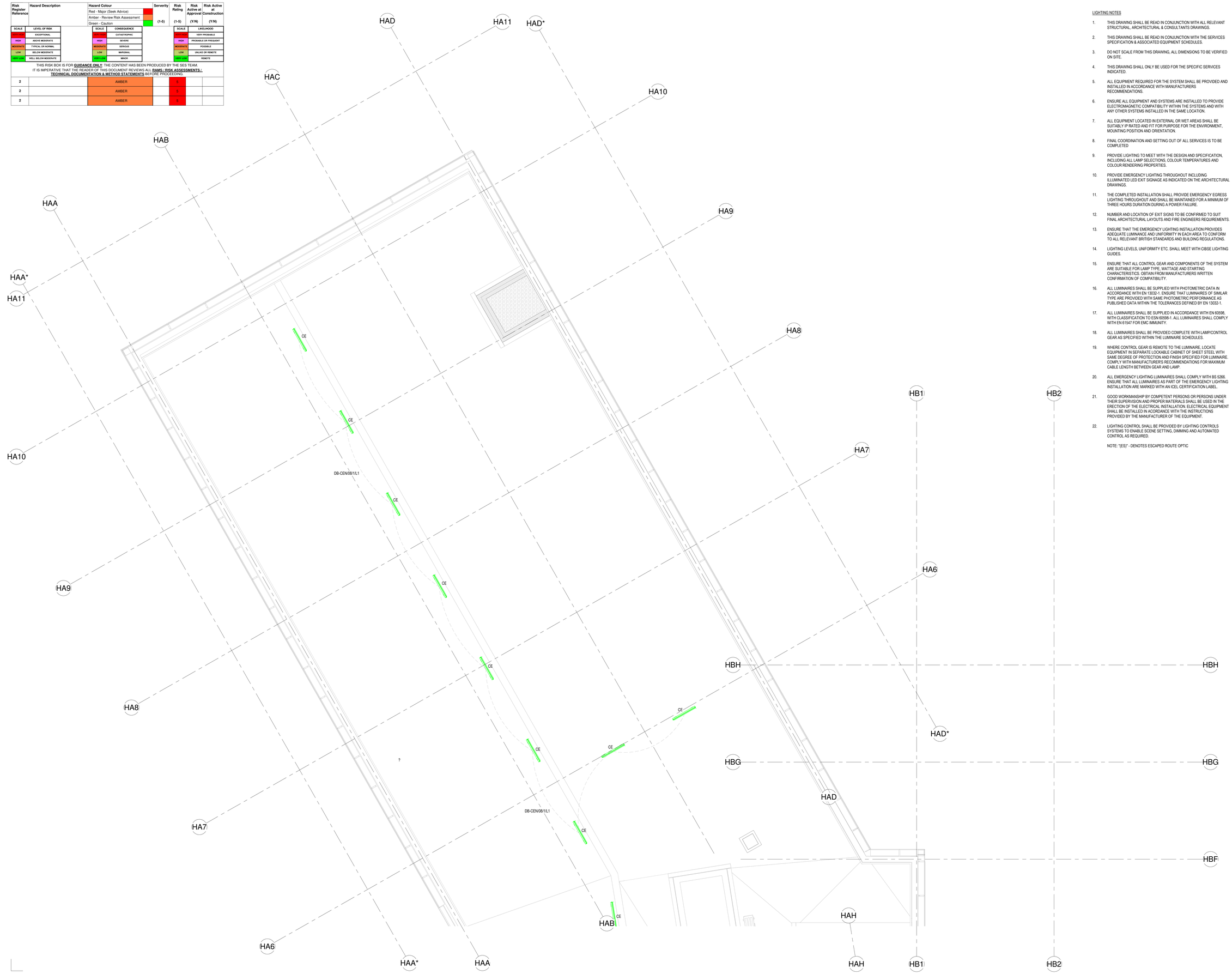
Risk Register Reference	Hazard Description	Hazard Colour	Serverity	Risk Rating	Risk Active at Approval	Risk Active at Construction
		Red - Major (Seek Advice) Amber - Review Risk Assessment Green - Caution	(1-5)	(1-5)	(Y/N)	(Y/N)
2		AMBER	5			
2		AMBER	5			
2		AMBER	5			

SCALE	LEVEL OF RISK
VERY HIGH	EXCEPTIONAL
HIGH	ABOVE MODERATE
MODERATE	TYPICAL OR NORMAL
LOW	BELOW MODERATE
VERY LOW	WELL BELOW MODERATE

SCALE	CONSEQUENCE
VERY HIGH	CATASTROPHIC
HIGH	SEVERE
MODERATE	SERIOUS
LOW	MARGINAL
VERY LOW	MINOR

SCALE	LIKELIHOOD
VERY HIGH	VERY PROBABLE
HIGH	PROBABLE OR FREQUENT
MODERATE	POSSIBLE
LOW	UNLIKE OR REMOTE
VERY LOW	REMOTE

THIS RISK BOX IS FOR **GUIDANCE ONLY**. THE CONTENT HAS BEEN PRODUCED BY THE SES TEAM.
IT IS IMPERATIVE THAT THE READER OF THIS DOCUMENT REVIEWS ALL **RAMS / RISK ASSESSMENTS / TECHNICAL DOCUMENTATION & METHOD STATEMENTS** BEFORE PROCEEDING.



