Nick Smith Associates

Lighting to the end of the tunnel

Ramsey Road, Warboys

Design Summary

Client:	Burmor Construction	Issue Date:	15/12/2023
Project Number:	3006	Revision:	-

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Document Issue Schedule: NSA 104

Project Name:	Ramsey Road, Warboys		
Project Number:	3006	**Issue Date:**	15 December 2023

		DD	15								
		MM	12								
Document Schedule		YY	23								
Doc Ref:	Title	Revision Details									
NSA105	Design Criteria document	*									
NSA106	Bill of Quantities	*									
NSA107	Project cost estimate										
NSA108	Cable Calculations										
NSA109	Risk Assessment	*									
	Local Authority Specification										
	Design consideration notes										
	Lighting Design Calculations	*									
Drawing Schedule											
DWG Ref	Title										
3006-D-01	Proposed Section 38 Lighting and Illuminance Layout	*									
3006-D-01	Proposed Private + Adopted Lighting and Illuminance Layout	*									
Issue Schedule											
Company	Name	Number of Copies									
Burmor Construction	Georgia Freeman	e									
Burmor Construction	Patrick Burke	e									
Issued By		Nick Smith									

emailed copy (AutoCAD format dwg unless detailed
e = otherwise
PDF = Electronic Adobe PDF format
number = number of copies issued
* = Pre revision version

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Project file download links

Project Name:	Ramsey Road, Warboys		
Project Number:	3006	**Issue Date:**	15 December 2023

	DD	15								
	MM	12								
Drawings and Calculations Issue schedule	YY	23								
Rev	Link									
-	https://ln5.sync.com/dl/d07c76cb0/h98myug6-t4g9z4yb-cep94ns2-5pygm59g	-								

All links give access to all project specific file, PDF files, drawings and calculations. Links area available for 30 days from the date shown

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Risk Assessment (NSA 109)

Ramsey Road, Warboys		Project Number	3006

Prepared by:	N Smith	Date:	15/12/2023	Checked by:	N Smith	Date:	15/12/2023	Revision	-

Risk Identified	Risk addressed by code of practice or standard	Frequency of Occurrence	Severity Risk	Risk Rating	Notes / Actions Required
Wildlife	Partial	3	4	12	We have been notified of wildlife using the adjacent areas which might be affected by the proposed lighting design. We have recommended to the developer the lighting be in accordance wit the ILP guidance note 08 Bats and artificial lighting in the UK document. As a result the lighting levels have been lowered, a warm white LED fitting has been used with the lantern mounted horizontal.
Column heights	Partial	6	2	12	The height of column is subjective. Higher columns even as low as 6m are often not considered suitable by ecologist. However lower column raise light levels and reflected light from the road surface and other surrounding materials. As a compromise only 6m column have bee used where higher column would normally have been used.

Probable frequency	1 = improbable occurrence	Probable severity	1 = trivial injury/ies
	2 = possible occurrence		2 = major injury/ies
	3 = occasional occurrence		3 = major injury to one person
	4 = frequent occurrence		4 = major injury/ies to several people
	5 = regular occurrence		5 = death of one person
	6 = common occurrence		6 = multiple deaths

Risk ratings above 20 may require project specific risk assessments from the contractor as the risk cannot be designed out of the project

Design Criteria Form: NSA 105

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Project Data

Project Name:	Ramsey Road, Warboys			
Project Number:	3006		**Revision:**	-
Local Authority:	Cambridgeshire County Council			
Client:	Burmor Construction			

Design Standard:

BS5489:2020 — Class: P6 — Environmental Zone: E3

Luminance		Illuminance		Conflict Area	
Ave Cd/m^2	-	E_{ave}	2	E_{ave}	-
U_o	-	E_{min}	0.4	U_0	-
U_L	-	$E_{Max\ Ave}$	3		

Lantern Data

Lantern Manufacturer	DW Windsor	IP Rating	IP66
Lantern Name	Kirium Pro Mini	Optic Setting	D2
Lantern Code	KIRIUM PRO MINI 4LED 3k D2 600mA		

Column Data

Mounting Height	6 meters
Lantern Mounting	Post
Bracket fitted	No
Projection	0.4 meters
Inclination	0 degrees

