

AtkinsRéalis



# Indicative Lighting Assessment

06 May, 2026

323319-15207-ATR-000-00-RP-E-0001-S2-B1200

# HASLAR IMMIGRATION REMOVAL CENTRE(IRC)

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This document has 13 pages including the cover.

## Document history

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3.0	Updated following Cushman & Wakefield Comments	SB	TG	ND	TC	20/10/2025
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7.0	Updated following planning comments	TG	GM	ND	TC	20/04/2026
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# Introduction

An outline planning application with all matters reserved except for access is submitted for the extension to the Haslar IRC. An indicative scheme has been prepared.

Haslar Immigration Removal Centre (IRC) located in Haslar (near Gosport), Hampshire, England at the following address: Haslar IRC, Dolphin Way, Gosport, PO12 2AW.

The proposed development will comprise the following elements:

- IRC to expand onto adjacent land increasing capacity by 470 residents (cumulative total of 600 residents).
- The expansion works will deliver up to four accommodation blocks, a dining hall, and a care and separation unit (CASU) supported by new infrastructure integrated with the refurbishment works.
- Erection of covered walkway [REDACTED].
- Refurbishment and/or replacement of the existing perimeter fences.
- Erection of internal zonal fencing, vehicular and pedestrian gates, new site entrance gates and barriers [REDACTED].
- Creation of internal road(s), car parking (resurfacing of existing "Haslar Sea Wall" car park area in the southwest). Use of existing access/egress on Dolphin Way, use of existing car park access on Fort Road and creation of new pedestrian and vehicular access on Fort Road. Creation of internal roads and hard surfacing and creation of additional parking for staff and visitors. Resurfacing of existing car park on Fort Road and realignment and improvement of coastal path with spaces retained for public use and hard surfacing.
- Installation of lighting columns [REDACTED] and closed-circuit television (CCTV).
- Installation of roof top solar photovoltaic panels.
- Installation of infiltration-based SuDS
- Creation of recreational space for residents, biodiversity enhancements and landscaping and visual barrier together with community garden and pedestrian public access.
- Improvements to the coastal path through the existing car park land.
- Habitat and Biodiversity Net Gain improvements to mitigate the onsite loss resulting from the development.
- The development will target a BREEAM "Excellent".



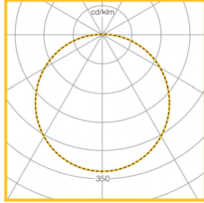

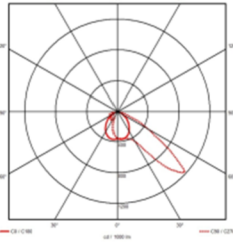

1. This lighting assessment is for a proposed development which expands the IRC as described above, as shown on the location plan 323319-15207-ATR-000-00-DR-E-0003-S4-B1200 (See Appendix)

## External Lighting Stage 2 Design Proposals

2. External amenity lighting is required to be provided to all access roads, outdoor spaces, building perimeter, roof plant, car parking areas and pedestrian/vehicular entrances. The purpose of the facility is to house the residents; however, it should be noted that this may change. Due to this inherent nature the design team are instructed to follow Ministry of Justice Category C design guidance. The external lighting is therefore required to act as both amenity lighting and for site security purposes. The car park lighting is to be in accordance with BS5489-1:2020. Refer to the zonal drawings as part of the drawings submitted as part of the drawings/plans package of the planning submissions this lighting assessment: LEVEL 00 EXTERNAL LIGHTING STRATEGY PLAN, drawing number 323319-15207-ATR-000-00-DR-E-0002-S4-B1200.

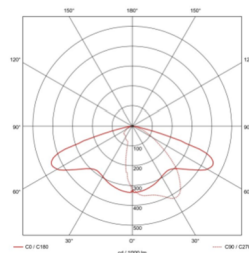
## Planning Approach and Materials

3. It is proposed to use a similar range of luminaires to those used for the refurbishment to give a uniform appearance across both phases of the project and for continuity of asset type. The following table shows the proposed external luminaires at this design stage; however, it should be noted the this may change or develop as the design develops.

