



CALCULATION SUMMARY			
AREA	RESIDENTIAL ROADS	RESIDENTIAL SPINE ROAD	PUBLIC ROAD JUNCTION
CLASSIFICATION	P4	P2	C3
AVERAGE LUX	6.13	10.49	16.02
MINIMUM LUX	1.21	2.98	6.51
MAXIMUM LUX	12.47	20.15	26.05
UNIFORMITY	0.20	0.28	0.41
MAINTENANCE FACTOR:	0.94		
DESIGN REPORT REF:	20152-DD-00-REV/N		
DESIGN REPORT DATE:	14/08/2024		



REFER TO INSET DETAIL FOR CONTINUATION

- GENERAL NOTES:**
- THIS DRAWING IS COLOUR CODED.
  - EACH SERVICE SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE STANDARD DUCT AND CHAMBER DETAILS PROVIDED BY THE NETWORK UTILITY - BORO GAS, ESB, EIR, VIRGIN, CORK COUNTY COUNCIL.
  - THE EXACT LOCATION OF SERVICES AND FITTINGS IS SUBJECT TO SITE REVIEW AND MEASURE BY THE ELECTRICAL CONTRACTOR.
  - ALL DIMENSIONS ARE IN MILLIMETERS (mm), UNLESS OTHERWISE STATED.
  - ALL SERVICE DIMENSIONS AND SPECIFICATIONS SHALL BE AS PER THE NETWORK UTILITY.
  - THE LUMINAIRE TILT ANGLE SHALL BE ADJUSTABLE FROM 0 TO 10 DEGREES.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A STREET LIGHTING COMPLETION CERTIFICATE UPON COMPLETION AND COMMISSIONING.
  - THE ELECTRICAL INSTALLATION SHALL COMPLY WITH:
    - IS 10101:2020
    - THE ETCI REGULATIONS ET211 FOR EXTERNAL LIGHTING
    - THE ESB ELECTRICAL SERVICES GUIDEBOOK
    - CORK COUNTY COUNCIL GUIDELINES 2023.
  - A PHOTOCELL, AND CORRESPONDING TEST SWITCH, SHALL BE FITTED TO EACH LUMINAIRE IN COMPLIANCE WITH COUNCIL GUIDELINES.
  - THE GALVANIZED STEEL COLUMN SHALL HAVE A MINIMUM WALL THICKNESS OF 3mm.
  - THE LIGHTING COLUMN MANUFACTURER SHALL BE REGISTERED AND CERTIFIED BY NSAI.
  - CABLING SHALL BE 3x6mm<sup>2</sup> SWA TYPE TO BS 5467/1/2/3 0.6/1.0KV.
  - DUCTING SHALL HAVE MINIMUM COVER AS FOLLOWS:
    - 13.1. 600mm IN GRASS MARGINS
    - 13.2. 750mm AT ROAD CROSSINGS
  - FINAL LANDSCAPING ARRANGEMENT TO BE COORDINATED WITH LAMP STANDARD LOCATIONS.
- COLUMN SPECIFICATION:**
- IS EN60 COMPLIANT.
  - OCTAGONAL STEEL COLUMN.
  - HINGED COLUMNS AS NOTED ON THE SCHEDULE.
  - WALL THICKNESS OF MINIMUM 3mm.
  - INTERNALLY & EXTERNALLY GALVANISED TO BS EN 1461.
  - ROOT MOUNTED.
  - BOTTOM APPLIED TO BASE TO A HEIGHT OF 150mm ABOVE PLANTING LEVEL INTERNALLY & EXTERNALLY.
  - FASTENING CONNECTION.
  - 25 YEAR DESIGN LIFE.

**PUBLIC LIGHTING LEGEND:**

- TYPE A - PHILIPS BGP702 DW50 4.200Lm DIMMABLE CW/20 ED AND MOUNTED ON OCTAGONAL GALVANISED ROOTED COLUMN OF 6m HEIGHT GENERALLY CLO-28W, IP67, IK09, 35/18 LUX ON/OFF PHOTOCELL.
- TYPE B - PHILIPS BGP703 DW50 16,000Lm DIMMABLE WITH PROFILE U14 CW 40LED AND MOUNTED ON OCTAGONAL GALVANISED ROOTED COLUMN OF 8m HEIGHT GENERALLY CLO-95W, IP67, IK09, 35/18 LUX ON/OFF PHOTOCELL.
- TYPE C - PHILIPS BGP704 DW50 18,500Lm DIMMABLE WITH PROFILE U14 CW 80LED AND MOUNTED ON OCTAGONAL GALVANISED ROOTED COLUMN OF 10m HEIGHT CLO-109W, IP67, IK09, 35/18 LUX ON/OFF PHOTOCELL.

**PROJECT: COURTTOWN LRD**

REVNO	DATE	REVISION	DRAWN	DESIGNED	CHECKED	REVIEWED	SUBMITTED	APPROVED
N	14/08/24	SITE LAYOUT UPDATE	TR	GS	GS	GS	GS	GS
M	11/08/24	UPDATE FOR SUBMISSION	TR	GS	GS	GS	GS	GS
L	06/08/24	UPDATE FOR SUBMISSION	TR	GS	GS	GS	GS	GS
K	09/05/24	REVISED OPEN AREA	TR	GS	GS	GS	GS	GS
J	06/10/23	NORTH ADDED	TR	GS	GS	GS	GS	GS

**DRAWING & LAYOUT SUBJECT TO UTILITY/LOCAL AUTHORITY APPROVAL**

**DESIGN:**  
**HORIZON ENGINEERING CONSULTANTS LTD.**  
 UNIT 88 NESSAN HOUSE,  
 BESSBORO ROAD,  
 BLACKROCK,  
 CO. DK.

**DESCRIPTION:**  
 RESIDENTIAL DEVELOPMENT AT COURTTOWN LITTLE ISLAND

**PROJECT NO.:** 20152  
**SCALE:** 1:500  
**SIZE:** A1  
**DRAWING NO.:** 20152-PL-001  
**REV.:** N