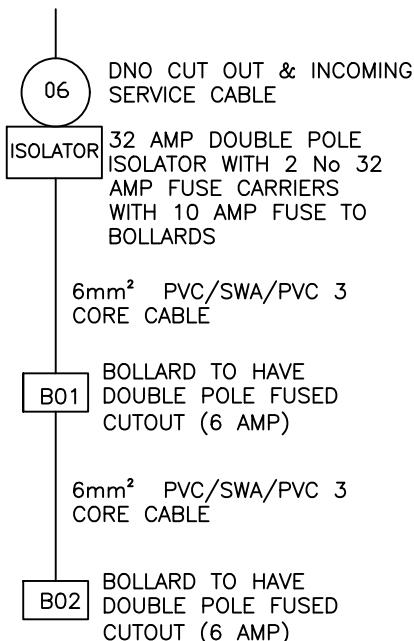


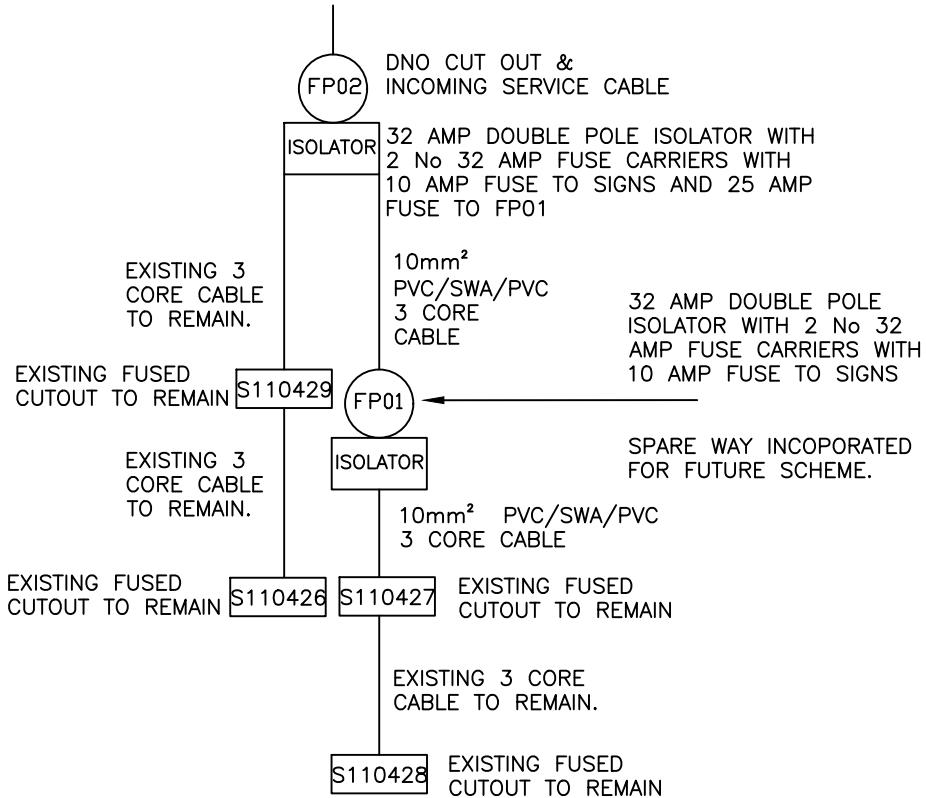
EXAMPLES OF SCHEMATIC DIAGRAMS
FOR ELECTRICAL WORKS

Notes:

SCHEMATIC DIAGRAM 1



SCHEMATIC DIAGRAM 2



Drawing:

STANDARD DETAIL
SCHEMATIC DIAGRAM

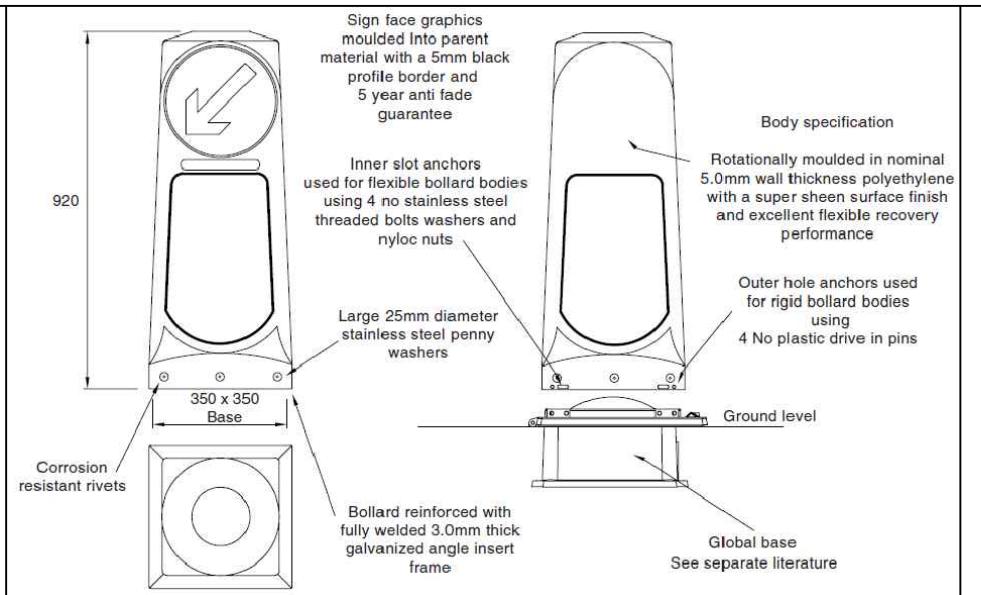
Drg. No.

J/01

Street Lighting Design Criteria - Required Lighting Classes (J/02)

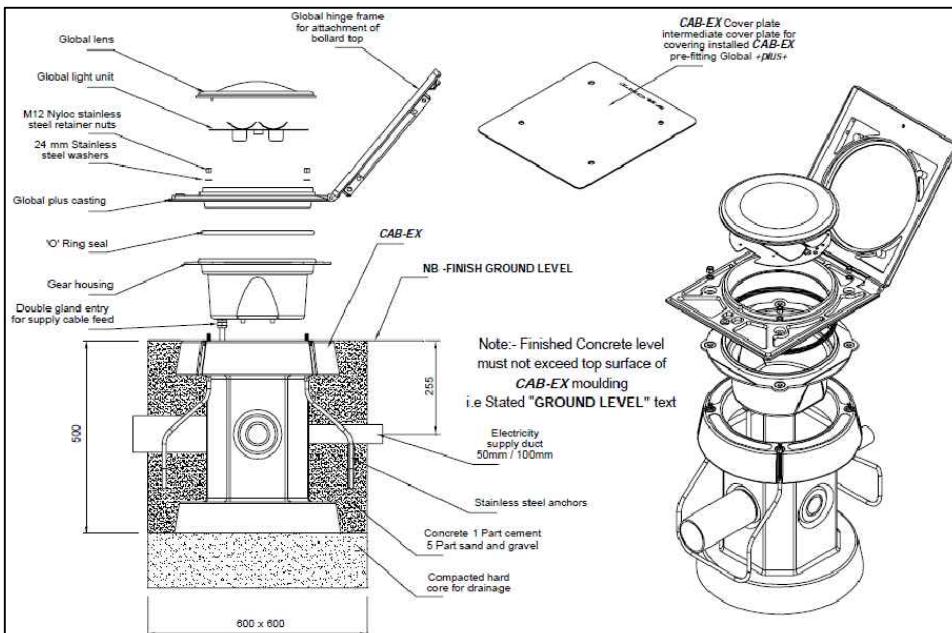
Road Category	Lighting Class		Required Maintenance Factor	Required Colour Temperature
Traffic Route Single Carriageway (less than or equal to 40mph)	ADT > 40,000	M3	0.86	3,000k
	ADT 7,000 - 40,000	M4		
	ADT < 7,000	M5		
Traffic Route Single Carriageway (greater than 40mph)	ADT > 40,000	M2	0.86	3,000k
	ADT 7,000 - 40,000	M3		
	ADT < 7,000	M4		
Traffic Route Dual Carriageway (Less than or equal to 40mph)	ADT > 40,000	M3	0.86	3,000k
	ADT 7,000 - 40,000	M4		
	ADT < 7,000	M5		
Traffic Route Dual Carriageway (greater than 40mph)	ADT > 40,000	M2	0.86	3,000k
	ADT 7,000 - 40,000	M3		
	ADT < 7,000	M4		
Subsidiary Roads Busy	P4		0.75	3,000k
Subsidiary Roads Quiet	P5		0.75	3,000k
Outdoor Car Park for local shops & residential areas	E		0.75	3,000k
	5	0.25		
Outdoor Car Park for department stores, office buildings & sports complexes	E	U°	0.75	3,000K
	10	0.25		
Outdoor Car Park for schools, churches, major shopping centres & sports complexes	E	U°	0.75	3,000K
	20	0.25		
Conflict Areas where traffic route class is:	M2	C1	0.75	3,000K
	M3	C2	0.75	3,000K
	M4	C3	0.75	3,000K
	M5	C4	0.75	3,000K
Cycle Tracks	Busy	P4	0.75	3,000K
	Normal	P5		
Footpaths	Busy	P4	0.75	3,000K
	Normal	P5		
Town Centres Pedestrian Only	P1		0.75	3,000K
Town Centres Mixed Vehicle & Pedestrian (separate footway)	C2		0.75	3,000K
Town Centres Mixed Vehicle & Pedestrian (shared space)	C1		0.75	3,000K

Note: Manufacturer's S/P Ratio must be matched, and referenced within Design Calculations.



Notes:

1.



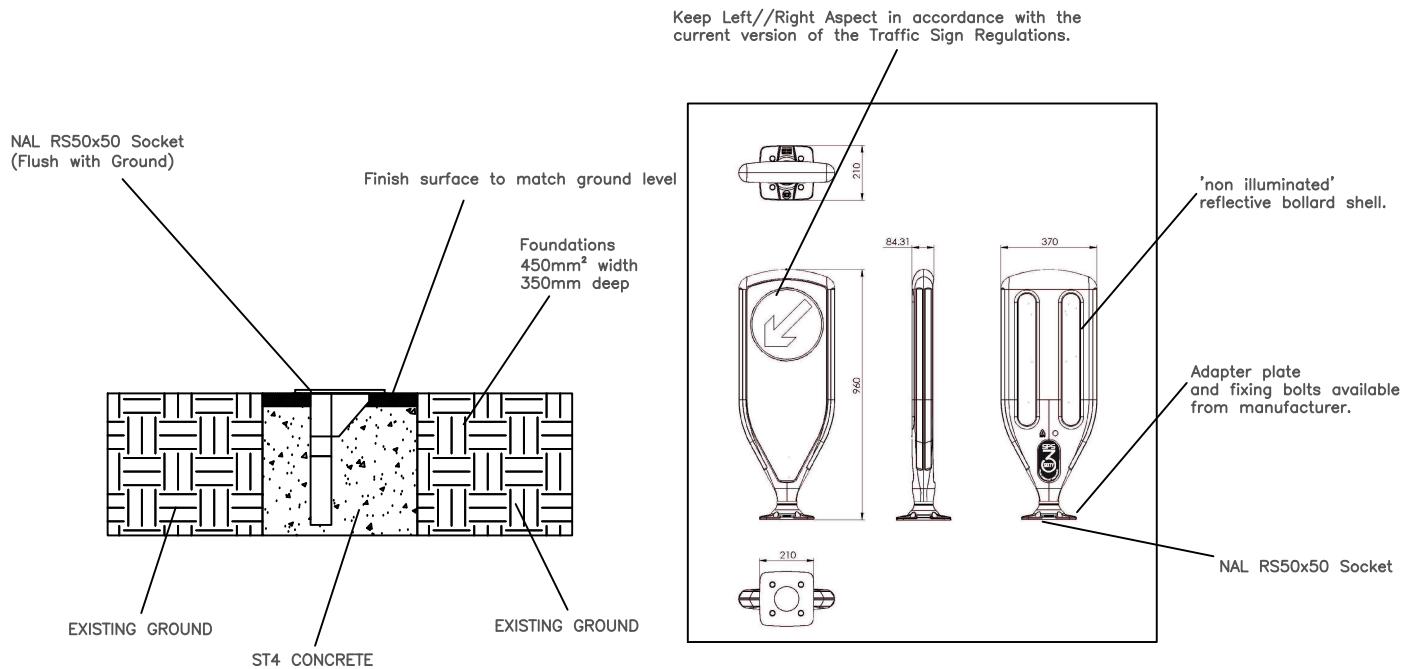
Drawing:

**STANDARD DETAIL
CONVENTIONAL ILLUMINATED
TRAFFIC BOLLARD DETAIL**

Drg. No.

