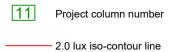
Key

Existing highway lighting using LED lantern to remain

Proposed steel galvanised 6m column with Cardiff embellishment kit, DW Windsor lantern (Windsor Street -LX3- 16LED-3k-A1 250mA) with warm white LED with 1480 lumen output, DALI Extreme ballast, and Telensa 2 part telecell and twig antenna (see note 8 & 10)
All finished RAL9005 Black Finish



Proposed steel galvanised 6m column with DW Windsor Kirium Pro mini (KIRIUM PRO MINI 16LED 3k D1 200mA) with warm white LED with 1310 lumen output, DALI Extreme ballast, 7 pin nema and Telensa 5 pin nema with GPS product code T2E1N G-3,(see note 8 &



----- 0.4 lux iso-contour line

DNO(N) New DNO supply Wattage:14w

Charge Code : 42 0014 0000 100 Switching Regime: 821 Burning hours 4150

Wattage:10w Charge Code : 42 0010 0000 100 Switching Regime: 821 Burning hours 4150

Off site 498792.53 275108.02 R2 498784.42 275068.58 498776.75 275023.62 R3 S1 498901.95 275115.70 On site 498899.76 275100.97 Α1 498874.31 A2 275071.87 498856.94 275041.06 **A**3 498783.88 275027.76 B2 498805.25 274997.50

498832.00

498812.75

498810.50

COL.

NO.

C2

POSITION OF COLUMN

COL.

