



- NOTES**
- THIS IS A DESIGN DRAWING NOT AN INSTALLATION DRAWING. DIMENSIONS SHOULD NOT BE SCALED. SITE DIMENSIONS TO BE CHECKED BEFORE PRODUCTION OF CRITICAL MANUFACTURING DRAWINGS. THE DRAWING IS COPYRIGHT AND NO PART MAY BE REPRODUCED WITHOUT WRITTEN CONSENT.
- DRAWING NOTES**
- THIS DRAWING WILL BE READ IN CONJUNCTION WITH ALL RELEVANT EXISTING AND PROPOSED DRAWINGS AND THE RELEVANT DISTRIBUTION BOARD SCHEDULES.
 - REFERENCE SHOULD BE MADE TO THE EXTERNAL BURIED SERVICES LAYOUT ARRANGEMENT FOR DUCT ROUTING TO SERVE THE PROPOSED EXTERNAL LIGHTING ARRANGEMENT.
 - FINAL POSITIONS AND SETTING OUT OF COLUMNS WILL BE COORDINATED WITH THE EXTERNAL HARD AND SOFT LANDSCAPING.
 - THE MAIN CONTRACTOR WILL PROVIDE ALL COLUMN FOUNDATIONS AND BOLARS FOUNDATIONS IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES AND STRUCTURAL ENGINEERS SPECIFICATION.
 - THE CONTRACTOR WILL PROVIDE ALL CIRCUIT WIRING TO EXTERNAL LIGHTING ENCLOSED WITH PVC DUCT TO A DEPTH OF 450mm BELOW GROUND. THE MAIN CONTRACTOR WILL PROVIDE ALL DUCT WITH SAND BEDDING AND PROTECTIVE WARNING TAPE.
 - BUILDING MOUNTED FITTING AROUND THE BUILDINGS AT THE MOUNTING HEIGHTS INDICATED ON THE LAYOUT ARRANGEMENT.
 - ALL COLUMNS WILL BE FIXED IN THE CORRECT RELATIONSHIP TO THE FOOTPATH KERB. GENERALLY 500mm INSIDE THE KERB STONE AND THE ROOT SETTS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE BRITISH STANDARD AND MANUFACTURERS RECOMMENDATIONS.
 - FINAL POSITIONS OF ALL COLUMNS TO BE COORDINATED WITH THE CAR PARK LAYOUT, CAR PARK LEVELS AND FENCING.
 - COLUMNS AND BRACKETS NOT DIPPED GALVANIZED STEEL TO BS EN ISO 1461. BRACKETS AND LUMINAIRES OF THE SAME MATERIAL AND MUST BE CONFIRMED PRIOR TO ORDER.
 - COLUMNS WITH A SINGLE FLUSH FITTING DOOR COMPLETE WITH TAMPER RESISTANT SECURITY LOCKING MECHANISM. COLUMNS, BRACKETS, REMOVABLE COOL LIGHT FITTING AND ATTACHMENTS ARE EFFECTIVE AND CONTINUOUSLY EARTHED.
 - THE MAIN CONTRACTOR WILL EMPLOY SAFE DIG PROCEDURES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING THE EXTENT OF THE EXISTING BURIED SERVICES VIA EXISTING DRAWINGS OR VIA SITE INVESTIGATIONS.
 - ALL EXTERNAL LIGHT FITTINGS TO CAR PARKING AREAS, ASSOCIATED ROADS WILL HAVE A LUMINOUS EFFICACY OF AT LEAST 70 LAMP LUMENS/SCIRCUIT WATT WHEN THE LAMP HAS A COLOUR RENDERING INDEX (CRI) LESS THAN 90. EXTERNAL LIGHT FITTINGS WILL BE CONTROLLED THROUGH A TIME SWITCH OR DAYLIGHT SENSOR TO PREVENT OPERATION DURING DAYLIGHT HOURS. DAYLIGHT SENSOR OVERRIDE ON A MANUALLY SWITCHED LIGHTING CIRCUIT IS ACCEPTABLE.
 - ALL EXTERNAL LIGHT FITTINGS SIGNS AND SWITCHING WILL HAVE A LUMINOUS EFFICACY OF AT LEAST 60 LAMP LUMENS/ SCIRCUIT WATT WHEN THE LAMP WATTAGE IS GREATER THAN OR EQUAL TO 25W OR 50 LAMP LUMENS/SCIRCUIT WATT WHEN THE LAMP WATTAGE IS LESS THAN 25W.
 - FOR EXTERNAL BUILDING MOUNTED LIGHTING LOCATIONS PLEASE REFER TO ELEVATION DRAWINGS AS FOLLOWS FOR MORE DETAILS: - ROADS CAD-XX-DR-E-63901 - Sht 1 of 2 RG0003-CAD-XX-DR-E-63902 - Sht 2 of 2



