

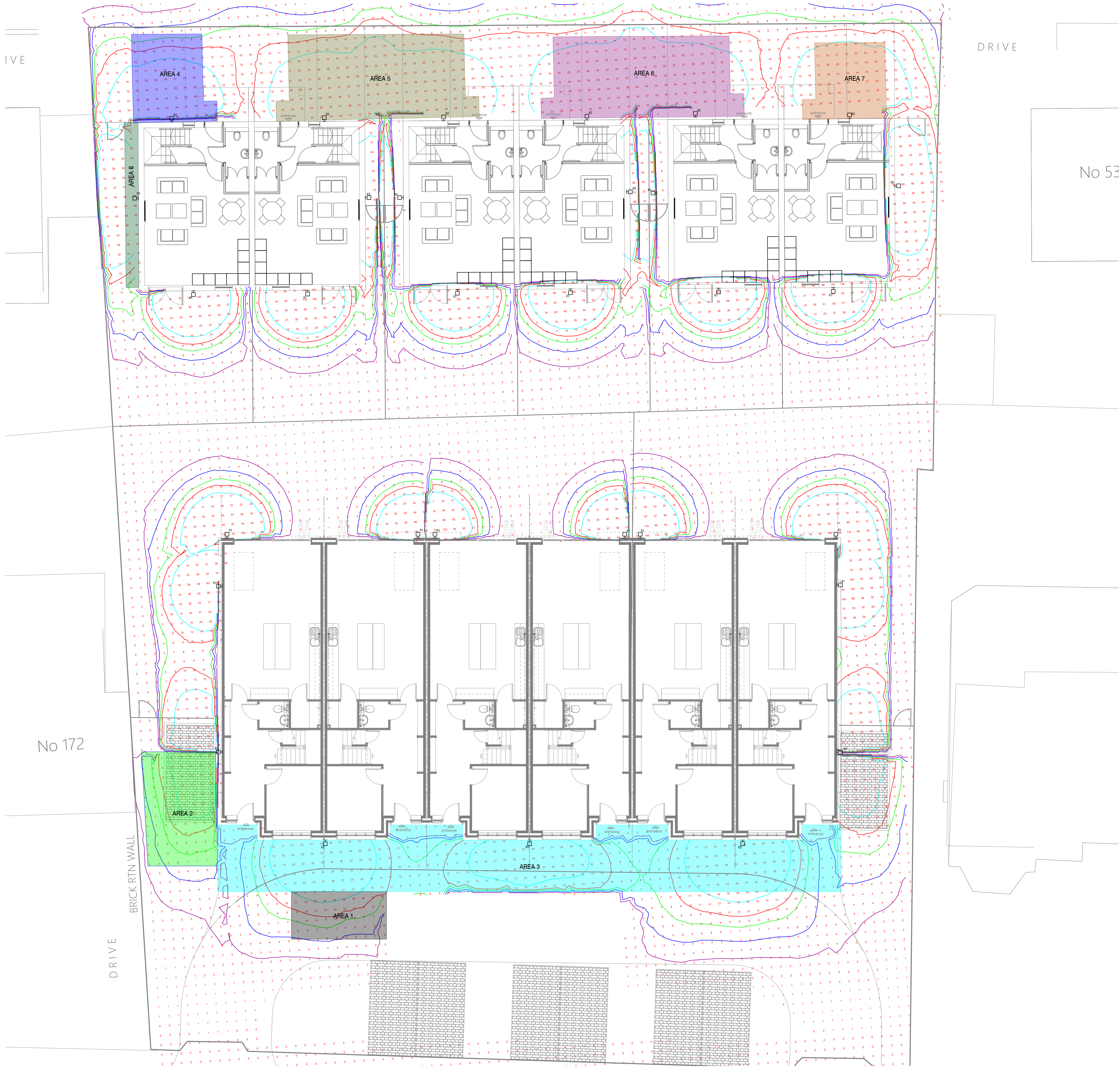
Table 4.2(a) Environmental zones and upward light pollution permitted for exterior lighting installations (reproduced from ILP Guidance Note 1 (ILP, 2021) by permission of the Institution of Lighting Professionals)			
Zone	Surrounding	Lighting environment	Examples
E0	Protected	Dark (SQM 20.5+)	Astronomical observable dark skies, UNESCO starlight reserves, IDA dark sky places
E1	Natural	Dark (SQM 20 to 20.5)	Relatively uninhabited rural areas, National Parks, Areas of Outstanding Natural Beauty, IDA buffer zones, etc.
E2	Rural	Low distinct brightness (SQM -15 to 20)	Sparsely populated areas, village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Well inhabited rural and urban settlements, small towns centres of suburban locations
E4	Urban	High district brightness	Town/city centres with high levels of night-time activity

