

ENVIRONMENTAL CONSIDERATIONS

ASSESSMENT IN LINE WITH BS 5489-1: 2020

ILP ENVIRONMENTAL ZONE E2 (RURAL - AREA OF LOW BRIGHTNESS)

OBTRUSIVE LIGHT

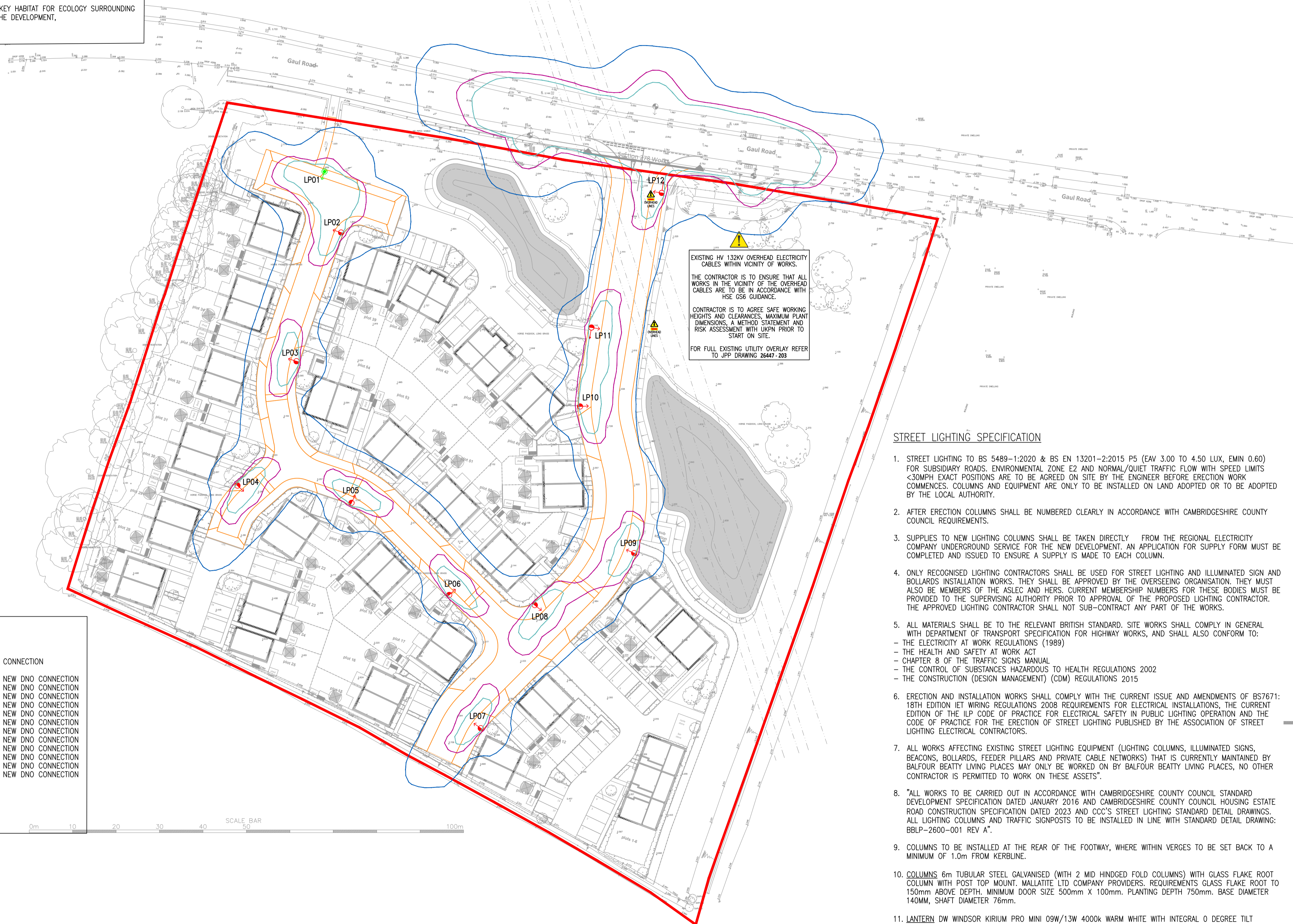
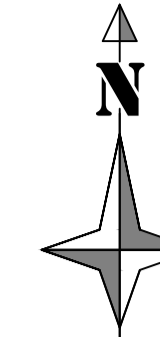
NO EXISTING RESIDENTIAL PROPERTIES NEARBY

