

NOTES

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.

CONTRACTOR TO REFER TO LEGEND OF SYMBOLS TO UNDERSTAND THE SYMBOLS USED ON THE DRAWING.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF THE ELECTRICAL SERVICES. CONTRACTOR TO REFER TO THE ROOM DATA SHEETS FOR THE ELECTRICAL SERVICES REQUIREMENT IN THE LAB AREAS.

CONTRACTOR TO ALLOW FOR SITE SURVEY TO INSPECT CONDITION OF THE EXISTING ELECTRICAL SYSTEM.

CONTRACTOR TO REVIEW THE RECORD DRAWINGS TO UNDERSTAND THE WORKS PROPOSED.

THE WORKS PROPOSED:

DADO TRUNKING SHOWN IS TO BE A COMPARTMENT TYPE AS SPECIFIED.

WHERE FIXED TO DESKS DADO TRUNKING IS TO BE FIXED WITH SUITABLE BRACKETS.

FOR CIRCUIT CABLE DETAILS REFER TO DISTRIBUTION BOARD SCHEDULES.

ALL LAYOUTS ARE DIAGNOSTIC. ALL PIPEWORK & TRUNKING AROUND PERIMETER TO FOLLOW INTERNAL LINE OF EXTERNAL WALL.

1. SETTING OUT OF VERTICAL TRUNKING/CONDUIT DROPS AND ADAPTABLE BOXES TO GO ON SITE WITH ARCHITECT FOLLOWING DEMOLITION AND EMBANKING WORKS.

2. WITH DATA OUTLET'S TO BE PROVIDED THROUGHOUT IN ACCORDANCE WITH WOL ISD SURVEY DRAWINGS.

3. CIRCUIT DETAILS SHOWN ARE INDICATIVE ONLY.

LEGEND

3. COMPARTMENT DADO TRUNKING (L/POC)

1. Trunking x 16mm x 16mm DEEP ADAPTABLE BOX AT LOW LEVEL FOR POWER & DATA LINK TO TRUNKING BELOW DESK VIA FLEXIBLE CONDUIT. ONE BOX FOR POWER & SEPARATE ONE FOR DATA WITH CONDUIT LINK TO HIGH LEVEL DISTRIBUTION

⊗ DOOR ACCESS SYSTEM CONSISTING OF CARDEX READER, DOOR RELEASE, MAG LOC AND BREAKGLASS

☀ DOA DISABLED TOILET ALARM, SOUNDER BEACON

Ⓡ DOA DISABLED TOILET ALARM, RESET BUTTON

□ DOA DISABLED TOILET ALARM, POWER SUPPLY

⚡ DOA DISABLED TOILET ALARM, PULL CORD

ⓧ FB FLUSH FLOOR BOX WITH 2 x 11mm 1A SOCKET OUTLETS

ⓧ JB FLUSH FLOOR JUNCTION BOX

□ ISOLATOR

9 DATA POINT

ⓧ 1A 11mm SWITCHED SOCKET OUTLET

ⓧ 1A 11mm SWITCHED SOCKET OUTLET

ⓧ 1A CLEANERS SOCKET OUTLET

ⓧ UNSWITCHED PUSHED SPUR

ⓧ SWITCHED PUSHED SPUR

ⓧ FOR FIRE DAMPER AT HIGH LEVEL

ⓧ FOR VENTILATION CONTROL

ⓧ UNIT IN CEILING VOID

□ TT & N DISTRIBUTION BOARD

ⓧ CCTV CAMERA

ⓧ BS4343 SOCKET OUTLET

ⓧ FLEX OUTLET

5 20/01/16 STAGE D ISSUE RC RC DW

4 13/01/16 STAGE D ISSUE RC RC DW


3 06/02/16 AMENDMENTS TO LABS RC RC DW

2 20/01/15 STAGE E TENDER ADDENDUM ONE RC DT DT

1 17/12/14 STAGE E TENDER ISSUE RC DT DT

Rev Date Description Ck App

STAGE D



WSP

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Client: UNIVERSITY
COLLEGE LONDON

Site/Project: KLB Masterplan Refurbishment Project
(PS00044)