Description	Type	Polar Curve	Image
Pathways and amenities close to buildings	Wall Mounted Bulkhead Luminaire with Hood option to prevent upward Light. Whitecroft Kolo IP65 or Similar	<p>Polar Curve (Indicative Only)</p>  <p>(without hood)</p>	
Exercise & Open Areas	Euroflood SL	<p>Polar Curve (Indicative Only)</p> 	

Roads and car parks

Polar Curve (Indicative Only)



**Table 1 - Proposed Luminaires**

4. The proposed indicative lighting scheme will be developed with consideration for all relevant planning policies and validation criteria. In particular National Planning Policy requires that the new development takes into consideration from National Planning Policy the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. This includes limiting the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation. The artificial lighting shall meet the requirements set out in the Institute of Lighting Professionals (ILP) Guidance Note 08/23. Any impacts arising from the proposed lighting scheme shall be assessed, and any required mitigation agreed with Natural England. Any mitigation proposals related to lighting shall be agreed with Natural England. The proposals shall be in line with the conditions set out in the Ministry of Housing, Communities & Local Government (MHCLG) Pre-application Advice and local planning authority.
5. The proposed development is adjacent to residential housing which is indicated in blue on the following aerial view.



**Figure 1 - Location of Housing Estate in relation to application site**



6. There is a risk that the required artificial lighting for the proposed development could introduce nuisance light spill to these areas. Due to the security requirements of the facility, it is not possible to omit artificial lighting for the proposed development; however, to meet the National Planning Policy requirements the design will mitigate and manage the potential adverse effects from the lighting installation through proper design procedures. To achieve this all elements of the external lighting will be designed to the requirements of the Institution of Lighting Professionals (ILP) Guidance Note 1 – Reduction of Obtrusive Light. This will include:
  - Selection of luminaires with the correct optical distribution and beam angle to direct lighting only where it is needed.
  - Luminaires to be provided with cowls, hoods and shields to help limit obtrusive light.
  - Optimising the height of luminaires.
  - Optimising the position and angle of luminaires
  - Use of lighting control systems for daylight dimming.
7. As well as limiting the risk of intrusive light through careful lighting design, the effect of intrusive light will also be limited through use of visual barriers by way of leaving trees between the facility and the neighbouring properties.

## External Lighting Design Requirements

### Car Park

8. The lighting scheme will be designed following BS5489-1:2020 as required by Estates Directorate Technical Standard STD/E/SPEC/018 Electrical Installations (Operating at Low Voltage & Extra Low Voltage). The lighting requirement for the Car Park is: Average Illuminance of 5 lux and Uniformity  $U_0 = 0.25$  as defined in BS5489-1:2020 Table 4.

**Table 4** — *Maintained lighting levels for outdoor car parks*

Type of area and usage	Values in lux	
	$\bar{E}$	$U_0$
Light traffic, e.g. parking areas of shops, terraced and apartment houses; cycle parks	5	0.25
Medium traffic, e.g. parking areas of department stores, office buildings, plants, sports and multipurpose building complexes	10	0.25
Heavy traffic, e.g. parking areas of major shopping centres, major sports and multipurpose sports and building complexes	20	0.25

**Figure 2 - Car Park Lighting Requirements**



- 9. The proposed car park lighting will be designed to comply with all planning policy contained in the council's development plan.

Reference to Gosport Borough Local Plan 2011-2029 Adopted October 2015 clauses:

- LP10 – Design
- LP42 – International & Nationally Important Habitats
- LP43 – Locally Designated Nature Conservation Sites
- LP46 – Pollution Control (Light Pollution)

## Road Lighting

- 10. Road lighting will be designed in accordance with BS5489-1:2020 & BS5489-2:2020 Design of Road Lighting as required by Estates Directorate Technical Standard STD/E/SPEC/018 Electrical Installations (Operating at Low Voltage & Extra Low Voltage).
- 11. Low to moderate traffic flow and low junction density is deemed appropriate for the site giving lighting class of M5 as indicated in Figure 3 below.

**Table A.3** — Lighting classes for traffic routes ( $v \leq 40$  mph)

Traffic flow	Lighting class		
	Dual carriageway		Single carriageway
	Junction density: high	Junction density: low	
High to very high <sup>A)</sup>	M3	M4	M3
Low to moderate <sup>B)</sup>	M4	M5	M4
Very low <sup>C)</sup>	M5	M6	M5

**Figure 3 - Road Lighting Class Table from BS5489-1**

- 12. M5 equates to a conflict area class of C4 as indicated in Figure 4 below, extracted from BS5489-1.

**Table A.4** — Lighting classes for conflict areas

Traffic route lighting class	Conflict area lighting class
M1	C0
M2	C1
M3	C2
M4	C3
M5	C4
M6	C5

**Figure 4 - Road Lighting Conflict Class**

- 13. C5 equates to a minimum maintained average illuminance of 10 lux as indicated in Figure 5 below extracted from BS5489-2 2015.