VISUAL IMPACT - LIGHTING INSTALLED IS RELATIVELY LOW LEVEL AT 6M AND IS IN CHARACTER WITH THE SURROUNDING AREA.

ECOLOGY:

THERE ARE NOT ANY AREAS THAT ARE CONSIDERED KEY HABITAT FOR ECOLOGY SURROUNDING THE SITE THAT WILL BE IMPACTED BY LIGHT FROM THE DEVELOPMENT.

UPWARD LIGHT RATIO - 0%



ROAD LIGHTING SETTING OUT SCHEDULE

COLUMN REF:	X	Y	SETBACK	CONNECTION
LP01	540593.14	296677.58	2m	NEW DNO CONNECTION
LP02	540586.90	296663.16	2m	NEW DNO CONNECTION
LP03	540586.85	296633.45	2m	NEW DNO CONNECTION
LP04	540572.75	296605.15	2m	NEW DNO CONNECTION
LP05	540599.00	296600.67	2m	NEW DNO CONNECTION
LP06	540621.60	296579.59	2m	NEW DNO CONNECTION
LP07	540629.09	296548.91	3m	NEW DNO CONNECTION
LP08	540641.25	296577.54	3m	NEW DNO CONNECTION
LP09	540664.44	296589.32	3m	NEW DNO CONNECTION
LP10	540651.68	296623.17	3m	NEW DNO CONNECTION
LP11	540654.16	296641.37	3m	NEW DNO CONNECTION
LP12	540670.80	296672.25	3m	NEW DNO CONNECTION

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNTIL FULL TECHNICAL APPROVAL OF THE STREET LIGHTING HAS BEEN GRANTED BY THE ADOPTING AUTHORITY. IF CONSTRUCTION BEGINS BEFORE TECHNICAL APPROVAL THEN NO RESPONSIBILITY IS ACCEPTED FOR ANY ABORTIVE WORKS.

NOTES:

- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNTIL FULL TECHNICAL APPROVAL OF THE STREET LIGHTING HAS BEEN GRANTED BY THE ADOPTING AUTHORITY. IF CONSTRUCTION BEGINS BEFORE TECHNICAL APPROVAL THEN NO RESPONSIBILITY IS ACCEPTED FOR ANY ABORTIVE WORKS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
- ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 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.
- 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.
- 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.
- MOST RECENT UTILITY DRAWINGS MUST BE VIEWED BEFORE WORKS COMMENCE.
- THE FOLLOWING INFORMATION WILL BE REQUIRED TO BE SUPPLIED TO CAMBRIDGESHIRE COUNTY COUNCIL BEFORE FORMAL FINAL INSTALLATION INSPECTIONS CAN BE CARRIED OUT:
 - 3.1. LEGIBLE AS BUILT DRAWING/S WITH KEY
 - ELECTRICAL SCHEMATICS FOR ANY PRIVATE CABLE NETWORKS
 - TELENSA CMS CONTROL NODE IDS PER ASSET IF APPLICABLE
 - CLEAR SCHEDULE OF EQUIPMENT USED, TO ENABLE FULL POPULATION OF THE COUNTY COUNCILS MAYRISE ASSET MANAGEMENT SYSTEM
 - VALID ELECTRICAL TEST CERTIFICATES (WITHIN 2 YEARS)
 - DETAILS OF ANY RESIDUAL SITE RISKS, E.G. HV, GAS, OVERHEADS, ACCESS ISSUES ETC
- DRAWING TO BE PRINTED IN COLOUR.