J/03

Notes:



Drawing:

STANDARD DETAIL
3SIXTY BOLLARD

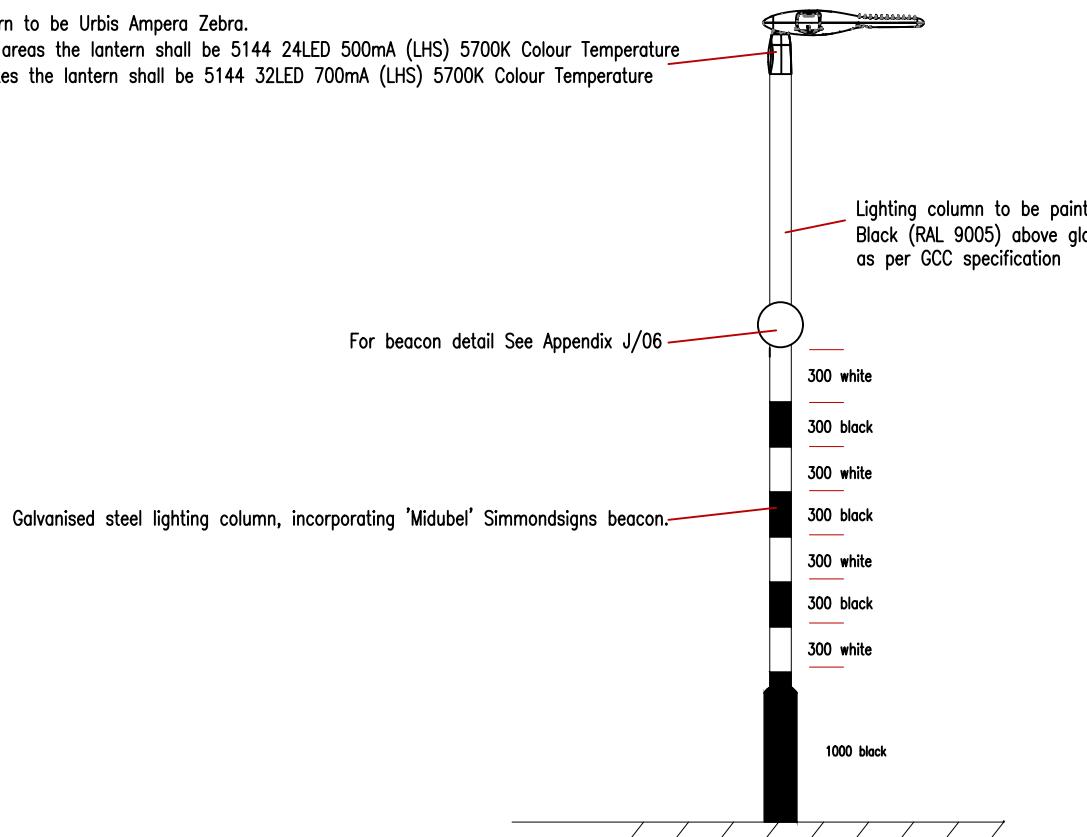
Drg. No.

J/04

Preferred lantern to be Urbis Ampera Zebra.

For residential areas the lantern shall be 5144 24LED 500mA (LHS) 5700K Colour Temperature

For traffic routes the lantern shall be 5144 32LED 700mA (LHS) 5700K Colour Temperature



Notes:

1.



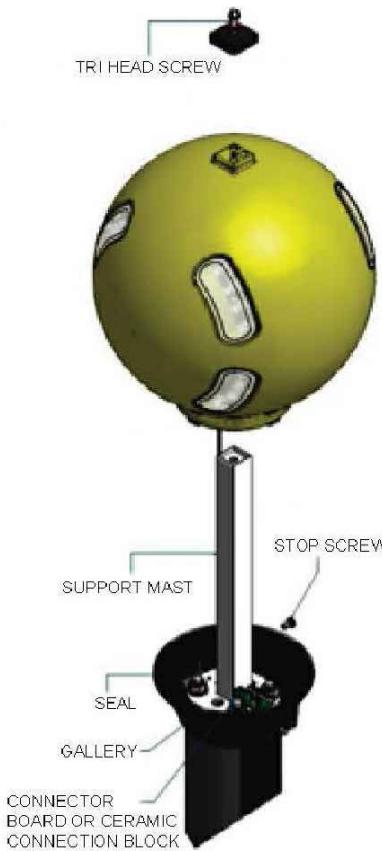
Drawing:

ZEBRA CROSSING DETAIL

Drg. No.

J/05

ModuStar



MiduStar



Full Shroud option



Notes:

1.

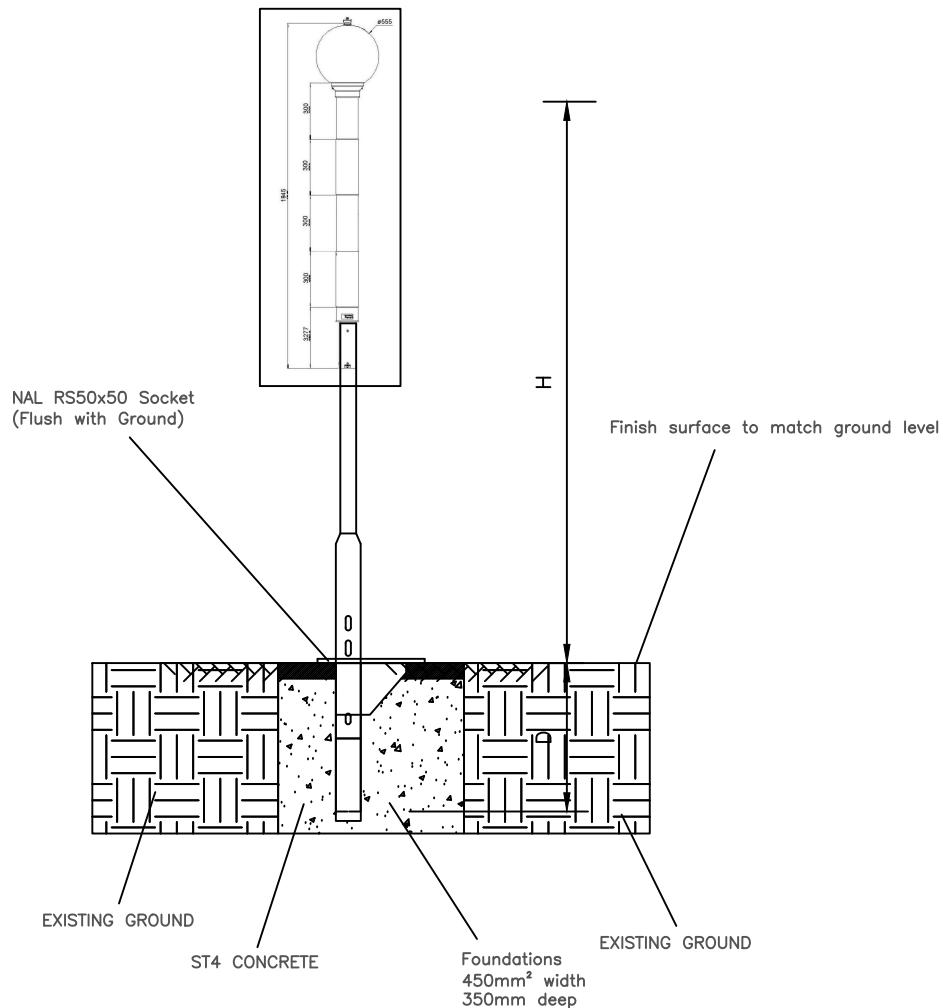


Drawing:

STANDARD DETAIL
MODUSTAR/MIDUSTAR FOR
BELISHA BEACONS

Drg. No.

J/06



Notes:



Drawing:

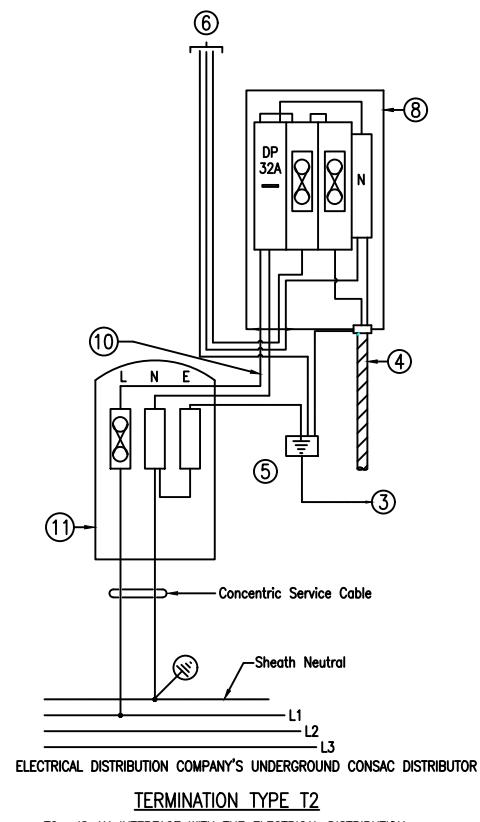
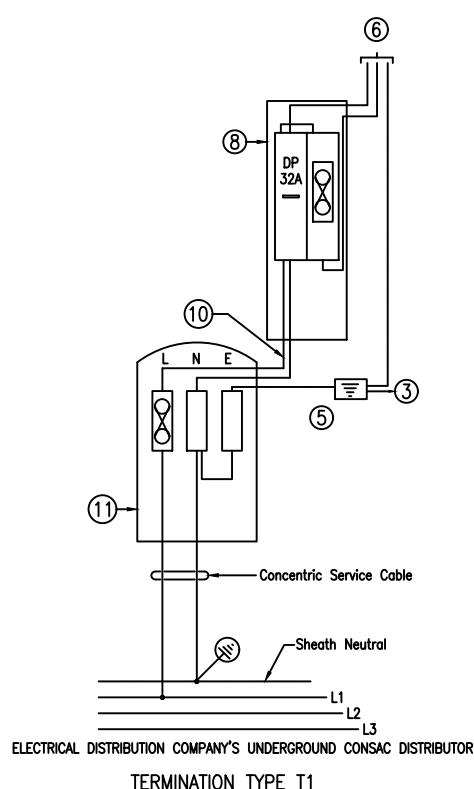
STANDARD DETAIL GUARDIAN ANGEL

Drg. No.