Scheme based on E3 Environmental Classification

Table 4.13 Parking areas							
Ref	Type of area, task or activity	$\bar{E}_m$ (lux)	U_o	R_{GL}	R_a	Remarks	
4.13.1	Light traffic, e.g. parking areas of shops, terraced and apartment houses, cycle parks	5	0.25	55	20		
4.13.2	Medium traffic, e.g. parking areas of department stores, office buildings, plants, sports and multipurpose building complexes	10	0.25	50	20		
4.13.3	Heavy traffic, e.g. parking areas of schools, churches, major shopping centres, major sports and multi-purpose building complexes	20	0.25	50	20		

Note: All the illuminance values listed in the table above should be regarded as absolute minima to be used in areas where there are no extra factors such as fear of crime that might require the lighting level to be increased.

Parking areas based on 5 lux at 0.25 Uniformity



LEGEND

- X1
IP65 / IK10 rated LED surface mounted eyelid bulkhead luminaire, refer to the luminaire schedule
- X2
IP65 / IK08 LED surface mounted luminaire, refer to the luminaire schedule
- X3
IP65 rated LED floodlight surface mounted luminaire, refer to the luminaire schedule

SITE: - Bury Old Road, External Lighting

Proposed Luminaire Schedule Rev 00

Luminaire Reference	Luminaire Description	Lamp Type	Proposed Location	Proposed Luminaire
X1	IP65 / IK10 rated 360mm dia. LED surface mounted eyelid bulkhead luminaires, c/w cast aluminium black body and frame; UV stabilised polycarbonate diffuser; symmetrical light distribution; high frequency LED control gear, on/off with daylight control. As LDL Lighting, LD Series range or accepted and equivalent	11W 1216Lm 4000K	External	
X2	IP65 / IK08 rated 220mm x 220mm x 230mm LED surface mounted luminaire, c/w die cast aluminium body with clear toughened glass lens with Graphite finish, flood lens and high frequency LED control gear, on/off with daylight control. As LDL Luna range or accepted and equivalent	14W 1307Lm 4000K L90 B10	External	
X3	IP65 / IK08 rated 220mm x 220mm x 230mm LED surface mounted luminaire, c/w die cast aluminium body with clear toughened glass lens with Graphite finish, wide pathway lens for wider distribution of light and high frequency LED control gear on/off with daylight control. As LDL Luna range or accepted and equivalent	14W 1205Lm 4000K L90 B10	External	

ILLUMINATION RESULTS

Area	ILLUMINANCE	$\bar{E}_m$	E_{min}	E_{max}	U_o	R_{GL}	R_a
Area 1	Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	8.6 lx 2.6 lx 17.2 lx 1:3.39 (0.3) 1:6.75 (0.15)					
Area 2	Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	16.4 lx 5.4 lx 57.6 lx 1:3.07 (0.33) 1:10.7 (0.09)					
Area 3	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	12.1 lx 2.8 lx 32.7 lx 1:4.31 (0.23) 1:11.7 (0.09)					
Area 4	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	25.1 lx 6.1 lx 57.3 lx 1:4.09 (0.24) 1:9.31 (0.11)					
Area 5	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	25.9 lx 7 lx 59.8 lx 1:3.69 (0.27) 1:8.5 (0.12)					
Area 6	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	26.3 lx 6.9 lx 59.3 lx 1:3.79 (0.26) 1:8.79 (0.11)					
Area 7	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	26 lx 6.6 lx 59.3 lx 1:3.97 (0.25) 1:8.79 (0.11)					
Area 8	ILLUMINANCE Average Illuminance Minimum Illuminance Maximum Illuminance Uniformity U_o Diversity U_d	32.9 lx 8.6 lx 71.1 lx 1:3.62 (0.26) 1:8.79 (0.12)					

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GENERAL NOTES

- Drawings are to be read in conjunction with all relevant specifications, engineers, architects & services drawings, including approved builders work drawings. Contractor to notify engineer of discrepancies between structural drawings & specifications or other drawings.
- All dimensions are in millimeters unless noted otherwise.
- Do not scale from the drawings or the computer digital data, only figured dimensions are to be used.

P1	07.06.23	For Information		RA	GD
Rev:	Date:	Amendment:	Drawn:	Check:	
Draw:	RA	Date:	21.03.2023	Scale:	1:100 @A0
Check:	GD	Date:	21.03.2023	Plot:	27 Projects

Client:

Corstorphine & wright

Project Title:
Mayfair Capital , Bury Old Road

Drawing Title:
Proposed External Lighting
Site Plan

Status:

Preliminary



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P1