



DRAWING TO BE PRINTED IN COLOUR TO ENABLE CORRECT IDENTIFICATION OF SYMBOLS, PROPOSED LIGHTING CABLING OR LINETYPES SHOWN

LIGHTING SCHEME DESIGNED IN ACCORDANCE WITH:

BS EN 12464-2:2014 TABLE 5.9 — PARKING AREAS

MAINTENANCE FACTOR: 0.85

LIGHTING CLASSIFICATION: 'LIGHT USE' CAR PARKING AREAS

MIN. MAINTAINED AVERAGE ILLUMINANCE (EAV): >5.00 LUX
EMIN/EAV (UNIFORMITY): >0.25 (20%)

NOTES:

ALL STREET LIGHTING IMPROVEMENTS WORK TO BE CARRIED OUT TO THE CURRENT CLIENT'S SPECIFICATIONS AND AGREEMENTS.

CONTRACTOR TO CONFIRM POSITION OF STATUTORY UNDERTAKERS PLANT BEFORE COMMENCEMENT OF THE WORKS.

DURING WORKS ALL TRAFFIC MANAGEMENT TO BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.

PROPOSED LIGHTING COLUMNS ARE TO BE LOCATED TO THE REAR OF THE FOOTPATH WHEREVER POSSIBLE OR A MINIMUM OF 1000mm SETBACK FROM FRONT KERB EDGING.

IF THE AUTHORITY OR CONTRACTOR EXPERIENCE ANY PART DISCREPANCY BETWEEN THIS DRAWING OR ANY OF THE DOCUMENTS RELATING TO THIS SITE THE AUTHORITY OR CONTRACTOR MUST CONTACT THE LIGHTING DESIGNER FOR CLARIFICATION.

UNIT NUMBERS SHOWN ARE FOR DESIGN IDENTIFICATION PURPOSES ONLY.
FINAL COLUMN NUMBERING SHALL BE AGREED WITH THE OVERSEEING ORGANISATION.

NO WORKS SHALL BE CONSTRUCTED UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE LOCAL AUTHORITY BY THE DEVELOPER. SHOULD WORKS BE CONSTRUCTED WITHOUT APPROVAL THEY WILL BE ENTIRELY AT THE DEVELOPERS RISK. UNLESS OTHERWISE STATED WITHIN THE QUOTATION PROVIDED BY MMA LIGHTING CONSULTANCY, MMA LIGHTING CONSULTANCY HAVE NOT SUBMITTED THIS DESIGN FOR TECHNICAL COMMENTS/APPROVAL.

CURRENT STATUTORY SERVICE RECORD PLANS SHOULD BE OBTAINED BY THE CONTRACTOR/OVERSEEING ORGANISATION BEFORE COMMENCEMENT OF ANY STREET LIGHTING INSTALLATION OR REMOVAL WORKS.
ALL SERVICES ARE TO BE LOCATED AND IDENTIFIED PRIOR TO INSTALLING OR REMOVING ANY LIGHTING COLUMNS. WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH HSE GS6, ENA 43-6, HSE HGS47, G39/1 AND ALL RELEVANT HSE REGULATIONS.

DETAILS OF EXISTING STATUTORY UNDERTAKERS PLANT ARE TO BE OBTAINED BY THE CLIENT AND THE CONTRACTOR MAY EXAMINE THESE RECORDS AT THE ENGINEERS OFFICE. ALL WORKS IN THE VICINITY OF ANY OVERHEAD CABLES SHALL CONFORM TO THE REQUIREMENTS OF HSE GUIDANCE NOTE G58 'AVOIDANCE OF DANGER FROM OVERHEAD LINES' AND ALL WORKS IN THE VICINITY OF UNDERGROUND MAINS OR CABLES SHALL CONFORM TO THE REQUIREMENTS OF HSE GUIDANCE NOTE HGS47 'AVOIDING DANGER FROM UNDERGROUND SERVICES' AND ANY ADDITIONAL REQUIREMENTS SPECIFIED BY THE RELEVANT UNDERTAKER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR LIAISON WITH THE UNDERTAKERS AND FOR PROGRAMMING THE AGREED PROTECTION AND/OR DIVERSION WORKS TO ANY STATUTORY UNDERTAKERS APPARATUS INTO THE OVERALL WORKS PROGRAMME (THIS IS TO INCLUDE ADJUSTMENT OF STATS COVERS).

ANY DAMAGE TO PLANT OR APPARATUS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

NO WORKS SHALL BE CONSTRUCTED UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE OVERSEEING ORGANISATION BY THE DEVELOPER. NO WORKS SHALL BE CONSTRUCTED WITHOUT APPROVAL. IF CARRIED OUT THEN THEY WILL BE ENTIRELY AT THE DEVELOPERS RISK. UNLESS OTHERWISE STATED WITHIN THE QUOTATION PROVIDED BY MMA LIGHTING CONSULTANCY, THIS DESIGN HAS NOT BEEN SUBMITTED FOR TECHNICAL APPROVAL.