**Table 2 — C lighting classes based on road surface illuminance**

Class	Horizontal illuminance	
	$\bar{E}$ [minimum maintained] lx	$U_o$ [minimum]
C0	50	0,40
C1	30	0,40
C2	20,0	0,40
C3	15,0	0,40
C4	10,0	0,40
C5	7,50	0,40

**Figure 5 - Collision Lighting Classes based on Road Surface Illuminance**

**5.4 Lighting requirements for areas, tasks and activities**

**Table 5.1 — General requirements for areas and for cleaning at outdoor work places**

Ref. no.	Type of area, task or activity	$\bar{E}_m$ lx	$U_o$ -	$R_{GL}$ -	$R_a$ -	Specific requirements
5.1.1	Walkways exclusively for pedestrians	5	0,25	50	20	
5.1.2	Traffic areas for slowly moving vehicles (max. 10 km/h), e.g. bicycles, trucks and excavators	10	0,40	50	20	
5.1.3	Regular vehicle traffic (max. 40 km/h)	20	0,40	45	20	At shipyards and in docks, $R_{GL}$ may be 50
5.1.4	Pedestrian passages, vehicle turning, loading and unloading points	50	0,40	50	20	
5.1.5	Cleaning and servicing	50	0,25	50	20	All relevant surfaces

**Figure 6 - BS EN 12464-2 lighting for External Workplaces and BS13301 all parts for Road Lighting**

- 14. The proposed road lighting will be designed to comply with all planning policy contained in the council's development plan. An indicative plan is provided to assist in the demonstration of the Outline Planning Application.

## Pathway & Fence Lighting

- 15. Pathway and fence lighting will be designed in accordance with the requirements of the Estates Directorate Technical Standard clause 19.39.9.1 of STD/E/SPEC/018.
- 16. The following design criteria and requirements will be implemented for the lighting design proposal:

Location	Required Illuminance Levels		STD/E/SPEC/018 Clause Reference
	Horizontal	Vertical	
Footway	5 lux	5 lux	19.39.9.1
Secure Side of the Fence	5 lux	5 lux	19.39.9.1

**Table 2 - Required External Illumination Levels**



17. Where lighting columns are proposed at further stages of design, these lighting columns will be located [REDACTED] away from the fences (clause 19.39.4). Based on these requirements, standalone lighting columns cannot be specified in most locations. Therefore, the new lighting units will be required to be mounted on [REDACTED] columns.
18. Wall-mounted luminaires are to be mounted no lower than [REDACTED] from the ground level (clause 19.39.4), therefore any proposed wall-mounted luminaires will be located at [REDACTED] height.
19. The external lighting will provide a Uniformity Ratio of no less than 4:1 on vertical target surfaces and no less than 3:1 on horizontal target surfaces as detailed in clause 19.39.6.
20. The lighting will provide a Uniformity Ratio no poorer than 10:1 in case of lighting unit failure (Clause 19.39.6). Compliance under a single luminaire failure scenario will be demonstrated within the lighting calculations. The results will comply with the requirements detailed in clause 19.39.6.
21. Vertical targets will include the secure side of the fence [REDACTED] above the top of that. (Clause 19.39.9.2).
22. Horizontal target surfaces will include a [REDACTED] strip on the secure side of the fence which is measured from the base of the fence (Clause 19.39.9.3.)
23. External lighting will be provided in accordance with the requirements of BS5489, CIBSE Lighting guide LG6, ILE guidance notes for the reduction of light pollution.
24. The external lighting system is to meet the requirements for BREEAM credits ENE 03 External Lighting and POL 04 Reduction of night-time light pollution whilst also complying with MoJ standards.
25. The proposed pathway and fence lighting will be designed to comply with all planning policy contained in the council's development plan.



