Street Lighting Specification

1. Column numbers are for design purposes only.
2. All materials shall be to the relevant British Standard, site works shall comply in general with Department of Transport Specification for Highway Works, and shall also conform to:
   - 2.1. The Electricity at Work Regulations (1989)
   - 2.2. The Health and Safety at Work Act
   - 2.3. Chapter 8 of the Traffic Signs Manual
   - 2.4. The Control of Substances Hazardous to Health Regulations 1988
   - 2.5. The Construction (Design Management) (CDM) Regulations
3. Erection and installation works shall comply with the current issue and amendments of BS7671; 18th Edition IET Wiring Regulations 2018 requirements for electrical installations.
4. Columns to be installed at the rear of the footway, where there is no footway, columns shall be set back to a minimum of 0.8m from kerbline.

DETAILS OF EXISTING STATUTORY UNDERTAKERS PLANT ARE TO BE OBTAINED BY THE CLIENT AND THE CONTRACTOR MAY EXAMINE THESE RECORDS AT THE ENGINEERS OFFICE. ALL WORKS IN THE VICINITY OF ANY OVERHEAD CABLES SHALL CONFORM TO THE REQUIREMENTS OF HSE GUIDANCE NOTE GS6 "AVOIDANCE OF DANGER FROM OVERHEAD LINES" AND ALL WORKS IN THE VICINITY OF UNDERGROUND MAINS OR CABLES SHALL CONFORM TO THE REQUIREMENTS OF HSE GUIDANCE NOTE HSG47 "AVOIDING DANGER FROM UNDERGROUND SERVICES" AND ANY ADDITIONAL REQUIREMENTS SPECIFIED BY THE RELEVANT UNDERTAKER. THE CONTRACTOR WILL BE RESPONSIBLE FOR LIAISON WITH THE UNDERTAKERS AND FOR PROGRAMMING THE AGREED PROTECTION AND/OR DIVERSION WORKS TO ANY STATUTORY UNDERTAKERS APPARATUS INTO THE OVERALL WORKS PROGRAMME (THIS IS TO INCLUDE ADJUSTMENT OF STATS COVERS). ANY DAMAGE TO PLANT OR APPARATUS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

Street Lighting Key

Qty 9 — **PROPOSED LUMINAIRE MOUNTING**
Proposed galvanised tubular steel lighting column of 8.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to current EN40, BS EN 1461 & BS 5649 standards
LANTERN MANUFACTURER: Phillips
LANTERN NAME: Luma Gen2 Mini BGP703
PROJECTION: 0.4m
TILT: 0°
LUMINOUS INTENSITY RATING: G3
LAMP TYPE: LED 3000k Warm White
OPTIC: DX10
LUMEN OUTPUT: 12.00 klm
FILENAME: Luma Gen2 Mini BGP703 DX10 12000_40LED_5.2S_CLO_L90_730
PHOTOCELL: Lucy Zodion ZCELL 20/20 lux
ISOLATOR: Double pole isolator with 32a double pole switch with BS88-2 6A HRC fuse to luminaire
SUPPLY TYPE: Private Supply

Qty 14 — **PROPOSED LUMINAIRE MOUNTING**
Luminaire to be side entry mounted on suitable galvanised steel wall bracket (76mm shaft) and mounted at height of 8m from ground level
LANTERN MANUFACTURER: Phillips
LANTERN NAME: Luma Gen2 Mini BGP703
PROJECTION: 0.4m
TILT: 0°
LUMINOUS INTENSITY RATING: G4
LAMP TYPE: LED 3000k Warm White
OPTIC: DX10
LUMEN OUTPUT: 12.00 klm
FILENAME: Luma Gen2 Mini BGP703 DX10 12000_40LED_5.2S_CLO_L90_730
PHOTOCELL: Lucy Zodion ZCELL 20/20 lux
ISOLATOR: Double pole isolator with 32a double pole switch with BS88-2 6A HRC fuse to luminaire
SUPPLY TYPE: Private Supply