J/07

TABLE 1

CROSS SECTIONAL AREA OF TAILS CONNECTED TO CUT - OUT SQ mm COPPER EQUIVALENT	MINIMUM CROSS SECTIONAL AREA COPPER EQUIVALENT OF MAIN EQUIPOTENTIAL BONDING CONNECTIONS IN SQ. mm
LESS THAN 35	10
OVER 35 BUT NOT MORE THAN 50	16



Notes:

1. The Specification for Highway Works (current version, or as indicated in the contract) applies, together with any Gloucestershire County Council additional or substitute clauses.
2. ALL DIMENSIONS ARE IN MILLIMETRES.
3. Local Authority road lighting unit, lit traffic sign unit or feeder pillar earth stud.
4. Local Authority cable(s) (PVC/XLPE/PVC) with CET cable gland, SNE distribution.
5. All main bonding shall be in accordance with Table 1. Bonding terminals attached to the earth marshalling terminal by means of a crimped lug. All supplementary bonding shall be 6 sq.mm.
6. Control gear / lantern wiring conductors shall be 1.5 sq.mm for columns up to 6 metres nominal height and 2.5 sq.mm for columns 8 metres and above.
7. The circuit protective device(s) shall be BS EN 60269 HBC cartridge fuses rated as follows:-
For lantern wattages up to 70 watt - 6 amp
over 70 watt up to 250 watt - 10 amp
8. Enclosed double pole switched isolator and integral BS EN 60269 HBC cartridge fuse(s) with a lock off facility.
9. Interconnecting phase and neutral conductors to the electrical distribution company's interface shall be 6 sq.mm PVC insulated and sheathed.
10. Electrical distribution company's fused cut-out.



Drawing:

STANDARD DETAIL
ELECTRICAL SUPPLY CABLE
TERMINATION TYPES T1 & T2

Drg. No.

J/08

Road Lighting Columns and Brackets
APPENDIX 13/2 PART 1

SPECIFICATION	EN40
REVISION No	3
DATE	**/**/****
DRAWING No	B9213

CLIENT *
PROJECT Development
CONTRACT No.
DETAILS 6M Post Top Column
COLUMN REF/TYPE Tubular Steel

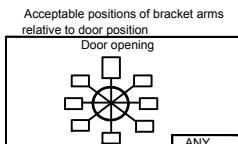
PART A General

Column nominal height 6.0 m

Column material Steel

No of door openings 1

Door opening size : Door 1 2
height 500 0 mm
width 00 0 mm



Cross-section of base height width depth
compartment (mm) (mm) (mm)
500 100 119

Column Sections	Dia x thickness (mm)	f _y (N/mm ²)
base	139.7 x 3	275
shaft	76.1 x 2.5	275

Corrosion protection (steel columns only) - basic system type (NG 1901) HOT DIP GALVANISE BS 1461

Additional sacrificial steel thickness above that needed in the design, from the bottom of the column to at least 250mm above the anticipated ground level. 0.0 mm

Details of signs and attachments allowed for in the design

Area (m ²)	Offset (eccentricity) (mm)	Height (mm)	Item	Area	Offset	Height
			Sign	0.500	300	2500

PART B Foundation data

Planted base Planted depth 1000 mm

Planted depth 1000 mm

Standard Soil Type Factor G		
630	390	230
NONE	62	0.275 m

Diameter of concrete surround (if any)

Bolt hole crs. (mm)	Hole diameter (mm)	Design load/bolt (kN)
N/A	N/A	N/A

Relevant forces and moments at ground level

TRANSMITTED LOADS (all unfactored) (EN 40)

BM (kNm)	Shear (kN)	Axial (kN)
Planted Root : 4.06	1.42	0.57
Flanged : 4.06	1.42	0.57

Line of max. moment relating to door opening

NOTE: For flange plates with slotted holes a diagram shall be included with this data sheet

APPENDIX 13/2 PART 2

EN40 DESIGN PARAMETERS	
Mean Return Period	50
Topography factor	1.00
Terrain Category	III
Altitude above sea level	178 m
Basic Wind Speed (BS EN 1991-1-4)	22.5 m/s
Rationalised Wind Region	N/A
Partial Load Factor	Class B
Partial Material Factor	1.05
Deflection Class	3

PART C Acceptable Lanterns

Post Top Column

LANTERN: MAXIMUM CHARACTERISTICS

Lantern Connection	Max Wt (kg)	Max Wind Area m ²
Diameter (mm)	100	0.1

Single Arm Bracket Column

Lantern Deflection (mm)	
Vertical (mm)	Horizontal (mm)
N/A	N/A

Bracket projection (m)	Drawing No	Ref No	Material		Lantern Connection		Fixing	Max Wt (kg)	Max Wind Area m ²
			Grade	f _y (N/mm ²)	Diameter	Length			
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Double arm brackets

Lantern Deflection (mm)	
Vertical (mm)	Horizontal (mm)
N/A	N/A

Bracket projection (m)	Drawing No	Ref No	Material		Lantern Connection		Fixing	Max Wt (kg)	Max Wind Area m ²
			Grade	f _y (N/mm ²)	Diameter	Length			
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

It is certified that the information given in the data sheet has been obtained in accordance with the requirements of : EN40

Signed on Behalf of the Contractor Date: **/**/****

Notes:

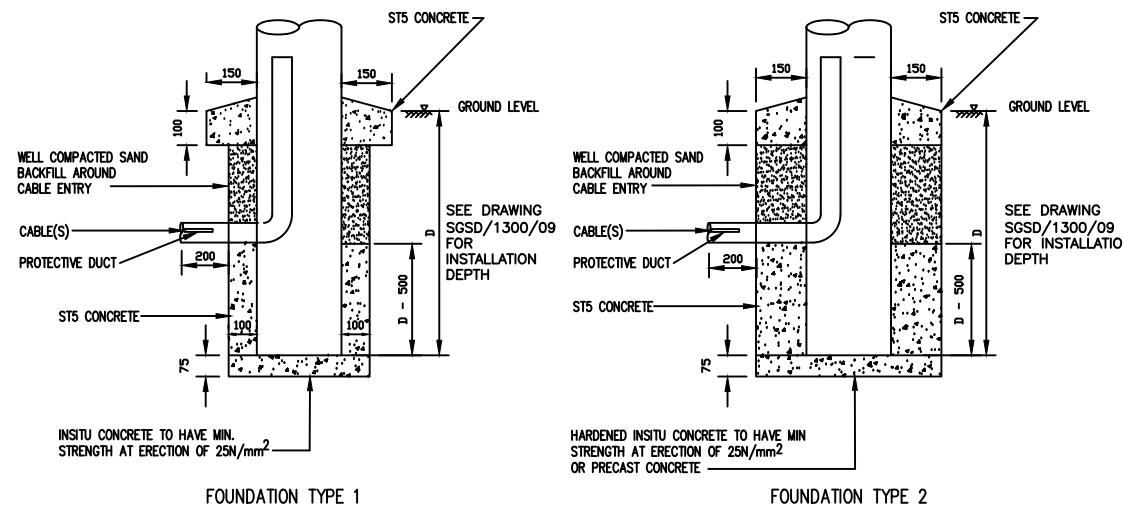
Drawing:

COLUMN DATA SHEET
(EXAMPLE)

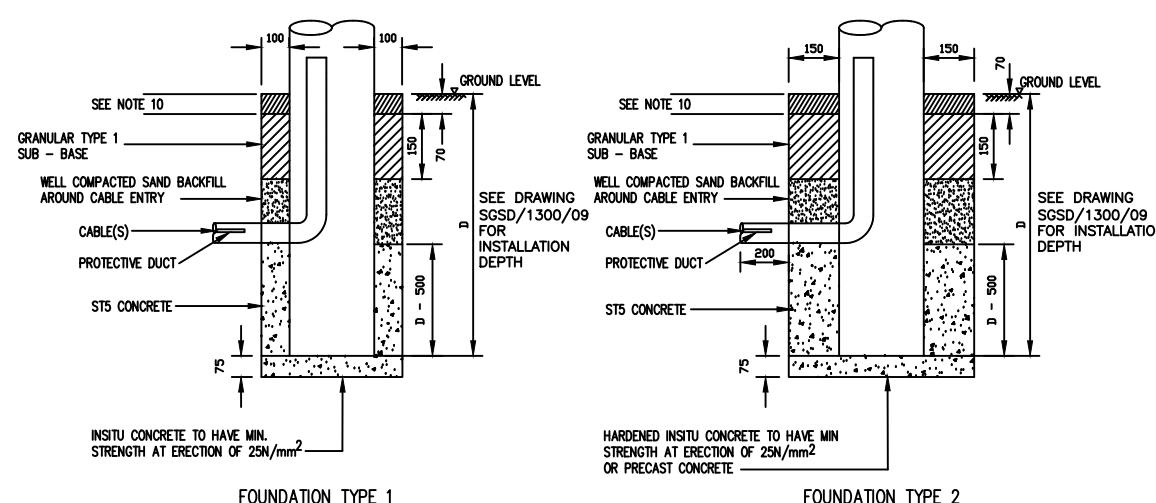
Drg. No.

J/09





COLUMN ROOT INSTALLED IN EITHER A VERGE OR A CONCRETE FOOTPATH



Notes:

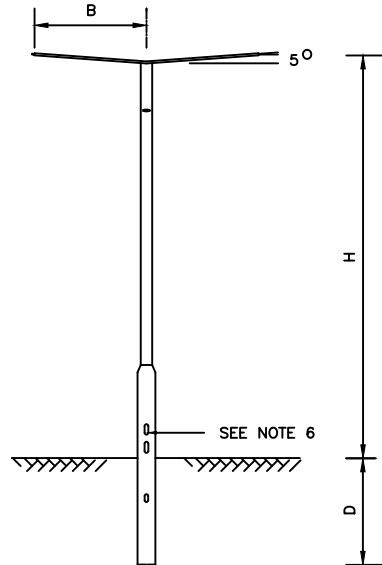
1. The Specification for Highway Works (current version, or as indicated in the contract) applies, together with any Gloucestershire County Council additional or substitute clauses.
2. ALL DIMENSIONS ARE IN MILLIMETRES.
3. Columns shall be installed in accordance with Clause 1305 and shall present a uniform alignment when erected, installation tolerance shall be $\pm 50mm$.
4. Columns shall be erected vertically. Lanterns shall be fitted separately.
5. The cable entry slot shall be plugged prior to backfilling to prevent the ingress of sand into the column.
6. DUCTING
The duct shall be coloured:
(i) BLACK for electrical distribution company use.
(ii) ORANGE for Local Authority cable(s).
7. MATERIAL SPECIFICATION CLAUSES:
(i) Sand to BS1199 and BS1200
(ii) Concrete to be ST5 to Clause 2602 with a maximum water to cement ratio of 0.60. The prescribed mix to be to BS8500-1.
(iii) Type 1 unbound mixture sub-base to Clause 803.
8. The ground level foundation concrete collar shall be installed after installation of the electrical supply cable(s) and completion of the ground backfill works.
9. Area above foundation shall be reinstated to match surrounding materials.
10. Column to be installed as recommended by the manufacturer.



