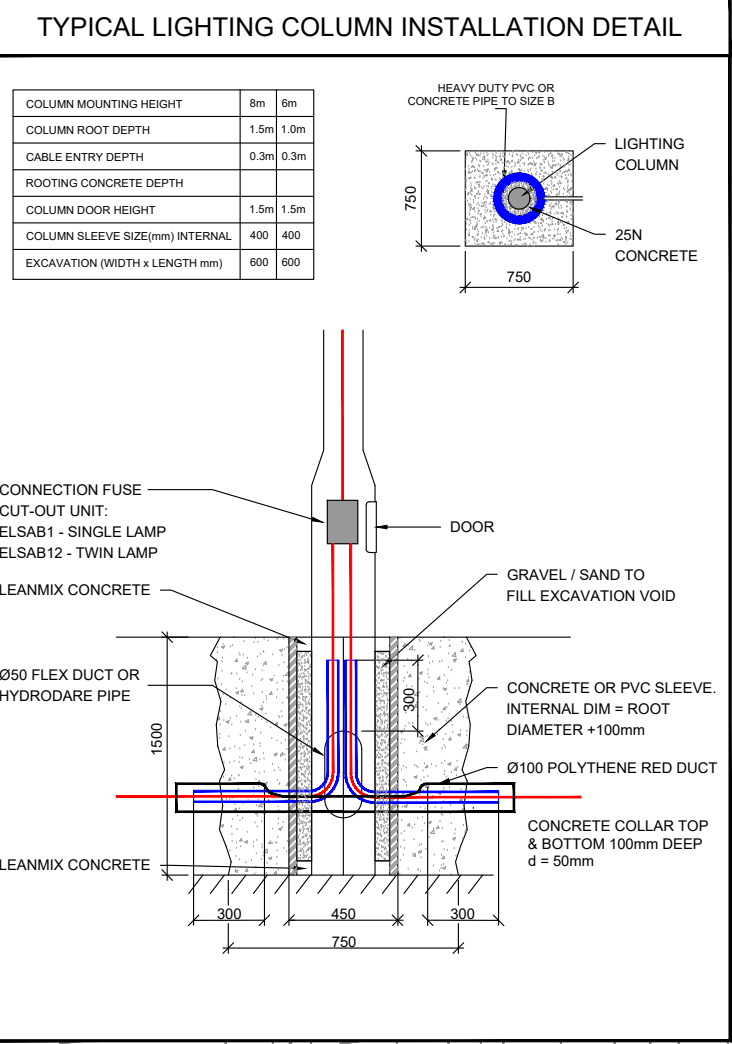




- NOTES**
- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
 - FINAL LOCATION OF MICI-PILLARS & DUCTS TO BE AGREED WITH COUNCIL & ESB SUPERVISOR PRIOR TO INSTALLATION.
 - PROVIDE FOR CONTINUOUS 10mm PP DRAW ROPE SECURED AT BOTH ENDS IN THE DUCT.
 - PROVIDE A COMPLETION CERTIFICATE FOR THE PUBLIC LIGHTING SYSTEM.
 - PROVIDE 2m SEPARATION BETWEEN ESB MINI-PILLAR & PL MICI-PILLAR or PL COLUMN, etc.
 - ALL LIGHTING COLUMNS TO BE POSITIONED AT REAR OF FOOTPATH OR SET BACK 800mm CLEAR OF ROAD EDGE KERB.
 - PUBLIC LIGHTING INSTALLATION TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SOUTH DUBLIN COUNTY COUNCIL'S PUBLIC LIGHTING TECHNICAL SPECIFICATION & REQUIREMENTS DOCUMENT.
 - THE AREA SURROUNDING THE DEVELOPMENT ACTS AS AN IMPORTANT CORRIDOR FOR BATS & OTHER PROTECTED FAUNA. IT IS IMPORTANT THAT THIS AREA, AND THE ADJOINING UNDEVELOPED LANDS, ARE LEFT UNLIT TO ENSURE THAT WILDLIFE CAN CONTINUE TO FORAGE AND MOVE THROUGH THIS AREA AND ARE NOT DISTURBED BY ARTIFICIAL LIGHT.
 - IN ORDER TO BENEFIT BATS, AS WELL AS OTHER FAUNA ACTIVE/RESTING AT NIGHT, THE DESIGN OF THE PUBLIC LIGHTING SCHEME HAS BEEN CARRIED-OUT TO MINIMISE LIGHT SPILLAGE AND NUISANCE/GLARE BY USING SHIELDED, DOWNWARD DIRECTED LIGHTING, USING NARROW SPECTRUM LIGHTING TYPES WITH NO UV & LUMINAIRE ACCESSORIES AND PROVIDING THE FACILITY FOR SWITCHING OFF ALL NON-ESSENTIAL LIGHTING DURING THE HOURS OF DARKNESS. IN ADDITION TO THE ABOVE, WE HAVE ADJUSTED THE SP RATIO FROM 1.5 TO 1.3, CHANGED THE COLOUR TEMPERATURE FROM 4000K TO 3000K, COLUMNS HAVE BEEN MOVED AWAY FROM AREAS WHERE BATS ARE LIKELY TO BE ACTIVE AND LANTERNS HAVE BEEN FITTED WITH BACK SHIELDS.

