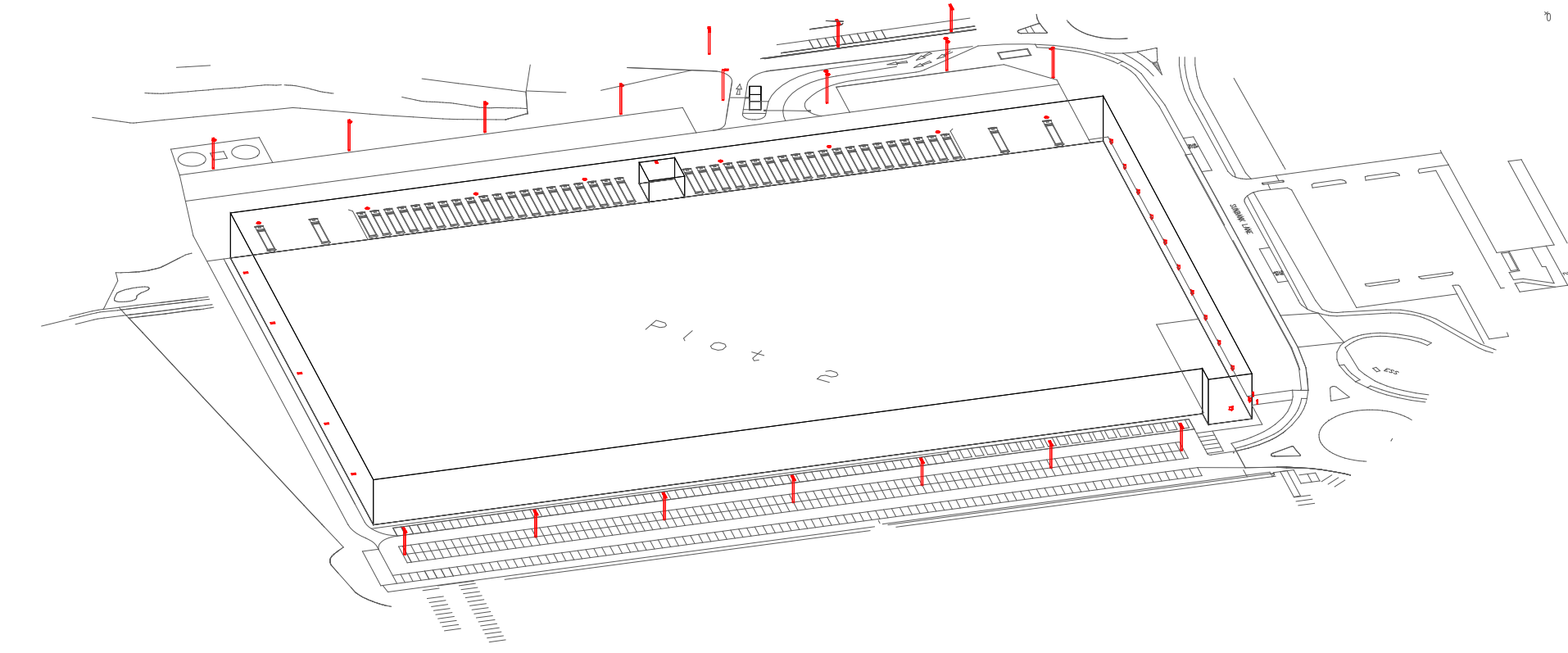
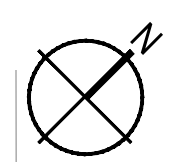
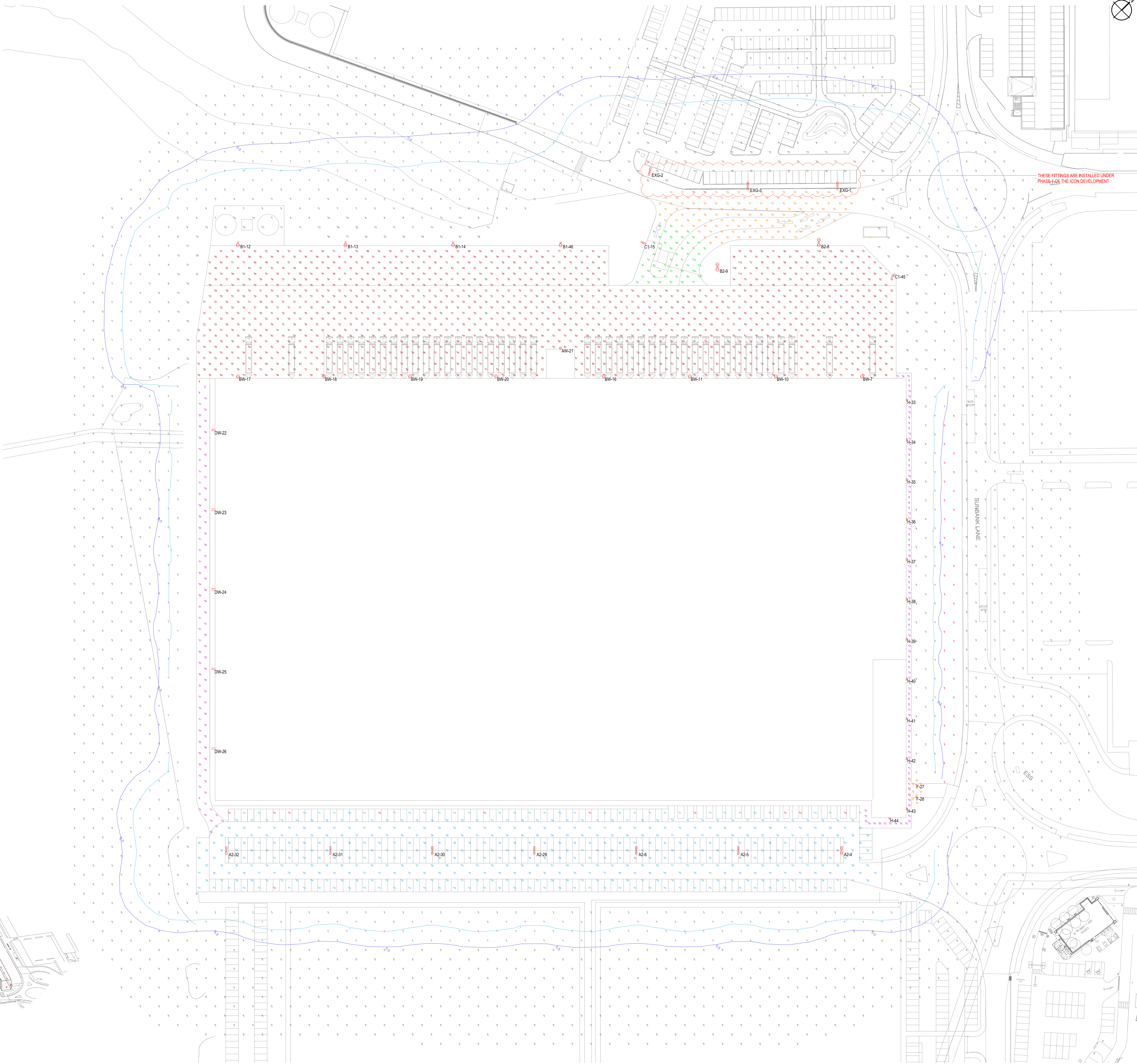


