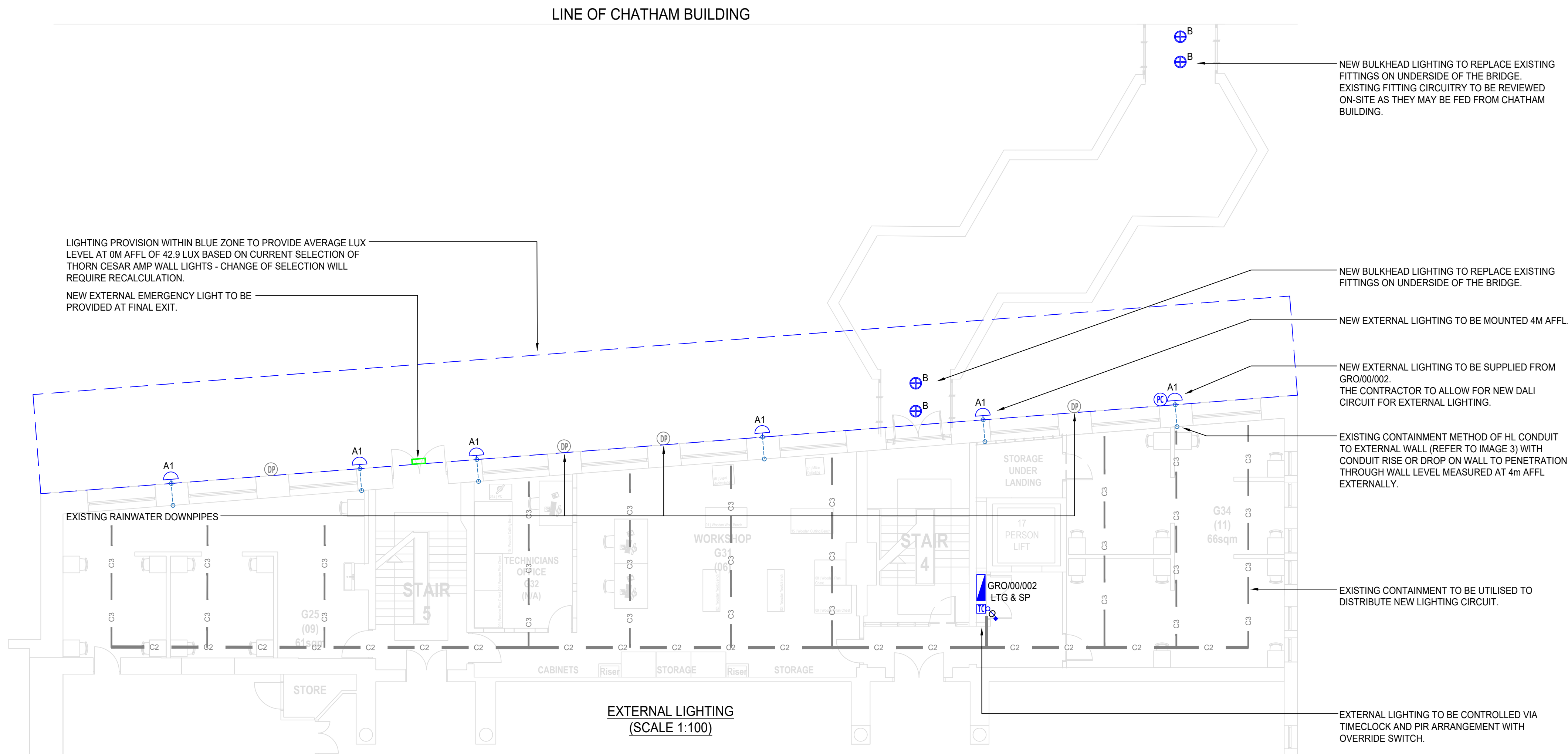




MANCHESTER MET UNIVERSITY
GROSVENOR BUILDING
GROUND FLOOR
SCALE 1:500



RECOMMEND TO CONFIGURE / DIM OUTPUT OF LIGHTS ONSITE TO LOWER THE IMPACT OF LIGHTING HOTSPOTS. NOTE THIS WILL AFFECT THE OUTPUT AND FINAL LIGHTING COVERAGE.