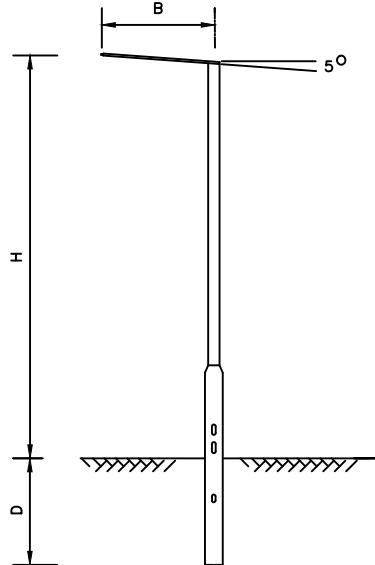
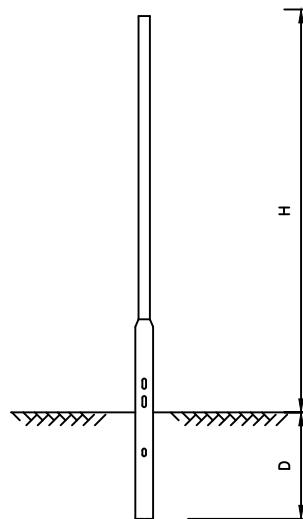
Drawing:
STANDARD DETAIL
STEEL ROOT COLUMN//SIGN
FOUNDATION TYPE 1 & TYPE 2

Drg. No. J/10

ELEVATION ON DOUBLE BRACKET



ELEVATION ON SINGLE BRACKET

ELEVATION WITHOUT BRACKET
(LANTERN POST TOP FIT)

Notes:

1. The Specification for Highway Works (current version, or as indicated in the contract) applies, together with any Gloucestershire County Council additional or substitute clauses.
2. ALL DIMENSIONS ARE IN MILLIMETRES.
3. All columns shall be galvanised steel, factory painted and shall comply with Clause 1301 and the specific requirements of Appendix 13/1, 13/2 and 19/2.
4. Columns shall be installed in accordance with Clause 1305 and shall present a uniform alignment when erected, installation tolerance shall be $\pm 50\text{mm}$.
5. Columns shall be erected vertically. Lanterns shall be fitted separately.
6. For columns with twin projection bracket arms the column shafts shall be fitted with twin access doors.

COLUMN HEIGHT (H) METRES	DEPTH (D) METRES	ALTERNATIVES FOR (B) METRES	
		BRACKET ARM	POST TOP
5	0.8	N/A	0.0
6	1.0	N/A	0.0
8	1.2	N/A	0.0
10	1.5	N/A	0.0
12	1.7	N/A	0.0
15	2.0	N/A	0.0
18	2.0	N/A	0.0

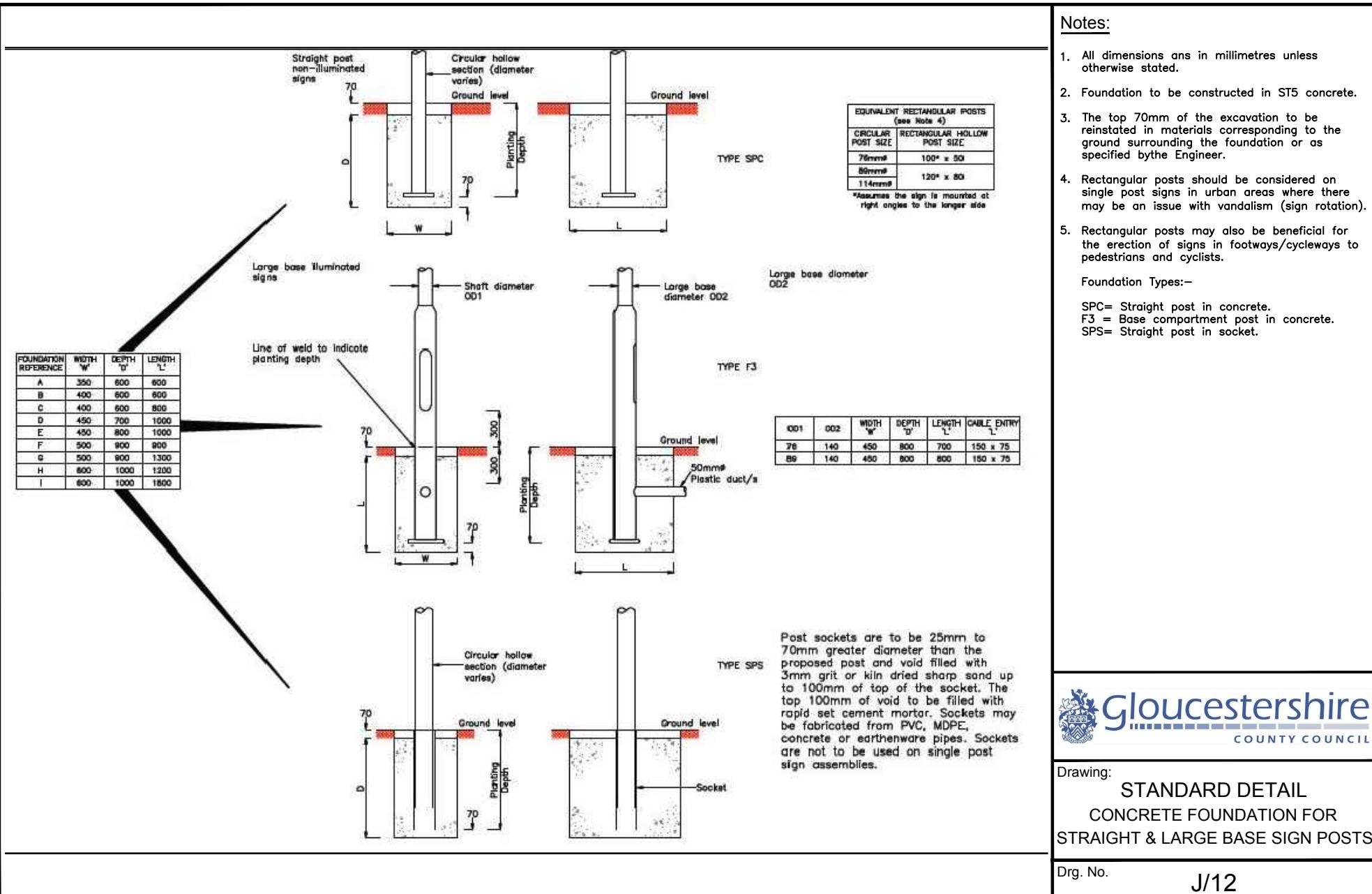


Drawing:

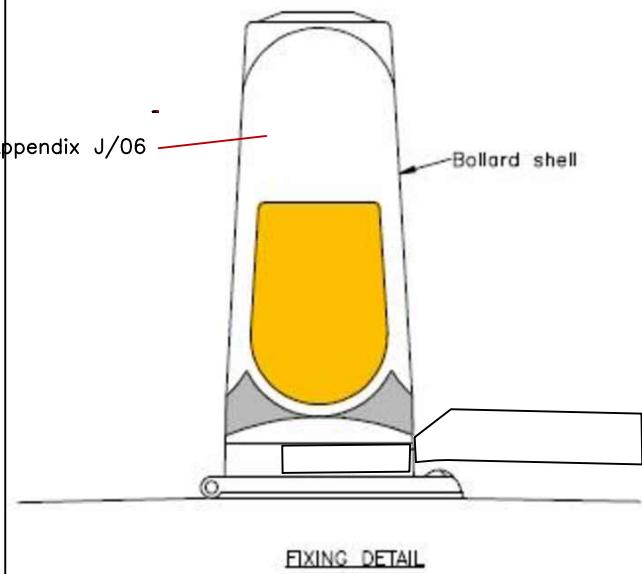
STANDARD DETAIL
STREET LIGHTING COLUMN
PLANTING DETAILS

Drg. No.

J/11



For beacon detail See Appendix J/06



Notes:

1. Reflective numbers to be 30mm high adhesive black numbers on white background.
2. Manufacturer of suitable adhesive numbering is: Graficom Ltd, Unit 3, East Burrowfield, Welwyn Garden City, Herts.



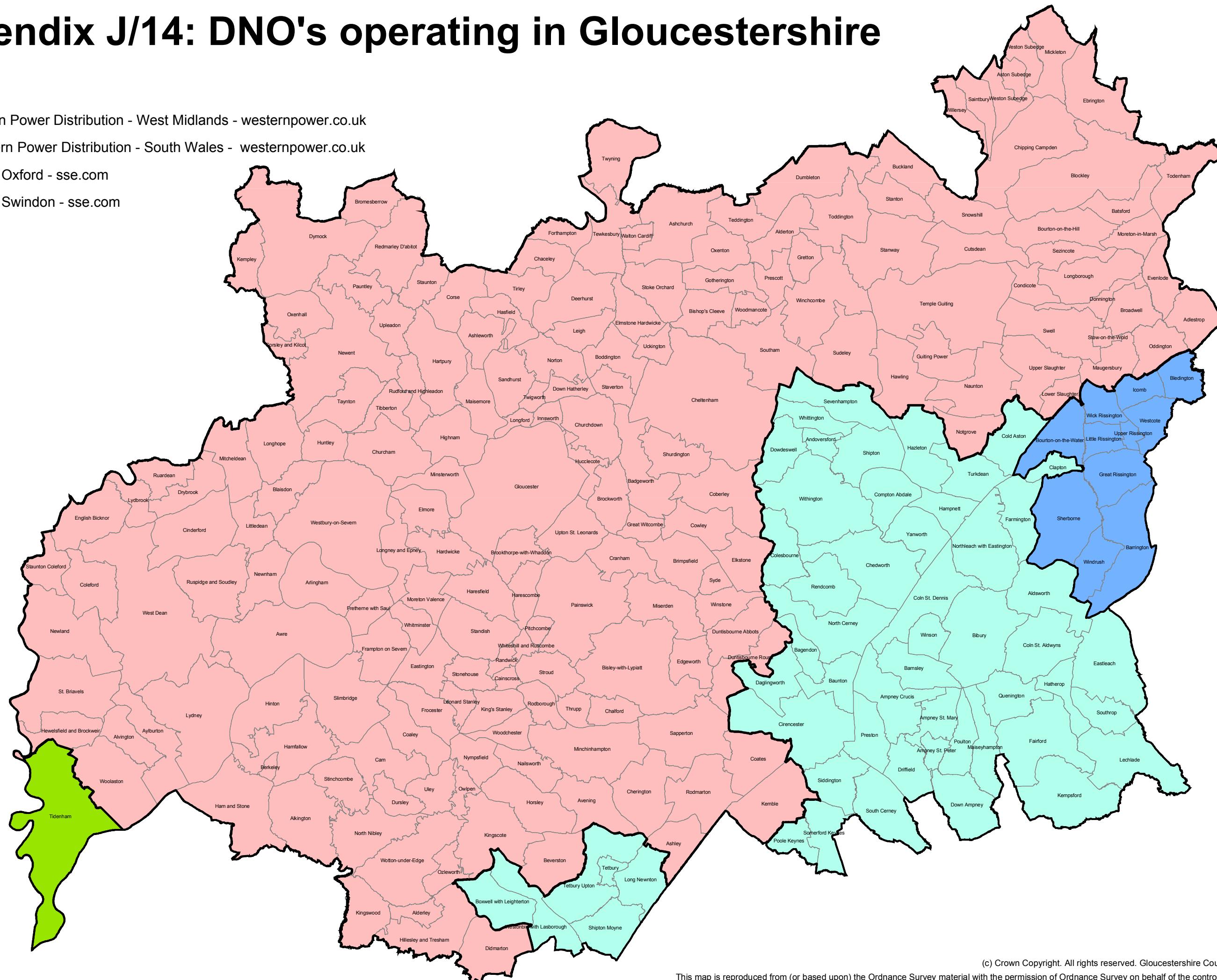
Drawing: STANDARD DETAIL
NUMBERING SYSTEM FOR
ILLUMINATED BOLLARDS

Drg. No. J/13

Appendix J/14: DNO's operating in Gloucestershire

Legend

- Wetern Power Distribution - West Midlands - westernpower.co.uk
- Western Power Distribution - South Wales - westernpower.co.uk
- SSE - Oxford - sse.com
- SSE - Swindon - sse.com





APPENDIX J/15

SERVICE LEVEL AGREEMENT BETWEEN THE ELECTRICITY NETWORKS COMPANY AND GLOUCESTERSHIRE COUNTY COUNCIL FOR UNMETERED CONNECTIONS TO STREET LIGHTING AND STREET FURNITURE

Date: 17th October 2019 Version 1

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Unmetered Connections Service Level Agreement

1. INTRODUCTION

This Service Level Agreement (SLA) outlines the target level of service to which The Electricity Networks Company and Gloucestershire County Council aim to work with regard to unmetered connections (UMC). The services recognised by The Electricity Networks Company as being part of the UMC function are connection work and fault repairs associated with street lighting and street furniture, as included in the Unmetered Services Agreement between the customer and The Electricity Networks Company and as per the Schedule of Rates. There must exist an Unmetered Services Agreement between the customer and The Electricity Networks Company before the services included in this SLA can be offered.