Drawn: RW

Checked: RC

Approved: DT

Designed: RC

Scale: 1:50

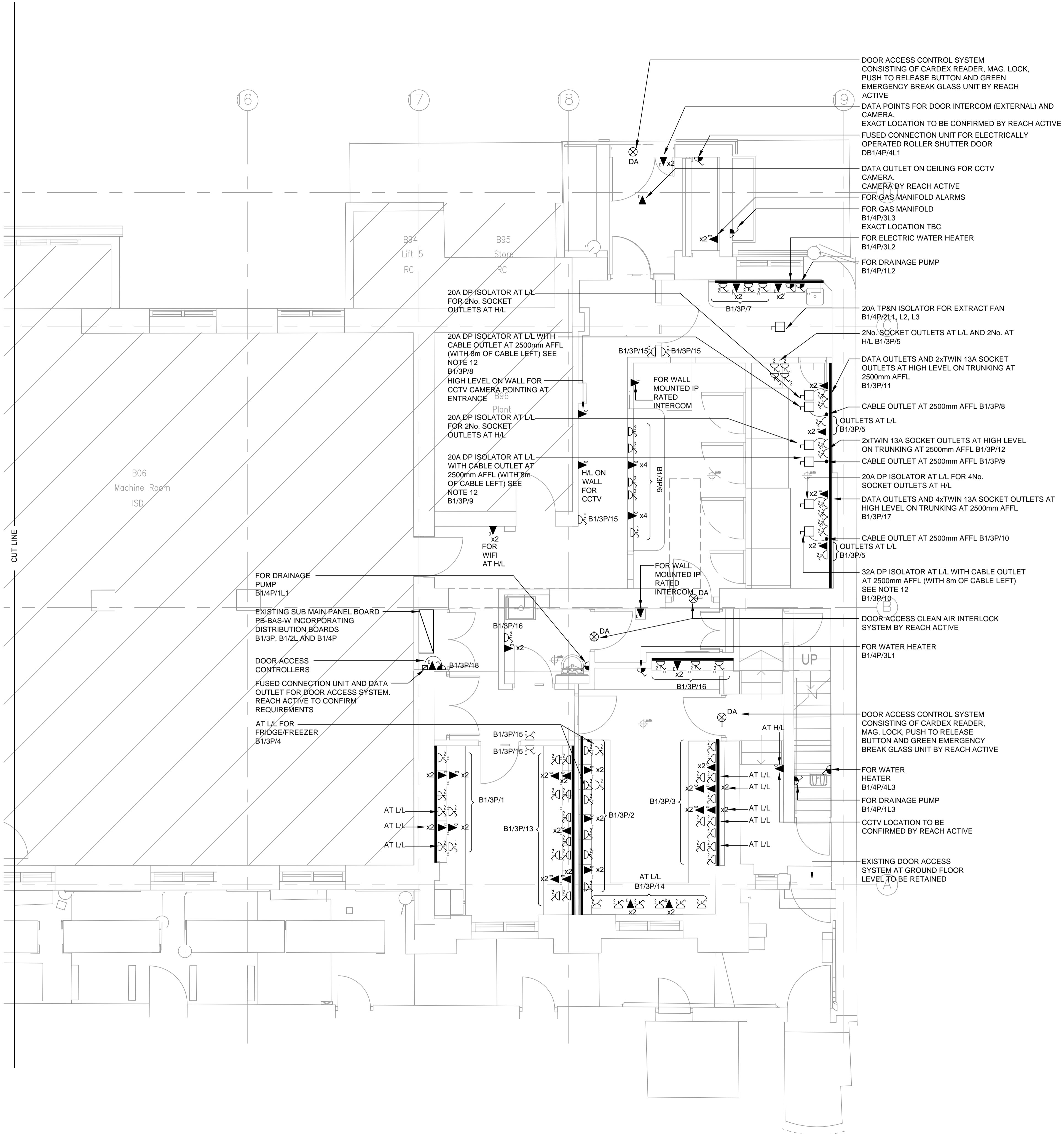
A1 Sheet: 2 of 3

Project Number: 3512445M-BBG

Drawing Name: L(62)-B1-02

Revision: 5

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LEGEND

- 3 COMPARTMENT DADO TRUNKING (UPVC)
150mm x 150mm x 50mm DEEP ADAPTABLE BOX AT LOW LEVEL
FOR POWER & DATA LINK TO TRUNKING BELOW DESK VIA
FLEXIBLE CONDUIT. ONE BOX FOR POWER & SEPARATE ONE
FOR DATA WITH CONDUIT LINK TO HIGH LEVEL DISTRIBUTION
- DA DOOR ACCESS SYSTEM CONSISTING OF CARDEX
READER, DOOR RELEASE, MAG LOC AND BREAKGLASS
- DA DISABLED TOILET ALARM - SOUNDER BEACON
- DA DISABLED TOILET ALARM - RESET BUTTON
- DA DISABLED TOILET ALARM - POWER SUPPLY
- DA DISABLED TOILET ALARM - PULL CORD
- FB FLUSH FLOOR BOX WITH 2 x TWIN 13A SOCKET OUTLETS
- JB FLUSH FLOOR JUNCTION BOX
- ISOLATOR
- DATA POINT
- 13A TWIN SWITCHED SOCKET OUTLET
- 13A CLEANERS SOCKET OUTLET
- UNSWITCHED FUSED SPUR
- SWITCHED FUSED SPUR
- FD FOR FIRE DAMPER AT HIGH LEVEL
- CVS FOR VENTILATION CONTROL
UNIT IN CEILING VOID
- TP & N DISTRIBUTION BOARD
- CCTV CAMERA
- BS4343 SOCKET OUTLET
- FLEX OUTLET

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THE WORKS PROPOSED.
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- FOR CIRCUIT CABLE DETAILS REFER TO DISTRIBUTION BOARD
SCHEDULES.
- ALL LAYOUTS ARE DIAGRAMATIC. ALL PIPEWORK & TRUNKING
AROUND PERIMETER TO FOLLOW INTERNAL LINE OF EXTERNAL
WALL.
- SETTING OUT OF VERTICAL TRUNKING/CONDUIT DROPS AND
ADAPTABLE BOXES TBA ON SITE WITH ARCHITECT FOLLOWING
DEMOLITION AND ENABLING WORKS.
- WIFI DATA OUTLETS TO BE PROVIDED THROUGHOUT IN
ACCORDANCE WITH WCL ISD SURVEY DRAWINGS.
- CIRCUIT DETAILS SHOWN ARE INDICATIVE ONLY.
- MECHANICAL PLANT FOR GMP LAB LOCATED IN FIRST FLOOR
PLANTROOM. BMS CONNECTIONS MADE IN THIS AREA.
- WIRING ACCESSORIES IN RADIO CHEMISTRY LAB TO BE FLUSH
METAL PLATE TYPE. WITHIN SURFACE AREAS SURFACE METALCLAD
WIRING ACCESSORIES TO BE USED. WHITE PLASTIC TYPE
ELSEWHERE. WIRING ACCESSORY BACK BOXES WITHIN RADIO
CHEMISTRY LAB TO BE SUITABLY SEALED.