# Appendix A.

## A.1 External Lighting Strategy Plan



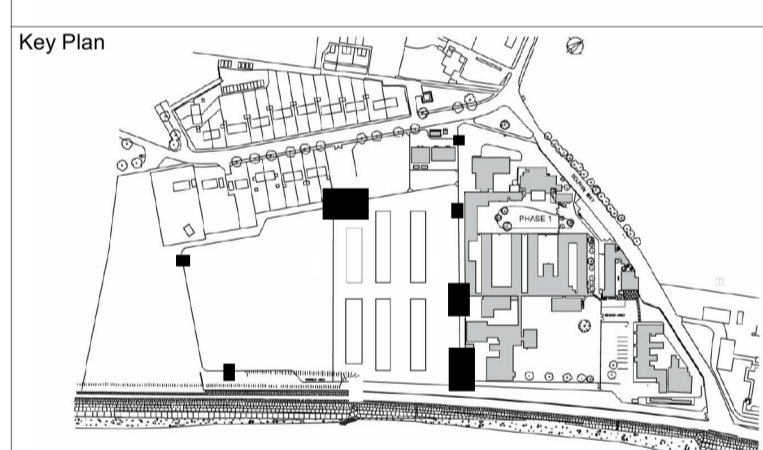
NOTE: THIS IS A CONCEPT DESIGN ONLY

© Crown copyright 2018  
 Verify all dimensions on site prior to construction. This drawing is to be read in conjunction with all relevant documents and drawings. Report all discrepancies to MoJ immediately.  
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- Notes**
- EXTERNAL LIGHTING IS TO MEET MOJ STANDARDS INCLUDING STD-E-SPEC-018\_SP-E-018 AND STD/DG/068
  - INDIVIDUAL SECTION SWITCHING WILL BE REQUIRED FOR THE OUTER PERIMETER LIGHTING, STERILE AREA LIGHTING AND INNER PERIMETER LIGHTING
  - IN ACCORDANCE WITH STD/DG/068 COLUMN MOUNTED FITTINGS WILL BE MOUNTED ON 6.0M HIGH, COLUMNS SPACED AT A MAXIMUM OF 24.0M CENTRES (ACTUAL SPACING/DESIGN TO MEET ILLUMINATION AND UNIFORMITY REQUIREMENTS). HINGED COLUMNS ARE NOT DESIRABLE
  - THIS DRAWING IS BASED ON ARCHITECTURAL DRAWING 323319-15207-ATR-000-GF-DR-A-0250-S4-D0100

- KEY:**
- FOOT PATH AND CIRCULATION ROUTE
  - EXTERNAL EXERCISE SPACE
  - STREET / ROADWAY LIGHTING TO BS 5489
  - CAR PARK LIGHTING 5 LUX FOR LIGHT TRAFFIC BS 5849
  - EXTERNAL PLANT AREA 50 LUX
  - EXTERNAL LIGHTING SHALL BE DESIGNED TO MINIMISE LIGHT SPILL & GLARE TO ADJACENT PROPERTIES AND MINIMISE LIGHT POLLUTION IN ACCORDANCE WITH ILP GN01 AND CIBSE SLL LG21. AREA INDICATES PROPERTIES THIS WILL APPLY TO.

Rev	Issued by	Issued to	Date	Description
ATR	HO	02/04/26	REVISED CAR PARK LAYOUT	
ATR	HO	20/10/25	UPDATE FROM COMMENTS	
ATR	HO	10/10/25	UPDATE FROM COMMENTS	
ATR	HO	18/09/25	FIRST ISSUE	



**Project Status**  
 Outline Planning Application

**Client** Project  
 Ministry of Justice Haslar IRC  
 Ministry of Justice, 102 Petty France, London, SW1H 9AJ

**Project Description / Site**  
 Indicative New Buildings  
**Project Address**  
 Dolphin Way,  
 Gosport,  
 Hampshire  
 PO12 2AW

