STREET LIGHTING DESIGN RISK ASSESSMENT

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SHD1349-SHD-HLG-ARLE-RA-EO-Lighting Design Risk Assessment-R0

Prepared by:	SHD Lighting Consultancy Ltd	27/01/2024
Scheme Title:	off Arlecdon Parks Road	
Brief Description:	Private development lighting design	
Considerations:	The lighting scheme has been designed in accordance with BS 5489-1:2020 This document must be read in conjunction with SHD1349-SHD-HLG-ARLE-DR-EO-Lighting Layout-R0	

All services are to be located and identified prior to installing or removing any lighting columns.

All works should be carried out in accordance with HSE GS6, ENA 43-8, HSE HGS47, G39/1 and any relevant HSE regulations

Details of existing statutory undertakers' plant are to be obtained by the client and the contractor may examine these records at the engineer's office.

All works in the vicinity of any overhead cables shall conform to the requirements of HSE guidance note GS6 "avoidance of danger from overhead lines" and all works in the vicinity of underground mains or cables shall conform to the requirements of HSE guidance note HGS47 "avoiding danger from underground services" and any additional requirements specified by the relevant undertaker.

The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and/or diversion works to any statutory undertakers' apparatus into the overall works programme (this is to include adjustment of stats covers).

Any damage to plant or apparatus shall be repaired at the contractor's expense.
No works shall be constructed until technical approval has been obtained from the local authority or overseeing organisation by the developer. Should works be constructed without approval they will be entirely at the developer's risk.

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DESIGNER'S RISK ASSESSMENT													
	HAZARD IDENTIFICATION / ACTIVITY	APPLICABLE (Y/N)	ACTIVITY	WHAT IS THE HAZARD AND WHO / WHAT IS AT RISK	INITIAL RISK ASSESSMENT			DESIGN CONTROL MEASURES	RESIDUAL RISK ASSESSMENT			FURTHER CONTROL MEASURES / RECOMMENDATIONS
					SEVERITY (S)	LIKELIHOOD (L)	RISK (S x L)		SEVERITY (S)	LIKELIHOOD (L)	RISK (S x L)	
1	During construction of the works	Y	Installation of highway lighting equipment adjacent to footpath	Public & Operatives	5	3	15	Install barriers to protect public from works area	2	2	4	
2	Electricity	Y	Below ground works	Striking underground electricity cable - electrocution/burning. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.
3	Gas	Y	Below ground works	Striking underground gasmain - explosion, gas leak. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.
4	Water	Y	Below ground works	Striking underground water main - flooding hazard. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.

(S)		(L)		Risk Rating (RR=S x L)	
1		1		Insignificant	Acceptable
2		2		Low	Acceptable with effective control measures
3		3		Medium	Not acceptable, risks need investigation to consider reasonable practical improvements
4		4		Significant	Review urgently required to determine if the risk can be removed or controls improved
5		5		High	Risks must be removed or reduced

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5	Telecom / Data	Y	Below ground works	Striking underground telecoms or data service cables.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.
6	Highway Lighting	Y	Below ground works	Striking underground highway lighting cable - electrocution / burning hazard. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.
7	Overhead data lines	Y	During lighting column installation or MEWP striking overhead lines	Loss of service / Injury to site personnel.	3	3	9	Contractor to be aware of any overhead cables.	2	1	2	All installations shall be in accordance with GS6 and G39 - No work to be undertaken in the vicinity zone
8	Overhead power lines	Y	Installation of lighting columns	Loss of service / Injury to site personnel.	5	3	15	Columns to be located outside vicinity zone in accordance with G39.	2	1	2	All installations shall be in accordance with GS6 and G39 - No work to be undertaken in the vicinity zone - Consult with DNO for guidance.

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9	Working adjacent to highway	Y	Maintenance of equipment	Site Personnel being struck by errant vehicles.	5	3	15	Column doors to face away from oncoming vehicles and columns to be sited to the rear of footway when possible.	4	1	4	Compliance with design contract documents, method statements and working procedures.
10	Working at height	Y	Installation of luminaires	Dropping materials / tools from height.	4	3	12	Barriers to be placed around columns and suitable PPE shall be worn.	4	1	4	Operative to warn pedestrians of hazard overhead.
11	Electric Vehicle Charging Points		Clearance distances between lighting columns and EV charging system (including connected vehicle) must be greater than 2.5m, when connected to different earthing systems.	Electric shock	5	3	15	Locate EV points, greater than 2.5m away from lighting column	5	2	10	Lighting design and EV point locations to be assessed
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