

Lighting Design Hazard Elimination and Management List

Applies to: All Consultants and Contractors only.

Enerveo Lighting Designs will be carried out with all due reasonable skill, care and diligence in accordance with BS5489-1 2013. Enerveo Designers have in accordance with the Construction Design and Management Regulations 2015 (CDM2015), identified site-specific hazards/risks, and reasonably endeavoured to eliminate or reduce these for construction, maintenance, and decommissioning of the Lighting Design, as far as reasonably practicable. This document should be used in conjunction with addendum sheets as indicated and any consultants' and contractors' own Hazard Elimination and Management List. The construction works should be carried out by competent persons, in accordance with HSG47 Avoiding danger from underground services, G39 Working in the vicinity of DNO equipment, New Roads and Street Works Act 1991, Traffic Signs Manual Chapter 8, with consultants' and contractors' own relevant method statements, procedures and policies.

Client:	Eastleigh Borough Council						Document Ref:	EVO20010723-HE-001-A					
Project:	Parcel 1.1 Adoptable, Lower Acre, One Horton Heath						Assessed by:	James Duffin		Date:	30/09/2022		
Hazards/Risk, Identified (Safety, Health & Environmental):	At Risk:			Assessment of Risk before Design:			Actions taken at the Design Stage, to identify site-specific Hazards/Risks, eliminate or reduce these Hazards/Risks for Construction, Maintenance, and Decommissioning of the Units, as far as reasonably practicable.	Assessment of Risk after Design:			Addendum Sheet required?		
	Install -er	Users	Environ-ment	L	S	R R		L	S	RR	No	Yes (See Addendum sheet)	
Overhead High Voltage Electricity Cables (O/H HV) in the vicinity [1kV to 132kV]	✓			3	10	H	Relevant O/H HV cables, vicinity and proximity zones have been indicated on this scheme's drawing. New units have been designed away from the 33kV & 11kV O/H HV cables, vicinity, and proximity zones. New units located in compliance with G39, CDM and ILP guidelines. Existing O/H HV cables are to be diverted underground, however at the time of design the diversion routes were not available. Units should not be installed prior to the diversion of the O/H HV lines.	1	10	M		(See HV/LV network maps). Specific method statement required.	
Electrical Sub Stations in the vicinity	✓			3	10	H	Relevant electrical sub stations have been indicated on this scheme's drawing. New units have been designed away from electrical sub stations.	1	10	M		(See HV/LV network maps).	

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	Install-er	Users	Environ-ment	L	S	R R		L	S	RR	No	Yes (See Addendum sheet)	
Underground High Voltage Electricity Cables (HV) in the vicinity [1kV to 132kV]	✓			3	10	H	Relevant units in the vicinity of underground HV cables have been indicated on this scheme's drawing. New units have been designed away from underground HV cables as far as reasonably practicable. The following new unit remains close to the vicinity of existing underground HV cables. 6, 7 Road 1 The following new unit remains close to the vicinity of proposed underground HV cables. 11, 14 Road 1 1 Road 2	2	10	H		(See HV network maps).	
Underground Low Voltage Electricity Cables (LV) in the vicinity	✓			3	10	H	New units have been designed close to LV cables, for power supply to minimise excavation and associated risks.	2	10	H		(See LV network maps).	

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Underground Fibre Optic Cables	✓	✓		3	5	H	Relevant existing units in the vicinity of underground fibre optic cables have been indicated on this scheme's drawing. Fibre optic owner is Virgin Media. Contact number 0333 000 5925. New units have been designed away from underground fibre optic cables as far as reasonably practicable. The following new unit remains close to proposed underground fibre optic cables. 4, 7, 8, 9, 10 Road 1 3, 4, 5, 7, 8 Road 2	2	5	M	✓		
Underground Telecommunication Cables in the vicinity	✓			1	2	L	Underground telecommunications cables in the area.	1	1	L		See telecommu-nication network maps.	
Manual Handling	✓			3	5	H	New units have been located to eliminate the need of manual handling as far as reasonably practicable. It was not reasonably practicable to eliminate the need of manual handling for the following new unit. 4, 7 Road 2 1, 2, 3 Footpath 1	3	5	H	✓		

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	Install-er	Users	Environ-ment	L	S	R R		L	S	RR	No	Yes (See Addendum sheet)	
Passive Safety Equipment		✓		3	10	H	The Principal Designer is yet to determine the need for the protection of roadside features or passive street furniture (determination to be in accordance with good practice such as the UKRLG ‘Provision of Road Restraint Systems on Local Authority Roads’, TD19, the Overseeing Organisation’s policy & practice, etc). Standard equipment has been specified at this stage, subject to review by the Principal Designer.	3	10	H	✓		
Restricted Vehicular Access/ Footpaths	✓	✓		1	2	L	New units that are located on restricted vehicular access/ footpaths have been designed to be “raise and lower” units.	1	1	L	✓		
Visual impact / light pollution /intrusion		✓	✓	1	2	L	Wherever reasonably practicable new units have been designed to be in keeping with the road characteristics, reduce light pollution and light intrusion. Louvre optics, and column positions have been selected to help minimise light intrusion, which has in places reduced uniformity below 20%. However due to the proximity of some properties to the footway and the need to maintain levels on the roads, it has not been possible to keep light intrusion below 2 lux for all properties however none exceed 5 lux.	1	1	L	✓		

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Environmental Impact Assessment	✓		✓	3	5	H	The designer has been notified by the principal designer or client about site-specific Environmental Impact Assessments. Design utilises equipment with characteristics that are suitable to mitigate lighting impacts in accordance with ILP guidance. 3000K warm white and where possible louvred optic luminaires, minimal lighting levels and minimal lighting points have all been used to minimise impact of lighting on invertebrates and bat population, in line with NWHH Conditions 12 & 13 - Bat Mitigation Strategy V2.pdf	1	3	L	✓	
Legend - Major Site specific, Safety, Health and Environmental Hazards – Will any of the following hazards affect Enerveo staff, client's staff, general public or affect the environment? Use "Risk Rating" (RR) matrix to assess each hazard and indicate level of risk i.e.; L = 1- 4, M = 5 – 10, H = 15 - 30 or VH = 50, in space next to each hazard.							Risk Rating (RR) Matrix - Indicate L, M, H, or VH in box. L = Likelihood, Multiply by S = Severity, for Risk Rating (RR). 1 Unlikely to be affected. 1 Minor First Aid Injury Only. 2 May be affected. 2 Hospital Treatment & Off Work. 3 Occasionally affected. 5 Some Disability - Long absence. 5 Likely to be affected. 10 Permanent Disability/Death.					
Declaration: I the undersigned have read and understood the hazards / risks identified in this Lighting Design Hazard Elimination and Management List.												
Construction Manager (Sign):						(Print):	Date: / /					