LUMINAIRE SCHEDULE						
Symbol	Label	Qty	Catalog Number	Description	Lamp	Watts
	AW	1	DSX1.2LA164.AY on Wall Bracket at 6m AFLL	D-Series 1 Luminaire	LED C.1600LM-4000K	131
	A2	7	2 x DSX1.2LA164.AY on 6m Column	D-Series 1 Luminaire	LED C.1600LM-4000K	262
	B1	4	1 x HMAO.3L704.FW on 10m Column	HMAO	4000K LED with 70CRI	485
	B2	2	2 x HMAO.3L704.FW on 10m Column	HMAO	4000K LED with 70CRI	970
	BW	8	HMAO.3L704.FW on Wall Bracket at 10m AFLL	HMAO	4000K LED with 70CRI	485
	C1	2	1 x DSX2.2LA364.FW on 10m Column	D-Series 2 Luminaire	LED C.3600LM-4000K	328
	DW	5	FTS.2LA124.NR on Wall Bracket at 10m AFLL	FACTOR SMALL STREET LIGHT	LED C.1200LM-4000K	102
	F	2	PBHB.MENH.4882 662.06	Paletto Menhr H.1050mm 37W Led 4000K		37
	H	12	DEWLA014.NR.C GL at 4m AFLL	Denver Elite Wall	LED C.1000LM - 4000K	12
	EXG	3	APPROX LOCATION OF EXISTING 2 x DSX1.2LA084.AY		LED C.8000LM-4000K	136

STATISTICS				
Description	Symbol	Avg	Min	Min/Avg
Access Road	+	51 lux	20 lux	0.39
Building Entrance ?	+	61 lux	10 lux	0.16
Car Park	+	20 lux	10 lux	0.50
Fire Service Access Road	+	24 lux	6 lux	0.25
Gatehouse	X	59 lux	31 lux	0.53
Service Yard	+	49 lux	20 lux	0.41
Side Access Path	+	13 lux	5 lux	0.38
SPILL	+	2 lux	0 lux	0.00



10m SCALE 1:500



© Engineering Services Consultancy Limited.
This drawing is copyright and must not be reproduced in
part or whole without prior written consent.
Contractors must verify all dimensions on site before
commencing works.
All works shall be coordinated with all other trades.


ISO 9001
REGISTERED FIRM

RESIDUAL RISK REGISTER			
NO.	DESCRIPTION OF HAZARD	CONTROL MEASURES	ACTION BY
1	UNKNOWN BURIED SERVICES AND SERVICES IDENTIFIED IN WRONG LOCATION.	IDENTIFICATION OF EXISTING UNDERGROUND SERVICES (INCLUDING UTILITIES) DRAWINGS AND CAT SCANNING OF GROUND. CAREFUL EXCAVATION, USING SLOT TRENCHES AND CAT SCANNING OF GROUND.	CONTRACTOR

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 PERIMETRY, INCORPORATING LIGHTING GLARE CONTROL TO
PREVENT LIGHT POLLUTION TO SURROUNDING AREAS, AND THAT
ADEQUATE SECURITY LIGHTING IS PROVIDED FOR PUBLIC AND
STAFF SAFETY.

P1	15.05.19	Issued for Planning	CP
Rev.	Date	Details	Initials
Engineering Services Consultancy Ltd Giffen House 19 Ludgate Hill Birmingham B3 1DW			
T: 0121 214 8998 F: 0121 214 8999 W: www.esccuk.com			
Client			



STOFORD

Project Icon Manchester Unit 2		
Drawing Title External Lighting Plan Single Sided Unit		
Purpose PLANNING ISSUE		
Drawn DM	Engineer CP	Approved CP
Project No. 1465	Date May 2019	Scale @ A0 1:500
Drawing No. 1465-ESC-00-ZZ-DR-E-2101 P1		