282

287

200

298

300

19

12

104

196

110

102

274998.00

275043.75

275081.50

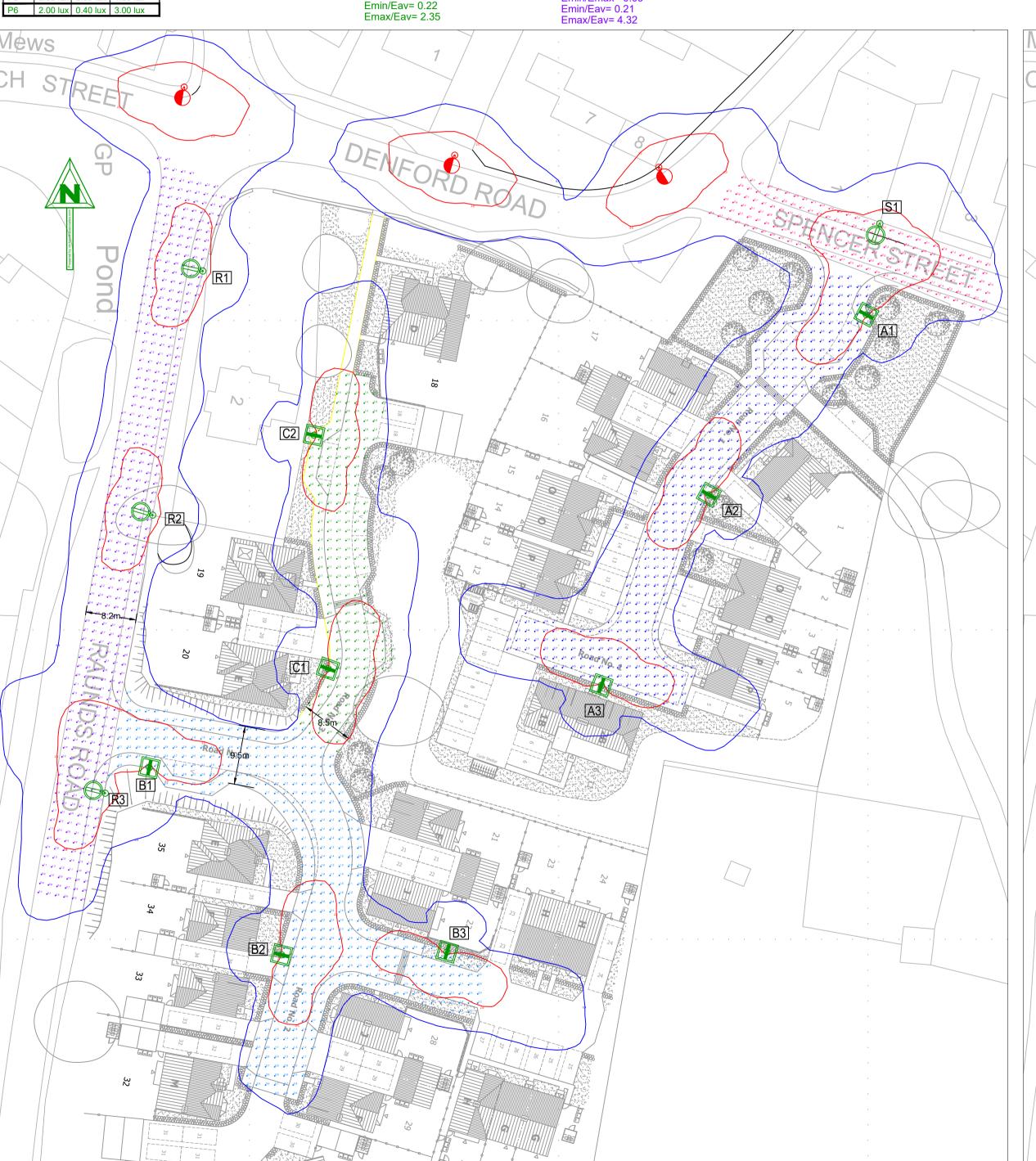
ROT'N





DW Windsor Kirium Pro mini lantern

"Windsor Street"



Results - Horizontal Illuminance (lux)

Results - Horizontal Illuminance (lux)

Results - Horizontal Illuminance (lux)

Spencer Street

Eav= 2.50

Emin= 0.49

Emax= 11.64

Emin/Emax= 0.04

Emin/Eav= 0.20

Raunds Road

Eav= 2.35

Emin= 0.49

Emax= 10.14

Emin/Emax= 0.05

Emax/Eav= 4.66

Results - Horizontal Illuminance (lux)

Results - Horizontal Illuminance (lux)