Street Lighting Key:

Symbol	Description
	Lighting Column: Proposed galvanneal tubular steel lighting column of 6.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to: EN 40, BS EN 1461 & BS 5649 standards
Qty 17	Luminaire: CU Phosco P852K Mounting Type: Post top mounted Manufacturer Ref: P852K-12-C1-WW-CA0250-11W Lumen Output: 1.29klm Luminaire Wattage: 11 w Colour Temperature: 3000k Warm White Luminaire Tilt: 0° Luminous Intensity: G4 Control Gear: Electronic DALI enabled driver Control Type: Lucy Zodion ZCELL LED 20 lux (1:1 ratio) Dimming Profile: N/A Supply: To be taken direct from LV Primary Isolator: Double pole Isolator with 32A double pole switch and BS88-2 6A HRC fuse to luminaire Secondary Isolator: N/A

	Lighting Column: Proposed galvanneal tubular steel lighting column of 6.0 metre nominal height with a planted base with glass flake root protection & Twin Outreach Bracket. Column to be manufactured to: EN 40, BS EN 1461 & BS 5649 standards
Qty 2	Luminaire: 2 x CU Phosco P852K Mounting Type: 2 x 0.5m Outreach Bracket Manufacturer Ref: P852K-12-C1-WW-CA0250-11W Lumen Output: 1.29klm Luminaire Wattage: 11 w Colour Temperature: 3000k Warm White Luminaire Tilt: 0° Luminous Intensity: G4 Control Gear: Electronic DALI enabled driver Control Type: Lucy Zodion ZCELL LED 20 lux (1:1 ratio) Dimming Profile: N/A Supply: To be taken direct from LV Primary Isolator: Double pole Isolator with 32A double pole switch and BS88-2 6A HRC fuse to luminaire Secondary Isolator: N/A

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Qty 2	Luminaire: CU Phosco P852K Mounting Type: Post top mounted Manufacturer Ref: P852K-12-C1-WW-CA0300-13W Lumen Output: 1.52klm Luminaire Wattage: 13 w Colour Temperature: 3000k Warm White Luminaire Tilt: 0° Luminous Intensity: G4 Control Gear: Electronic DALI enabled driver Control Type: Lucy Zodion ZCELL LED 20 lux (1:1 ratio) Dimming Profile: N/A Supply: To be taken direct from LV Primary Isolator: Double pole Isolator with 32A double pole switch and BS88-2 6A HRC fuse to luminaire Secondary Isolator: N/A

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UNIT NUMBERING KEY:
P* Proposed Private lighting column identification number

ELECTRICAL CONNECTION TYPE:

TBC Electrical supply to be confirmed by others

LIGHTING ISOLUX CONTOUR KEY:

1.00 Isolux contour line
0.50 Isolux contour line
0.01 Isolux contour line

UTILITIES KEY:

Existing Electric Cable
Existing LP Gas Main

REV	AMENDMENT	DATE	INITIAL
R0	Initial design with base '2107331-XR-Site Plan'	19/07/2023	MD
R1	Adjusted P01, P02, P03, P04, P05, P13 & P15.	19/07/2023	MD
R2	Adjusted P20, P21 and P22 as requested.	20/09/2023	HC
R3	New base '2107331-XR-External Finishes Plan'	06/03/2024	MD
R4	Supply to Street lights amended.	18/03/2024	HC

MMA

LIGHTING CONSULTANCY

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Project title
DEE ROAD, READING

Drawing title
PRIVATE STREET LIGHTING DESIGN
SHEET 1 OF 1

Prepared by MD Checked by HC

Scale 1:500 @ A1 Date 18.03.2024

Drawing Number
MMA18023/001
Revision Details
R4

Supply to Street lighting to be taken direct from LV

RESIDUAL DESIGN HAZARDS:

LOCATION OF EXISTING UTILITY SERVICES TO BE DETERMINED ON SITE BY THE CONTRACTOR.
INSTALLATION WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS INCLUDING BS 7671, G39/1, HSG47 AND THE INSTITUTION OF LIGHTING PROFESSIONALS GENERAL PUBLICATION 03 (ILP GP03).

- UNDERGROUND LOW VOLTAGE ELECTRICITY CABLE
- UNDERGROUND HIGH VOLTAGE ELECTRICITY CABLE
- UNDERGROUND LP GAS MAINS
- UNDERGROUND WATER MAINS
- UNDERGROUND FIBRE/CABLE TV ROUTE
- UNDERGROUND BT COMMUNICATION CABLES