LIGHTING NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL, ARCHITECTURAL & CONSULTANTS DRAWINGS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SERVICES SPECIFICATION & ASSOCIATED EQUIPMENT SCHEDULES.
3. DO NOT SCALE FROM THIS DRAWING, ALL DIMENSIONS TO BE VERIFIED ON SITE.
4. THIS DRAWING SHALL ONLY BE USED FOR THE SPECIFIC SERVICES INDICATED.
5. ALL EQUIPMENT REQUIRED FOR THE SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
6. ENSURE ALL EQUIPMENT AND SYSTEMS ARE INSTALLED TO PROVIDE ELECTROMAGNETIC COMPATIBILITY WITHIN THE SYSTEMS AND WITH ANY OTHER SYSTEMS INSTALLED IN THE SAME LOCATION.
7. ALL EQUIPMENT LOCATED IN EXTERNAL OR WET AREAS SHALL BE SUITABLY IP RATED AND FIT FOR PURPOSE FOR THE ENVIRONMENT, MOUNTING POSITION AND ORIENTATION.
8. FINAL COORDINATION AND SETTING OUT OF ALL SERVICES IS TO BE COMPLETED
9. PROVIDE LIGHTING TO MEET WITH THE DESIGN AND SPECIFICATION, INCLUDING ALL LAMP SELECTIONS, COLOUR TEMPERATURES AND COLOUR RENDERING PROPERTIES.
10. PROVIDE EMERGENCY LIGHTING THROUGHOUT INCLUDING ILLUMINATED LED EXIT SIGNAGE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
11. THE COMPLETED INSTALLATION SHALL PROVIDE EMERGENCY EGRESS LIGHTING THROUGHOUT AND SHALL BE MAINTAINED FOR A MINIMUM OF THREE HOURS DURATION DURING A POWER FAILURE.
12. NUMBER AND LOCATION OF EXIT SIGNS TO BE CONFIRMED TO SUIT FINAL ARCHITECTURAL LAYOUTS AND FIRE ENGINEERS REQUIREMENTS.
13. ENSURE THAT THE EMERGENCY LIGHTING INSTALLATION PROVIDES ADEQUATE LUMINANCE AND UNIFORMITY IN EACH AREA TO CONFORM TO ALL RELEVANT BRITISH STANDARDS AND BUILDING REGULATIONS.
14. LIGHTING LEVELS, UNIFORMITY ETC. SHALL MEET WITH CIBSE LIGHTING GUIDES.
15. ENSURE THAT ALL CONTROL GEAR AND COMPONENTS OF THE SYSTEM ARE SUITABLE FOR LAMP TYPE, WATTAGE AND STARTING CHARACTERISTICS. OBTAIN FROM MANUFACTURERS WRITTEN CONFIRMATION OF COMPATIBILITY.
16. ALL LUMINAIRES SHALL BE SUPPLIED WITH PHOTOMETRIC DATA IN ACCORDANCE WITH EN 13032-1. ENSURE THAT LUMINAIRES OF SIMILAR TYPE ARE PROVIDED WITH SAME PHOTOMETRIC PERFORMANCE AS PUBLISHED DATA WITHIN THE TOLERANCES DEFINED BY EN 13032-1.
17. ALL LUMINAIRES SHALL BE SUPPLIED IN ACCORDANCE WITH EN 60598, WITH CLASSIFICATION TO ESN 60598-1. ALL LUMINAIRES SHALL COMPLY WITH EN 61547 FOR EMC IMMUNITY.
18. ALL LUMINAIRES SHALL BE PROVIDED COMPLETE WITH LAMP/CONTROL GEAR AS SPECIFIED WITHIN THE LUMINAIRE SCHEDULES.
19. WHERE CONTROL GEAR IS REMOTE TO THE LUMINAIRE, LOCATE EQUIPMENT IN SEPARATE LOCKABLE CABINET OF SHEET STEEL WITH SAME DEGREE OF PROTECTION AND FINISH SPECIFIED FOR LUMINAIRE. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CABLE LENGTH BETWEEN GEAR AND LAMP.
20. ALL EMERGENCY LIGHTING LUMINAIRES SHALL COMPLY WITH BS 5266. ENSURE THAT ALL LUMINAIRES AS PART OF THE EMERGENCY LIGHTING INSTALLATION ARE MARKED WITH AN ICEL CERTIFICATION LABEL.
21. GOOD WORKMANSHIP BY COMPETENT PERSONS OR PERSONS UNDER THEIR SUPERVISION AND PROPER MATERIALS SHALL BE USED IN THE ERECTION OF THE ELECTRICAL INSTALLATION. ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER OF THE EQUIPMENT.
22. LIGHTING CONTROL SHALL BE PROVIDED BY LIGHTING CONTROLS SYSTEMS TO ENABLE SCENE SETTING, DIMMING AND AUTOMATED CONTROL AS REQUIRED.

