

NOTES

- ALL EXTERIOR LIGHTING SHALL COMPLY WITH CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING BS5489-1:2003, EN13201-2003, DUN LAOGHAIRE RATHDOWN COUNTY COUNCIL PUBLIC LIGHTING INSTALLATION IN RESIDENTIAL AND INDUSTRIAL AREA'S GUIDANCE DOCUMENT 2014, NATIONAL RULES FOR ELECTRICAL INSTALLATION ET101:2009- PART 1 GENERAL REQUIREMENTS & PART 2.3 PARTICULAR REQUIREMENTS FOR PUBLIC LIGHTING INSTALLATIONS.
- THE EXTERNAL LIGHTING LAYOUT HAS BEEN DESIGNED IN ACCORDANCE WITH BS 5489-1:2003 AND EN 13201-2003 STANDARDS
- DUCTING SHALL COMPLY WITH BSEN 50086-1-2-3-4 LATEST EDITION & SHALL BE SINGLE WALL, COLORED RED & MANUFACTURED FROM HIGH DENSITY POLYPROPYLENE. THE NOMINAL EXTERNAL DIAMETER OF THE DUCT SHALL BE 107mm WITH A MINIMAL WALL THICKNESS OF 5mm. EACH LENGTH OF DUCT SHALL BE STAMPED WITH THE WORDS "PUBLIC LIGHTING" OR ALTERNATIVELY, "STREET LIGHTING", IN 18mm BLACK LETTERING AT 0 DEGREES. AT ONE METRE INTERVALS, DUCT SHALL BE LAID WITH THIS LEGEND FACING UPWARDS. DUCT SHALL BE LAID IN A STRAIGHT LINE CLOSE TO THE LINE OF THE COLUMN LOCATIONS & SHALL CONTAIN A CONTINUOUS DRAW WIRE OF 8KN STRENGTH. ALL DUCTS SHALL BE PROVEN WITH BRUSH AND MANDRILL, POLYPROPYLENE ROPED AND PLUGGED AND COMPLIANT WITH ET101 REQUIREMENTS RED DUCT DUCT SHALL BE USED FOR EXTERIORS LIGHTING CABLES.
- A MINIMUM DEPTH OF 450mm COVER IS REQUIRED IN URBAN PATHWAYS & A MINIMUM OF 600mm COVER IS REQUIRED FOR GRASS MARGINS, PEDESTRIAN WAYS, LANEWAYS & GATEWAY ENTRANCES & A MINIMUM DEPTH OF 750mm IS REQUIRED AT ROAD CROSSINGS OR IN CARRIAGEWAYS.
- ALL CABLE DRAW INSPECTION PITS SHALL BE OF DUCTILE IRON GALVANISED STEEL FRAME WITH FRAME OPENING OF 500mmx500mm TO CONFORM TO EN124B125 MARKED 'PUBLIC LIGHTING' OR TRAFFIC WITH M16 STAINLESS STEEL LOCKING BOLT. ALL CABLE DRAW INSPECTION PITS FOR USE ON CARRIAGEWAYS SHALL BE OF THE SAME DIMENSION AS ABOVE WITH HIGH STRENGTH ENGINEERING OR SITU CONCRETE. COVERS AND FRAMES SHALL BE APPROVED BY LICENSED BODY NSAI OR BRITISH STANDARDS INSTITUTE OF QUALITY ASSURANCE SERVICES.
- ALL EQUIPMENT TO BE SUITABLY IP RATED FOR THE ENVIRONMENT THEY ARE BEING INSTALLED.
- LIGHT COLUMN SETBACK SHALL BE 0.8M FROM KERB IN ACCORDANCE WITH BS5489-1 TABLE 2

ISOLINES

- 1.0 lx
- 2.0 lx
- 5.0 lx
- 7.0 lx
- 10.0 lx
- 20.0 lx
- 30.0 lx

SCHEDULE OF SYMBOLS

- EX1 EXISTING LIGHTING POLE - 8m HIGH
LANTERN NOT DETERMINED 7ZW
- EX2 EXISTING LIGHTING POLE - 6m HIGH
LANTERN NOT DETERMINED 52W
- X1 POLE MOUNTED DOWN LIGHT TYPE X1 (6m HIGH)
Thorn 92900586 CQ 24L50-740 EWSC CLO BPS CL2 M60 ADC [STD]
(3000 lm; 37.0 W; 1xUser defined)
- X1 + BAFFLE POLE MOUNTED DOWN LIGHT TYPE X1 (6m HIGH)
Thorn 92900586 CQ 24L50-740 EWSC CLO BPS CL2 M60 ADC [STD]
(3000 lm; 37.0 W; Light baffle; 1xUser defined)

SCHEDULE OF SYMBOLS SUPPLEMENTARY LIGHTING

- X2 POLE MOUNTED AMENITY DOWN LIGHT TYPE X2 (4m HIGH)
Thorn 96260224 AVENUE F2 35W HIE-CE E27CL1 PM D76 LI [STD]
(3000 lm; 44.0 W; 1xUser defined)
- X3 BOLLARD LIGHT TYPE X3 (0.8m HIGH)
Thorn 96262 101 D-CO LED BOLLARD 700 30L50 830 CL1 [STD]
(507 lm; 14.0 W; 1xUser defined)

| REV | DESCRIPTION | DRN | ENG | APP | DATE |
|-----|-----------------------|-----|-----|-----|----------|
| P8 | PLANNING | RP | RP | RH | 28/06/19 |
| P7 | PLANNING ISSUE | RP | RP | RH | 13/06/19 |
| P6 | PLANNING ISSUE | RP | RP | RH | 10/06/19 |
| P5 | PRE-APPLICATION ISSUE | RP | RP | RH | 28/05/19 |
| P4 | PRE-APPLICATION ISSUE | TS | RP | RH | 21/05/19 |
| P3 | PRE-APPLICATION ISSUE | TS | RP | RH | 14/05/19 |
| P2 | PRE-APPLICATION ISSUE | TS | RF | RF | 15/03/19 |
| P1 | PRELIMINARY ISSUE | TS | RF | RF | 28/02/19 |

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ISO 9001:2015 QUALITY

OHSAS 18001:2007 HEALTH & SAFETY

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PROJECT
RESIDENTIAL DEVELOPMENT
AT CHURCHVIEW ROAD,
KILLINEY, CO DUBLIN

CLIENT
STRAND COURT LIMITED

ARCHITECT
O'MAHONY PIKE ARCHITECTS URBAN DESIGNERS INTERIOR DESIGNERS

DRAWING TITLE
ELECTRICAL SERVICES INSTALLATION
SITE LIGHTING LUX LEVEL

| SCALE | SHEET SIZE | DRAWING No. | REV. |
|---------------------------|------------|-------------------------|------|
| 1:1000 @ A3 1:500 @ A1 | A1 | P017-PMEP-00-00-DR-E-01 | P8 |

