

Key

- Existing column to be disconnected and removed to tip
- ⊕ Existing 10m column with single arm bracket and lantern to remain. (Lantern assumed to be AXIA 3.2 5280 - 32 OSLO SQUARE GIANT 373mA NW 230V 00-56-61)
- ⊕ Proposed steel galvanised 10m column with 0.5m single arm bracket at zero degree tilt and Urbis Schreder lantern (AXIA 3.2 5280 - 32 OSLO SQUARE GIANT 373mA NW 230V 00-56-61) with neutral white LED to deliver 7080 lumens, integral driver with 20 Lux Cell, Ratio 1:1, LED is pre-set to dim (see note 9)
- ⊕ Proposed steel galvanised 6m column with post mounted Urbis Schreder lantern (AXIA 3.1 5286 OSLO SQUARE GIANT 292mA NW 230V 00-56-61) with neutral white LED to deliver 7080 lumens, integral driver with 20 Lux Cell, Ratio 1:1, LED is pre-set to dim (see note 9)
- ⊕ Proposed steel galvanised 6m column with post mounted Urbis Schreder lantern (AXIA 3.1 5286 OSLO SQUARE GIANT 292mA NW 230V 00-56-61) with neutral white LED to deliver 1950 lumens, integral driver with 20 Lux Cell, Ratio 1:1, LED is pre-set to dim (see note 9)
- ⊕ Proposed steel galvanised 6m column with post mounted Urbis Schreder lantern (AXIA 3.1 5286 OSLO SQUARE GIANT 292mA NW 230V 00-56-61) with neutral white LED to deliver 1050 lumens, integral driver with 20 Lux Cell, Ratio 1:1, LED is pre-set to dim (see note 9)
- 11 Existing column number
- 11 Proposed column number (final numbering to be confirmed by LCC) the letter can be dropped and the number only used on the column
- 15 lux iso-contour line
- 6 lux iso-contour line
- 3.00 lux iso-contour line
- 0.60 lux iso-contour line
- ⊕ Wattage:10w
Charge Code : 42 016 0000 100
Switching Regime: 806
- ⊕ Wattage:30w
Charge Code : 42 008 0000 100
Switching Regime: 806
- ⊕ Wattage:38w
Charge Code : 42 038 0000 100
Switching Regime: 806
- DNO(N) New DNO supply
- DNO(D) Disconnect DNO supply
- DNO(T) Transfer DNO supply

Notes

1. All columns and signs (where indicated) shall be serviced via DNO supply and be fitted with a 16A fuse or greater in the DNO cut out.
2. Columns shall be fitted with double pole isolator. The Unit shall be as Lancashire CC specification i.e. Lucy Zodiak with a 32A Isolator and as BS88 Fuse Carrier.
3. Where needed sub fuses for external sub circuits shall be fitted with 6A BS 88 fuses with a 2A fuse in the external sign. Two times (2x) Fuse discrimination shall comply with BS7671.
4. Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.
5. In this instance the use of 3 dimensional masking has not been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
6. Lighting Iso contours where shown in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2003
7. Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Electrical Lighting Solutions (www.elsltd.co.uk), Marwood Electrical (www.marwoodelectrical.co.uk) or Maclean Electrical (www.maclean.co.uk)
8. Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number.
9. Where lighting is indicated to be dimmed. The Light output shall be dimmed to 50% light output. Pre-set to dim from 19:00 hours until 07:00 hours (7-00pm until 7-00am).

COL. NO.	POSITION OF COLUMN		COL. ROTN
	X	Y	
B1	346246.28	406513.17	320
B2	346273.30	406536.09	324
B3	346288.98	406561.71	129
B4	346304.29	406585.74	121
B5	346326.80	406606.56	303
B6	346334.86	406635.27	129
B7	346367.14	406627.55	33
C1	346219.29	406534.83	146
C2	346236.44	406505.80	52
C3	346265.59	406485.83	230
C4	346274.62	406450.99	90
C5	346299.69	406430.63	213
C6	346331.53	406418.75	191
C7	346347.62	406425.14	117
C8	346340.15	406445.48	57
C9	346319.20	406475.42	46
C10	346288.37	406480.36	141
D1	346265.93	406438.49	157
D2	346244.34	406426.15	129
D3	346238.25	406407.23	25

M Class	M1	M2	M3	M4	M5	M6	M7	M8
C Class	C0	C1	C2	C3	C4	C5	C6	C7
P Class	P0	P1	P2	P3	P4	P5	P6	P7

The use of warm white LED and the lighting class of P5 has been made deliberate due to the ecology report stating the presence of bat commuting routes. We are aware this is a departure from the standard Council specification

Class	Eave	E Min	E Ave Max
P1	15 lux	5 lux	42 lux
P2	10 lux	3 lux	28 lux
P3	7.5 lux	2.25 lux	21 lux
P4	5 lux	1.5 lux	14 lux
P5	3.00 lux	0.60 lux	4.50 lux
P6	2.25 lux	0.45 lux	3.38 lux

Class	Eave	Uo
C1	30 lux	40%
C2	20 lux	40%
C3	15 lux	40%
C4	10 lux	40%
C5	7.5 lux	40%

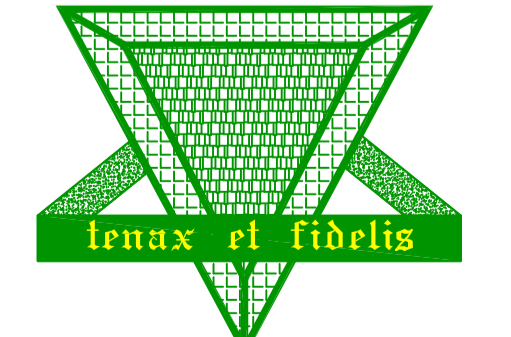
Grid 5
Results - Horizontal Illuminance (lux)
Eave= 3.98
Emin= 0.61
Emax= 15.65
Emin/Emax= 0.04
Emin/Eave= 0.15
Emax/Eave= 3.93

Grid 14
Results - Horizontal Illuminance (lux)
Eave= 2.95
Emin= 0.59
Emax= 8.41
Emin/Emax= 0.07
Emin/Eave= 0.20
Emax/Eave= 2.86

Southern area
Results - Horizontal Illuminance (lux)
Eave= 4.16
Emin= 0.75
Emax= 18.07
Emin/Emax= 0.04
Emin/Eave= 0.18
Emax/Eave= 4.34



Nick Smith Associates Ltd



Tel: 01246 229444
Fax: 01246 270465
mail@nicksmithassociates.com
www.nicksmithassociates.com