**Building Type**  
 SITE PLAN

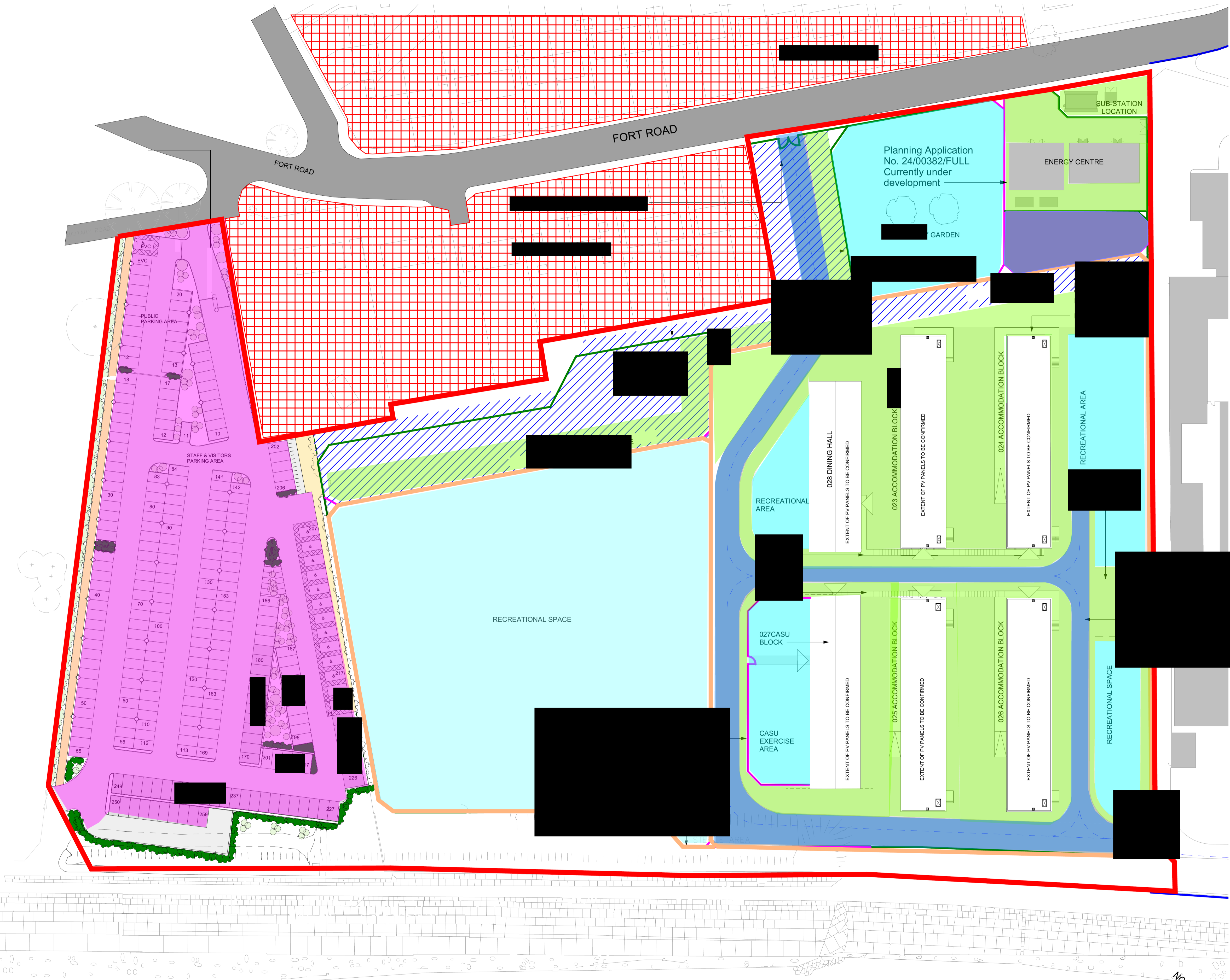
**Drawing Title**  
 HASLAR  
 LEVEL 00 EXTERNAL LIGHTING STRATEGY PLAN

Originator Logo AtkinsRéalis	Drawn By: MG	SB
	Checked By: AP	TG
	Approved By: TC	ND

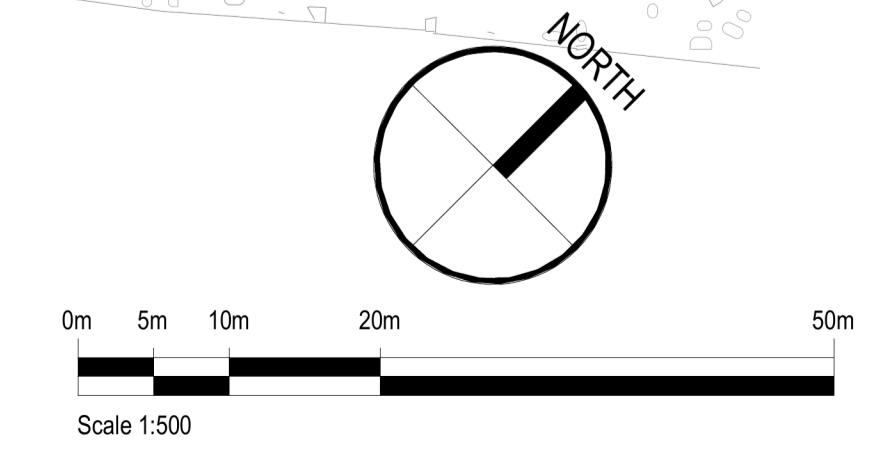
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 323319-15207-ATR-000-00-DR-E-0002-S2-B1200

**Sheet No.** 1 of 1 **Scale** 1:500 **Orig. Sheet Size** @ A1 **Rev.** P04

**Data Security Classification**  
 OFFICIAL Suitability S2



1 INDICATIVE PROPOSED SITE PLAN  
 SCALE 1:500



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