PUBLIC LIGHTING LEGEND

- 107mm HDPE RED DUCTING TO IS135 CLASS B STANDARD PUBLIC LIGHTING DUCT WITH WARNING TAPE OVER (600mm MIN COVER & 750mm COVER IN ROAD CROSSING).
- 50mm DIAMETER FLEXIBLE DUCT OR HYDRODARE FROM PUBLIC LIGHTING COLUMN TO 107mm HDPE RED DUCTING WITHIN 1 METRE OF PL FITTING
- EXTERNAL LIGHTING/TRAFFIC LIGHT MIDPILLAR
- 775x625mm INSPECTION CHAMBER, 'e1' MANUFACTURED FJ60/45 TO EN124
- URBIS SCHREDER AXIA 3.1 5267 INTEGRATED LENSES 16 OSLOM SQUARE GIANT @370mA 19W 614432 WW 730 230V 1x01-11-802 - DRIVER MF 0.81. CONTRACTOR TO PROVIDE FOR 6m HIGH FIXED COLUMN & BASE LOCATED AT REAR OF FOOTPATH.
- URBIS SCHREDER AXIA 3.1 5267 INTEGRATED LENSES 8 OSLOM SQUARE GIANT @350mA 9W 614432 WW 730 230V 1x01-11-802 - DRIVER MF 0.81. CONTRACTOR TO PROVIDE FOR 6m HIGH FIXED COLUMN & BASE LOCATED AT REAR OF FOOTPATH.
- URBIS SCHREDER AXIA 3.1 5296 INTEGRATED LENSES 8 OSLOM SQUARE GIANT @170mA 5W 436952 WW 730 230V 1x01-11-802 - DRIVER MF 0.81. CONTRACTOR TO PROVIDE FOR 6m HIGH HINGED COLUMN & BASE INSTEAD OF FIXED COLUMN.
- *H
- TYPE B LANTERNS DENOTE EXISTING LANTERN INSTALLED AS PART OF NEIGHBOURING DEVELOPMENT. FOR THE SAKE OF THIS PUBLIC LIGHTING CALCULATION, A Q85B1035.4 LAMP 35W SOX LUMINAIRE HAS BEEN USED.

5 LUX - P4 - ROADS
Results - Horizontal Illuminance (lux)
Eav= 5.63
Emin= 1.31
Emax= 12.30
Emin/Emax= 0.11
Emin/Eav= 0.23
Emax/Eav= 2.18

3 LUX - P5 - FOOTPATHS
Results - Horizontal Illuminance (lux)
Eav= 3.05
Emin= 0.65
Emax= 9.17
Emin/Emax= 0.07
Emin/Eav= 0.21
Emax/Eav= 3.01

5 LUX - P4 - ROADS
Results - Horizontal Illuminance (lux)
Eav= 5.50
Emin= 1.14
Emax= 11.01
Emin/Emax= 0.10
Emin/Eav= 0.21
Emax/Eav= 2.00

3 LUX - P5 - FOOTPATHS
Results - Horizontal Illuminance (lux)
Eav= 4.01
Emin= 1.12
Emax= 10.88
Emin/Emax= 0.10
Emin/Eav= 0.28
Emax/Eav= 2.71

5 LUX - P4 - ROADS
Results - Horizontal Illuminance (lux)
Eav= 5.12
Emin= 1.68
Emax= 10.79
Emin/Emax= 0.15
Emin/Eav= 0.32
Emax/Eav= 2.11

3 LUX - P5 - FOOTPATHS
Results - Horizontal Illuminance (lux)
Eav= 3.80
Emin= 0.80
Emax= 11.77
Emin/Emax= 0.07
Emin/Eav= 0.21
Emax/Eav= 3.10

PL1	ISSUED FOR PLANNING	KP	KP	DC	08/05/2025
F	ISSUED FOR DESIGN DEVELOPMENT	KP	KP	DC	21/03/2025
E	ISSUED FOR DESIGN DEVELOPMENT	KP	KP	DC	24/02/2025
D	ISSUED FOR DESIGN DEVELOPMENT	KP	KP	DC	05/12/2024
C	ISSUED FOR DESIGN DEVELOPMENT	KP	KP	DC	30/04/2024
B	DESIGN ISSUE	KP	KP	DC	26/02/2024
ISSUE	DESCRIPTION	DRN	ORIG	APP	DATE

CLIENT **SOUTH DUBLIN COUNTY COUNCIL**

MANDE CONSULTING ENGINEERS Unit 4 Oak Close Western Business Park Dublin 12. D12 R8C6 T: (01) 4508485 W: www.mande.ie E: info@mande.ie

PROJECT **KISHOGE PART 10 APPLICATION SITE 3, CLONBURRIS, Co. DUBLIN**

TITLE **SITE 3 PLAN PUBLIC LIGHTING LAYOUT**

PROJECT No. **20026** DATE: **JANUARY 2024**

A1 SCALE **1:800** DRG No. **KSG3-MAE-00-XX-DR-E-6000**