



STREET LIGHTING LEGEND

- | QTY | KEY | DESCRIPTION |
|-----|-----|--|
| 5 | | EXISTING LIGHTING COLUMN TO REMAIN |
| 1 | | EXISTING 8M STEEL LIGHTING COLUMN TO BE REMOVED, LANTERN TO BE TRANSFERRED TO PROPOSED 8M COLUMN |
| 1 | | PROPOSED 8M NOMINAL HEIGHT ROOT MOUNTED GALVANISED TUBULAR STEEL COLUMN WITH INTERESTED TREE SPRUIT TO CUMBERIA COUNTY COUNCIL SPECIFICATION POSITIONED IN ADOPTED HIGHWAY COMPLETE WITH TOP MOUNTED A&A 32 LED LANTERN TRANSFERRED FROM EXISTING LIGHTING COLUMN 1322 |

- HEALTH & SAFETY**
- CONTRACTOR SHALL BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.
 - CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING CHANGES.
 - THE TRENCH EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
 - CONNECTIONS TO EXISTING SERVICES TO BE MADE BY APPROVED CONTRACTORS ONLY.
 - CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LIFTING/POSSIBLE OVERLOADS AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- TRAFFIC SIGNS**
- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
 - SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.
 - CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
 - CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
 - CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.



GENERAL STREET LIGHTING NOTES

ERECTOR OF COLUMNS - LIGHTING COLUMNS SHALL BE ERECTED ONLY IN THE ADOPTED HIGHWAY, IN THE POSITIONS INDICATED ON THE DRAWING WITH THE MAIN SHAFT TRULY VERTICAL AND IN ACCORDANCE WITH THE CODE OF PRACTICE FOR THE ERECTION OF STREET LIGHTING EQUIPMENT.

COLUMN DOORS ARE TO BE ORIENTATED SO THAT THE MAINTENANCE WORKER WILL BE FACING THE ONCOMING TRAFFIC WHILE WORKING INSIDE THE COLUMN.

NEW COLUMN POSITIONS TO BE AGREED WITH CONTRACTOR PRIOR TO INSTALLATION. TYPICAL COLUMN SET BACK:

- WITHIN FOOTPATH BACK OF PATH.
- WITHIN HARDSTANDING IN BUILT OUT TO CGC SPECIFICATION, MIN 8M FROM THE KERB EDGE TO FRONT FACE OF THE COLUMN.
- COLUMNS ADJACENT TO DRIVEWAYS TO HAVE A MINIMUM OF 0.4M CLEARANCE TO THE COLUMN CENTRE.

RAISING & LOWERING COLUMNS ARE TO BE USED WHERE ACCESS IS MADE DIFFICULT FOR MAINTENANCE VEHICLES TO ENTER AND POSITIONED IN THE SURFACE WITH ENOUGH ROOM FOR THE COLUMN TO BE LOWERED SAFELY WITH NO OBSTRUCTIONS.

ALL ELECTRICAL WORK INSTALLED SHOULD BE CARRIED OUT TO MEET THE REQUIREMENTS OF THE BRITISH STANDARDS INSTITUTION BS 7171:2015.

THE ELECTRICITY SUPPLY TO EACH COLUMN IS TO BE ARRANGED BY DEVELOPER AND PROVIDED DIRECTLY FROM THE REGIONAL ELECTRICITY COMPANY. LOW VOLTAGE MAIN NETWORKS AND THE CONNECTIONS ARE STRICTLY TO BE MADE BY CROUCHING CONSERVATIVES ONLY. DOUBLE POLE ISOLATION IS REQUIRED IN THE FORM OF CUT OUT WITH CLEAR BASE UNLESS SPECIFIED OTHERWISE.

CABLE - INTERNAL

INTERNAL WIRING BETWEEN THE TERMINAL BLOCK IN THE LANTERN AND THE COMPONENTS IN THE BASE OF THE COLUMN SHALL BE PVC INSULATED AND SHEATHED CABLE OF 300/100 VOLT GRADE, HAVE A COPPER CONDUCTOR SIZE OF NOT LESS THAN 1.5 SQ MM FOR LIGHTING UNITS OF UP TO 6 METRES MOUNTING HEIGHT AND 2.5 SQ MM FOR LIGHTING UNITS IN EXCESS OF 6M. ALL CABLES SHALL BE CORRECTLY COLOUR CODED.

EARTHING

THE TYPE OF EARTHING SYSTEM SHALL BE TN-C-S AND THE WHOLE OF THE INSTALLATION SHALL BE EARTHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BS 7671 WIRING REGULATIONS. ALL PUBLIC LIGHTING CABLES SHALL BE DOUBLE EARTHED THROUGH THE THIRD COPPER CORE AND THE STEEL WIRE ARMOUR.

EARTH BONDING

CABLES FOR CONTINUOUS EARTH BONDING SHALL BE GREEN/YELLOW PVC INSULATED SINGLE CORE COPPER CABLE OF MINIMUM CROSS SECTIONAL AREA OF 16 SQ MM 600 VOLT GRADE CONFORMING TO THE BS 6808 AND BE CONNECTED TO COLUMN AND COLUMN DOOR.

NECESSARY

ANY ALTERATION TO THE PROPOSED LIGHTING COLUMN POSITIONS ARE TO BE APPROVED BY THE COUNTY COUNCIL LIGHTING DESIGNER.

