

JV TIERNEY & CO

MECHANICAL ELECTRICAL & SUSTAINABLE ENGINEERS



SITE LIGHTING REPORT

21 First Avenue, Cookstown Development

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21 First Avenue, Cookstown Development LIGHTING REPORT

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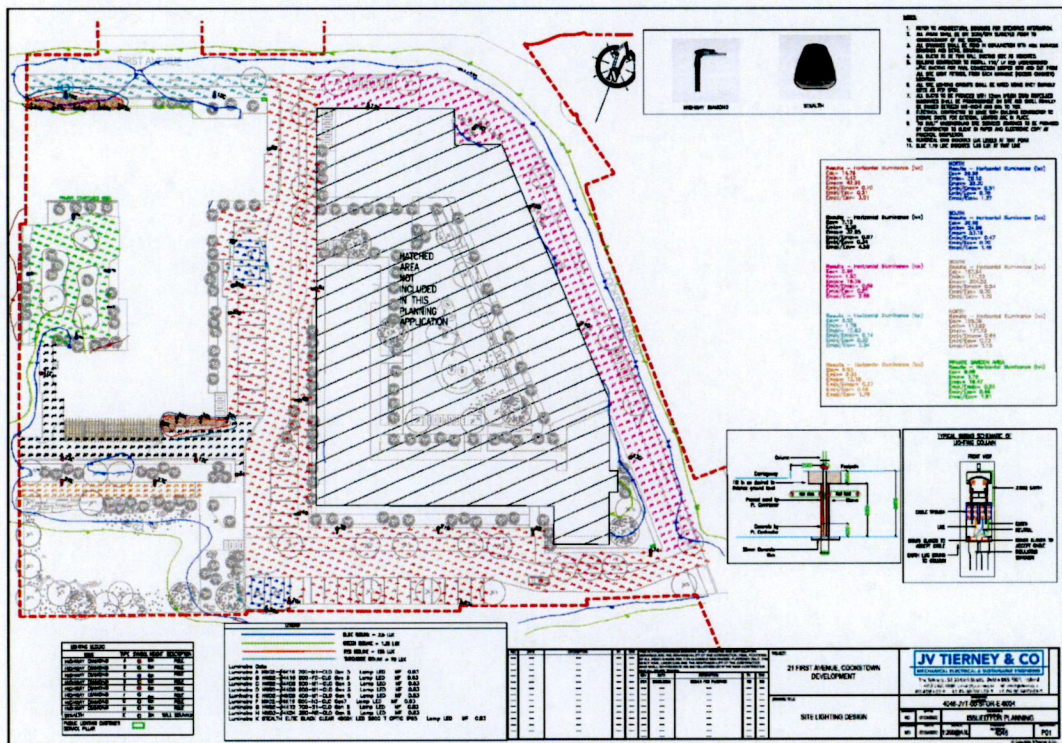
1. Lighting Design Narrative

The proposed development includes the construction of a 1-5 storey Transitional Care Facility (step-up/step-down) providing 131 no. bedspaces over partial basement (total floor area c.6,743sqm) with central courtyard (c.519sqm), there are also various pedestrian pathways and roadways around the site. As per SDCC public lighting specification in accordance with I.S. EN 132021-2:2015 & BS 5489-1:2013 pathways and roads should have a minimum light level. Therefore, all walkway areas must be lit to a P4 lighting class and roadways must be lit to a P2 lighting class with the calculation surface on the ground in these cases. As per Part M, the stairs and ramps on this site must be lit to a minimum of 100 lux. Disabled parking spaces have also been lit to 20 lux minimum as per Part M requirement. These stipulations are achieved throughout as per the site lighting drawing no. 4046-JVT-ZZ-SI-DR-E-6004.

The control of the proposed lighting layout will be operated by presence detection within the transitional care facility's courtyard. Lights will dim down when there are no pedestrians on the paths, once presence is detected the lights will return to their full output. The lights that are on the street/ road areas are controlled by photocell and shall come on during hours of darkness. Moreover, the selection of lights used within the design can be seen in appendix B, all luminaires chosen are LED type.

Considering the amount of lighting fixtures, 2 number of micro lighting pillar are required. Their locations are seen below in appendix A, drawing no. 4046-JVT-ZZ-SI-DR-E-6004.

Appendix A



Appendix B



Highway Diamond



Stealth Elite

This Report was prepared by:

Robert Donnelly

Signed:

A rectangular image showing a handwritten signature in black ink on a light-colored background. The signature is cursive and appears to read 'R. Donnelly'.

Robert Donnelly, Project Engineer

J.V. Tierney & Co.

Date: 09/09/2022