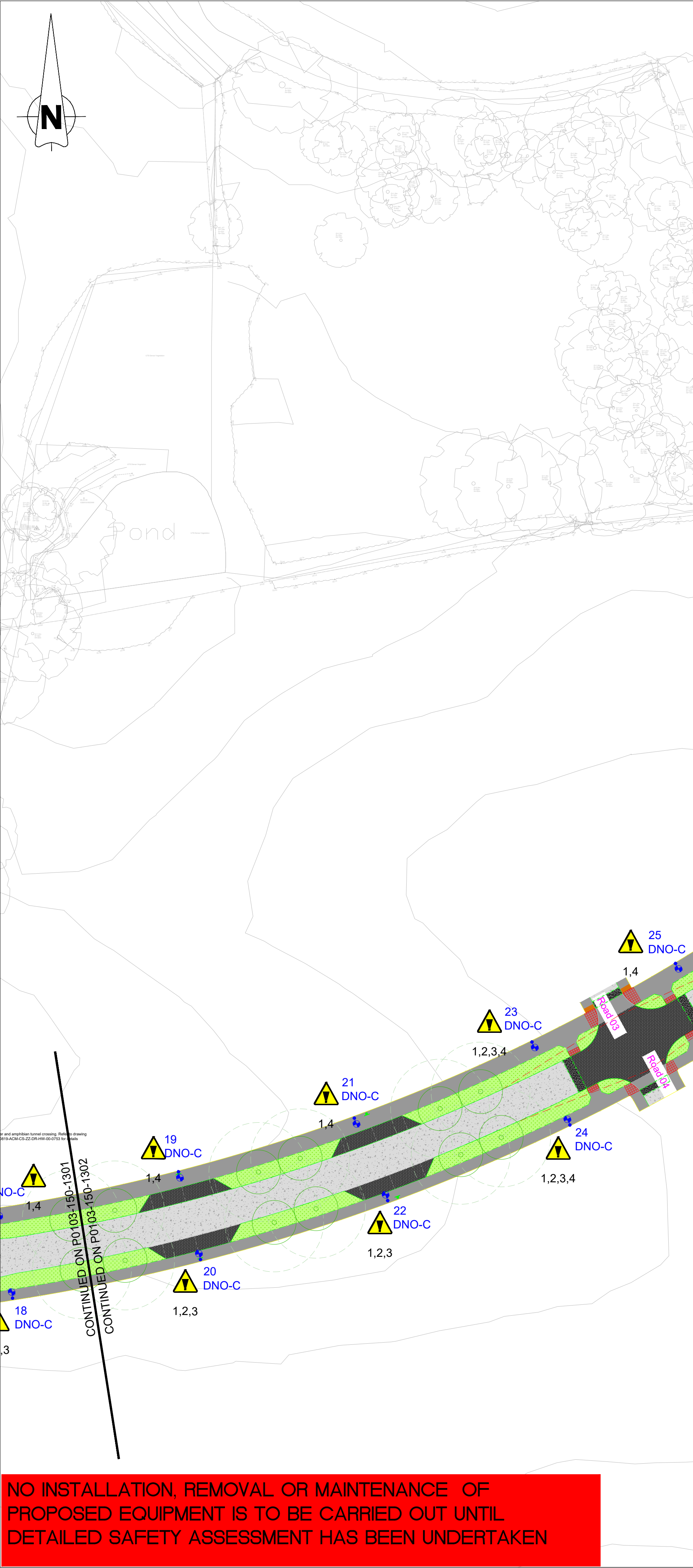




NO INSTALLATION, REMOVAL OR MAINTENANCE OF PROPOSED EQUIPMENT IS TO BE CARRIED OUT UNTIL DETAILED SAFETY ASSESSMENT HAS BEEN UNDERTAKEN

STANDARD DETAILS FOR 8m "POST TOP" TUBULAR STEEL PLANTED COLUMNS
AS PER WSCC STREET LIGHTING SPECIFICATION (DOC REF: WSCC-SD1-1400-032)

Design Standards	BS EN 40.3.1, BS EN 40.3.3, PD6547-2022
Design Life	50 years
10 min mean wind velocity	22m/s
Terrain Category (inland)	II - 8m
Max altitude (inland)	132m
Terrain category (coastal)	I - 8m
Max altitude (coastal)	100m

