

RESIDUAL RISK REGISTER			
NO.	DESCRIPTION OF HAZARD	CONTROL MEASURES	ACTION BY
1	NO HAZARDS IDENTIFIED DURING DESIGN REVIEW	N/A	N/A

STATISTICS				
Description	Symbol	Avg	Min	Min/Avg
Access Road 20/5	+	29 lux	7 lux	0.24
Car Park - Unit A	+	23 lux	11 lux	0.48
Car Park - Unit B	+	27 lux	17 lux	0.63
Car Park - Unit C	+	27 lux	13 lux	0.48
Car Park - Unit D	+	32 lux	9 lux	0.28
Car Park - Unit E	+	31 lux	8 lux	0.26
Car Park - Unit F	+	33 lux	10 lux	0.30
Car Park - Unit G	+	41 lux	16 lux	0.39
Path	+	15 lux	3 lux	0.20
Path	+	17 lux	3 lux	0.18
Path	+	12 lux	2 lux	0.17
Service Yard - Unit A	+	52 lux	25 lux	0.48
Service Yard - Unit B	+	56 lux	16 lux	0.29
Service Yard - Unit C	+	55 lux	14 lux	0.25
Service Yard - Unit D	+	55 lux	20 lux	0.36
Service Yard - Unit E	+	49 lux	37 lux	0.76
Service Yard - Unit F	+	46 lux	26 lux	0.57
Service Yard - Unit G	+	48 lux	32 lux	0.67
Unit B - Rear Car Park	+	21 lux	12 lux	0.57

- NOTES**
- THE PROPOSED LIGHTING SCHEME WILL ADOPT A POLICY OF LIMITING & CONTROLLING ALL EXTERNAL "UPWARD LIGHT POLLUTION" TO A MINIMUM AND TO USE THE MINIMUM ENERGY NECESSARY TO PROVIDE SAFE AND SECURE PREMISES. ALL EXTERNAL LIGHTING SCHEMES MUST THEREFORE NOT MAKE A DIRECT CONTRIBUTION TO "UPWARD LIGHT POLLUTION".
 - THE NEW LIGHTING DESIGN WILL SATISFY ALL STATUTORY REQUIREMENTS INCLUDING THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS' 'CIBSE' TECHNICAL LIGHTING GUIDES.
 - CAR PARKS, SERVICE YARD AND PEDESTRIAN AREAS, INCLUDING ALL ESCAPE DOORS AND PATHS, ARE TO BE ILLUMINATED BY LED / LOW ENERGY LIGHT SOURCES USING A COMBINATION OF BUILDING MOUNTED LUMINAIRES AND LIGHTING COLUMNS, TO PROVIDE A MINIMUM MAINTAINED ILLUMINANCE. LOCAL INCREASES IN LIGHTING LEVELS SHALL BE PROVIDED TO THE SERVICE YARDS AND STAFF ENTRANCES AND LOADING BAY AREAS FOR SAFE ACCESS AND EGRESS.
 - THE CONTROL OF THE LIGHTING SOLUTIONS WILL BE VIA A TIME CLOCK AND PHOTOCELL CONTROL. THIS WILL ENABLE THE LIGHTING TO BE CONTROLLED TO OPERATE DURING THE OPENING TIMES TO COINCIDE WITH THE SUMMER AND WINTER SEASONS, THUS PREVENTING THE UNNECESSARY OPERATION OF THE LIGHTING SYSTEM.
 - THE EXTERNAL LIGHTING WILL BE CO-ORDINATED WITH THE LANDSCAPING SCHEME WITH LIGHT SPILLAGE FROM THE SITE BEING KEPT TO A MINIMUM.
 - THE LIGHTING WILL BE DESIGNED TAKING GREAT CARE TO ENSURE THAT THE REQUIRED LIGHTING LEVELS ARE ACHIEVED AT THE CAR PARK PERIPHERY, INCORPORATING LIGHTING GLARE CONTROL, TO PREVENT LIGHT POLLUTION TO SURROUNDING AREAS, AND THAT ADEQUATE SECURITY LIGHTING IS PROVIDED FOR PUBLIC AND STAFF SAFETY.