PROPOSED TREE LOCATIONS

LANDSCAPE ARCHITECT TO REVIEW THE INDICATIVE LOCATION OF ANY TREES SHOWN IN THE DRAWING WHICH ARE SITED IN THE VICINITY OF A LIGHTING COLUMN. THE TREE LAYOUT SHOULD BE DESIGNED TO MINIMISE IMPACT ON THE LOCAL SYSTEM OF STREET LIGHTING. THIS SHOULD INCLUDE ANY OBSTRUCTION TO LIGHT OUTPUT DUE TO TREE FOLIAGE AND ENSURE THE LIGHTING ASSET WILL NOT BE OVERSHADOW BY ANY TREE CANOPY.



ROAD MARKING INFORMATION

DIAGRAM REFERENCES RELATE TO THE TRAFFIC SIGNS MANUAL CHAPTER 8 ROAD MARKINGS.

ALL WHITE LINING AND ROAD MARKINGS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE TRAFFIC SIGNS MANUAL.

- DIAGRAM 103A MARK-40a: 40a+3m, WIDTH=2m
- DIAGRAM 103A MARK-40b: 40a+3m, WIDTH=1m
- DIAGRAM 103A MARK-15a: 25a+1.5m, LENGTH=3.75m

ROAD SIGN INFORMATION

DIAGRAM REFERENCES RELATE TO THE TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS (TRSDG) 2016. ALL ROAD SIGNS IN ACCORDANCE WITH THE CURRENT EDITION OF THE TRSDG.

- 2ND SIGN REF DIA 602 REQUIRED TO BE POSITIONED 4.2m HIGH FROM GROUND LEVEL.
- SHEAR NUTS MUST BE USED WHEN ERECTING THE SIGN. MINIMUM LATERAL CLEARANCE IS 8M.
- 10mm WIDE STRIPS OF COPPER MATERIAL MUST BE USED BETWEEN THE LAMP COLUMN AND THE SIGN BRACKETS TO PREVENT DAMAGE TO THE COLUMN.

Sign Ref: 602	Height: 100
Letter Colour: Black	Sign Face
Background: White	Width: 800mm
Border: Red	Height: 850mm
Material: Class R51 (289-1-2007) P.C.S.	Area: 0.15sqm

KEY

- PROPOSED ADAPTABLE CARRIAGEWAY SUBJECT TO S278 WORKS
- PROPOSED ADAPTABLE FOOTWAY SUBJECT TO S278 WORKS

DRAWING TO BE READ IN CONJUNCTION WITH RWO.DWG.700 ROAD CONSTRUCTION DETAILS AND RWO.DWG.500 KERBS AND SURFACING PLAN

DESIGN NOTES

- PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY BY GSM DATED 18/09/2022.
- PROPOSED DRAWING BASED ON ARCHITECTURAL LAYOUT RECEIVED FROM THE DEVELOPER.
- ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
 - SPECIFICATION FOR HIGHWAY WORKS (SPE)
 - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
- PRIOR TO ROADWORKING THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE ANY NECESSARY ANY STATUTORY UNDERGROUNDS EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR UNDERGROUND PROTECTION WITH THE RELEVANT UNDERGROUNDS ENGINEER PRIOR TO WORK COMMENCING.
- ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES AS REQUIRED.
- CONTRACTOR TO CHECK ALL DIMENSIONS ON SITE.
- DISCREPANCIES MUST BE REPORTED TO THE DESIGNER BEFORE PROCEEDING.
- ONLY DIMENSIONS ARE TO BE WORKED FROM.
- ALL DIMENSIONS ARE IN UNLESS NOTED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER INFORMATION BY RELEVANT PARTIES CLASSIFIED AS DESIGNERS UNDER THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
- ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
- SOIL VARIATION IS TO BE READ IN CONJUNCTION WITH ALL OTHER INFORMATION BY RELEVANT PARTIES CLASSIFIED AS DESIGNERS UNDER THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
- SLOPES GREATER THAN 1 IN 8 ARE REQUIRED STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.
- TRAFFIC SIGN/DIAGRAM REFERENCES RELATE TO THE TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS (TRSDG) 2016. ALL ROAD SIGNS TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE TRSDG.
- WHITE LINING/DIAGRAM REFERENCES RELATE TO THE TRAFFIC SIGNS MANUAL CHAPTER 8 ROAD MARKINGS.
- ALL WHITE LINING AND ROAD MARKINGS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE TRAFFIC SIGNS MANUAL.

SUBJECT TO LOCAL AUTHORITY APPROVAL

11/06/2022	FRST ISSUE	Rev:	1	1
Date:	11/06/2022	Drawn:	AE	1
Dep: 016		Checked:	AE	1
APPROVAL				
NORTH EAST 0191 289620 YORKSHIRE 0113 333 3200 www.rwo.co.uk RWO GROUP RWO GROUP				
Client: GLEESON HOMES				
Project: WATERS EDGE, WHITEHAVEN				
Title: SECTION 278 PLAN				
DO NOT SCALE	Scale: As At 1:250	Drawn: NN	Checked: AE	Date: 11/06/2022
Job No: 21201		Drawn: NN	Checked: AE	Rev: 1