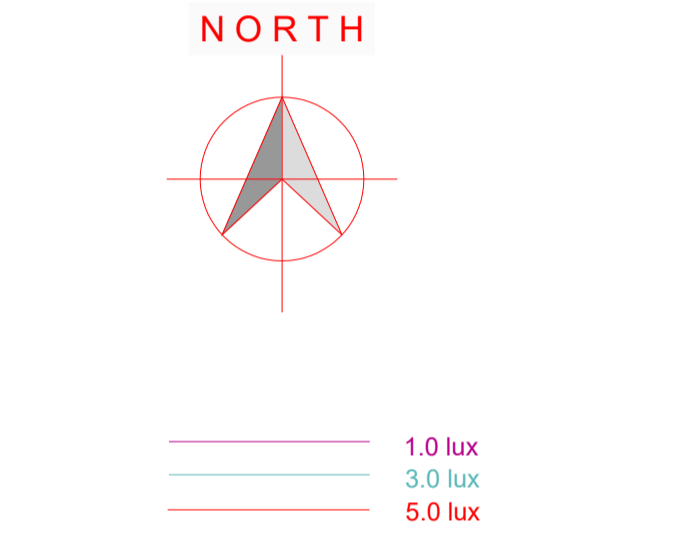
- TYPE A COLUMN DETAILS**
- HEIGHT : 8m
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 14
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 43
  - MAKE & MODEL : C.U.Phosco P863-128-R2E-730-W3-325
- TYPE B COLUMN DETAILS**
- HEIGHT : 6m
  - BRACKET LENGTH : Post-top
  - INCLINATION : 0 Degrees
  - COLUMN QUANTITY : 32
- LANTERN DETAILS**
- AVERAGE WATTAGE (CLO) : 16
  - MAKE & MODEL : C.U.Phosco E950-28PL-F2A-730-C600

**Notes:**  
 All LED lanterns must have Constant Light Output (CLO).  
 Automatically dimmed to 75% each night from 12 midnight to 6am (U14 Profile).  
 All lanterns to have 7pin NEMA sockets fitted.  
 Electronic Photocells switched at 35/18lux.  
 All columns, luminaires, cable and pillars, shall comply with Local Authority General Specification for Public Lighting.  
 No trees to be located within falling distance of PIL columns.  
 Minimum set-back of columns is 900mm from face of kerb.

2x6sq NYCC cable laid in ducting to I.S. 10101-2020.  
 Single wall ducting, colour red to be used.  
 Manufactured from high density polyethylene (H.D.P.E.),  
 107mm external diameter, having a wall thickness of 5mm.  
 This ducting to have the words "Street Lighting" stamped on,  
 letter size 5mm at 1m intervals. The lettering to face upwards  
 in the trench. All works to Local Authority specification.  
 This is a circuit layout and not indicative of where ducts are to be laid.

Public Lighting Pillar (located at least 2m from ESB pillar)

Public lighting cable chamber as per Local Authority PIL Dept. specification.



**NOTES**

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NO ACCOUNT IS TAKEN FOR THE BLOCKING EFFECT CAUSED BY BUILDINGS, TREES ETC. THE CALCULATION SHOWN BY THIS DRAWING ASSUMES THAT THE WHOLE AREA BEING CONSIDERED IS IN THE SAME PLANE, I.E. THERE ARE NO CHANGES IN GRADIENT OR ELEVATION.

This drawing layout is based on calculated lighting levels, produced by Sabre Electrical Services Ltd., using Lighting Feasibility software. Any alterations to the layout or luminaire type used for the lighting design calculations, will require a revised lighting design to be carried-out. A redesign may require approval from the Local Authority Public Lighting Dept. prior to any alterations/modifications being implemented on site.

**Sabre**  
 ELECTRICAL SERVICES LTD.  
 Specialist Contractors  
 PUBLIC LIGHTING - FLOOD LIGHTING - SPORTS LIGHTING

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- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
C	Updated site layout,	AN	CHK 09-06-22
B	Updated site layout	AN	CHK 04-05-22
A	Circuit Layout Added	AN	CHK 28-10-21
REV	DESCRIPTION	INITS	CHKD DATE

CLIENT/CUSTOMER  
**Cairn Homes Properties Ltd**

PROJECT  
**Newcastle South**

TITLE  
**Public Lighting Layout**

DRAWN  
 A.N

SCALE  
 1:1000@A1

DATE  
 18-10-21

DRAWING NUMBER  
 SES 15021

ISSUE  
 4

BASE DRAWING NUMBER  
 1855\_PL\_P\_01\_V10.dwg

DRAWING ORIGIN  
 Cairn

DO NOT SCALE FROM THIS DRAWING

