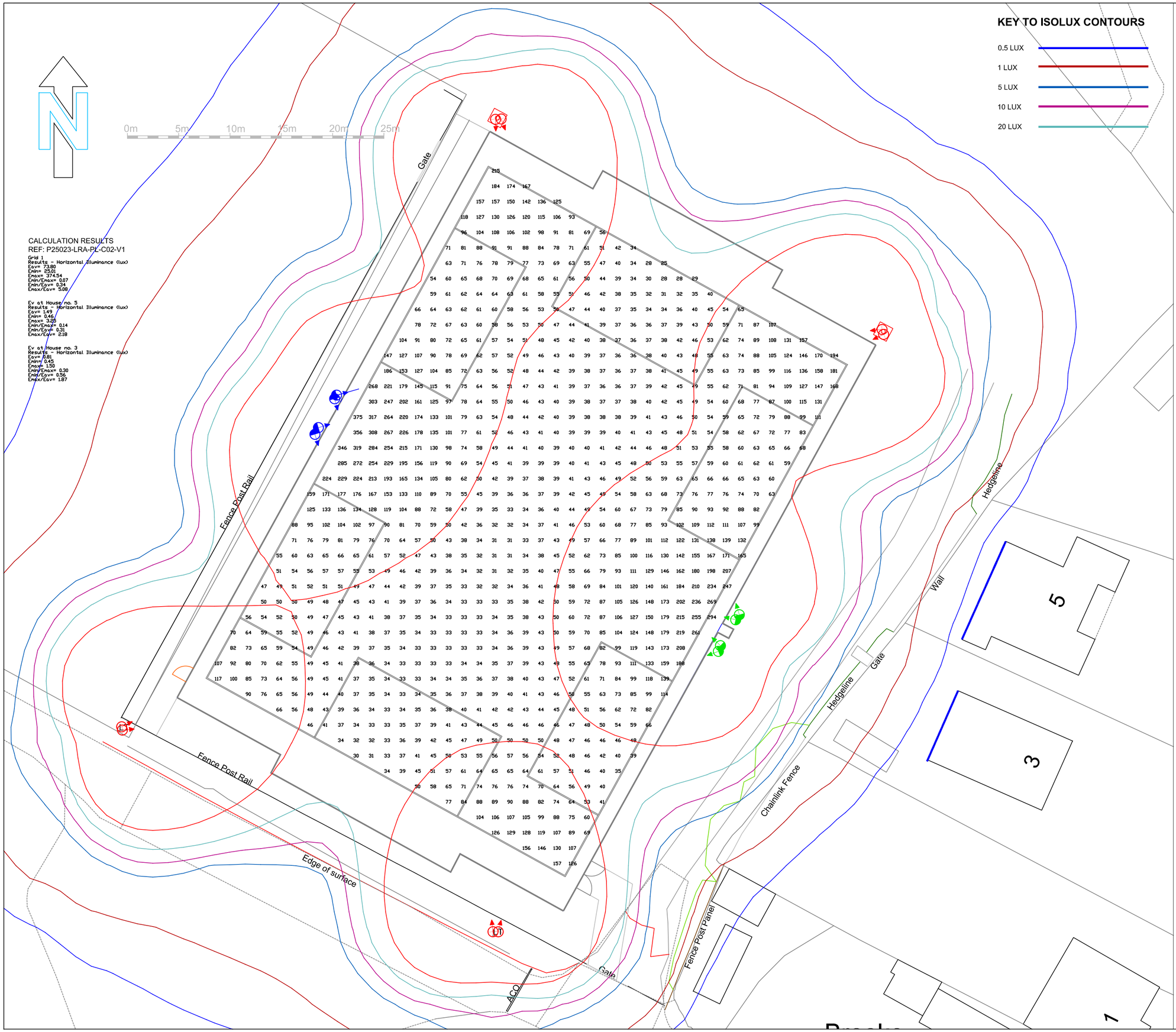

KEY TO LUMINAIRE SYMBOLS

Type 'A'
Proposed new LED floodlight mounted on existing 6m column at 10° upward tilt from the horizontal
Luminaire: Carbon8 Lighting 'Discuss 200W' c/w cool white (5000K) LEDs and type 'T4-B' optic. Flux: 33.95klm

Type 'B'
Proposed new LED floodlight mounted on existing 6m column at 10° upward tilt above the horizontal
Luminaire: Carbon8 Lighting 'Discuss 150W' c/w cool white (5000K) LEDs and type 'T4-B' optic, and the suppliers front shroud. Flux: 22.47klm

Type 'C'
Proposed new LED floodlight mounted on existing 7m column (6metre with a 1m extension) at 10° upward tilt above the horizontal
Luminaire: Carbon8 Lighting 'Discuss 150W' c/w cool white (5000K) LEDs and type 'T4-B' optic. Flux: 22.47klm

DESIGN NOTES

This lighting design re-uses the existing column positions in accordance with the previously installed lighting layout designed by others.

Although no formal design drawings for the existing installation are available, information supplied by the client, supported by on-site assessment, indicates that the current system provides approximately 70 lx average horizontal illuminance with 28% uniformity across the playing area.
However, the existing scheme also produces up to 17 lx vertical illuminance on the windows of No. 5 Oakley Hill, located to the east.

The proposed design improves the lighting performance on the pitch compared to the existing installation, while also significantly reducing obtrusive light at the two adjacent residential properties.

Light spill into the residential dwellings is calculated by positioning 6 metre high vertical illuminance grids on the rear elevations of the property, as shown on the drawing.

The predicted vertical illuminance at these properties falls well within the limits defined in ILP Guidance Note GN01: The Reduction of Obtrusive Light for an Environmental Zone E3, namely:

10 lx pre-curfew
2 lx post-curfew

The lighting is programmed to switch off from 21:30, ensuring no post-curfew light spill.
The calculated results confirm that the pre-curfew limit is comfortably achieved.
All lighting calculations have been performed with a maintenance factor of 1.0, representing initial performance at commissioning (i.e., day-one output with all luminaires operating at full power).

The installation of new floodlighting will require new capability of laod calculations to confirm that these lights can be safely accomodated on the existing columns

GENERAL NOTES

1. This drawing must be printed in colour

2. No element of this design may be pruchased or constrcuted until approval is granted by the overseeing authority

3. Do not scale from this drawing

Rev.	DESCRIPTION	DRWN	CHK	DATE
P01	First issue	SDL	DPL	27.02.26

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CLIENT/CUSTOMER
CHAPMAN LILY PLANNING

PROJECT
COBHAM SPORTS CLUB
WIMBORNE

TITLE
LIGHTING
CALCULATION

DRAWN	SCALE	DATE
SDL	1:250 @ A2	27.02.26

DRAWING NUMBER	ISSUE
P25023-DRG-PL-03	P01

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