



LEGEND

QTY KEY

7

PROPOSED 80 NOMINAL HEIGHT ROOT MOUNTED GALVANISED TUBULAR STEEL COLUMN (SHAFT DIAMETER = 76mm @ 3.2mm THICKNESS, BASE DIAMETER = 100mm @ 5mm THICKNESS) TO NORTHUMBERLAND COUNTY COUNCIL SPECIFICATION POSITIONED IN ADOPTED HIGHWAY, COMPLETE WITH POST TOP MOUNTED URBIS AYA GEN 3.1 5384 OPTIC 4000K - 16 LED 30W LANTERN (0° TILT), WITH 7 PIN NEMA SOCKET AND SELC PHOTO ELECTRONIC CONTROL UNIT 35.18 LUX SWITCHING, ELEXON CODES: LANTERN: 42 0009 0000 100, PHOTOCELL: 54 0001 1000 100

7

PROPOSED 80 NOMINAL HEIGHT ROOT MOUNTED ARCADIS TORUS SPRING OPERATED RAISING & LOWERING GALVANISED TUBULAR STEEL COLUMN (SHAFT DIAMETER = 76mm @ 3.2mm THICKNESS, BASE DIAMETER = 100mm @ 5mm THICKNESS) TO NORTHUMBERLAND COUNTY COUNCIL SPECIFICATION POSITIONED IN ADOPTED HIGHWAY, COMPLETE WITH POST TOP MOUNTED URBIS AYA GEN 3.1 5384 OPTIC 4000K - 16 LED 30W LANTERN (0° TILT), WITH 7 PIN NEMA SOCKET AND SELC PHOTO ELECTRONIC CONTROL UNIT 35.18 LUX SWITCHING, ELEXON CODES: LANTERN: 42 0009 0000 100, PHOTOCELL: 54 0001 1000 100

1

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2

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PROPOSED REGIONAL ELECTRICITY BOARD SERVICE 230 VOLT A.C. CONNECTION, 1 LUX 80-CONTOUR EMIN P4.

GENERAL NOTES

ERECTION OF COLUMNS - LIGHTING COLUMNS SHALL BE ERECTED ONLY IN THE ADOPTED HIGHWAY. IN THE POSITIONS INDICATED ON THE DRAWING WITH THE MAIN SHWIT TRAILLY VERTICAL, AND IN ACCORDANCE WITH THE CODE OF PRACTICE FOR THE ERECTION OF STREET LIGHTING EQUIPMENT.

COLUMN DOORS ARE TO BE ORIENTATED SO THAT THE MAINTENANCE WORKER WILL BE FACING THE ONCOMING TRAFFIC WHILE WORKING INSIDE THE COLUMN.

NEW COLUMN POSITIONS TO BE AGREED WITH CONTRACTOR PRIOR TO INSTALLATION TYPICAL COLUMN SET BACK:

- WITH FOOTPATH: BACK OF PATH,
- COLUMNS ADJACENT TO DRIVEWAYS TO HAVE A MINIMUM OF 0.4M CLEARANCE TO THE COLUMN CENTRE.

RAISING & LOWERING COLUMNS ARE TO BE USED WHERE ACCESS IS MADE DIFFICULT FOR MAINTENANCE VEHICLES (TOWER WAGON) AND POSITIONED IN THE SURFACE WITH ENOUGH ROOM FOR THE COLUMN TO BE LOWERED SAFELY WITH NO OBSTRUCTIONS.

ALL ELECTRICAL WORK INSTALLED SHOULD BE CARRIED OUT TO MEET THE REQUIREMENTS OF THE WIRING REGULATIONS, BS 7671:2018.

THE ELECTRICITY SUPPLY TO EACH COLUMN IS TO BE ARRANGED BY DEVELOPER AND PROVIDED DIRECTLY FROM THE REGIONAL ELECTRICITY COMPANY LOW VOLTAGE MAIN NETWORK AND THE CONNECTIONS ARE STRICTLY TO BE MADE BY QUALIFIED OPERATIVES ONLY. DOUBLE POLE ISOLATION IS REQUIRED IN THE FORM OF CUT OUT WITH CLEAR BASE UNLESS DEPICTED OTHERWISE.

CABLE - INTERNAL

INTERNAL WIRING BETWEEN THE TERMINAL BLOCK IN THE LANTERN AND THE COMPONENTS IN THE BASE OF THE COLUMN SHALL BE PVC INSULATED CABLES OF 10 SQMM CROSS SECTION AND NOT LESS THAN 1.5 SQMM FOR LIGHTING UNITS OF UP TO 6 METRES MOUNTING HEIGHT AND 2.5 SQMM FOR LIGHTING UNITS IN EXCESS OF 6M. ALL CABLES SHALL BE CORRECTLY COLOURED CODED.