This SLA is based upon a framework document developed in joint consultation between DNOs and representatives of Local Authority Lighting Customers and incorporates the criteria of the Electricity Connections Standards Of Performance Regulations 2010.

The Electricity Networks Company is committed to delivering the best possible service levels to its customers and recognises the importance of public lighting and street furniture to its customers and the community. In order to deliver the best possible service The Electricity Networks Company recognises it must work with its customers to ensure a safe, effective and efficient service; therefore, this is a two-way SLA outlining not only the service levels The Electricity Networks Company aims to offer its customers, but the service levels Gloucestershire County Council aim to provide to The Electricity Networks Company.

2. HEALTH AND SAFETY

At The Electricity Networks Company, we recognise our responsibilities to all who may be affected by our activities and we are committed to achieving high standards of health and safety. We regard the application of legal requirements as the minimum level of achievement. We believe the effective management of health and safety is essential to our operation and as important as all other management functions and therefore we will ensure that adequate resources are allocated to this task. We consider the identification of relevant hazards, assessment of foreseeable risks and the effective implementation of appropriate control measures as fundamental to achieving continual improvement of our safety performance.

3. STATUS OF THIS SERVICE LEVEL AGREEMENT

This document is intended to be an articulation of The Electricity Networks Company Standard Distribution Licence Condition SLC15A and the Electricity Connections Standards Of Performance Regulations 2010. It outlines the target service levels which The Electricity Networks Company and Lighting Authorities aim to achieve and required by Ofgem. This document will be reviewed on a periodic basis.

4. METER ADMINISTRATION AND ENERGY TRADING

If, following signature of this document by both parties, Gloucestershire County Council trades all of its street furniture connections on a half hourly basis with its nominated electricity supplier other than those street furniture connections that are connected directly to the ENC Distribution System, ENC will endeavour to pay to Dorset Council the lesser of the amounts calculated in accordance with paragraph (a) and (b) below; provided that Gloucestershire County Council provides satisfactory backing documentation to support these amounts:

- a) An amount which is equal to the positive difference (if any) between:
 - i) the pence per kWh electricity supply tariff that is levied by the electricity supplier against Gloucestershire County Council for the supply of electricity to unmetered street lighting connections traded on a non half hourly basis and connected directly to the ENC Distribution System multiplied by the total Equivalent Annual Consumption for such street lighting connections, and
 - ii) the pence per kWh electricity supply tariff that is levied by the electricity supplier against Gloucestershire County Council for the supply of electricity to unmetered street lighting connections traded on a half hourly basis multiplied by the total Equivalent Annual Consumption for the unmetered street lighting connections traded on a non half hourly basis and connected directly to the ENC Distribution System.
- b) any reasonable additional administrative costs levied (or that would be levied) against Gloucestershire County Council by its meter administrator for the purposes of processing, on a half-hourly basis, all unmetered street lighting connections that are connected directly to the ENC Distribution System.

LEVELS OF SERVICE

Levels of Service	(5)	<ol style="list-style-type: none"> 1. Category Cat1E – 90% attendance in 2 hours (failure penalty £50 per site) 2. Category Cat1U – 90% complete in <=1 calendar day * (failure penalty £10 per day or part day) 3. Category Cat1U – 90% complete in <=1 calendar day* (failure penalty £10 per day or part day) 4. Category Cat10 – 90% complete in <=10 calendar days* (failure penalty £10 per day or part day) 5. Category Cat3 – 90% complete in <=3 calendar days* (failure penalty £10 per day or part day) 6. Category Cat1U – 90% complete in 20 working days (failure penalty £10 per day or part day)
-------------------	-----	--

* These service levels are in excess of those specified in the Electricity (Connections Standards of Performance) Regulations 2010 and will be met by ENC using its reasonable endeavours. However, the Penalty Payments will only be payable by ENC when ENC fails to meet the Service Levels in the Electricity (Connections Standards of Performance) Regulations 2010.

On behalf of **The Electricity Networks Company**

Signed: _____ Date: _____

Name: _____

Position: _____

On behalf of **Gloucestershire County Council**

Signed: _____ Date: _____

Name: _____

Position: _____

5. DEFINITIONS

Term	Definition
ALARP	As low as reasonably practicable.
Area of public order concern	An area with a high risk of crime to which a significant contributory factor may be the lack of street lighting.
Asset	<p>This may include, but is not limited to, a single item of street lighting or street furniture e.g.</p> <ul style="list-style-type: none"> • A single lamp column • A traffic light column • A bollard • An advertising hoarding • A CCTV camera • An illuminated sign • A belisha beacon • A variable messaging sign <p>Where a single lamp column has multiple lamps mounted on it, this is a single asset.</p>
Authorised Person	As defined in the The Electricity Networks Company Distribution Safety Rules.
Clock	<p>Measurement of elapsed time against a service standard. The time reported for each individual instance of a process will be:</p> <p>[Clock Stop Date] — [Clock Start Date] — (Clock Resume Date — Clock Pause Date)</p> <p>When measuring elapsed time against the 'Emergency Response' SLA category, the elapsed time will be measured in hours and minutes and will operate 24 hours a day, 7 days a week. For all other service categories, the elapsed time will be measured in Working days.</p>
Clock Abort	An event that happens while the clock is running that ceases measurement against the standard and excludes that particular job or request from SLA reporting.
Clock Pause	<p>Any point in the delivery of a service that the clock has temporarily stopped because The Electricity Networks Company cannot make further progress because it is waiting for an external event. This will include:</p> <ul style="list-style-type: none"> • Waiting for a decision from the customer which materially affects the commencement of the work • Waiting for an opening notice or other consent. <p>A clock pause will always be associated with a triggering operational event and in all cases The Electricity Networks Company will record the reason for the clock pause and inform the customer that the clock has paused and what the reason is.</p>
Clock Restart	An operational event that occurs while the clock is running that restarts the clock from zero.
Clock Resume	The point at which a clock pause condition is resolved and The Electricity Networks Company is able to make progress against a specific request. This will always be associated with a specific operational event.
Clock Start	The point in a process at which the clock starts. Each clock start is triggered by a specific event — the 'clock start event'. For each clock start event, there are a number of preconditions including but not limited to the supply of minimum information.
Clock Stop	The point in a process when the clock stops. This will be triggered by

	a specific event.
Customer	Local Authority/Highway Authority or nominated representative by those parties and any other party with a UMC agreement (excluding developers).
DfT Number	Department for Transport number, unique to the Local Authority.
Electrical work completed	<p>For High Priority, Multiple Unit and Single Unit Faults, electrical work is considered to be complete when the following criteria have been met:</p> <ul style="list-style-type: none"> • A live supply is present at the supply terminals of the cut-out that is within statutory voltage limits (230 volts +10/-6 %) • The cut-out is electrically and mechanically safe, with no exposed live parts <p>For connections and transfers, electrical work is considered completed when the 'cut-out is energised' (including temporary repairs).</p> <p>For disconnections, electrical work is considered complete when The Electricity Networks Company has removed all of its assets.</p>
Emergency Response	The Electricity Networks Company defines an emergency as a scenario where there is immediate danger to the public from the electricity network or where the connection to the electricity network is preventing The Electricity Networks Company from making the asset or the site safe.
High priority fault repair	Work that is urgent but would not require attendance outside normal working hours to restore electricity supplies to street lighting or street furniture.
Job	A job is defined as a task e.g. the connection, disconnection or transfer of any single asset.
LA	Local Authority/Highway Authority or nominated representative
Minimum information	For any process or service carried out by The Electricity Networks Company (or its contractors) the minimum information is the information which is required to be supplied by the customer before The Electricity Networks Company can commence work. As such, the clock will not start on any service standard until the minimum information has been received. The minimum information required by The Electricity Networks Company for each service standard is specified in Appendix 1.
Multiple unit fault repair	Fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and high earth impedance affecting more than one asset.
New works	New works are classified as UMC works for any new lighting and signage work that require the provision of connection/disconnections, service transfers, new services and disconnections.
Order	(Applicable to new works only and chargeable repairs) An order is an instruction by the customer to The Electricity Networks Company for works to be programmed. An order is only placed once a quote has been accepted or the customer has self-quoted from the Schedule of Rates. For an order to be placed the customer must supply The Electricity Networks Company with the necessary minimum information as specified in Appendix 1.
Scheme	A single UMC connections project comprising one or more jobs in the same geographic Location (e.g. street) or in a contiguous area.
SLA	Service Level Agreement.
Single unit fault repair	Fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and high earth impedance affecting one asset.
Standard	The Standard Rates Schedule as defined in Appendix 4 of this

Schedule of Rates	Agreement.
SWA	Steel wired armoured cable.
System Emergency	A system emergency is declared when an event or events occur on The Electricity Networks Company's distribution system that have a significant impact on the continuity of electricity supplies or the safe management of the network. The Electricity Networks Company then suspends normal business operations and redeploys staff to respond to, and recover from, the event and return the system to normal. Under System Emergency circumstances any activities that are non-critical to the continuity of supplies or safe management of the networks may be suspended.
Task	A task is defined as a complete jointing activity e.g. the connection or disconnection of a single asset.
Tie Up	A Tie Up is the term used to describe an activity where works must be coordinated between the LA and The Electricity Networks Company, when an asset needs to be removed and replaced on the same day. An example would be where a column needs to be disconnected by The Electricity Networks Company and then removed by the LA, and a new column is put in place and reconnected by The Electricity Networks Company. This usually occurs when it is not feasible to change the position of an asset.
UMC	Unmetered connection.
UMS	Unmetered supplies.
Unmetered Supply Agreement	The agreement titled "Agreement for Unmetered Connection to The Electricity Networks Company Distribution System". A signed agreement must be in place between the customer and The Electricity Networks Company before the services described in this SLA can be offered.
Unit	Applicable to SLA Standard 5.3 & 5.4 — Fault Repairs. A unit is any single asset with an unmetered connection.
Working day	08:00-16:30, Monday to Friday (excluding public holidays) as defined by Ofgem.

