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Library Square Ringsend – Public Realm Improvement and Library Refurbishment and ExtensionLighting Report

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Contents

1. Lighting Design Narrative	. 2
Appendix A	. 4
Appendix B	. 5

1. Lighting Design Narrative

The proposed scheme specifically provides for the improvement of the public realm around Ringsend Library, including; the narrowing of the over-wide carriageway on Bridge Street / Irishtown Road and hardening of the sweeping bend; levelling of the square which will be gradually graded over the entire space with restoration of stepped access to the original front door of the Library and a universally accessible access to the new main entrance to the library located on the north facing facade; proposed surface treatment to carry across the road from the west side of the Square to the east side on one level, using a defined palette of materials, thereby creating a greater sense of continuity for pedestrians. Cycle parking and broadening of the square space; creation of public space delineated with planters to the north & east and to include specimen tree planting and appropriate lighting. Some customer parking for retail units & controlled loading bays for businesses. Relocation of bus stop and provision of controlled pedestrian crossing to St. Patrick's Villas giving access Ringsend Park.

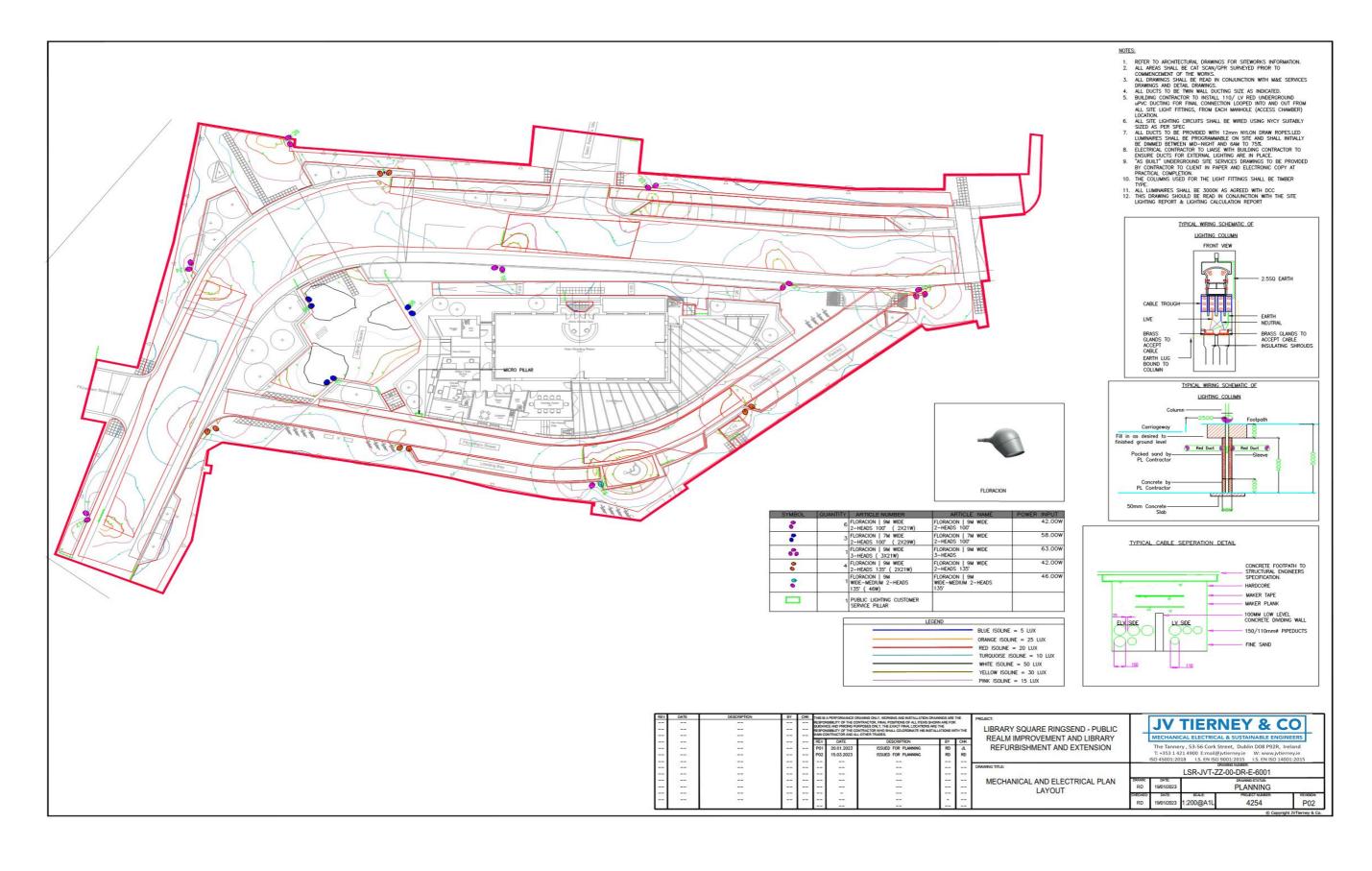
The extension and refurbishment of Ringsend Library, providing universal access throughout, expanding and improving the internal environment, refitting the electrical and mechanical infrastructure, improving the building's energy efficiency, and conserving the building's architectural significance, while providing a wider range of services to customers in line with Dublin City Libraries policy objectives.

As per the DCC 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 minimum of P4 lighting class with the calculation surface on the ground in these cases. Moreover, roads will be lit to a minimum of P2 lighting class. These stipulations are achieved throughout as per the site lighting drawing no. LSR-JVT-ZZ-00-DR-E-6001. There are a number of steps and ramps seen throughout the plan, as per Part M, the stairs and ramps on this site must be lit to a minimum level, purpose lighting shall be utilised in these cases not shown on drawing no. LSR-JVT-ZZ-00-DR-E-6001 as it causes uniformity issues. The library square will be lit to 20 lux minimum as this area is considered the approach area to the library which must be lit to 20 lux minimum as per TGD part M.

The selection of lights used within the design can be seen in appendix B, all luminaires chosen are LED type. Moreover, the columns in which the luminaires shall be mounted will be timber, mainly 9m in height but 7m on the central library plaza as indicated on drawing no. LSR-JVT-ZZ-00-DR-E-6001. Note as this library square is considered a place of interest/ landmark area the luminaires and associated columns used in this design are not typical fittings/ columns suggested by DCC's public lighting specification as agreed with DCC. Moreover, the fittings were carefully chosen to ensure glare and light spill is reduce by utilising these directional fittings that possess a cap to reduce glare onto the local residents' buildings (See appendix B).

Furthermore, as this is a place of interest/landmark area, regular planned maintenance of the landscaping will be in place which will be required as a number of the luminaire fittings are located in close proximity of trees.

Considering the amount of lighting fixtures, 1 number of micro lighting pillar are required. The location is/seen below in appendix A, drawing no. LSR-JVT-ZZ-00-DR-E-6001.



Appendix B







This Report was prepared by:

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Signed:

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