- CAR PARK LIGHTING IS 20 LUX @ 0.4 UO
- EXTERNAL GARDEN SPACES 5 LUX @ 0.25 UO
- PEDESTRIAN FOOTPATHS IS 5 LUX @ 0.25 UO
- TRAFFIC AREAS IS 20 LUX @ 0.4 UO
- UO = UNIFORMITY

Image	Symbol	Qty	Arrangement	LLF	Description
	EXT1	20	Surface Mounted	0.900	20W LED Thorux Reels wall mounted luminaire. High-pressure die-cast aluminium body with a choice of high efficiency glass reflector. Less than 2% upward light. Wall mounted at 4.5M FFL
	EXT2	15	Surface Mounted	0.900	20W LED Thorux Reels wall mounted luminaire. High-pressure die-cast aluminium body with a choice of high efficiency glass reflector. Less than 2% upward light. Wall mounted at 7.5M FFL
	EXT3	3	Surface Mounted	0.900	16W LED Thorux Cobalt Circular light-resistant surface mount luminaire with strong high-pressure die-cast aluminium body and cover frame finished full polyester powder coated graphite with silver or white options. High efficiency, high impact resistant, fire resistant UV stabilised polycarbonate cover. Cover secured using tamper-resistant pin Torx screws.
	EXT5	10	Surface Mounted	0.900	21W LED Thorux Passway High performance bollard manufactured from extruded aluminium with die-cast head unit and full polyester powder graphite finish, with area distribution, and less than 2% upward light components. IP66 and 80°C LED light engine providing 100,000 hour life, 4000K, CRI 70+ and LUX Guard LED PCB protection.
	EXT6	10	Post Top Mounted	0.900	62W LED Thorux Starbeam Eco LED floodlight manufactured from die-cast aluminium polyester powder coated RAL9006 silver and UV stabilised polycarbonate cover with necessary optical distribution. IP66 LED light engine providing 100,000 hour life, 4000K, CRI 70+
	EXT7	4	Wall Mounted @ 0M FFL	0.900	62W LED Thorux Starbeam Eco LED floodlight manufactured from die-cast aluminium polyester powder coated RAL9006 silver and UV stabilised polycarbonate cover with area optical distribution. IP66 LED light engine providing 100,000 hour life, 4000K, CRI 70+
	EXT9	9	Post Top Mounted	0.900	LED Thorux Juno C pole top amenity luminaire manufactured from die-cast aluminium polyester powder coated RAL9006 silver with high impact UV stabilised polycarbonate cover providing asymmetric distribution. IP66 LED light engine providing 100,000 hour life, 4000K, CRI 70+
	EXT10	6	Post Top Mounted	0.900	LED Thorux Juno B pole top amenity luminaire manufactured from die-cast aluminium polyester powder coated RAL9006 silver with high impact UV stabilised polycarbonate cover providing symmetric distribution options. IP66 LED light engine providing 100,000 hour life, 4000K, CRI 70+ and LUX Guard LED PCB protection.

PRELIMINARY ISSUE

Rev P01
 By: TP Chd CP Date: 02/01/24 App: MV

Status	Description	Stage
S4	FOR STAGE APPROVAL	4

Client: **IHP**
 INTEGRATED HEALTH PROJECTS

Project: DERBYSHIRE HEALTHCARE NHS FOUNDATION TRUST
 NEW MENTAL HEALTH ACCOMMODATION
 CHESTERFIELD ROYAL HOSPITAL

Drawing: ELECTRICAL ENGINEERING SERVICES
 EXTERNAL LIGHTING
 CARPARK & ACCESS PATHWAYS
 LUX PLOTS

NEVCASTLE ■ TEESDALE ■ YORKSHIRE ■ NORTH WEST

Drawing Number: RG0004-CAD-XX-XX-DR-E-63904
 Scale: 1:200
 Drawing Origin: P01