6. The Electricity Networks Company SERVICE CATEGORY SUMMARY

Levels for Emergency Response and Fault Repairs to Unmetered Connections

Category	Ofgem Definition	Refined Definition	Service Level	Clock start event	Clock stop event	Penalty Payment for Service Level failure	Payment Date
6.1 Emergency Attendance (CC ref Cat1E)	Work necessary to remove immediate danger to the public or property arising from the electricity distribution network,	Emergency attendance is required in situations where there is immediate danger to the public caused by the electricity network or the collapse of an asset.	• 90% attendance in 2 hours	The notification of an emergency fault with the required minimum information by the LA or emergency service to the specified The Electricity Networks Company contact.	The Electricity Networks Company attends site.	£50	the working day after the day on which the emergency attendance should have taken place
6.2 High Priority Fault Repair involving traffic lights. (CC ref Cat1U)	Work that is urgent but would not require attendance out of normal working hours to restore electricity supplies to street furniture e.g. at the site of an accident black spot, major road junction, pedestrian crossing facility, an area of public order concerns, a reoccurring fault or traffic signals.	Work that is urgent but would not require attendance out of normal working hours to restore electricity supplies to street lighting or street furniture,	• 90% of jobs complete in 2 calendar days or less • 90% of jobs complete in 1 calendar days or less *	The receipt of notification (including minimum information) by The Electricity Networks Company from the LA.	Notification to designated LA contact that electrical work is complete.	£10 for each working day or part day after the end of the prescribed period up to and including the day on which the fault rectification works are completed	the working day on which the fault rectification works are completed
6.3	Work that is	Work that is	• 90% of	The receipt	Notification	£10 for	the working

High Priority Fault Repair not involving traffic lights. (CC ref Cat1U)	urgent but would not require attendance out of normal working hours to restore electricity supplies to street furniture e.g. at the site of an accident black spot, major road junction, pedestrian crossing facility, an area of public order concerns, a reoccurring fault or traffic signals.	urgent but would not require attendance out of normal working hours to restore electricity supplies to street lighting or street furniture,	jobs complete in 10 Working days or less • 90% of jobs complete in 1 Working days or less *	of notification (including minimum information) by The Electricity Networks Company from the LA.	to designated LA contact that electrical work is complete.	each working day or part day after the end of the prescribed period up to and including the day on which the fault rectification works are completed	day on which the fault rectification works are completed
6.4 Single Unit Fault Repair (CC ref Cat10)	Fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and high earth impedance affecting one unit,	Fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and high earth impedance affecting one unit.	• 90% of jobs complete in 25 Working days or less • 90% of jobs complete in 10 Working days or less *	The receipt of notification by The Electricity Networks Company from the LA (including minimum information).	Notification to designated LA contact that electrical work is complete.	£10 for each working day or part day after the end of the prescribed period up to and including the day on which the fault rectification works are completed	the working day on which the fault rectification works are completed
6.5 Multiple Unit Fault Repair (CC ref Cat3)	Fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and high earth impedance	Where there is a fault on service e.g. no current, low voltage, faulty cut-out (i.e. electrically distressed), loss of neutral and	• 90% of jobs complete in 20 Working days or less • 90% of jobs complete in 3	The receipt of notification by The Electricity Networks Company from the LA (including minimum information).	Notification to designated LA contact that electrical work is complete.	£10 for each working day or part day after the end of the prescribed period up to and including the day on which the	the working day on which the fault rectification works are completed

	affecting more than one unit.	high earth impedance affecting more than one unit.	Working days or less *			fault rectification works are completed	
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Service levels for Connections Quotations

Category	Ofgem Definition	Refined Definition	Service Level	Clock start event	Clock stop event	Penalty Payment for Service Level failure	Payment Date
6.6 Standard Quotations	A quotation for the provision of electrical services to an unmetered installation within the scope of the Standard Public Lighting Schedule,	Any quotation requiring prices featured on the Standard Schedule of Rates — new supplies only.	90% of jobs complete in 20 Working days	The date of agreement between The Electricity Networks Company and the LA of the planned time period for creating the standard quotation.	Transmission of the standard quotation to the LA.	£10 for each working day or part day after the end of the prescribed period up to and including the day the day the quotation is dispatched	The working day on which the quotation is dispatched

* These service levels are in excess of those specified in the Electricity (Connections Standards of Performance) Regulations 2010 and will be met by ENC using its reasonable endeavours. However, the Penalty Payments will only be payable by ENC when ENC fails to meet the Service Levels in the Electricity (Connections Standards of Performance) Regulations 2010.

Service Levels for Completion of Connections Work

Category	Ofgem Definition	Definition	The Electricity Networks Company Service Level	Clock Start Event	Clock Stop Event	Penalty Payment for Service Level failure	Payment Date
6.7 New works orders with 1-100 jointing operations per order,	May include the following: new capital lighting schemes, road improvement schemes, provision of connection/disconnections, service transfer, new service and disconnections.	New works orders comprising 1-100 tasks.	• 90% of jobs complete within timescales to be agreed with customer	The receipt of an order by The Electricity Networks Company from the LA for the new works,	Notification to designated LA contact that electrical work is complete .	£10 for each working day or part day after the agreed date up to and including the day on which the works are completed	The working day on which the works are completed

For the avoidance of doubt, the 90% compliance referred to in the Service Levels for items 6.1 through to 6.7 in the above tables is in accordance with the obligation imposed on ENC by its Distribution Licence Condition 15A. This licence condition requires ENC to comply with the standard of performance service levels set out in the Electricity (Connections Standard of Performance) Regulations 2010 in at least 90% of all incidents covered by the Regulations. Penalty payments will be made in respect of each failure as determined by the Regulations.

Reinstatement

Reinstatement will be completed as soon as practicable working within the confines of the Traffic Management Act.

7. OPERATIONAL EVENTS

It is recognised by both The Electricity Networks Company and the Local Authority Customer that operational events will occur that may affect service levels beyond the control of The Electricity Networks Company, or the local authority or both parties. Should these events occur, the behaviour outlined below has been agreed by The Electricity Networks Company and the customer.

Operational Events Generic to all Categories.

Clock Restart:

Should any of the following operational events occur, the clock will cease running and will restart from zero when the required conditions are met.

- **System Emergency**
 - In the event of a system emergency impacting the UMC resource, all works planned during this emergency may need to be reprogrammed, ensuring the subsequent programmed works are not compromised. The clock will restart on the next Working day for all works that were programmed during a system emergency and could not be delivered as per the programme.
 - Emergency attendance events are the only exclusion to this.

- **Access Issues:**

In the event that The Electricity Networks Company cannot access the work site safely to complete works for a fault or connection service the clock will restart. The Electricity Networks Company will attempt to contact the designated LA contact from the site if these events occur and will agree a course of action to manage the issue. Examples of these events include:

- Road closures
- Other parties completing works at the site e.g. other utilities
- Another service in the ground causing obstructions
- Obstructions such as skips or scaffolding restricting access to the works area
- Discovery of tree roots and action taken as per the current issue of the National
- Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees.

- Health, safety or environmental issues which were unknown at the time of planning the works and which cannot be averted in order to safely undertake the works.

Clock Abort:

Jobs will be aborted under the following circumstances:

- The job does not exist.
- The Electricity Networks Company attends a location to fix a fault and no fault can be found.
- The work involves a proven private network.

The Electricity Networks Company will contact the LA to inform them of the situation before leaving site.

Clock Pause and Resume:

Clock pause and clock resume events occur when situations outside the normal procedures for repairing faults or making new connections arise. Examples include:

- A requirement for a cable shutdown, requiring five Working days' notice.
- If it is necessary for The Electricity Networks Company to obtain easement(s) or wayleave(s) before proceeding.
- Waiting for a decision from the customer which materially affects the commencement of the work.
- Waiting for an opening notice or other consent.

Missing information:

In the event that the customer submits a request for New Works without any of the specified minimum information, The Electricity Networks Company shall inform the customer within two Working days of receipt of the request or notification and will inform the customer of the specific information that is missing. The clock will not start until all of the required minimum information has been received by The Electricity Networks Company.

Operational Events Specific to Categories.

Should the following specific operational events occur, they will be dealt with in the manner described below.

Emergency Response:

1. Where The Electricity Networks Company attends site in response to an emergency call and finds that there is no emergency (no danger), this call shall be aborted, excluded from SLA reporting and reported to both the customer and Ofgem as a mis-classification. The LA should be contacted from the site at the time this occurs. If this is out of office hours, the LA's 24 hour help line should be informed.
2. Where The Electricity Networks Company attends site to make an emergency disconnection, any subsequent reconnection of the same asset will be considered to be covered by SLA standard 6.6 & 6.7, New Works (1-00 jobs).

High Priority Fault Repair:

1. Where there is no material change in the circumstances surrounding a fault report, a fault cannot be re-categorised or raised again as a high priority fault from a single or multiple unit fault. Specifically, a fault report cannot be re-

categorised or raised again if the only reason for its change in category is the elapsed time taken to repair it.

2. Where there is a material change in the circumstances surrounding an existing fault report, the original report can be cancelled and the fault can be raised again as a higher priority. If the fault is raised again as a higher priority, the clock will start from zero at the time it is raised.

Multiple and Single Unit Fault Repair

1. If The Electricity Networks Company is notified of a multiple or single fault which does not meet the criteria in either of those categories, The Electricity Networks Company will reclassify the fault and notify the customer within five Working days.

New Works

1. The Electricity Networks Company will not accept orders with phased start dates; orders will need to be resubmitted broken down into work packages where installation certificates can be provided at the same time.
2. If orders are received and only part or none of the scheme is ready for the electrical works, the clock will not start.
3. If the volume of tasks ordered exceeds 115% of the monthly volume rate of jobs received, the SLA targets are no longer applicable to those orders and these events will be captured and reported outside the Ofgem submission, but included in regular management reporting and delivered in the same way as works included in the Ofgem submission.
4. In the event that tasks are ordered within a category and then are found to be in excess of that category, e.g. a transfer becomes a disconnection and a reconnection, taking the original order of 50 to 51 due to the additional task, the whole order may need to be reclassified and an agreement should be made between the customer and the UMC Manager. This will have no effect on the behaviour of the clock but may influence whichever SLA target category it falls into.
5. The Electricity Networks Company would prefer Tie Ups to be submitted on separate orders but, where this is not reasonable, they may be included as part of a larger order with a committed ready date. If The Electricity Networks Company finds that the LA Customer is not able to honour the committed date for the Tie Up, an abortive charge will be applicable unless the customer has provided 15 Working days' written notice to their UMC Coordinator that the works cannot take place on this date.
6. If after The Electricity Networks Company electrically complete a job and the customer later finds that there is a fault or it appears to be defective, it will need to be reported as a fault in order for repair to take place.

Quotations

1. In any circumstances where the provision of street lighting or street furniture is quoted for as part of a wider project (e.g. a main requires diverting), the project as a whole, including the street lighting and street furniture elements, will be managed by The Electricity Networks Company Connections Team and excluded from the UMC SLA.

Non-Standard Quotations

1. Thirty (30) Working days will be set as a default to provide quotations unless otherwise agreed between The Electricity Networks Company and the customer.
2. Should The Electricity Networks Company find, when preparing the quotation, that it will take longer than agreed with the LA due to new information becoming available, The Electricity Networks Company will contact the LA to agree the new time period. The clock will pause while this second agreement is being negotiated.

