

Project Name: **Tech Court,
Whinbank Industrial Estate,
Aycliffe**

Description: **Outdoor Lighting Report**

Client Name: **Eden Asset Management**

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Designed by: I K Townhill

Eden AM

Signature:



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Outdoor Lighting Design

Revision

Version	Issued	Author	Review	Approval
• Draft	15/02/24	I K Townhill	IKT	IKT
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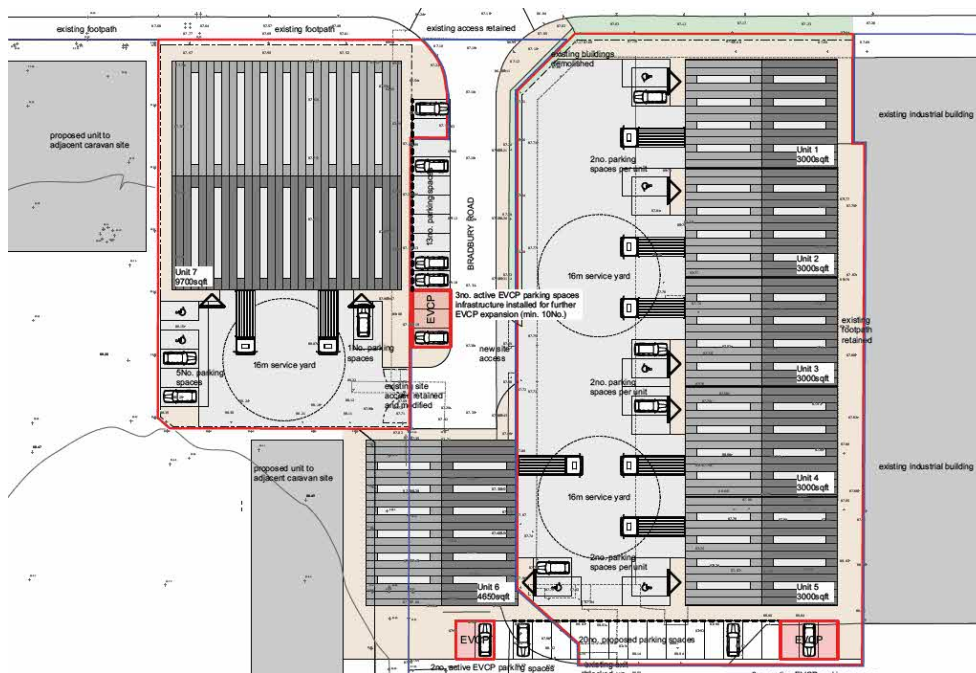
1 Introduction

1.1 Project Background

IKTEC Limited were commissioned by Eden Asset Management to complete an outdoor lighting design for the vehicle movement / parking areas and external footpaths / building façade areas within a proposed development at Tech Court, Whinbank Industrial Estate, Aycliffe.

1.2 Scheme Details

For lighting calculation purposes the development has been treated as one dedicated areas – see below – see redline detail below.



1.3 Report Aims and Objectives

The core aims and objectives identified for this outdoor lighting design are summarised below.

Provide a lighting design compliant with the relevant outdoor lighting standards (in this case BS5489-1).

Provide a lighting design that considers and applies the recommendation provided in the ILP guidance note for reduction of Intrusive Light.

1.4 Submission Details

The lighting design provided with this design submission includes the following documents – embedded within the tables that follow.

0149d_tech_court_aycliffe_v1	Lighting Design Calculation (Area)
0149d_tech_court_aycliffe_dwg_v1	Lighting Design Drawing
0149d_tech_court_aycliffe_1lux_v1	Lighting Design Calculation (1 lux)

2 Lighting Design Proposals

2.1 Design Standards



An outdoor lighting design has been prepared for the proposed vehicle delivery / car park areas and the external footpaths.

The key features of the proposed design are:

Location	Lighting Equipment	Design Standard
Internal vehicle delivery / car park areas	6m column or wall mounted LED cut-off (class G4) lantern units.	BS5489-1, Medium use car park (10lx (ave), 0.25 Uo)

2.2 Design Solution

A design solution compliant with the above criteria has been included below.

Location	Calculation reference	Embedded Document
Internal vehicle delivery / car park areas	Design calculation	 0149a_tech_court_aycliffe_v1.pdf
	Design Drawing	 0149d_tech_court_aycliffe_dwg_v1.pdf


Luminaire Profile

Mounted at 0 degrees above the horizontal



2.3 Additional Information

A light spill calculation has been completed for each of the areas showing the light level contour at 1 lux – see below.

Location	Calculation reference	Embedded Document
Area 1	Design calculation 1 lux	 0149a_tech_court_aycliffe_1lux_v1.pdf

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It should be noted that the results are exaggerated somewhat because the calculation does not consider buildings, walls, trees and other obstructions.