NOTE: "(ES)" - DENOTES ESCAPED ROUTE OPTIC

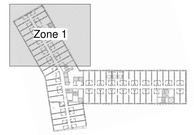
© THIS DRAWING IS CONFIDENTIAL AND MAY NOT BE USED, COPIED OR DISCLOSED TO ANYONE WITHOUT PERMISSION OF SES (ENGINEERING SERVICES)

DO NOT SCALE OFF THIS DRAWING

DRAWING STAGE DEFINITIONS (BSRIA BG6/2014)

STAGE 2	CONCEPT
STAGE 3B	DEVELOPED DESIGN
STAGE 4A	TECHNICAL DESIGN
STAGE 4B	COORDINATED WORKING
STAGE 5	INSTALLATION DRAWING/RECORD

For full definitions refer to BSRIA BG6/2014 Table 1



KEY PLAN

DRAWING REFERENCES
THIS DRAWING HAS BEEN BASED ON INFORMATION TAKEN FROM THE FOLLOWING:-

POPULOUS ARCHITECTURAL MODEL :-
NSE-POP-HT-ZZ-M3-A-001000

BURO HAPPOLD STRUCTURAL MODEL :-
NSE-BHE-HT-ZZ-M3-S-001000

WILLIAM HARE STRUCTURE:-
NSE-WHL-NS-XX-MR-X-000001

FK FASCADE :-
NSE-FKG-HT-ZZ-M3-X-000001

NOTES

1. ALL LEVELS ARE TAKEN FROM LEVEL:-
   LEVEL 09 = 92650
2. LEVELS OF SERVICES ARE TAKEN AS FOLLOWS:-
   BOC: —- = BOTTOM OF CONTAINMENT
   BOD: —- = BOTTOM OF DUCT
   BOZ: —- = BOTTOM OF ZONE
   CL: —- = CENTRE OF PIPE / DUCT
   U/S: —- = UNDERSIDE OF EQUIPMENT
   COH: —- = CENTRE OF HOLE
   BOH: —- = BOTTOM OF HOLE

LIGHTING ABBREVIATIONS (REFER TO LUMINAIRE SCHEDULE FOR EXACT DETAILS):

CLL01	LIGHTFORMS PANEL 30120
CLL04	CHIARA APRF.W.W + LES.27.14.50.D
CLL05	CHIARA MIF3-92718060-BB
IEF/202	Muto V4 Trimless LED Downlights, Hona LED
CE	THORN AQUAFORCE PRO / 96630976
C1E	THORN AQUAFORCE PRO / 96630784
DE	THORN NOVALINE / NOVS S 1900 830 DI HIFI WH
D1E	THORN NOVALINE / NOVS S 1900 830 DI HIFI WH
PIR	SPU.6-CR.RECESSED
EXIT	ELP MXL/ESA10/DA/LFP
EMG03	TRIDONIC EM R2A PRO MM 132
	1 GANG 1 WAY LIGHT SWITCH

Rev	Drawn Date	Description	Drawn By	Checked By
C01	19.05.25	ISSUED FOR CONSTRUCTION	TD	CE
P03	23.04.25	ISSUED FOR REVIEW & COMMENT	TD	CE
P02	03.10.24	STAGE 4i ISSUE UPDATE	MEE	MEE
P01	30.09.24	STAGE 4i ISSUE	MEE	MEE

Scale

Original Size
A0

Status
A5 - FOR AUTHORISATION AS STAGE COMPLETE

Client

Project
MCFC

Title
HOTEL BUILDING LIGHTING LAYOUT
ROOF LEVEL 09
ZONE 1

Drawing No.
NSE-SEE-HT-RF-DR-E-639411

Revision
C01

SES (Engineering Services) Ltd
Think Park
Building Three
Mosley Road
Trafford Park
Manchester
M17 1FQ
(T) 0161 945 5589
(W) www.ses-ltd.co.uk

SES ENGINEERING SERVICES