8	13.01.16	STAGE D ISSUE	RC	DW
7	19.06.15	NOTE 14 ADDED	RC	DW
6	15.06.15	ADDITIONAL DATA POINTS ADDED	RC	DW
5	12.06.15	MINOR CHANGES	RC	DW
4	26.05.15	ARCHITECTURAL UPDATE TO GMP LAB	RC	DW
3	13.02.15	STAGE E TENDER ADDENDUM TWO	RC	DT
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

WSP

PARSONS

BRINCKERHOFF

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Tel: 44-(0)1483-528400
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Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

Title:

BASEMENT
SMALL POWER & DATA LAYOUT
SHEET 3 OF 3

Drawn: RW

Checked: RC

Designed: RC

Approved: DT

Date: 13/01/2016

Scale: 1:50

A1

Sheet: 3 of 3

Project Number:

Drawing Number:

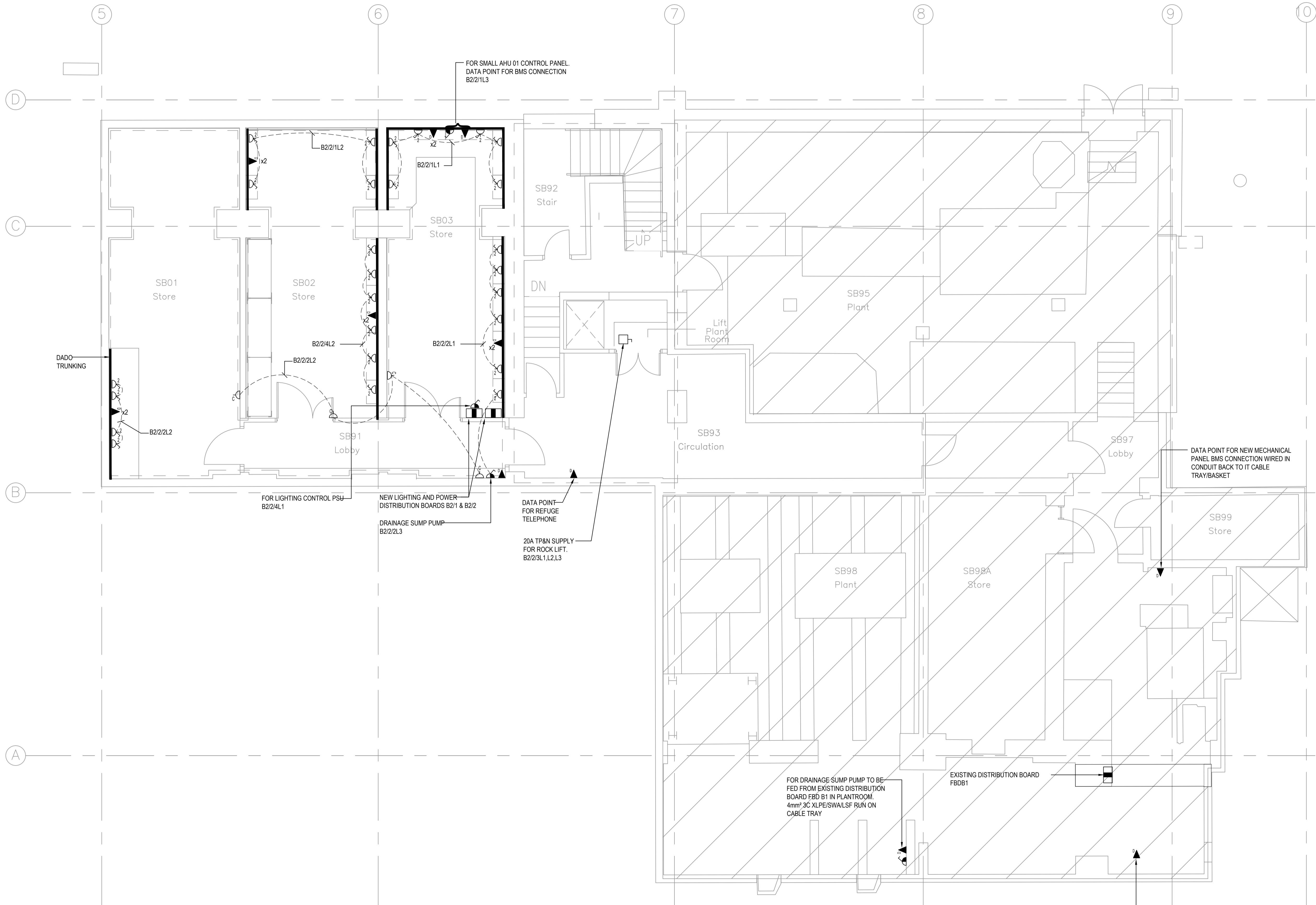
Revision:

3512445M-BBG

L(62)-B1-03

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 - DA DISABLED TOILET ALARM - RESET BUTTON
 - DA DISABLED TOILET ALARM - POWER SUPPLY
 - DA DISABLED TOILET ALARM - PULL CORD
 - FB FLUSH FLOOR BOX WITH 2 x TWIN 13A SOCKET OUTLETS
 - JB FLUSH FLOOR JUNCTION BOX
 - ISOLATOR
 - DATA POINT
 - 13A TWIN SWITCHED SOCKET OUTLET
 - 13A CLEANERS SOCKET OUTLET
 - UNSWITCHED FUSED SPUR
 - SWITCHED FUSED SPUR
 - FD FOR FIRE DAMPER AT HIGH LEVEL
 - CVS FOR VENTILATION CONTROL UNIT IN CEILING VOID
 - TP & N DISTRIBUTION BOARD
 - CCTV CAMERA
 - BS4343 SOCKET OUTLET
 - FLEX OUTLET