Standard dimensions and minimum performance criteria		
Dimension	Nominal Height	8000
	Planting depth	1200
	Base diameter	168.3
	Shaft diameter	88.9
	Height of door above ground*	400
Performance criteria	Size of door aperture	600 x 115
	Luminaire weight	20.0kg
	Luminaire windage	0.17m ²
	Luminaire tilt**	5°
	Sign height above ground	2.5m
	Sign eccentricity	0.4m
	Sign area	0.6m ²
	Sign weight	5.0kg
	Sign drag coefficient	1.8
	* May vary - see manufacturer detail and data sheet	
** Maximum tilt capability. Tilt will be stipulated in design drawing		

Protective system and paint specification for tubular steel columns
Paint system applied direct to clean de-greased, lightly abraded hot-dipped galvanised steel
Suitable two-pack epoxy primer, dry film thickness 75 microns (including internal surface to 250mm above ground level)
Polysiloxane finish PSX 700, dry film thickness 75 microns
Paint to be factory applied. Finish colour as per WSCC lighting specification for the given region unless otherwise specified

Notes for standard Isolation & Internal Wiring (as per WSCC Street lighting specification)

- Secondary isolator - where units are supplied via statutory cable connections (DNO, IDNO) they shall be fitted with a secondary isolator in addition to the DNO/IDNO double pole supply cut-out. Secondary isolator type to be Tofo type 1 with BS88 fuses.
- Internal wiring - columns ≤10m - 1.5mm² 3-core flex cable from the secondary isolator to the lantern.
- Internal cabling to be neatly clipped to the backboard by use of 2no. fixed plastic cable clips securing the flex to the backboard. All fixing screws to be stainless steel.
- There should be no earth connected to the removable door.

- Notes
1. All dimension in millimetres.
 2. Columns shall comply with BS EN 40, PD6547:2022 and departmental standard BD 94/17 in addition to the WSCC column specification; designers to verify that column proposed is suitable for any proposed attachments; data sheets to be provided.
 3. Column base backboard 500x85mm and made of treated hardwood of sufficient size to accommodate all control equipment, cut-outs and service cut-outs; boards shall be positively secured to the column by two flush screws.
 4. Extraneous attachments (if agreed) to be fixed with circumferential clamps of stainless steel AISA Grade 201 with Neoprene gasket under the clamps to prevent damage to the column and its protective coating.
 5. Columns in exceptional locations (on embankments, coast locations, etc); columns with brackets; columns with multiple luminaires or brackets; these may require special column design.
 6. For column foundation schematic see WSCC-SD1-1400-051. Columns in exceptional locations may need special foundation design.
 7. Column setbacks will be stipulated in design drawing.

PROPOSED KEY

1. PROPOSED ROAD LIGHTING COLUMN OF 8M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.1, 5295 INTEGRATED LENSES, 16 OSOLON SQUARE GIANT, 870MA, 5.72 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.

2. PROPOSED ROAD LIGHTING COLUMN OF 6M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.1, 5384 INTEGRATED LENSES, 16 OSOLON SQUARE GIANT, 870MA, 5.50 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.

3. PROPOSED ROAD LIGHTING COLUMN OF 8M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.2, 5293 INTEGRATED LENSES, 24 OSOLON SQUARE GIANT, 900MA, 8.65 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.

DNO-C PROPOSED DISTRIBUTION NETWORK OPERATOR SINGLE PHASE & NEUTRAL CONNECTION REQUIRED.

SWITCHING & VARIABLE LEVEL OF LIGHTING :
LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM. INDIVIDUAL TELENDA CMS TELECELLS FIT INTO A 7-PIN NEMA SOCKET THAT IS BUILT INTO EACH STANDARD ROAD LIGHTING LANTERN. THE 7-PIN NEMA SOCKET CAN ACCOMMODATE A STANDARD NEMA-TYPE PHOTOCELL, WHICH COULD BE FITTED TEMPORARILY ALLOWING INSTALLATION OF THE TELECELLS & BASE STATION AT A LATER DATE (PRE ACCRUAL); ANY CONVENTIONAL PHOTOCELLS FITTED TEMPORARILY SHOULD BE SET TO SWITCH ON AT 35 LUX & TO SWITCH OFF AT 18 LUX.

REF. NO.	SIGNIFICANT RESIDUAL RISKS
	DESCRIPTION OF RISK
1.	UNDERGROUND LOW VOLTAGE SERVICES ARE PRESENT IN VICINITY.
2.	UNDERGROUND HIGH VOLTAGE SERVICES ARE PRESENT IN VICINITY.
3.	UNDERGROUND EXISTING WATER SERVICES PRESENT IN VICINITY.
4.	UNDERGROUND PROPOSED COMMS DUCTING PRESENT IN VICINITY.
5.	UNDERGROUND EXISTING GAS PIPE PRESENT IN VICINITY.
6.	OVERHEAD LOW VOLTAGE SERVICES ARE PRESENT IN VICINITY.
7.	OVERHEAD HIGH VOLTAGE SERVICES ARE PRESENT IN VICINITY.
8.	OVERHEAD TELECOM SERVICES ARE PRESENT IN VICINITY
NOTE- FULL UNDERGROUND STATS INFORMATION SUBJECT TO CHANGE WITHOUT OUR KNOWLEDGE, FULL STATS PLANS ARE TO BE REVIEWED PRIOR TO CONSTRUCTION PHASE.	