T2	17.10.17	Issue for Tender	CP
T1	15.09.17	Issue for Tender	PW

Rev.	Date	Details	Initials
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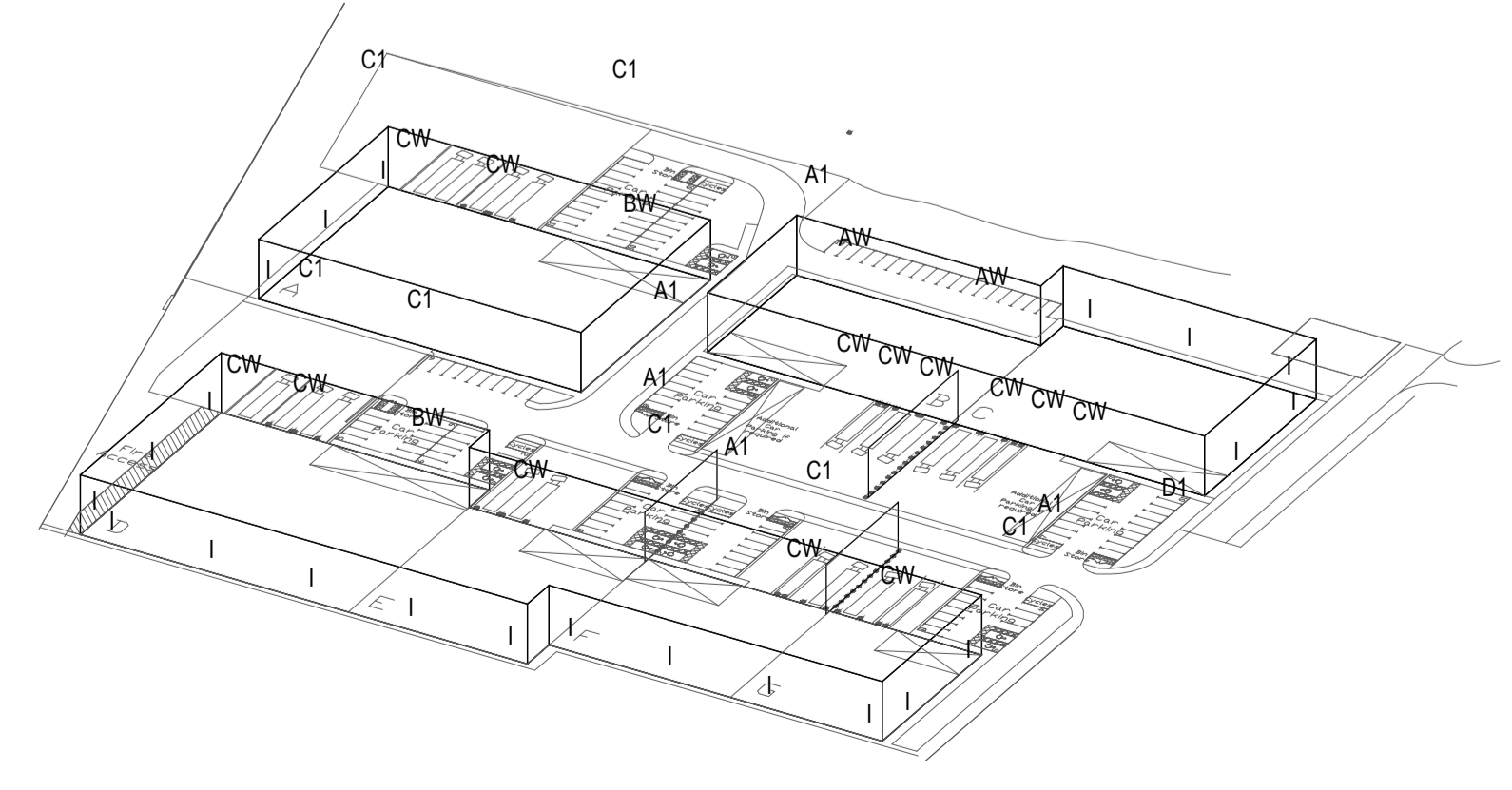
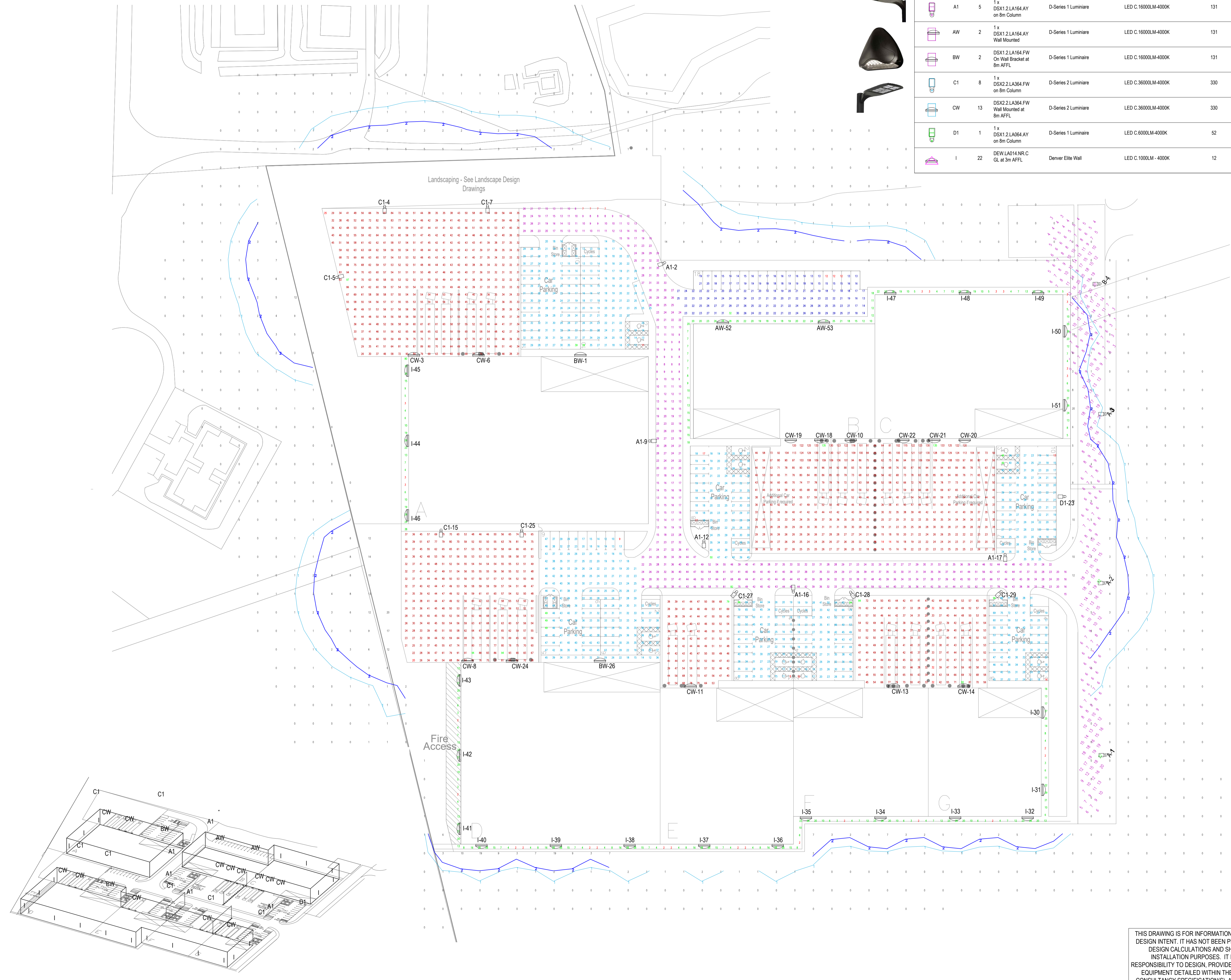
Project
Link 9 - Plot 2, Skimmingdish Lane Bicester