4	13.01.16	STAGE D ISSUE	RC	DW
3	05.02.15	AMENDMENTS TO LABS	RC	DT
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

WSP

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Client:
UNIVERSITY
COLLEGE LONDON

Site/Project:
KLB Masterplan Refurbishment Project
(PSO0044)

Title:
SUB BASEMENT
SMALL POWER & DATA LAYOUT
SHEET 1 OF 1

Drawn: RW

Checked: RC

Designed: RC

Approved: DT

Date: 13/01/2016

Scale: 1:50

A1

Sheet: 1 of 1

Project Number:

Drawing Number:

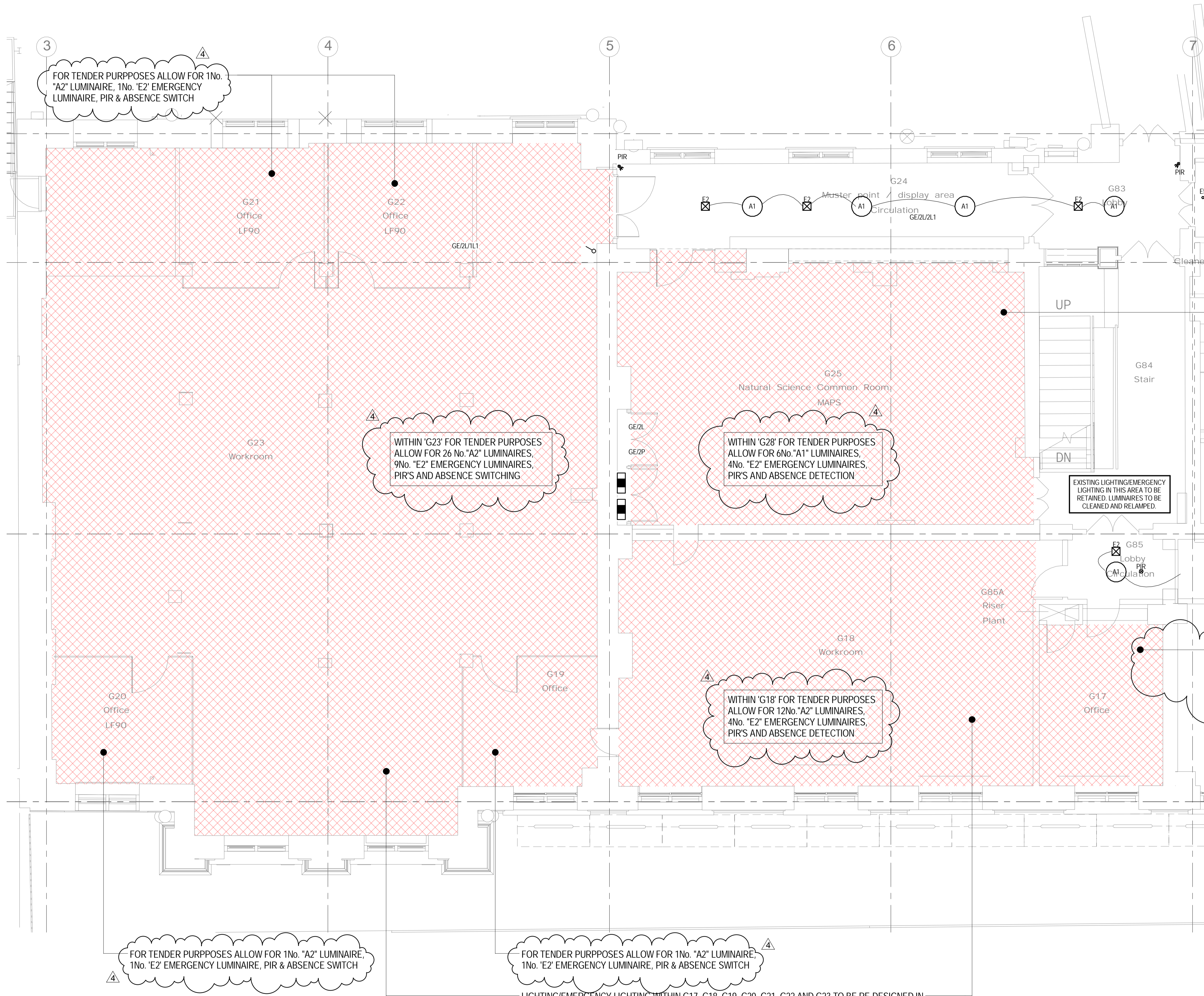
Revision:

3512445M-BBG

L(62)-B2-01

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NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
2. CONTRACTOR TO REFER TO LUMINAIRE SCHEDULE FOR DETAILS OF THE LUMINAIRE USED ON THE DRAWING. LIGHTING ACCESSORIES IN THE SHOWER AREAS TO BE IP65 RATED.
3. WHEREVER POSSIBLE, THE CONTRACTOR SHALL USE THE HIGH LEVEL ELECTRICAL SERVICES TO INSTALL THE LIGHTING ACCESSORIES.
4. CONTRACTOR TO ALLOW FOR THE STANDARD RIGID PLASTIC ESCAPE SIGNS ON THE ESCAPE ROUTES, AS PER EMERGENCY LIGHTING - UCL GENERAL DESIGN GUIDANCE.
5. CONTRACTOR TO REFER TO THE LABORATORY ROOM DATA SHEETS FOR THE LIGHTING CONTROL REQUIREMENTS.
6. CONTRACTOR IS TO COMMISSION LIGHTING CONTROL MANUFACTURER TO SURVEY SITE AND CONFIRM COMPONENT TYPES, QUANTITY AND INSPECT CONDITION OF THE EXISTING CONTROL SYSTEM.
7. CONTRACTOR TO COMMISSION CONTROL MANUFACTURER TO DEVELOP DRAWINGS AND DETAILS TO PROVIDE CONSTRUCTION DRAWINGS FOR ALL AREAS.
8. CONTRACTOR TO ENSURE THAT LIGHTING CONTROL SPECIALIST HAS REVIEWED THE PIR LAYOUT TO PROVIDE TOTAL COVERAGE TO ALL AREAS.
9. THE LIGHTING CONTROL SYSTEM TO BE DESIGNED IN CONJUNCTION WITH EX-OR UTILISING THEIR MLS SYSTEM WITH CONTROLS AS DESCRIBED WITHIN THE UCL M&E DESIGN BRIEF.
10. CONTRACTOR TO REVIEW THE RECORD DRAWINGS TO UNDERSTAND THE WORKS PROPOSED.
11. WHENEVER POSSIBLE EMERGENCY LUMINAIRE AND PIR'S SHOULD BE ALIGNED CENTRALLY BETWEEN PRIMARY LUMINAIRE OR BETWEEN PRIMARY LUMINAIRE AND ADJACENT WALLS OR BEAMS.
12. THE COMPLETE LIGHTING AND EMERGENCY LIGHTING DESIGN, INSTALLATION AND COMMISSIONING TO BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE UCL M&E DESIGN BRIEF.

LEGEND

- PIR DIRECTIONAL PIR (WALL MOUNTED)
- PIR PIR (CEILING MOUNTED)
- LOCAL SWITCH
- DIMMING SWITCH
- 2 WAY SWITCH
- LCM LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRE REFER TO M&E SPECIFICATION APPENDIX 'C'

LIGHTING/EMERGENCY LIGHTING WITHIN G23 TO BE RE-DESIGNED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS USING TYPE "A1" LUMINAIRE AND TYPE "E2" EMERGENCY LUMINAIRE. LIGHTING LEVELS TO BE IN ACCORDANCE WITH THE UCL M&E DESIGN BRIEF

EXISTING LIGHTING/EMERGENCY LIGHTING IN THIS AREA TO BE RETAINED. LUMINAIRE TO BE CLEANED AND RELAMPED.

WITHIN 'G17' FOR TENDER PURPOSES ALLOW FOR 2No. "A2" LUMINAIRE, 1No. "E2" EMERGENCY LUMINAIRE, PIR'S AND ABSENCE DETECTION

WITHIN 'G18' FOR TENDER PURPOSES ALLOW FOR 12No. "A2" LUMINAIRE, 4No. "E2" EMERGENCY LUMINAIRE, PIR'S AND ABSENCE DETECTION

WITHIN 'G28' FOR TENDER PURPOSES ALLOW FOR 6No. "A1" LUMINAIRE, 4No. "E2" EMERGENCY LUMINAIRE, PIR'S AND ABSENCE DETECTION

WITHIN 'G23' FOR TENDER PURPOSES ALLOW FOR 26 No. "A2" LUMINAIRE, 9No. "E2" EMERGENCY LUMINAIRE, PIR'S AND ABSENCE SWITCHING

FOR TENDER PURPOSES ALLOW FOR 1No. "A2" LUMINAIRE, 1No. "E2" EMERGENCY LUMINAIRE, PIR & ABSENCE SWITCH

FOR TENDER PURPOSES ALLOW FOR 1No. "A2" LUMINAIRE, 1No. "E2" EMERGENCY LUMINAIRE, PIR & ABSENCE SWITCH

FOR TENDER PURPOSES ALLOW FOR 1No. "A2" LUMINAIRE, 1No. "E2" EMERGENCY LUMINAIRE, PIR & ABSENCE SWITCH

LIGHTING/EMERGENCY LIGHTING WITHIN G17, G18, G19, G20, G21, G22 AND G23 TO BE RE-DESIGNED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS USING TYPE "A2" LUMINAIRE AND TYPE "E2" EMERGENCY LUMINAIRE. LIGHTING LEVELS TO BE IN ACCORDANCE WITH THE UCL M&E DESIGN BRIEF