Lamp Data

Wattage	8w
Lamp Type	LED

Maintenance Factor

Lantern MF:	0.84
Lamp MF:	0.90
Project MF:	0.75

Column and Sign Supply Data

1. All columns are to be supplied by DNO supply

2. The maintenance factor value is rounded down which we understand is the preferred method of the council

Prepared by:	N Smith	Date:	15/12/2023	Checked by:	N Smith	Date:	15/12/2023

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Bill of Quantities (NSA106-1300)

Ramsey Road, Warboys	Project Number	3006

Item No	Description	Qty	Unit	Cost	Total
	Series 1300: Road Lighting Columns and Brackets				
13.01	Proposed steel galvanised road lighting column (see section 3.5 or CCC specification) of 6m nominal height with post mounted DW Windsor Kirium Pro mini lantern finished in light grey to CCC specification (KIRIUM PRO MINI 4LED 3k D2 600mA) at a 0° inclination fitted with warm white LED, integral dali enabled driver with 7 pin nema socket and Telensa conduit cell	6	no		
13.02	Proposed steel galvanised road lighting column (see section 3.5 or CCC specification) of 6m nominal height with post mounted DW Windsor Kirium Pro mini lantern finished in light grey to CCC specification (KIRIUM PRO MINI 8LED 3k D1 550mA) at a 0° inclination fitted with warm white LED, integral dali enabled driver with 7 pin nema socket and Telensa conduit cell	1	no		
	Proposed wall mounted bulkhead fitting to deliver 800 lumens from warm white LED with mini photocell and movement sensor Supplied locally from the plot	20	no		
	Proposed wall mounted coach light by front door fitting to deliver 800 lumens from warm white LED with mini photocell and movement sensor Supplied locally from the plot	24	no		
				Total	

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Bill of Quantities (NSA106-2700)

Ramsey Road, Warboys	Project Number	3006

Item No	Description	Qty	Unit	Cost	Total
	Series 2700: Prime Costs and Statutory Undertakers Works				
	Cabling				
	District network operator supply (DNO) Works				
27.01	New Service	7	no		
27.02	Transfer Service		no		
27.03	Disconnect Service		no		
27.04	Percentage on cost for project management of REC work, other costs and profit		%		
				Total	

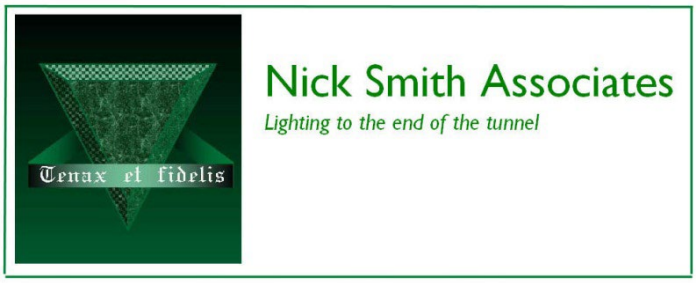
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Elexon Codes (NSA 119)

Ramsey Road, Warboys		Project Number	3006

Prepared by:	N Smith	Date:	15/12/2023	Checked by:	N Smith	Date:	15/12/2023	Revision	-

Item no	Description	Charge Code	Switch Regime	Wattage	Qty	Buring Hours	Notes
13.01	Proposed steel galvanised road lighting column (see section 3.5 or CCC specification) of 6m nominal height with post mounted DW Windsor Kirium Pro mini lantern finished in light grey to CCC specification (KIRIUM PRO MINI 4LED 3k D2 600mA) at a 0° inclination fitted with warm white LED, integral dali enabled driver with 7 pin nema socket and Telensa conduit cell	42 0008 0000 100	821	8w	6		
13.02	Proposed steel galvanised road lighting column (see section 3.5 or CCC specification) of 6m nominal height with post mounted DW Windsor Kirium Pro mini lantern finished in light grey to CCC specification (KIRIUM PRO MINI 8LED 3k D1 550mA) at a 0° inclination fitted with warm white LED, integral dali enabled driver with 7 pin nema socket and Telensa conduit cell	42 0013 0000 100	821	13w	1		



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