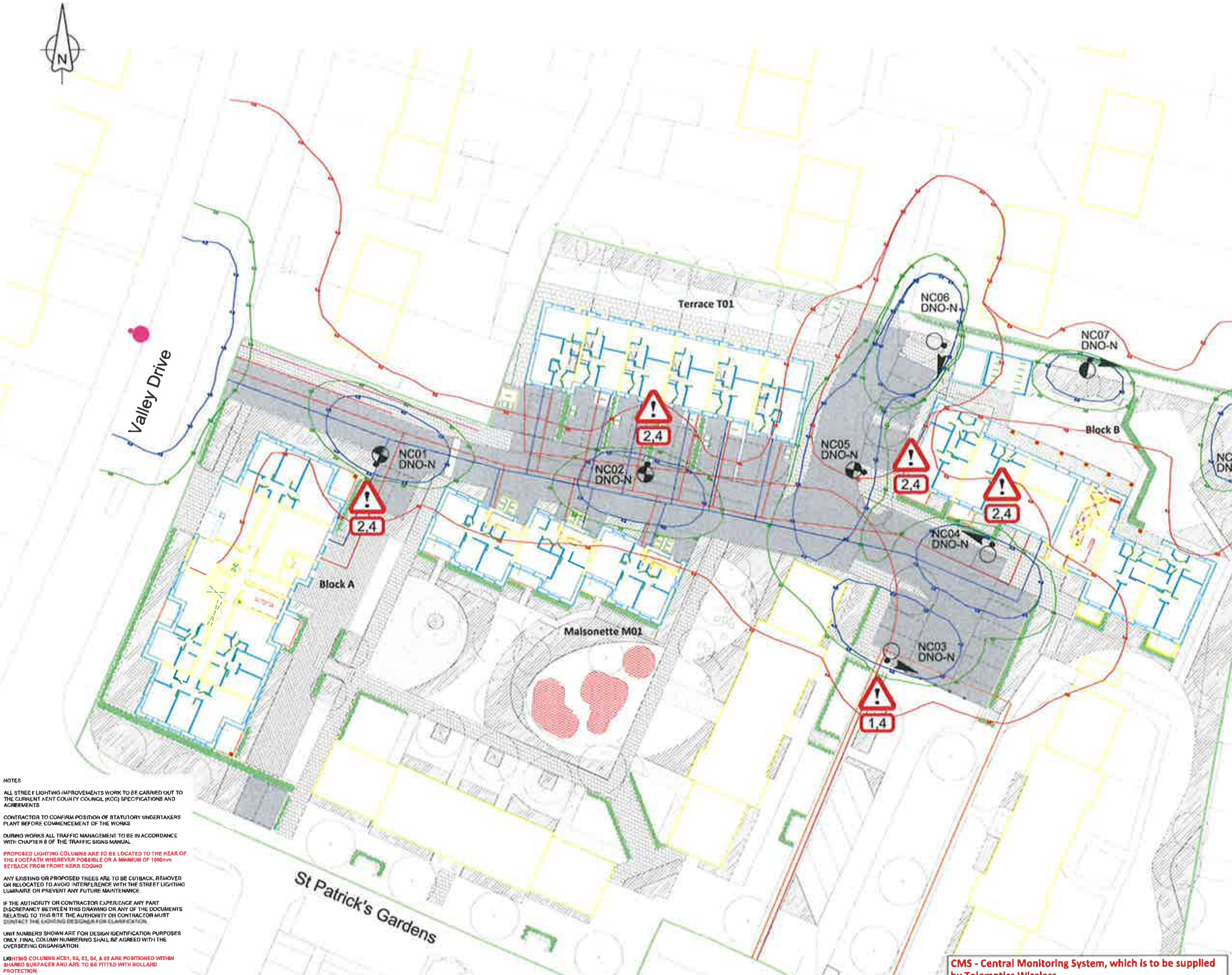

Street Lighting Key Continued:

Symbol	Description	
Qty 3	**Lighting Column:** 6m Stanton Kent County Council (KCC) coastal specification galvanised steel mid-hinged raise & lower lighting column to BS EN 40 requirement	
	Column Reference:	
	Luminaire:	CU Phosco P852K
	Mounting Type	Post top mounted
	Manufacturer Ref:	P852K 12 R28 NW C80500 20W with 7 pin NEMA socket fitted with a rear shield
	Lumen Output:	2.50 klm
	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 LSI2 Double Pole isolation unit

Street Lighting Key:

Symbol	Description	
Qty 3	**Lighting Column:** 6m Stanton Kent County Council (KCC) coastal specification galvanised steel lighting column to BS EN 40 requirement	
	Column Reference:	
	Luminaire:	CU Phosco P852K
	Mounting Type	Post top mounted
	Manufacturer Ref:	P852K 12 R28 NW C80500 20W with 7 pin NEMA socket fitted with a rear shield
	Lumen Output:	2.50 klm
	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 LSI2 Double Pole isolation unit
Qty 2	**Lighting Column:** 5m Stanton Kent County Council (KCC) coastal specification galvanised steel mid-hinged raise & lower lighting column to BS EN 40 requirement	
	Column Reference	
	Luminaire:	CU Phosco P852
	Mounting Type:	Post top mounted
	Manufacturer Ref:	P852 12 R28 NW C80200 9W with 7 pin NEMA socket fitted with a rear shield
	Lumen Output:	1.09 klm
	Luminaire Wattage:	9 w
	Charge Code	42 0008 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 LSI2 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 NUMBERING KEY:

NC* Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE:

DNO Proposed Distribution Network Operator electrical supply connection

LIGHTING ISOLUX CONTOUR KEY

- 4.5 Isolux contour line
- 5.5 Isolux contour line
- 9.8 Isolux contour line

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 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): >5.00 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 CABLING 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: P6 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 [illegible]	16/04/2024	BR
R1	AMENDMENT COMMENTS	07/08/2024	BR

MMA
LIGHTING CONSULTANCY
Exterior Lighting Design Specialists
[illegible]

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 07/08/2024
Drawing Number MMA18541/001	Revision Details R1

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

LIGHTING COLUMNS NC01, 02, 03, 04, & 05 ARE POSITIONED WITHIN SHARED SURFACES AND ARE TO BE FITTED WITH BOLLARD PROTECTION

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 43-8, 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 GS6 "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.

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

Confirmation has been gained from Jemma Dunville at jemma.dunville@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, G39/1, HSG47 AND THE INSTITUTION OF LIGHTING PROFESSIONALS GENERAL PUBLICATION 03 (ILP GP03).

1. UNDERGROUND LOW PRESSURE GAS MAINS
2. UNDERGROUND WATER MAINS
3. UNDERGROUND BT COMMUNICATION CABLE
4. UNDERGROUND LOW VOLTAGE ELECTRICITY CABLE