EARTHING

THE TYPE OF EARTHING SYSTEM SHALL BE TN-C-S AND THE WHOLE OF THE INSTALLATION SHALL BE EARTHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, IEE WIRING REGULATIONS ALL PUBLIC LIGHTING CABLES SHALL BE DOUBLE EARTHED THROUGH THE THIRD COPPER CORE AND THE STEEL WIRE ARMOUR.

EARTH BONDING

CABLES FOR CONTINUOUS EARTH BONDING SHALL BE GREEN/YELLOW PVC INSULATED SINGLE CORE COPPER CABLE OF MINIMUM CROSS SECTIONAL AREA OF 10 SQMM 800 VOLT GRADE CONFORMING TO THE BS 6004 AND BE CONNECTED TO COLUMN AND COLUMN DOOR.

CUT-OUTS

LUCY CUT-OUT NORTHUMBERLAND TYPE A - LOOPING UP TO 2 NO. 16 SQMM SWA 3 CORE CABLE SINGLE PHASE 25A 240V 50HZ DOUBLE POLE CUT-OUT FOR AN UPWARD LANTERN CIRCUIT WITH FUSE CARRIER FITTED, COMPLETE WITH EARTH BLOCK WITH TWO WAY SMALL EXTENSION BOX, BRASS PLATE WITH TWO 25MM BRASS FERRULES, WIRED WITH DOUBLE DRAITH THROUGH THIRD CORE & STEEL WIRE ARMOUR.

LUCY CUT-OUT NORTHUMBERLAND TYPE B - LOOPING UP TO 3 NO. 16 SQMM SWA 3 CORE CABLE SINGLE PHASE 25A 240V 50HZ DOUBLE POLE CUT-OUT FOR AN UPWARD LANTERN CIRCUIT AND OUTGOING FUSED SPUR WITH FUSE CARRIER FITTED, COMPLETE WITH THREE WAY EARTH BLOCK WITH THREE WAY EXTENSION BOX, BRASS PLATE WITH THREE 25MM BRASS FERRULES, WIRED WITH DOUBLE EARTH THROUGH THIRD CORE & STEEL WIRE ARMOUR.

IMPORTANT

ANY ALTERATION TO THE PROPOSED LIGHTING COLUMN POSITIONS ARE TO BE APPROVED BY THE COUNTY COUNCIL LIGHTING DESIGNER.

PROPOSED TREE LOCATIONS

LANDSCAPE ARCHITECT TO REVIEW THE INDICATIVE LOCATION OF ANY TREES SHOWN IN THE DRAWING WHICH ARE SITED IN THE VICINITY OF A LIGHTING COLUMN. THE TREE LAYOUT SHOULD BE DESIGNED TO MINIMISE IMPACT ON THE LOCAL SYSTEM OF STREET LIGHTING, AND TO PROVIDE ADEQUATE LIGHT OUTPUT DUE TO TREE FOLIAGE AND ENSURE THE LIGHTING ASSET WILL NOT BE OVERGROWN BY ANY TREE CANOPY.

DESIGNED TO BS 5485-1:2020, GEN BS EN 15201:2015 & CIE 115:2010
LED NEUTRAL WHITE 4000K
ESTIMATE ROAD = P4 (EAV = 5.0 to 7.5 LUX, EMIN = 1.0 LUX)

DIMMING REGIME
DUSK - 00:00 HOURS = 100%
00:00 HOURS - 06:30 HOURS = 50%
06:30 HOURS - DAWN = 100%

FUSING
INDIVIDUAL LAMP FUSING -
16 LEDS 16 WATTS = 6 WWP FUSE
8 LEDS = 9 WATTS = 6 WWP FUSE

Initial Issue				EH	12/11/21	0
AMENDMENTS				INITIALS	DATE	REF
www.jahwaylighting.co.uk						
PRELIMINARY						
Client:- ASCENT HOMES						
Project Title:- WHINNEY HILL, GUIDEPOST (PHASE 2)						
Drawing Title:- SECTION 38 STREET LIGHTING DESIGN						
Design:-	Drawn:-	Check:-	Approved:-	Date:-		
EH	EH	JAH	JAH	12/11/22		
Scale @ A1				1:500		
Drawing No:-				PL/2022/549	Rev	0