4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ
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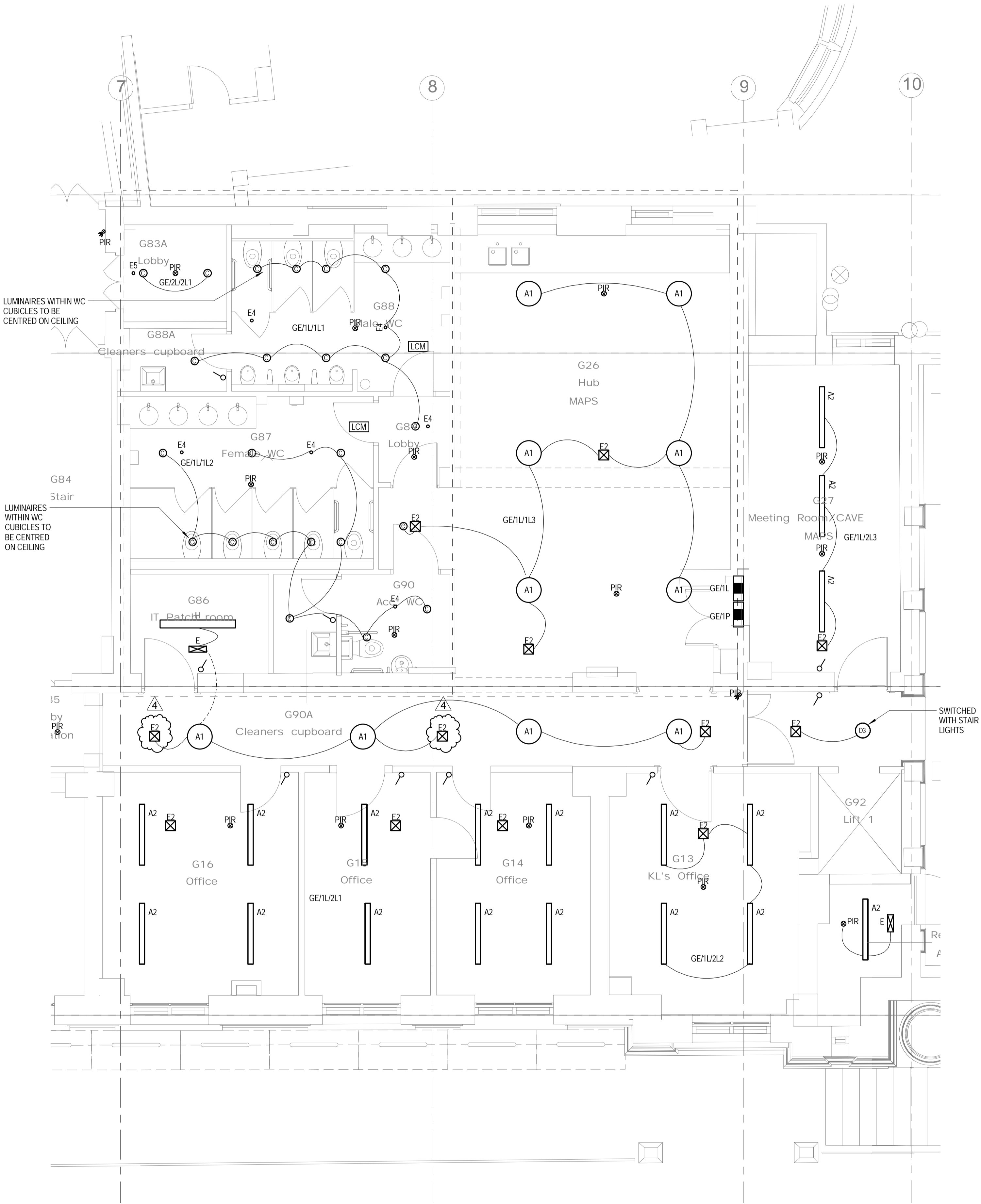
Client:
UNIVERSITY
COLLEGE LONDON

Site/Project:
KLB Masterplan Refurbishment Project
(PSO0044)

Title:
Ground Floor
Lighting Layout

Sheet 1 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-00-01
Revision: 4	



NOTES

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LEGEND

- DIRECTIONAL PIR (WALL MOUNTED)
- PIR (CEILING MOUNTED)
- LOCAL SWITCH
- DIMMING SWITCH
- 2 WAY SWITCH
- LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

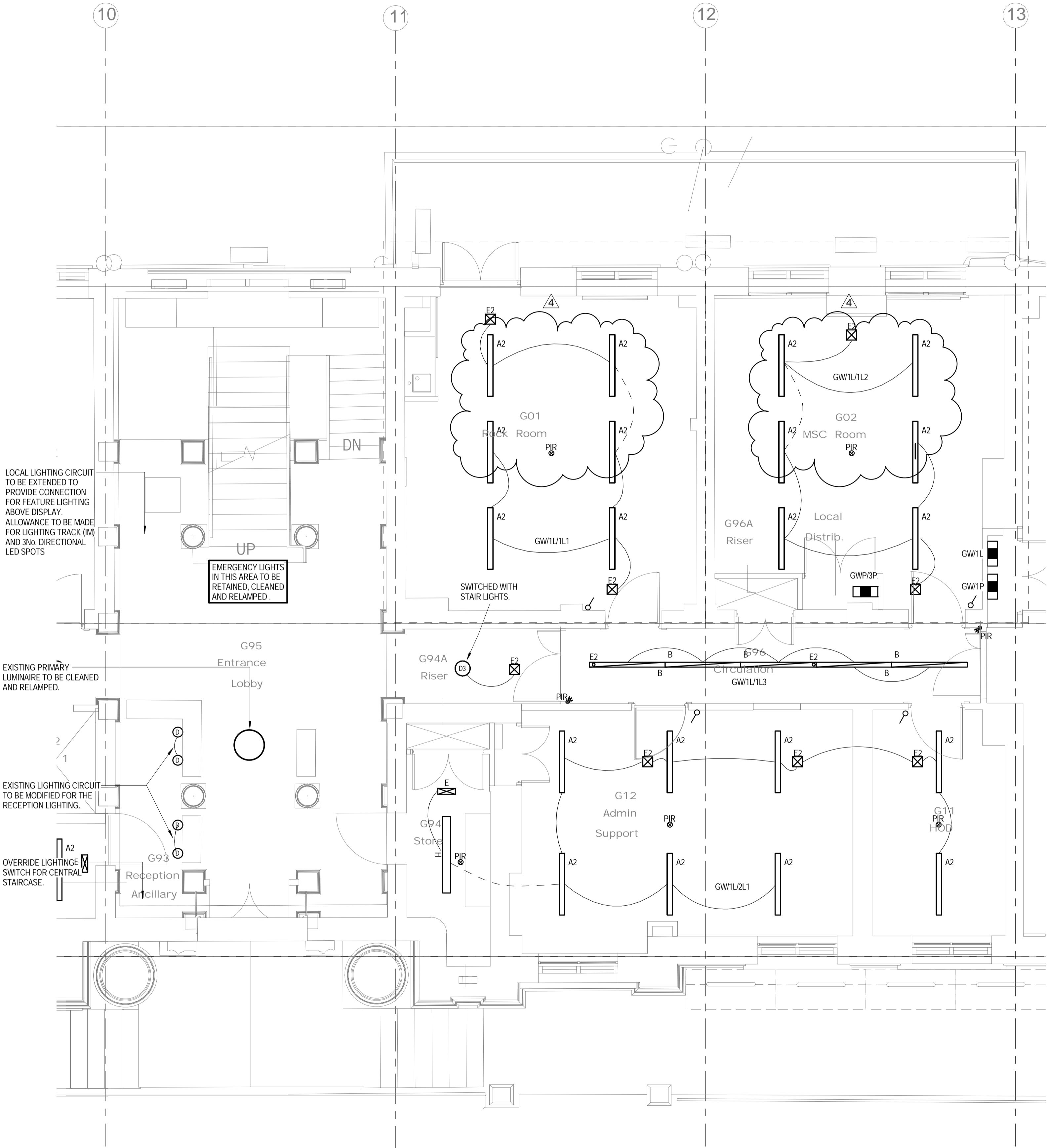
Title:

Ground Floor
Lighting Layout

Sheet 2 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-00-02
	Revision: 4

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NOTES

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LEGEND

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4	20.01.16	STAGE D ISSUE	RC	DW
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2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

WSP

Westbrook Mills

Godalming

Surrey GU7 2AZ

PARSONS

BRINCKERHOFF

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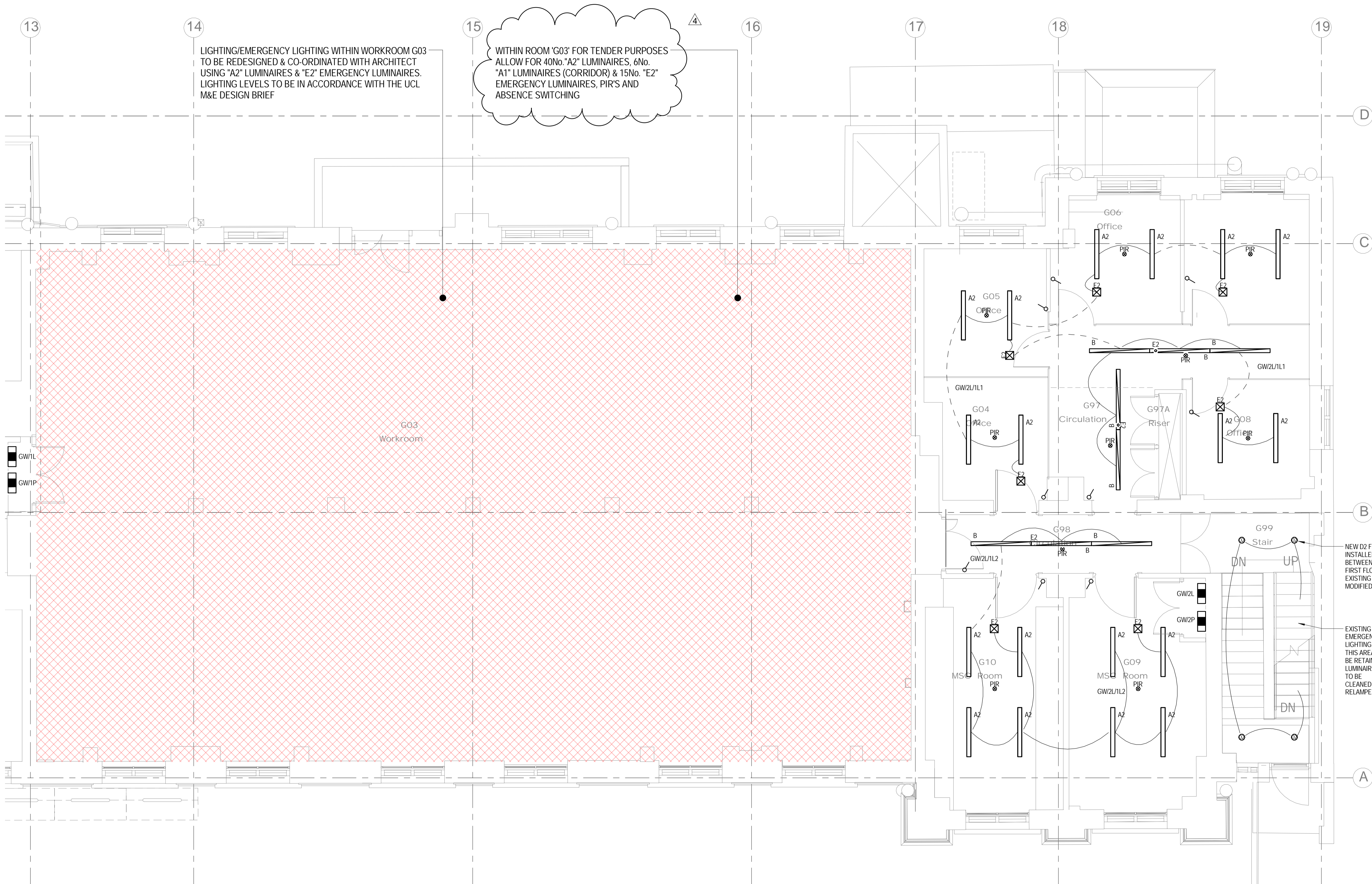
Client: UNIVERSITY COLLEGE LONDON