8 REMEDIAL AND MAINTENANCE WORKS

Ref	Description	Recorded via which category?	Chargeable?	Subject to SLA?
1	Missing Fuse Carriers: Standard cut-outs for example Lucy Oxford 25 amp normally less than 20 years old. Fuses and Fuse carriers are readily available from the cut-out suppliers.	N/A works to be carried out by Customer	N/A	N
2	Damaged Cut-outs: Any Cut-out damaged or broken, not including missing fuse/fuse carriers. Work: "Service Termination Repair"	Single or Multiple Fault	Y	Y
3	Exposed Conductors If conductors are exposed as a result of damage to the cut out. Including VIR Cables	Single or Multiple Fault or Emergency Attendance depending on severity	Y	Y
4	Burnt Out Contacts — Customer side Work: "Service Termination Repair"	Single Fault	Y	Y
5a	Burnt out contacts — DNO side: Where not caused by The Electricity Networks Company initial connections Work: "Service Termination Repair"	Single or Multiple Fault	Y	Y
5b	Burnt out contacts — DNO side: Where the damage is caused by a failing of The Electricity	Single or Multiple Fault	N	Y

Ref	Description	Recorded via which category?	Chargeable?	Subject to SLA?
	Networks Company's asset the work needs to be treated as a fault			
6	Vandalised Equipment: Where damage is caused to the LA's and The Electricity Networks Company's asset caused by vandalism. Work: "Service Termination Repair"	Single or Multiple Fault	Y	Y
7	High Earth Impedance level: (ELI's)measurements (Ze) Where The Electricity Networks Company have provided an earth and at the supply point the Earth Loop Impedance measure Ze is >10 Ohms Subject to BS7671 under the current IEE wiring regulations	Single or Multiple Fault	N	Y
8	No Supply to DNO Cut-Out: Where there is no supply at the The Electricity Networks Company cut- out the work will be treated as a single fault with the exception of where the no supply is a direct result of items 1, 2, 3,4, 5a, 6, 7, 11	Single or Multiple Fault	N	Y
9	Damaged DNO Cabling: 3rd party damage to The Electricity Networks Company cable Work: "Service Termination Repair" additional charges maybe incurred depending on the severity of the damage.	Single or Multiple Fault	Y 3rd party not	Y
10	Low Volts: Where there is a recorded Low Voltage at the The Electricity Networks Company supply point.	Single or Multiple Fault	N	Y
11	Structural Failure (Including RTA's): Where the LA asset is suffering from structural failure depending on the extent of damage to it will be treated as connections work and will be priced as per the standard schedule of rates depending on what work needs to be	Emergency Attendance (only if a danger to the public cannot be avoided without disconnection)	Y	Y

Ref	Description	Recorded via which category?	Chargeable?	Subject to SLA?
	undertaken. If there is danger to the public as a result of the damage and the structure cannot be made safe without the disconnection of the asset it will be treated as an emergency attendance.			
12	General Wear and Tear: Where any The Electricity Networks Company Equipment has deteriorated through normal wear and tear, not including loss and damage.	Single or Multiple Fault	N	Y

9. SERVICE INFORMATION AND REPORTS

Ofgem Performance Data

It is understood that Ofgem require performance data for street lighting only, therefore unless otherwise requested by Ofgem, street furniture will not be included in the Ofgem quarterly submission. When reporting SLA performance to Ofgem, only jobs where the clock has stopped within that quarter will be reported. Other management status reporting will include jobs not yet completed. Where no work has been completed during the time period of the report a 'nil return' report will be provided.

As it is necessary for The Electricity Networks Company and the customer to agree the quarterly performance data prior to submission to Ofgem both parties are required to make themselves available to review the data prior to the quarterly submission. If agreement cannot be reached concerning the data, The Electricity Networks Company will submit the data to Ofgem, but state where agreement could not be reached.

Status and Performance Reports

Reports can be expected as outlined below:

Faults and Emergency Attendance

Daily	Weekly	Monthly	Quarterly	Annually
<ul style="list-style-type: none"> Emergency response site attendance and status report High priority electrical work completed and scheduled dates report Single and multiple fault electrical work completion report Any clock events such as pause resume, restart and abort or reclassifications 	<ul style="list-style-type: none"> Weekly summary of daily reports Outstanding faults report including target dates Reinstatement completed Reinstatement outstanding 	<ul style="list-style-type: none"> Monthly performance summary 	<ul style="list-style-type: none"> Quarterly performance summary Ofgem submission for LA 	<ul style="list-style-type: none"> Annual performance summary

New Works/Connections

Daily	Weekly	Monthly	Quarterly	Annually
<ul style="list-style-type: none"> Electrical work completed Any clock events such as pause, resume, restart and abort or reclassifications 	<ul style="list-style-type: none"> Electrical work completed Electrical work outstanding, including scheduled dates Reinstatement completed Reinstatement outstanding 	<ul style="list-style-type: none"> Monthly performance summary 	<ul style="list-style-type: none"> Quarterly performance summary Ofgem submission for LA 	<ul style="list-style-type: none"> Annual performance summary

Please see Appendices 2 and 3 for examples of how percentages are calculated.

10. WORKING TOGETHER

The Electricity Networks Company believe that in order for the delivery of UMC works to be carried out as effectively as possible it is imperative that we work together, by providing as much relevant information to one another as we can.

This SLA is a joint undertaking and therefore the main The Electricity Networks Company roles and interactions, meeting schedules and escalation processes are outlined below.

From our customer's perspective, we would ask that you provide The Electricity Networks Company with the following:

- Clear and up-to-date contact details
- Details of your internal escalation process
- Emergency 24 hour helpline number
- A maintained central email box for reports
- Details of contractors/agents working on your behalf

- For new works, if The Electricity Networks Company is to provide/serve notice on your behalf, please ensure The Electricity Networks Company is set up on an Eton 4 compatible system e.g. Mayrise and that The Electricity Networks Company is supplied with your DfT Number.
- Evidence of your UMS agreement.

In addition, we would ask that you ensure that you regularly communicate with The Electricity Networks Company and provide forecasts of expected works when required. Suitable attendance at meetings with The Electricity Networks Company will also enable smooth operations.

The Electricity Networks Company Contacts and Interactions

Title	Interaction
Faults Network Operations Centre 24 Hours 0800 0326990 Office Hours 08:00 – 17:00 Mon- Fri	Notification of fault; provision of fault reference number; programme if applicable; status updates from screen; invoice updates; management of clock pause, stop and start events and completion.
Faults Engineer Tel 0800 0326990	On-site activity, site liaison if required. Escalation from Faults Customer Services
National Operations Manager (NOM) Tel 02920-314208	Escalate from Faults Engineer
Connections Manager Tel 02920-314235	Escalate from NOM, liaison at UMC forums.
Customer Relationship Manager (CRM) Tel 07717-636224	Assistance with any CM or faults enquiries/work and any information about The Electricity Networks Company.
Key Account Manager (KAM) Tel 07825-805693	Assistance with any UMC or faults enquiries/work and any information about The Electricity Networks Company. Escalation point from CRM if required.

Meetings

Meetings will be held with individual Local Authority customers as deemed necessary and attended by the appropriate parties from both the customer and The Electricity Networks Company to review and agree the Ofgem performance figures and to discuss any operational issues and work forecasts. It will also be attended as deemed necessary by other appropriate parties from both the customer and The Electricity Networks Company.

User Group meetings may be held with a number of LAs who fall within the same geographical footprint.

Escalation Process

Faults

Faults Network Operations Centre - Faults Engineer — Network Operations Manager or KAM – Head of Customer Connections

New Works

Customer Services Centre - CRM - KAM - –Connections Manager

Development of the SLA

In line with Ofgem's recommendation for a national SLA, this document is meant to provide a single SLA across The Electricity Networks Company's Network. It is recognised this SLA may need to be developed in the future and therefore The Electricity Networks Company reserve the right to withdraw and or reissue the SLA in light of changes in circumstances. As this is a joint SLA The Electricity Networks Company networks will periodically review the SLA and will at times invite comments from customers as to how the SLA can be improved. The Electricity Networks Company will attempt to operate in line with national guidelines and will take into account any future requests from Ofgem.

The SLA will form a regular agenda point at the quarterly User Group meeting and any developments or improvements to the SLA should be raised at this meeting. Changes to the SLA will be managed through formal change control.

Third Party Damage

Where an LA is aware of third party damage to an The Electricity Networks Company asset, the LA should provide, wherever possible, sufficient information for The Electricity Networks Company to investigate the claim in order to recover costs from the third party. Also, where The Electricity Networks Company attends an emergency response or fault and suspects third party damage, particularly intentional damage to an asset by a developer to expedite the disconnection of an asset, The Electricity Networks Company should inform the customer.

11. APPENDICES

Appendix 1 — Minimum Information

Minimum Information to be supplied for Emergency Response

1. Location
2. Local Authority
3. Address (with map if possible)
4. Equipment
5. Description of hazard
6. Contact details of person to provide updates to
7. Details of any staff on site and their contact details

Minimum Information to be supplied for Fault Notifications

1. Customer identification reference
2. Local Authority
3. Date issued by customer
4. Customer contact name and details
5. Fault category
 - a. Emergency Response
 - b. High priority fault repair
 - i. Political
 - ii. Dangerous junction/crossing
 - iii. Public order concerns
 - c. Multiple units — fault repair
 - d. Single unit fault repair
 - e. Remedial and Maintenance Work
6. Accurate location of equipment, including:
 - a. Address
 - b. Postcode if possible
 - c. Grid reference (Eastings and Northings)
 - d. Position description
 - e. Asset number
 - f. Map of area at 1/500 scale with equipment highlighted
7. Description of work involved including number of consuming points
8. Type of work
 - a. DNO cost
 - i. No current
 - ii. Low voltage
 - iii. Faulty cut-out
 - iv. Loss of neutral
 - v. High earth loop impedance*
 - vi. Repeat 5th core fuse replacement
 - b. Customer cost (P0 number to be included)
 - i. Third party cable damage
 - ii. Make safe including vandalism and damage
9. Further information[†]
 - a. Access information
 - b. Asset history

NB: Upon receipt of notification by The Electricity Networks Company, the customer will be issued with The Electricity Networks Company' identification number.

* Where The Electricity Networks Company Limited has provided an earth and at the supply point the Earth Loop Impedance measures >10 Ohms. Subject to BS7671 under the current IEE wiring regulations.

[†] LA to provide consents for their land if necessary or to provide details of ownership if known

Minimum Information to be provided for Connections Works

Job number (customer unique ref number)

1. LA details
2. Date issued by customer
3. Sole customer contact name and details relevant to this order
4. New works category
 - a. 1-10 Jobs
 - b. 11-50 jobs
6. A plan showing the extent of the works and any civil works required from customer and a Public Lighting Schedule detailing the estimated cost based on the standard schedule of prices.
7. Accurate Location of works, including:
 - a. Address
 - b. Postcode if possible
 - c. Position description
 - d. Asset numbers if applicable
 - e. Map of area at 1/500 scale with equipment highlighted if applicable
 - f. Grid reference (Eastings and Northings)
8. Description of work involved including number tasks
9. Estimated total cost
10. Quotation required Y/N?
11. Asset ready date and installation certificate if applicable indicating asset is ready.
12. If a quotation is not required, or if a quote is being accepted, a purchase order number must be supplied
13. Approved variation amount
14. Opening notice information
 - a. If The Electricity Networks Company to request
 - i. Customer Dft number
 - ii. Classification of asset (Works for road purposes Y/N?)
 - iii. Grid reference
 - b. If requested by customer
 - i. Opening notice reference
 - ii. Opening notice dates
15. Further information*
 - a. Access information
 - b. Asset history
16. Confirmation of whether a permit charge is payable
 - a. Value of permit charge if applicable
17. Total wattage requirement of each asset
18. Details of agreed wayleaves and easements where the LA is to provide[†]

NB: On acceptance of order by The Electricity Networks Company the customer will be issued with The Electricity Networks Company' identification number.

Appendix 2 - Calculation of Time Taken

Our interpretation of the elapsed time calculations against each service standard shall be as follows:

1. For measuring elapsed time against the 'emergency response' category, time will be measured in hours and minutes and will operate 24 hours a day, 7 days per week.
2. For all service standards except 'emergency response':
 - a. The elapsed time will be measured in Working days where a Working day is defined as "between the hours of 08:00 and 16:30 Monday to Friday excluding public holidays"
 - b. Working days shall be the lowest granularity of measurement. The time of a particular event within the Working day shall be irrelevant
 - c. Where a clock event happens outside of working hours, that event will be considered to have happened on the following Working day. That includes all clock start, stop, pause, resume, restart, and abort events.