EXTENT OF LIGHTING SPREAD FROM WALL MOUNTED LIGHTS TO EXTERNAL AREA.



IMAGE 1 - EXTERNAL ELEVATION



IMAGE 2 - EXTERNAL ELEVATION
EXISTING FLOODLIGHTS ON BUILDING OPPOSITE



IMAGE 3 - EXTERNAL
INSTALLATION METHOD OF
EXTERNAL SERVICES

General
Calculation algorithm used
Height of evaluation surface
Maintenance factor

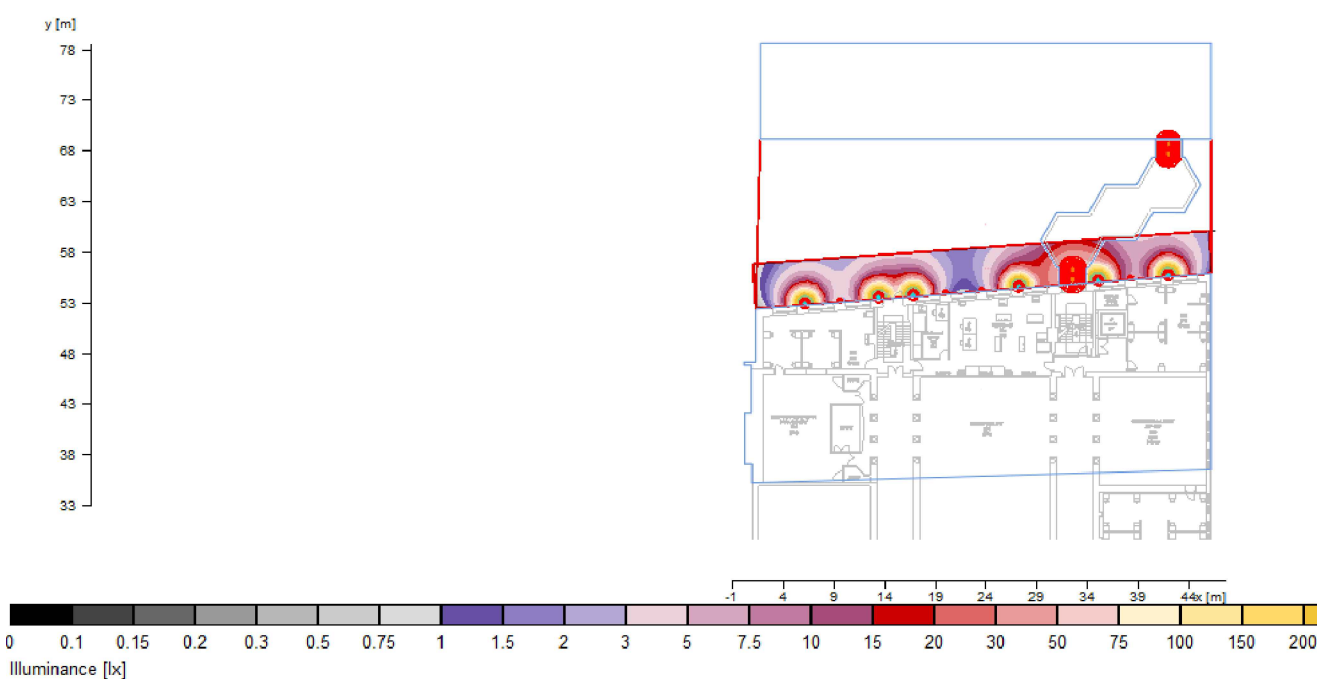
Average indirect fraction
0.00 m
0.80

Total luminous flux
19740 lm
Total power
272.4 W
Total power per area (194.42 m²)
1.40 W/m²

Illuminance
Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U₀
Diversity U₀

E_{av}
E_{min}
E_{max}
E_{min}/E_{max}
E_{min}/E_{max}

17 lx
0 lx
504 lx
1.68 (0.02)
1.1770 (0)



General
Calculation algorithm used
Maintenance factor

Average indirect fraction
0.00

Total lamp luminous flux
17070 lm
Luminaires luminous flux
17070 lm
Total power
239.4 W
Total power per area (194.42 m²)
1.23 W/m² (2.87 W/m²/100lx)