STREET LIGHTING SPECIFICATION

- STREET LIGHTING TO BS 5489-1:2020 & BS EN 13201-2:2015 P5 (EAV 3.00 TO 4.50 LUX, EMIN 0.60) FOR SUBSIDIARY ROADS, ENVIRONMENTAL ZONE E2 AND NORMAL/QUIET TRAFFIC FLOW WITH SPEED LIMITS <30MPH EXACT POSITIONS ARE TO BE AGREED ON SITE BY THE ENGINEER BEFORE ERECTION WORK COMMENCES. COLUMNS AND EQUIPMENT ARE ONLY TO BE INSTALLED ON LAND ADOPTED OR TO BE ADOPTED BY THE LOCAL AUTHORITY.
- AFTER ERECTION COLUMNS SHALL BE NUMBERED CLEARLY IN ACCORDANCE WITH CAMBRIDGESHIRE COUNTY COUNCIL REQUIREMENTS.
- SUPPLIES TO NEW LIGHTING COLUMNS SHALL BE TAKEN DIRECTLY FROM THE REGIONAL ELECTRICITY COMPANY UNDERGROUND SERVICE FOR THE NEW DEVELOPMENT. AN APPLICATION FOR SUPPLY FORM MUST BE COMPLETED AND ISSUED TO ENSURE A SUPPLY IS MADE TO EACH COLUMN.
- ONLY RECOGNISED LIGHTING CONTRACTORS SHALL BE USED FOR STREET LIGHTING AND ILLUMINATED SIGN AND BOLLARDS INSTALLATION WORKS. THEY SHALL BE APPROVED BY THE OVERSEEING ORGANISATION. THEY MUST ALSO BE MEMBERS OF THE ASLEC AND HERS. CURRENT MEMBERSHIP NUMBERS FOR THESE BODIES MUST BE PROVIDED TO THE SUPERVISING AUTHORITY PRIOR TO APPROVAL OF THE PROPOSED LIGHTING CONTRACTOR. THE APPROVED LIGHTING CONTRACTOR SHALL NOT SUB-CONTRACT ANY PART OF THE WORKS.
- 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:
 - THE ELECTRICITY AT WORK REGULATIONS (1989)
 - THE HEALTH AND SAFETY AT WORK ACT
 - CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL
 - THE CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS 2002
 - THE CONSTRUCTION (DESIGN MANAGEMENT) (CDM) REGULATIONS 2015
- ERECTION AND INSTALLATION WORKS SHALL COMPLY WITH THE CURRENT ISSUE AND AMENDMENTS OF BS7671: 18TH EDITION IET WIRING REGULATIONS 2008 REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, THE CURRENT EDITION OF THE ILP CODE OF PRACTICE FOR ELECTRICAL SAFETY IN PUBLIC LIGHTING OPERATION AND THE CODE OF PRACTICE FOR THE ERECTION OF STREET LIGHTING PUBLISHED BY THE ASSOCIATION OF STREET LIGHTING ELECTRICAL CONTRACTORS.
- ALL WORKS AFFECTING EXISTING STREET LIGHTING EQUIPMENT (LIGHTING COLUMNS, ILLUMINATED SIGNS, BEACONS, BOLLARDS, FEEDER PILLARS AND PRIVATE CABLE NETWORKS) THAT IS CURRENTLY MAINTAINED BY BALFOUR BEATTY LIVING PLACES MAY ONLY BE WORKED ON BY BALFOUR BEATTY LIVING PLACES, NO OTHER CONTRACTOR IS PERMITTED TO WORK ON THESE ASSETS".
- "ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CAMBRIDGESHIRE COUNTY COUNCIL STANDARD DEVELOPMENT SPECIFICATION DATED JANUARY 2016 AND CAMBRIDGESHIRE COUNTY COUNCIL HOUSING ESTATE ROAD CONSTRUCTION SPECIFICATION DATED 2023 AND CCC'S STREET LIGHTING STANDARD DETAIL DRAWINGS. ALL LIGHTING COLUMNS AND TRAFFIC SIGNPOSTS TO BE INSTALLED IN LINE WITH STANDARD DETAIL DRAWING: BBLP-2600-001 REV A".
- COLUMNS TO BE INSTALLED AT THE REAR OF THE FOOTWAY, WHERE WITHIN VERGES TO BE SET BACK TO A MINIMUM OF 1.0m FROM KERBLINE.
- COLUMNS 6m TUBULAR STEEL GALVANISED (WITH 2 MID HINGED FOLD COLUMNS) WITH GLASS FLAKE ROOT COLUMN WITH POST TOP MOUNT. MALLATITE LTD COMPANY PROVIDERS. REQUIREMENTS GLASS FLAKE ROOT TO 150mm ABOVE DEPTH. MINIMUM DOOR SIZE 500mm X 100mm. PLANTING DEPTH 750mm. BASE DIAMETER 140MM, SHAFT DIAMETER 76mm.
- LANTERN DW WINDSOR KIRIUM PRO MINI 09W/13W 4000k WARM WHITE WITH INTEGRAL 0 DEGREE TILT 1.34KLM AND 2.24KLM.
- CONTROL TELENZA T2E1C-G-3 INTEGRATED DIMMING TELECELLS WITH DALI CONTROL AND GPS CMS CCSM
- DIMMING REGIMES DUSK TO 22:00-100%, 22:00-06:00-60%
- (PROJECT MAINTENANCE FACTOR 0.86).

