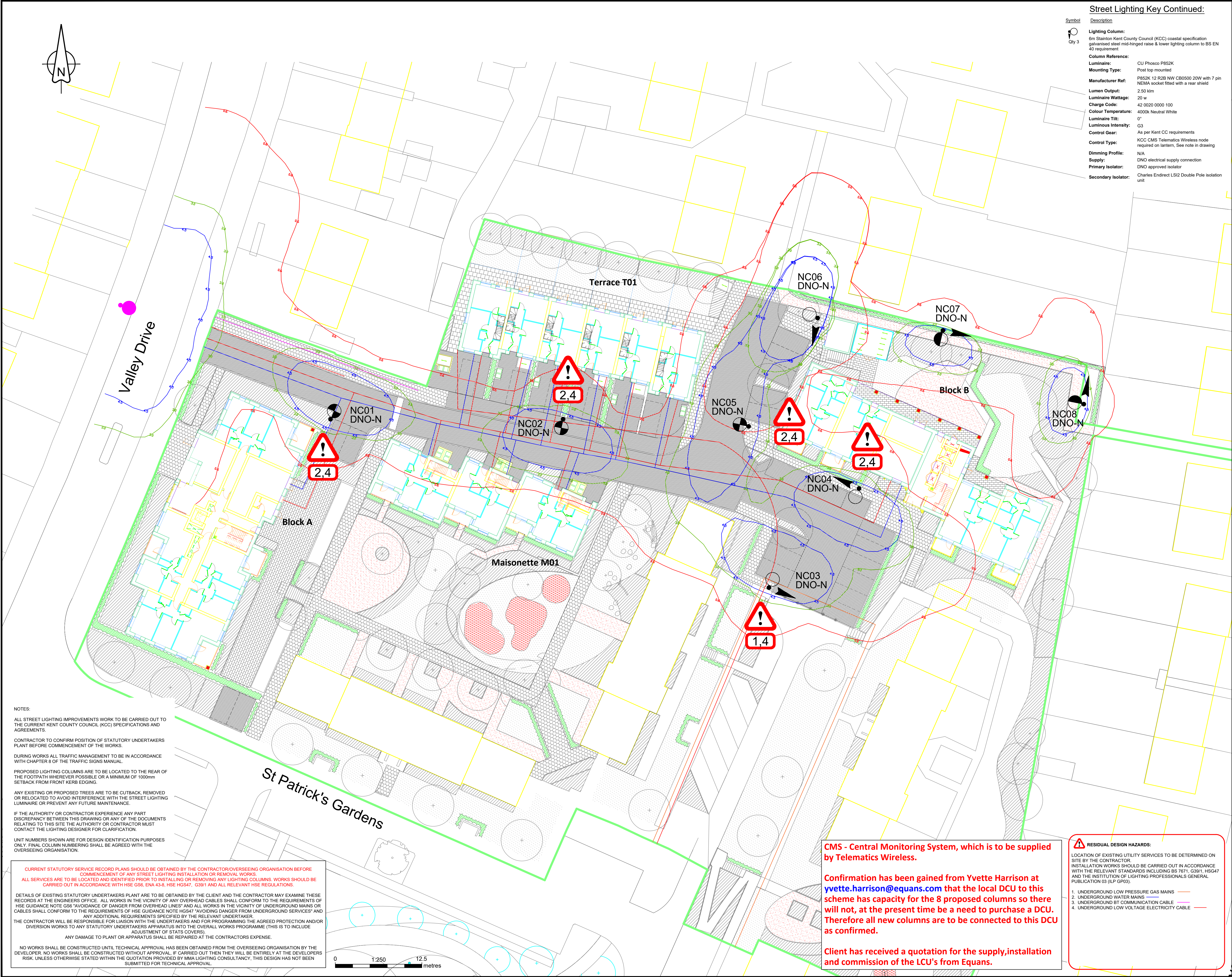




Street Lighting Key Continued:

Symbol	Description
	Qty 3
Lighting Column: 6m Stainton Kent County Council (KCC) coastal specification galvanised steel mid-hinged raise & lower lighting column to BS EN 40 requirement	
Column Reference: CU Phosco P852K	
Luminaire: Post top mounted	
Manufacturer Ref: P852K 12 R2B NW CB0500 20W with 7 pin NEMA socket fitted with a rear shield	
Lumen Output: 2.50 km	
Luminaire Wattage: 20 w	
Charge Code: 42 0020 0000 100	
Colour Temperature: 4000K Neutral White	
Luminaire Tilt: 0°	
Luminous Intensity: G3	
Control Gear: As per Kent CC requirements	
Control Type: KCC CMS Telematics Wireless node required on lantern. See note in drawing	
Dimming Profile: N/A	
Supply: DNO electrical supply connection	
Primary Isolator: DNO approved isolator	
Secondary Isolator: Charles Endirect LS12 Double Pole isolation unit	

Street Lighting Key:

Symbol	Description
	Qty 3
Lighting Column: 6m Stainton Kent County Council (KCC) coastal specification galvanised steel mid-hinged raise & lower lighting column to BS EN 40 requirement	
Column Reference: CU Phosco P852K	
Luminaire: Post top mounted	
Manufacturer Ref: P852K 12 R2B NW CB0500 20W with 7 pin NEMA socket fitted with a rear shield	
Lumen Output: 2.50 km	
Luminaire Wattage: 20 w	
Charge Code: 42 0020 0000 100	
Colour Temperature: 4000K Neutral White	
Luminaire Tilt: 0°	
Luminous Intensity: G3	
Control Gear: As per Kent CC requirements	
Control Type: KCC CMS Telematics Wireless node required on lantern. See note in drawing	
Dimming Profile: N/A	
Supply: DNO electrical supply connection	
Primary Isolator: DNO approved isolator	
Secondary Isolator: Charles Endirect LS12 Double Pole isolation unit	

Symbol	Description
	Qty 2
Lighting Column: 5m Stainton Kent County Council (KCC) coastal specification galvanised steel mid-hinged raise & lower lighting column to BS EN 40 requirement	
Column Reference: CU Phosco P852	
Luminaire: Post top mounted	
Manufacturer Ref: P852 12 R2B NW CB0200 9W with 7 pin NEMA socket fitted with a rear shield	
Lumen Output: 1.09 km	
Luminaire Wattage: 9 w	
Charge Code: 42 0009 0000 100	
Colour Temperature: 4000K Neutral White	
Luminaire Tilt: 0°	
Luminous Intensity: G3	
Control Gear: As per Kent CC requirements	
Control Type: KCC CMS Telematics Wireless node required on lantern. See note in drawing	
Dimming Profile: N/A	
Supply: DNO electrical supply connection	
Primary Isolator: DNO approved isolator	
Secondary Isolator: Charles Endirect LS12 Double Pole isolation unit	

Existing lighting column to remain (contributory lighting purposes only)

Denotes direction of travel for mid-hinged raise & lower lighting column

UNIT NUMBER KEY:

NC*	Proposed lighting column identification number
DNO	Proposed Distribution Network Operator electrical supply connection
ELECTRICAL CONNECTION TYPE: Proposed Distribution Network Operator electrical supply connection	
LIGHTING ISOLUX CONTOUR KEY: 4.5 Isolux contour line 3.0 Isolux contour line 0.6 Isolux contour line	

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

LIGHTING SCHEME DESIGNED IN ACCORDANCE WITH:
BS 5489-1:2020 & BS EN 13201-2:2015

S/P RATIO: N/A
MAINTENANCE FACTOR: 0.76

LIGHTING CLASSIFICATION: P4 ROADWAY
MIN. MAINTAINED AVERAGE ILLUMINANCE (EAV): >0.00 LUX <7.50 LUX
MIN. ILLUMINANCE (EMIN): >1.00 LUX
EMIN/EAV (UNIFORMITY): >0.20 (20%)

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

LIGHTING SCHEME DESIGNED IN ACCORDANCE WITH:
BS 5489-1:2020 & BS EN 13201-2:2015

S/P RATIO: N/A
MAINTENANCE FACTOR: 0.76

LIGHTING CLASSIFICATION: P5 FOOTPATH
MIN. MAINTAINED AVERAGE ILLUMINANCE (EAV): >3.00 LUX <4.50 LUX
MIN. ILLUMINANCE (EMIN): >0.60 LUX
EMIN/EAV (UNIFORMITY): >0.20 (20%)

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.

REV	AMENDMENT	DATE	INITIAL
R0	INITIAL DESIGN - BASE DRAWING USED 'SCC-BP1W-Q4-00-M2-A-0210-C03-A3'	16/04/2024	BR

MMA

LIGHTING CONSULTANCY

Exterior Lighting Design Specialists

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Phone: 0118 321 5636 Email: info@mma-consultancy.co.uk
www.mma-consultancy.co.uk

Project title LAND AT ST. COLUMBA'S, GRAVESEND DA12	
Drawing title S38 STREET LIGHTING DESIGN SHEET 1 OF 1	
Prepared by BR	Checked by HC
Scale 1:250 @ A1	Date 16/04/2024
Drawing Number MMA18541/001	Revision Details R0

NOTES:

ALL STREET LIGHTING IMPROVEMENTS WORK TO BE CARRIED OUT TO THE CURRENT KENT COUNTY COUNCIL (KCC) 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.

ANY EXISTING OR PROPOSED TREES ARE TO BE CUTBACK, REMOVED OR RELOCATED TO AVOID INTERFERENCE WITH THE STREET LIGHTING LUMINAIRE OR PREVENT ANY FUTURE MAINTENANCE.

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.

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 G56, ENA 434, HSE H6587, G391 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 G56 "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 H6547 "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 STAKES 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.

CMS - Central Monitoring System, which is to be supplied by Telematics Wireless.

Confirmation has been gained from Yvette Harrison at yvette.harrison@equans.com that the local DCU to this scheme has capacity for the 8 proposed columns so there will not, at the present time be a need to purchase a DCU. Therefore all new columns are to be connected to this DCU as confirmed.

Client has received a quotation for the supply, installation and commission of the LCU's from Equans.

- 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, G391, H6547 AND THE INSTITUTION OF LIGHTING PROFESSIONALS GENERAL PUBLICATION 03 (ILP GP03).
1. UNDERGROUND LOW PRESSURE GAS MAINS
 2. UNDERGROUND WATER MAINS
 3. UNDERGROUND BY COMMUNICATION CABLE
 4. UNDERGROUND LOW VOLTAGE ELECTRICITY CABLE