Appendix 3 - Calculation of Percentages

The percentages of works completed for both faults (except for emergency response) and new works are calculated using the clock stop event of 'all electrical works complete'. This means that the entire order for new works must be completed for the clock to stop.

In the case of multiple faults or new works orders in excess of one job, if only a part of the overall job is completed by the SLA target it cannot be counted regardless of percentage progress of that order. Only completed orders or complete multiple fault repairs are included in the calculation.

This is also applicable to high priority fault repairs as they may consist of both single and multiple fault repairs, as illustrated in the example below.

Measure: High Priority Fault Repair for faults involving traffic lights

Ofgem target: 90% in 2 calendar days or less

Example calculation: In a 12 week period The Electricity Networks Company is requested to repair 10 high priority faults involving traffic lights: three are single faults and the remaining seven are multiple faults varying in size from two to 12 faults per notification. The Electricity Networks Company performs as follows:

High Priority Fault	Type	Week Days to repair	2 days or less	>2 days	Comments
1	Single	0	✓		
2	Single	0	✓		
3	Single	15	✓		
4	Multiple	0	✓		
5	Multiple	9		✓	3 of 6 faults repaired within 1 day
6	Multiple	9	✓		
7	Multiple	9	✓		
8	Multiple	18		✓	8 of 10 faults repaired within 2 days
9	Multiple	9	✓		
10	Multiple	11	✓		
TOTAL		-	8	2	

Performance Summary		
Measure	Actual Performance	Ofgem Target
% of responses in 2 days or less	80%	90%
% of responses in more than 2 days	20%	10%

In the particular example ENC would effectively report its actual performance as set out in the table above. For the avoidance of doubt, The Electricity Networks Company is required to report its actual performance against the License Condition 15A to Ofgem.

In the case of emergency responses, the calculation is as follows:

Measure: Emergency Response

Ofgem target: 90% in less than 2 hours

Example calculation: In a 12 week period The Electricity Networks Company is requested to attend 20 emergencies.

The Electricity Networks Company performs as follows:

Under 2 hours = 18

4 hours = 1

7 hours 1

The Electricity Networks Company would report to Ofgem:

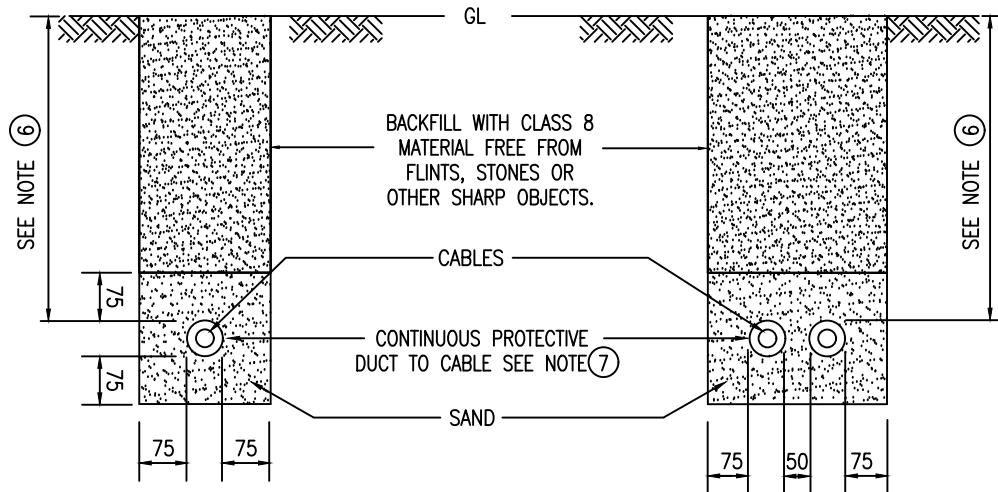
90% Less than 2 hours

10% Greater than 2 hours

Appendix 4 — Unmetered Connections Charging Schedule

ENC connection service charges will be no higher than the exact equivalent charges for identical connections related services levied by the upstream Distribution Network Operator (DNO) (currently Western Power Distribution), provided however that Gloucestershire County Council provides ENC with satisfactory evidence of the connection charges that the DNO proposes to levy for any particular connections related service.

Furthermore, Gloucestershire County Council is not obliged to procure connection services from ENC but may do so from any National Electricity Registration (NERs) accredited contractor provided that such contractor is authorised by ENC to access the ENC network.

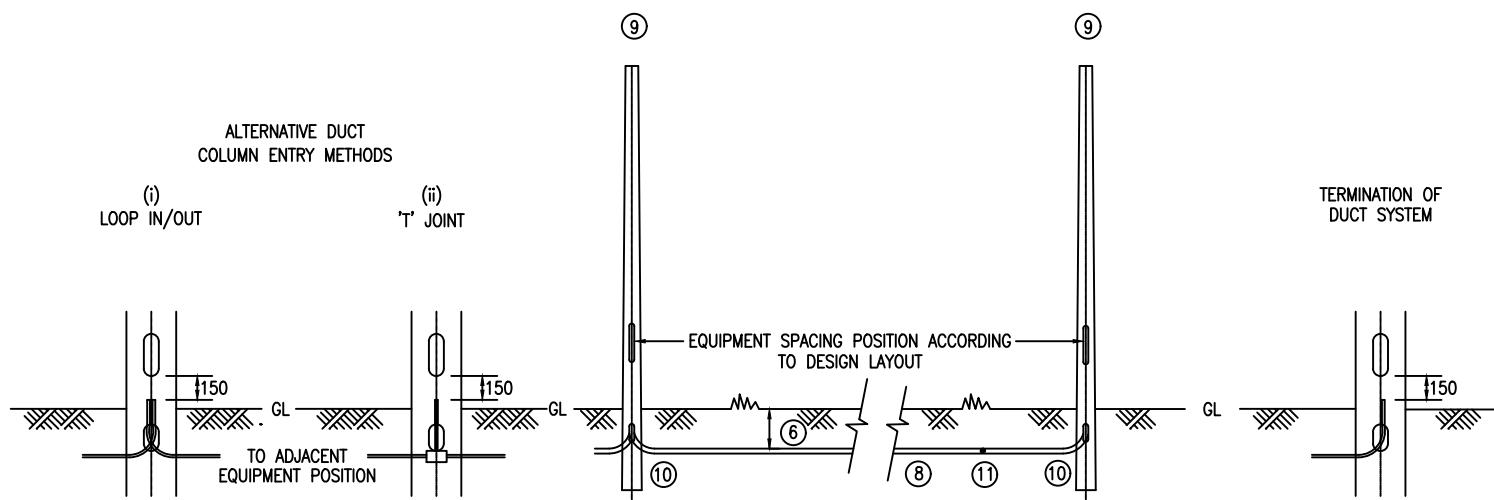


NOTES

11. The manufacturer's appropriate duct fitting shall be used for coupling or jointing of sections, branch / T-junctions or reducers.
12. Where a cable in duct circuit separates into two or more directions then, the main circuit shall have a purpose made matching system hinged cover T-junction inserted. A reducer to a smaller diameter branch may be incorporated if compliance with note No.6 is maintained.
13. Protective sand material shall comply with Clause 1421.
14. The position of duct junctions shall be recorded and marked upon the 'As Built' drawings.

Notes:

1. The Specification for Highway Works (current version, or as indicated in the contract) applies, together with any Gloucestershire County Council additional or substitute clauses.
2. ALL DIMENSIONS ARE IN MILLIMETRES.
3. Underground and ducted cables shall comply with Clause 1421.
4. Testing for cable installation shall comply with Clause 1424.
5. The Contractor shall be responsible for adequate clearances from the equipment of other public utilities.
6. Cable in duct within verge or footpath shall have a minimum cover of 450mm. In carriageway the minimum cover shall be 750mm.
7. Duct Sizes and Installation of PVC Insulated Armoured Cables
For a 50mm internal diameter duct, the largest single two core cable to be installed is: 1No. 25mm² CSA conductors, together with 1No. 6mm² cable. Cables of greater size or quantity will require additional and/or larger duct or duct combinations.
8. The continuous protective duct shall be manufactured from prime grade ultra-violet resistant polypropylene / high density polyethylene material that complies with BS EN 50086-2.4.
9. A street lighting column, feeder pillar or illuminated road traffic sign / bollard equipment position.
10. All underground electrical cables shall be totally enclosed within a duct system. The duct shall rise into the column foundation to a position not less than 150mm. below the bottom of the door opening.



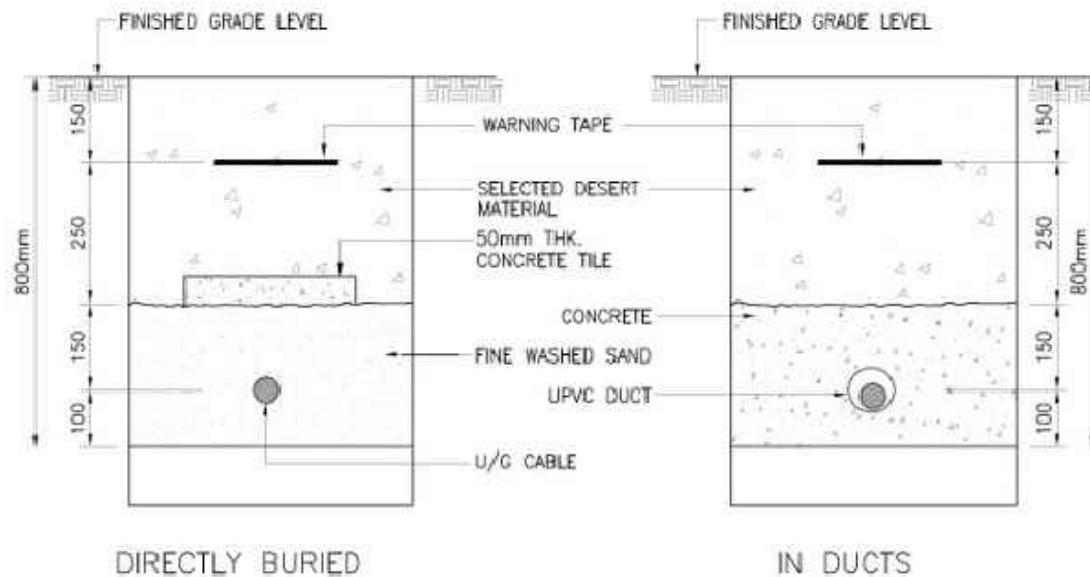
Drawing:

STANDARD DETAIL
SAND SURROUND FOR DUCTING
INSTALLATION & BACKFILL DETAIL

Drg. No.

J/16

Notes:



NOTE: WHEN DIRECTLY BURIED CABLES ARE CROSSED WITH OTHER SERVICES THEN THEY SHOULD BE INSTALLED IN DUCT AND KEPT AT MINIMUM DISTANCE OF 300 mm FROM THE OTHER SERVICE. EXACT DETAILS FOR EACH CASE TO BE APPROVED BY SUPERVISING ENGINEER AT SITE.

INSTALLATION OF UNDERGROUND CABLES



Drawing:

INSTALLATION OF
UNDERGROUND CABLES

Drg. No.

J/17

Gloucester Highways Partnership

SEC Job No. 451830

Page 1 Of 1

Unit Test Sheet

Road Name REGENT STREET

Test Instruments

'Cal Dates

Area CHELTENHAM

Insulation Res:

SIGN NAME : hell

DATE: 16.03.12

PRINT NAME: M. JORDAN

Notes



 Gloucestershire
COUNTY COUNCIL

Drawing

ELECTRICAL CERTIFICATE (EXAMPLE)

Drg. No

J/18