STREET LIGHTING KEY

LP**	PROPOSED STREET LIGHTING COLUMN
→	COLUMN HEIGHT: 6m
→	PROJECTION: 0.3M POST TOP
→	LANTERN MANUFACTURER: DW WINDSOR
QUANTITY 9	LANTERN NAME: KIRIUM PRO MINI
	INCLINATION: 0°
	LAMP TYPE: 16LED 4000K WARM WHITE
	WATTAGE: 09W
	OPTIC: A1 200mA 1.43KLM
LP**	PROPOSED STREET MID HINGED FOLD LIGHTING COLUMN
→	COLUMN HEIGHT: 6m
→	PROJECTION: 0.3M POST TOP
→	LANTERN MANUFACTURER: DW WINDSOR
QUANTITY 2	LANTERN NAME: KIRIUM PRO MINI
	INCLINATION: 0°
	LAMP TYPE: 16LED 4000K WARM WHITE
	WATTAGE: 09W
	OPTIC: A1 200mA 1.43KLM
LP**	PROPOSED STREET LIGHTING COLUMN
→	COLUMN HEIGHT: 6m
→	PROJECTION: 0.3M POST TOP
→	LANTERN MANUFACTURER: DW WINDSOR
QUANTITY 1	LANTERN NAME: KIRIUM PRO MINI
	INCLINATION: 0°
	LAMP TYPE: 16LED 4000K WARM WHITE
	WATTAGE: 13W
	OPTIC: A1 300mA 2.24KLM
→	S278 STREET LIGHTING COLUMN SHOWN FOR QUANTITY CALCULATION PURPOSES ONLY.
QUANTITY 3	
	4.5 LUX ISO CONTOUR
	3.0 LUX ISO CONTOUR
	0.6 LUX ISO CONTOUR
	SITE BOUNDARY

B	AMENDMENTS TO NOTES	CA	NA	DS	18.04.24
A	AMENDMENTS TO STREET LIGHTING	CA	NA	DS	05.03.24
-	FIRST ISSUE	NA	AW	DS	10.01.24
REV	AMENDMENTS:	DRN	CHK	APP	DATE:

PROJECT: GAUL ROAD, MARCH

DRAWING TITLE: S38 LIGHTING LAYOUT

CLIENT: BURMOR CONSTRUCTION

DRAWING NUMBER: 21412_02_100_01

REVISION: B SHEET SIZE: A1 SCALE: 1:500

STATUS: FOR INFORMATION / APPROVAL

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