

PROPOSED SITE PLAN

area=1.12 Acres



1.0 lux

3.0 lux

5.0 lux

Notes:

AI 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 PL columns.
Minimum set-back of columns is 800mm from face of kerb.
Public lighting cable chamber as per Local
Authority PL Dept. specification.

TYPE D COLUMN DETAILS

HEIGHT

BRACKET LENGTH

INCLINATION

COLUMN QUANTITY

5m Raise & Lower

Post-top

0 Degrees

3

LANTERN DETAILS

WATTAGE (CLO)

MAKE & MODEL

7

Philips BGP291 DN25 730 1.0km 7 Watts

TYPE A COLUMN DETAILS - Existing Column, new luminaires only

HEIGHT

BRACKET LENGTH

INCLINATION

COLUMN QUANTITY

6m

Post-top

0 Degrees

3

LANTERN DETAILS

WATTAGE (CLO)

MAKE & MODEL

22

Philips BGP291 DW50 730 3.6km 22 Watts

TYPE B COLUMN DETAILS

Existing Column. Estimated Photometry as 31
Watt LED

TYPE C COLUMN DETAILS

HEIGHT

BRACKET LENGTH

INCLINATION

COLUMN QUANTITY

6m

Post-top

0 Degrees

1

LANTERN DETAILS

WATTAGE (CLO)

MAKE & MODEL

22

Philips BGP291 DW50 730 3.6km 22 Watts

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	Landlord	MAIN	1.1	0.1	2x6sq	S5	0.03
S1	C2					10	

2X6sq NYCY 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 "Steel Lighting" stamped on
letter size form at 1m intervals. The lettering to face uppermost
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)

Typical Base detail, to be checked
by site engineers.

COLUMN MOUNTING HEIGHT	12m	10m	8m	6m
COLUMN ROOT DEPTH	1.9m	1.7m	1.5m	1.0m
CABLE ENTRY DEPTH	0.3m	0.3m	0.3m	0.3m
ROOTING CONCRETE DEPTH				
COLUMN DOOR HEIGHT	1.5m	1.5m	1.5m	1.5m
COLUMN SLEEVE SIZE(mm) internal	450	400	400	300
EXCAVATION (width x length)	1000	800	600	400

Heavy Duty PVC or Concrete pipe to rose D

Lighting Column

25N concrete

Ground Level

Learnmix concrete.

25N concrete.

Compacted Sand.

Heavy Duty PVC or Concrete pipe to suit.

Learnmix concrete.

100mm duct

150

300

400

600

800

1000

A

B

NOTES

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF
AND IS COPYRIGHT (C) AND CAN NOT BE USED WITHOUT PRIOR CONSENT.

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
Reality 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

UNIT 11,
BELLVUE INDUSTRIAL ESTATE,
FINGLAS,
DUBLIN 11.
E - MAIL: graham@sabrelighting.ie

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- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
REV	DESCRIPTION	INITS	CHK'D DATE

CLIENT/CUSTOMER

Rondesere Ltd.

PROJECT

Proposed LRD Application at Grange
Road, Baldoy, Dublin 13

TITLE

Public Lighting Layout

DRAWN A.N	SCALE 1:250 @A1	DATE 11-12-23
DRAWING NUMBER SES 14223	ISSUE 1	

BASE DRAWING NUMBER

DRAWING ORIGIN

DO NOT SCALE FROM THIS DRAWING