Drawing Title
External Lighting Layout

Purpose TENDER	Date Sep 2017
Scale @ A1 1:500	Checked DH
Drawn DM	Revision T2
Drawing No. ESC1330-E-001	

THIS DRAWING IS FOR INFORMATION ONLY AND DEMONSTRATES DESIGN INTENT. IT HAS NOT BEEN PRODUCED FROM DEFINITIVE DESIGN CALCULATIONS AND SHALL NOT BE USED FOR INSTALLATION PURPOSES. IT IS THE CONTRACTORS RESPONSIBILITY TO DESIGN, PROVIDE AND INSTALL ALL PLANT AND EQUIPMENT DETAILED WITHIN THE ENGINEERING SERVICES CONSULTANCY SPECIFICATION(S). AS THIS DRAWING DOES NOT DETAIL EACH AND EVERY ITEM OF PLANT AND EQUIPMENT THAT MAY BE NECESSARY

LUMINAIRE SCHEDULE						
Symbol	Label	Qty	Catalog Number	Description	Lamp	Watts
A1	A1	5	1 x DSX1.2.LA164.AY on 8m Column	D-Series 1 Luminaire	LED C.1600LM-4000K	131
AW	AW	2	1 x DSX1.2.LA164.AY Wall Mounted	D-Series 1 Luminaire	LED C.1600LM-4000K	131
BW	BW	2	DSX1.2.LA164.FW On Wall Bracket at 8m AFFL	D-Series 1 Luminaire	LED C.1600LM-4000K	131
C1	C1	8	1 x DSX2.2.LA364.FW on 8m Column	D-Series 2 Luminaire	LED C.3600LM-4000K	330
CW	CW	13	DSX2.2.LA364.FW Wall Mounted at 8m AFFL	D-Series 2 Luminaire	LED C.3600LM-4000K	330
D1	D1	1	1 x DSX1.2.LA064.AY on 8m Column	D-Series 1 Luminaire	LED C.600LM-4000K	52
I	I	22	DEW.LA014.NR.C GL at 3m AFFL	Denver Elite Wall	LED C.1000LM - 4000K	12



5m SCALE 1:250