Evaluation area 1
Horizontal
E_{av}
E_{min}
E_{min}/E_{max} (U₀)
E_{min}/E_{max} (U₀)
Position

Reference plane 1.1
42.9 lx
0.4 lx
0.01
0.00
0.00 m

RELUX RESULTS OF PROPOSED LIGHTING



IMAGE OF PROPOSED THORN
CESAR AMP WALL FITTING
FITTING TO BE REVIEWED &
CONFIRMED BY PLANNING &
LISTED BUILDING MANAGER



IMAGE OF PROPOSED THORN
EYEKON FITTING
FITTING TO BE REVIEWED &
CONFIRMED BY PLANNING &
LISTED BUILDING MANAGER



IMAGE OF PROPOSED THORLUX
MINI-8 EMERGENCY BULKHEAD TO
FINAL EXIT



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All scaled dimensions taken from this drawing are to be verified on site.

HEALTH AND SAFETY INFORMATION

Standard hazards and risks may not necessarily be identified on this drawing. The caution symbols that are identified, but not limited to, related to specific hazards and risks associated with this type of project.

Reference should be made to the DRA for further details.

DRA Ref No.	Description
<>	<Insert Description>
It is assumed that all works shall be undertaken by a competent contractor working, where appropriate, to an approved method statement.	

GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATION AND ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICES WITH MECHANICAL SERVICES & STRUCTURE
- THE CONTRACTOR SHALL ENSURE ALL INSTALLATION MEETS ALL RECOMMENDED BUILDING REGULATIONS & GUIDANCE.
- CONTRACTOR TO ALLOW TO UNDERTAKE AN INTRUSIVE SURVEY AS PART OF THEIR WORKS.
- CONTRACTOR TO ALLOW TO STRIP OUT ALL REDUNDANT SERVICES UNLESS NOTED.
- LAYOUTS FOR PRICING PURPOSES ONLY. AS INSTALLED INFORMATION LIMITED.
- CONTRACTOR TO MAKE GOOD OF ALL AFFECTED SPACES AND REINSTATE ANY FIRE STOPPING AFFECTED BY THE PROPOSED WORKS.

LEGEND

- A1
CESAR AMP L DWN
FINAL SELECTION TO BE CONFIRMED BY THORN WITH WIDE BEAM OPTIC
CURRENT CALC BASED ON - 34.4W, 2700K, 2400LM
DALI FUNCTIONALITY FOR IBT CONTROLS COMPLIANCE
- B
THORN EYEKON LED
EYE CR LED1000-830 HF L ANT
11W, 3000K, 890LM
DALI FUNCTIONALITY FOR IBT CONTROLS COMPLIANCE
- PC
PHOTOCCELL
- TC
TIMECLOCK
- OVERRIDE CONTROL
KEYSWITCH
- EXTERNAL FINAL EXIT EMERGENCY LUMINAIRE - THORLUX MINI 8
EMERGENCY LIGHT TO BE CONNECTED / LINKED TO EXISTING MONITORING SYSTEM

REV	DATE	DESCRIPTION	BY	VE
P04	SEPT 25	PRELIMINARY ISSUE - LIGHTING COMMENTS INCORPORATED	AS	TC
P03	SEPT 25	PRELIMINARY ISSUE - LIGHTING COMMENTS INCORPORATED	AS	TC
P02	SEPT 25	PRELIMINARY ISSUE - COMMENTS INCORPORATED	AS	TC
P01	AUG 25	PRELIMINARY ISSUE	AS	TC

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RIBA Stage

STAGE 4

Status

PRELIMINARY

Client

Manchester Metropolitan University

Project

Grosvenor Building Refurbishment
Additional Works

Drawing Title

Electrical Services
EXTERNAL LIGHTING LAYOUT

Scale (A1)	Date	By	Ve
As shown	August 25	AS	TC

Proj ID	Organiser	Functional	Serial	Form	Designer	Number	Subsity	Revision
250813	CPW	XX	ZZ	DT	E	800005	S2	P04

250813-CPW-XX-ZZ-DT-E-800005 S2 P04

CPW Project No. 250813

Linked Files