Eav= 2.24

Comparable Level of Lighting Classes from EN13201-2:2015

Summary of Lighting P Classes from EN13201-2:2015

Class Eave E Min E Ave Max

Emin= 0.48

Emin= 0.41

Emax= 5.83

Eav= 2.35

Emin= 0.52 Emax= 5.53

Emin/Emax= 0.09

Emin/Eav= 0.22

Emin/Emax= 0.07

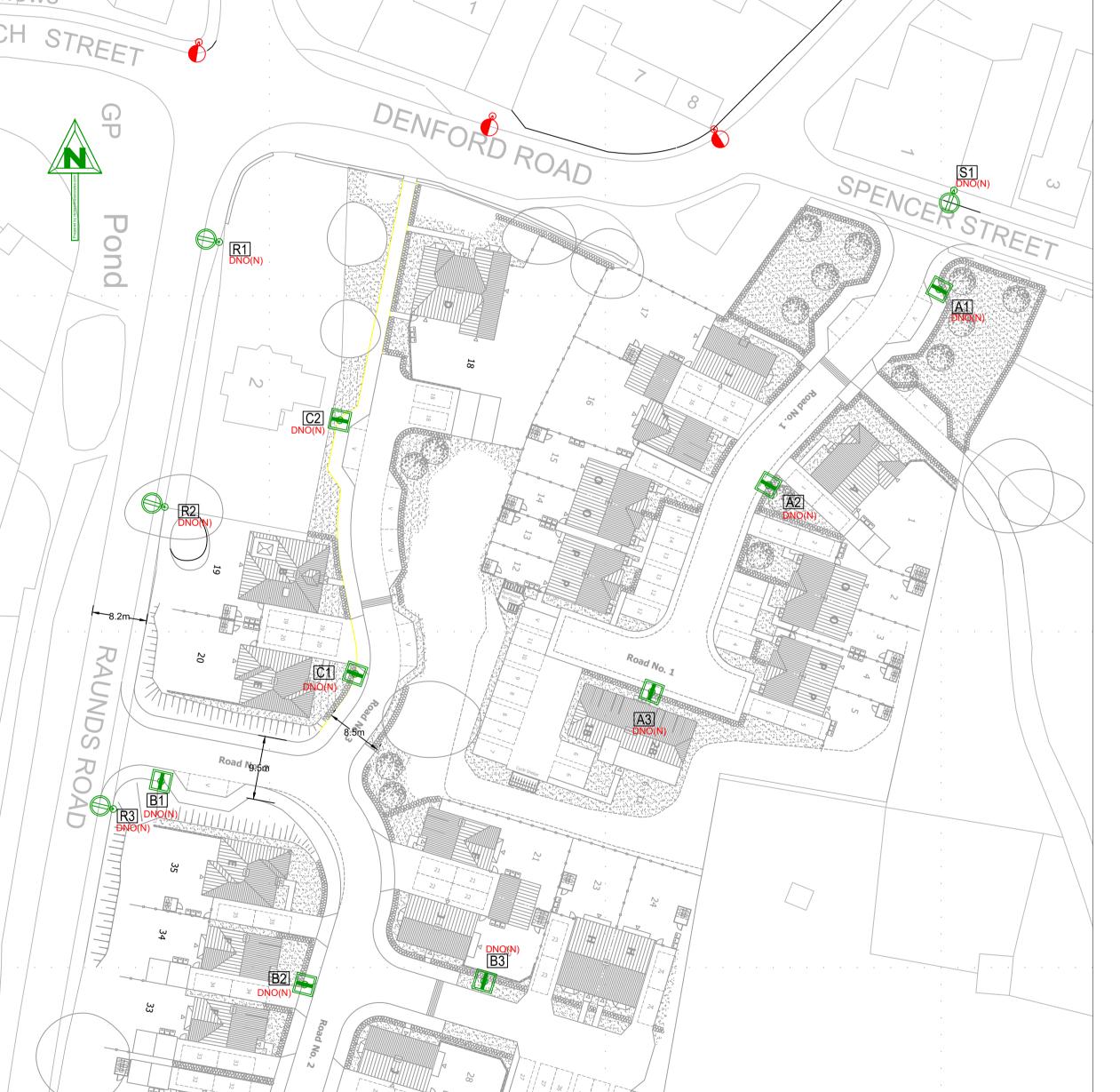
Emin/Eav= 0.20

Emax/Eav= 2.82

Emax= 5.72 Emin/Emax= 0.08

Emin/Eav= 0.22

Emax/Eav= 2.56



Notes

All equipment shall be supplied and installed in accordance with Northamptonshire County Council specification and

All Columns and illuminated signs shall be serviced by DNO supplies from Western Power Distribution. The column shall be fitted with secondary isolation above the DNO cut out. The Unit shall be as Northamptonshire specification i.e. Charles Endirect LSI-02 with a 32A Double pole isolator and 6A BS88 Fuse Carrier. Fuse discrimination shall comply with BS7671 between the DNO cut out and the secondary isolation. 6mm² tails to be provided between the secondary isolator and DNO cut-out. 3-core flexible cable with white coloured outer sheathing to be used for connection of lantern.

Prior to any excavation the contractor shall have reviewed the existing services in the area of the excavation. Residual risks where known have been indicated. The have been based upon design drawing and may have changed at construction stage. Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavation.

. In this instance the use of 3 dimensional masking has not been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.

. Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2015

Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Maclean Electrical (www.maclean.co.uk) or Marwood Electrical

Copies of the original Lighting Reality design files are available upon request.

(www.marwoodelectrical.co.uk)

Contact must be made before installation with Balfour Beatty to allow commissioning of the Telensa equipment on to the system. Lighting will not function unless this occurs. For details of the exact requirements please contact: Mr Neil Platt, CMS Manager | Balfour Beatty Living Places T 01332 576 368 | M 07886357113 E-mail:Neil.Platt@bblivingplaces.com

Contractor must contact Neil Platt at least three months prior to commencement of works for details of the Telensa system

This design has been prepared in accordance with BS5489-1:2020 the use of S/P ratios has not been used.

10.Lantern ballast to be pre-programmed to provide light output dimmed to 60% from 22.00 Hrs to 06.00 Hrs.

1. All new columns to be cabled and terminated into isolators in 1.5mm² 3 core flex.

REV DETAILS

Drawing Number 2985-D-01

Paul Newman Homes

Raunds Road / Spencer Street Ringstead, Kettering, Northamptonshire

Drawing Title

Proposed

Road Lighting

and Illuminance

Layout

Sheet 1 of 1 17.10.2023

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