



Sheet 1  
Sheet 2

- Notes**
- CABLE CALCULATIONS COMPLY WITH 0.4 SECONDS DISCONNECTION TIME REQUIRED FOR PASSIVE SAFE EQUIPMENT
  - ALL CABLES AT THE END OF EACH INSTALLED CIRCUIT MUST BE TESTED TO CONFIRM A MAXIMUM EARTH FAULT LOOP IMPEDANCE OF 4.65 OHMS
- Key**
- EXISTING DCC L.V. UNDERGROUND SUPPLY CABLE TO REMAIN. DISCONNECT JOINT LIKE FOR LIKE CABLE SIZE (UNLESS SPECIFIED OTHERWISE) AND DIVERT TO NEW COLUMN POSITION AS SHOWN. CABLE ROUTES HAVE NOT BEEN VERIFIED AND ARE ASSUMED (ROUTES ONLY)
  - CABLE TESTING SCHEDULE TO BE CARRIED OUT IN ACCORDANCE WITH THE 18TH EDITION OF THE IEE WIRING REGS (BS7671) TO CONFIRM COMPLIANCE. IF COMPLIANCE CANNOT BE MET PLEASE ADVISE
  - PROPOSED 6mm<sup>2</sup> XLPE SWA 3 CORE CABLE INSTALLED IN UPVC 100mm SMOOTH BORE STREET LIGHTING SERVICE DUCT
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  - EXISTING LIGHTING COLUMN TO REMAIN
  - EXISTING 10M LIGHTING COLUMN TO BE REMOVED AND DISPOSED OF FROM SITE IN CONTRACTORS TIP.
  - EXISTING PUBLIC LIGHTING CABLE TO BE DISCONNECTED AND ABANDONED UNDERGROUND
  - PROPOSED DRAW PIT CHAMBER
  - PROPOSED 10 METRE MOUNTING HEIGHT 100HE2 PASSIVELY SAFE LIGHTING COLUMN C/W POST TOP MOUNTED 5 DEGREE INCLINATION LED LANTERN AS SHOWN. LANTERNS TO BE REUSED AND TRANSFERRED TO NEW COLUMN WHERE NO INFORMATION IS GIVEN.
  - PROPOSED 6 METRE MOUNTING HEIGHT TUBULAR STEEL LIGHTING COLUMN C/W POST TOP MOUNTED 5 DEGREE INCLINATION LED LANTERN. SEE LED SCHEDULE FOR LANTERN TYPE AND QUANTITY
  - EXISTING ILLUMINATED TRAFFIC SIGN TO BE RELOCATED AS SHOWN. CABLING TO COME FROM CLOSEST LIGHTING COLUMN AND SUPPLIED BY 6MM<sup>2</sup> 3 CORE SWA CABLE
  - PROPOSED ILLUMINATED TRAFFIC SIGN. SUPPLIED FROM COLUMN AS SHOWN USING 6MM<sup>2</sup> 3 CORE SWA CABLE - SIMMONSIGNS LUA OR SIMILAR
  - EXISTING FEEDER PILLARS
  - 6M COLUMN TO BE DISCONNECTED AND DISPOSED OF. CABLE TO BE MADE SAFE AND ABANDONED UNDERGROUND. ASSUMED SUPPLY POINT TO BE WITHIN YOUTH CENTRE. REQUIRES SURVEY PRIOR TO REMOVAL