Qty 10 — **PROPOSED LUMINAIRE MOUNTING**
Proposed galvanised tubular steel lighting column of 8.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to current EN40, BS EN 1461 & BS 5649 standards
LANTERN MANUFACTURER: Phillips
LANTERN NAME: Luma Gen2 Mini BGP703
PROJECTION: 0.4m
TILT: 0°
LUMINOUS INTENSITY RATING: G3
LAMP TYPE: LED 3000k Warm White
OPTIC: DX10 BL1 (Integrated rear shield)
LUMEN OUTPUT: 12.50 klm
FILENAME: Luma Gen2 Mini BGP703 DX10 BL1_12500_40LED_5.2S_CLO_L90_730
PHOTOCELL: Lucy Zodion ZCELL 20/20 lux
ISOLATOR: Double pole isolator with 32a double pole switch with BS88-2 6A HRC fuse to luminaire
SUPPLY TYPE: Private Supply

Qty 3 — **PROPOSED LUMINAIRE MOUNTING**
Proposed galvanised tubular steel lighting column of 10.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to current EN40, BS EN 1461 & BS 5649 standards
LANTERN MANUFACTURER: Phillips
LANTERN NAME: Luma Gen2 Large BGP705
PROJECTION: 0.4m
TILT: 0°
LUMINOUS INTENSITY RATING: G4
LAMP TYPE: LED 3000k Warm White
OPTIC: DX51
LUMEN OUTPUT: 45.00 klm
FILENAME: Luma Gen2 Large BGP705 DX51 45000_180LED_5.2S_CLO_L90_830
PHOTOCELL: Lucy Zodion ZCELL 20/20 lux
ISOLATOR: Double pole isolator with 32a double pole switch with BS88-2 6A HRC fuse to luminaire
SUPPLY TYPE: Private Supply

Qty 3 — **PROPOSED LUMINAIRE MOUNTING**
Proposed galvanised tubular steel lighting column of 8.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to current EN40, BS EN 1461 & BS 5649 standards
LANTERN MANUFACTURER: Phillips
LANTERN NAME: Clearflood BVP651
PROJECTION: 0.4m
TILT: 0°
LUMINOUS INTENSITY RATING: G3
LAMP TYPE: LED 3000k Warm White
OPTIC: DX50
LUMEN OUTPUT: 44.00 klm
FILENAME: Clearflood Large BVP651 DX50 44000_5.1S_L90 CLO_WW
PHOTOCELL: Lucy Zodion ZCELL 20/20 lux
ISOLATOR: Double pole isolator with 32a double pole switch with BS88-2 6A HRC fuse to luminaire
SUPPLY TYPE: Private Supply

Notes.

1. Do not scale this drawing.
2. Any discrepancies noted on site are to be reported to the engineer immediately.
3. It is the responsibility of the contractor to locate any service apparatus in the vicinity of the works. The client will accept no claims whatsoever in respect of any losses or damage caused in respect of such apparatus, however caused.
4. It is the responsibility of the contractor to execute the works at all times in strict accordance with the requirements of the Health and Safety at Work Act 1974, and the C.D.M. Regulations 2015. The contractor will be deemed to have allowed for full compliance, within their rates.
5. The contractor is responsible for ensuring that all works are to the satisfaction of the engineer, and shall be deemed to have included within their rates for any necessary testing.

LIGHTING CLASS:

Lighting design to service yards in accordance with BS EN 12464:2014 & BS5489-1:2020:
Required Levels: Eav: 20.00 Lux
Uo: 25%

Lighting design to car parks in accordance with BS EN 12464:2014 & BS5489-1:2020:
Required Levels: Eav: 10.00 Lux
Uo: 25%

Lighting Class to Access Road: P3
Required Levels: Eav: 7.50 - 11.25 Lux
Emin: 1.50 Lux

Iso Lux Contour Key

- 30.00 Lux Iso Contour
- 10.00 Lux Iso Contour
- 5.00 Lux Iso Contour
- 1.00 Lux Iso Contour
- 0.50 Lux Iso Contour

NO WORKS SHALL BE CONSTRUCTED UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE LOCAL AUTHORITY BY THE DEVELOPER. SHOULD WORKS BE CONSTRUCTED WITHOUT APPROVAL THEY WILL BE ENTIRELY AT THE DEVELOPERS RISK.

REV	AMENDMENTS	DATE	DRN

www.lovedaylighting.com

PROJECT TITLE
SEVERN ROAD, AVONMOUTH

CLIENT
TUNGSTEN PROPERTIES

DRAWING TITLE
EXTERNAL LIGHTING LAYOUT - TWO UNITS

REVISION	SHEET SIZE	SCALE
-	A0	1:500

DRAWN BY	DATE
AL	09.08.2021

DRAWING NUMBER
LL1351-003

STATUS
INFORMATION / APPROVAL