- NOTES:
1. DO NOT SCALE FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE PRODUCED IN COLOURS.
 3. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
 4. THE CONTRACTOR SHALL, PRIOR TO COMMENCING ANY SECTION OF WORKS, LOCATE ALL BURIED, OVERHEAD SERVICES AND ELECTRICAL CABLES.
 5. THE DOOR LOCATION OF LIGHTING COLUMN SHALL BE POSITIONED FACING AWAY FROM ONCOMING TRAFFIC TO ENABLE THE INSPECTION OF THE INTERIOR WHILE STILL OBSERVING THE NEARSIDE TRAFFIC FLOW.
 6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH:
 - P0103-150-1002 LIGHTING RISK ASSESSMENT
 - P0103-150-1003 COLUMN SCHEDULE
 - WEST SUSSEX COUNTY COUNCIL TECHNICAL GUIDANCE AND SPECIFICATION.
 7. PRIOR TO UNDERTAKING ANY WORKS REFERENCE SHALL BE MADE TO THE ROADS AND STREET ACT (NSWA), HSE GUIDE NOTE 4. AVOIDING DANGER FROM UNDERGROUND SERVICES AND THE RELEVANT STATUTORY UNDERTAKERS SPECIFICATION FOR SAFE WORKING IN THE VICINITY OF UNDERGROUND AND OVERHEAD SERVICES.
 8. ALL EXISTING STREET LIGHTING APPARATUS ARE SHOWN INDICATIVELY AND THEIR ROUTES, LOCATIONS, SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO STARTING WORKS.
 9. THE LOCATION OF ALL PROPOSED DUCT OR DUCTING ARE SHOWN DIAGRAMMATICALLY. THE EXACT LOCATIONS SHALL BE AGREED WITH THE OVERSEEING ORGANIZATION.
 10. ALL NEW COLUMNS SHALL BE IN ACCORDANCE MANUFACTURE'S SPECIFICATION AND AS PER OVERSEEING AUTHORITY (WEST SUSSEX COUNTY COUNCIL).
 11. ALL ASSET ID REFERENCE NUMBERS SHOWN ON THIS DRAWING ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR WILL BE PROVIDED WITH FINAL ASSET ID REFERENCE NUMBER FROM OVERSEEING AUTHORITY (WEST SUSSEX COUNTY COUNCIL). ASSET ID REFERENCE NUMBER SHALL BE PROVIDED TO ALL ROAD LIGHTING COLUMNS ACCORDINGLY.
 12. PROGRAMMING AND LIAISON WITH THE DISTRIBUTION NETWORK OPERATORS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 13. THE DESIGN HAS BEEN COMPLETED UTILISING THE DMRB, MCHW, IAN AND LOCAL AUTHORITY DESIGN GUIDE FOR BEST PRACTICE AND SPECIFICATION OF EQUIPMENTS.
 14. ALL CABLES SHALL BE KEPT WELL CLEAR OF HV, LV, TELEPHONE, GAS AND WATER MAINS, SERVICE PIPES, SEWERS, MANHOLES AND JOINT BOXES BELONGING TO OTHER STATUTORY UNDERTAKERS. AT THE SPECIFIED CLEARANCE GIVEN BY THE STATUTORY UNDERTAKERS.
 15. ALL LIGHTING COLUMNS ARE TO BE SITED 150MM FROM THE BACK OF THE FOOTPATH.

03	12/24	DESIGN AMENDMENTS	OJ
02	11/24	UPDATED HIGHWAY LAYOUT	YA
01	10/23	FOR COMMENTS	YA
Issue	Date	Revision	Initial

4way Consulting

Title

NORTHERN ARC AVENUE

CENTAL SECTION

PROPOSED STREET LIGHTING LAYOUT

STREET LIGHTING

Scale 1:500 @ A1

Drawn	OJ	Date	12/24
Traced	OJ	Date	12/24
Approved	RG	Date	12/24
Issued	03	Date	12/24
Project Code	P0150		
Dwg. No.	P0103-150-1302		