**LED LANTERN SCHEDULE**

URBIS AMPERA MDDI 64LED (700mA)	FF (127 WATT) - 2N0
URBIS AXIA 24LED (408mA)	NN (30 WATT) - 4N0
URBIS AXIA TYPE TL - 1N0	

- GENERAL CONTRACT NOTES**
- ALL EQUIPMENT AND INSTALLATION WORK SHALL BE IN ACCORDANCE WITH THE DURHAM COUNTY FINAL SPECIFICATION 22ND DECEMBER 2014 FOR STREET LIGHTING AND THE FOLLOWING:-
- ALL LIGHTING COLUMNS SHALL BE SUITABLE FOR THE TIME, HEIGHT AND WEIGHT OF THE LANTERN SPECIFIED AND DESIGNED IN ACCORDANCE WITH THE SPECIFICATION
  - COLUMN IDENTIFICATION NUMBERS TO BE PROVIDED ON REQUEST BY THE LIGHTING ENGINEER
  - ALL COLUMN POSITIONS TO AGREE BY THE ENGINEER PRIOR TO ERECTION
  - THE DRAWING IS SCHEMATIC ONLY
  - ELECTRICAL WORK SHALL COMPLY IN ALL RESPECTS WITH THE 17TH EDITION OF THE I.E.E. WIRING REGULATIONS BS7671 AS AMENDED
  - ON COMPLETION AN ELECTRICAL TEST CERTIFICATE FOR EACH LIGHTING COLUMN, ASSOCIATED CABLE AND SWITCHGEAR SHALL BE COMPLETED AND RETURNED BY THE CONTRACTOR
  - ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS WHERE THE EXTENT OF THE WORK IS SUCH THAT THE REGULATIONS APPLY. PRECAUTIONS MUST BE TAKEN TO ENSURE THAT NO DAMAGE IS CAUSED TO UNDERGROUND OR OVERHEAD SERVICES, BEFORE DIGGING OR ERECTING NEW OR REMOVING EXISTING COLUMNS.
  - THE I.P.F. CODE OF PRACTICE FOR ELECTRICAL SAFETY IN HIGHWAY ELECTRICAL OPERATIONS TOGETHER WITH THE I.P.F. SUPPLEMENT ENTITLED 'SAFETY DURING THE INSTALLATION AND REMOVAL OF LIGHTING COLUMNS AND SIMILAR STREET FURNITURE IN PROXIMITY TO HIGH VOLTAGE OVERHEAD LINES'
  - HEALTH AND SAFETY EXECUTIVE BOOKLET HSG047 'WORKING DANGER FROM UNDERGROUND SERVICES' AND H.S.E. GUIDANCE NOTE COS 'AWARENESS OF DANGER FROM OVERHEAD ELECTRIC LINES' AND
  - THE ELECTRICITY ASSOCIATION ENGINEERING RECOMMENDATION C19/1 'NORTHERN ELECTRIC SAFETY CODE OF PRACTICE F4 COVERING ELECTRICAL SAFETY AND PLANNING, INSTALLATION, COMMISSIONING AND MAINTENANCE OF PUBLIC LIGHTING ETC.

PO3	17.01.22	NR	NR	REFERENCE TO THE EXISTING DRAWING BY DURHAM'S SWA MATHS STREET LIGHTING DUCTS TO BE TESTED TO CONFIRM A MAXIMUM EARTH FAULT LOOP IMPEDANCE OF 4.65 OHMS TO BE MOVED TO BACK OF NEW FOOTWAY
PO2	01.05.20	JP	NR	COLUMNS CHANGED TO PASSIVELY SAFE
PO1	22.04.20	JP	NR	ISSUED FOR PRICING

**ESTIMATING**

**Durham County Council**

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Project: **A167 CENTRAL AVENUE  
NEWTON AYCLIFFE**

Drawing: **LIGHTING LAYOUT - SHEET 2 OF 2**

Drawn: JP	Date: 22/04/20
Designed: JPU/W	Date: 17/04/20
Checked: NR	Date: 23/04/20
Approved: JS	Date: 23/04/20

Drawing No: 1383228 - DCC - LE - 13 - 02  
Location: Newton Aycliffe  
Drawing Scale: 1:250  
Original Sheet Size: A0  
DO NOT SCALE FROM DRAWING

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION - RESIDUAL HAZARD INFORMATION**

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

**CONSTRUCTION**

- THERE ARE RISKS INVOLVED WITH CONSTRUCTION WITH THE POTENTIAL PRESENCE OF HYPODERMIC NEEDLES.
- EXISTING STATUTORY UNDERTAKERS APPARATUS IS SHOWN ON UTILITY DRAWING SHEETS. THERE MAY BE ADDITIONAL UTILITIES PRESENT THAT ARE NOT IDENTIFIED ON THIS AND ASSOCIATED DRAWINGS. THE CONTRACTOR SHALL CARRY OUT SCANS / INVESTIGATIONS, AS APPROPRIATE, PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
- THE CONTRACTOR MUST ENSURE THAT THE WORKFORCE OPERATES IN A SAFE AND HYGIENIC MANNER AND APPROPRIATE PPE IS PROVIDED FOR OPERATIONS CARRIED OUT.
- THE CONTRACTOR SHOULD BE AWARE THAT DUE TO THE LOCATION OF THE WORKS THERE WILL LIKELY BE A HIGHER PROPORTION OF COMMERCIAL VEHICLES THEREFORE THE WORKFORCE SHOULD BE VIGILANT AT ALL TIMES FOR LIVE TRAFFIC.

**MAINTENANCE / CLEANING / OPERATION**

- THERE ARE NO KNOWN EXCEPTIONAL RISKS.

**DECOMMISSIONING / DEMOLITION**

- THERE ARE NO KNOWN EXCEPTIONAL RISKS.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

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