Site/Project: KLB Masterplan Refurbishment Project (PSO0044)

Title: Ground Floor Lighting Layout

Sheet 3 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-00-03
	Revision: 4



NOTES

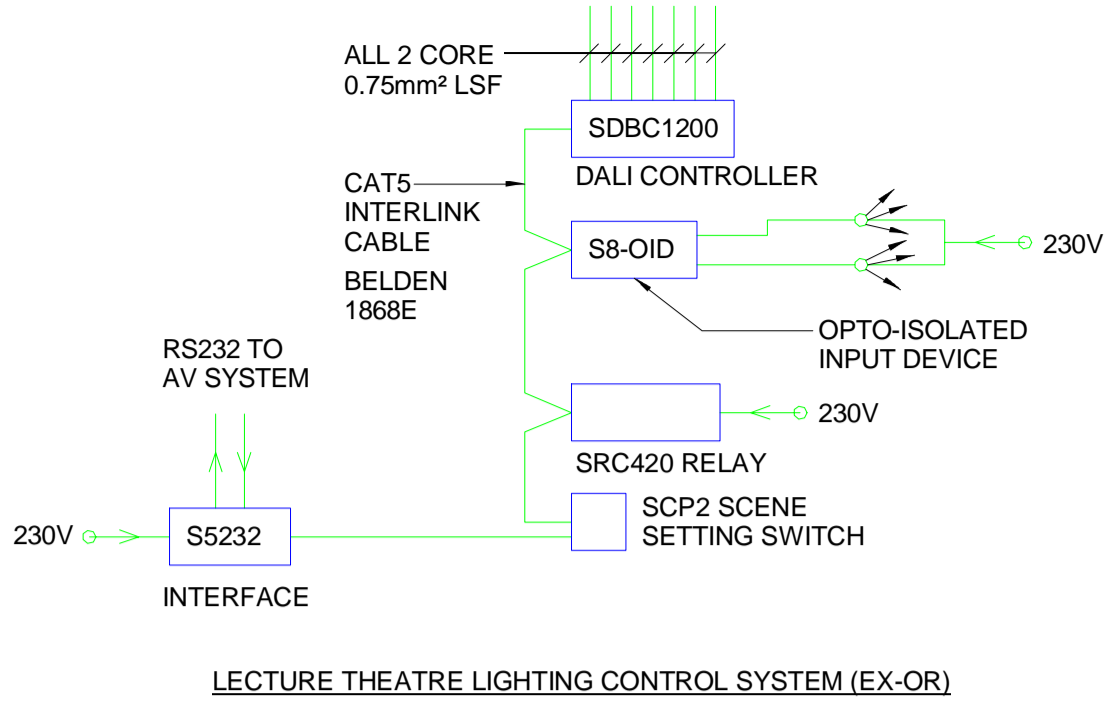
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- DIMMING SWITCH
- 2 WAY SWITCH
- LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

Rev	Date	Description	Chk	App
4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT

STAGE D			
Westbrook Mills Godalming Surrey GU7 2AZ			
Tel: 44-(0)1483-528400 Fax: 44-(0)1483-528989			
Client: UNIVERSITY COLLEGE LONDON			
Site/Project: KLB Masterplan Refurbishment Project (PSO0044)			
Title: Ground Floor Lighting Layout Sheet 4 of 4			
Drawn: DM		Checked: RC	
Designed: RS		Approved: DT	
Date: 29/10/14	Scale: 1 : 50	A1	Sheet:
Project Number:		Drawing Number:	Revision:
3512445M-BBG		L(63)-00-04	4
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NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
2. CONTRACTOR TO REFER TO LUMINAIRE SCHEDULE FOR DETAILS OF THE LUMINAIRES USED ON THE DRAWING. LIGHTING ACCESSORIES IN THE SHOWER AREAS TO BE IP65 RATED.
3. WHEREVER POSSIBLE, THE CONTRACTOR SHALL USE THE HIGH LEVEL ELECTRICAL SERVICES TO INSTALL THE LIGHTING ACCESSORIES.
4. CONTRACTOR TO ALLOW FOR THE STANDARD RIGID PLASTIC ESCAPE SIGNS ON THE ESCAPE ROUTES, AS PER EMERGENCY LIGHTING - UCL GENERAL DESIGN GUIDANCE.
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6. CONTRACTOR IS TO COMMISSION LIGHTING CONTROL MANUFACTURER TO SURVEY SITE AND CONFIRM COMPONENT TYPES, QUANTITY AND INSPECT CONDITION OF THE EXISTING CONTROL SYSTEM.
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10. CONTRACTOR TO REVIEW THE RECORD DRAWINGS TO UNDERSTAND THE WORKS PROPOSED.
11. WHENEVER POSSIBLE EMERGENCY LUMINAIRES AND PIR'S SHOULD BE ALIGNED CENTRALLY BETWEEN PRIMARY LUMINAIRES OR BETWEEN PRIMARY LUMINAIRES AND ADJACENT WALLS OR BEAMS.
12. THE COMPLETE LIGHTING AND EMERGENCY LIGHTING DESIGN, INSTALLATION AND COMMISSIONING TO BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE UCL M&E DESIGN BRIEF.

LEGEND

- PIR (WALL MOUNTED)
- PIR (CEILING MOUNTED)
- LOCAL SWITCH
- DIMMING SWITCH
- 2 WAY SWITCH

LCM LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

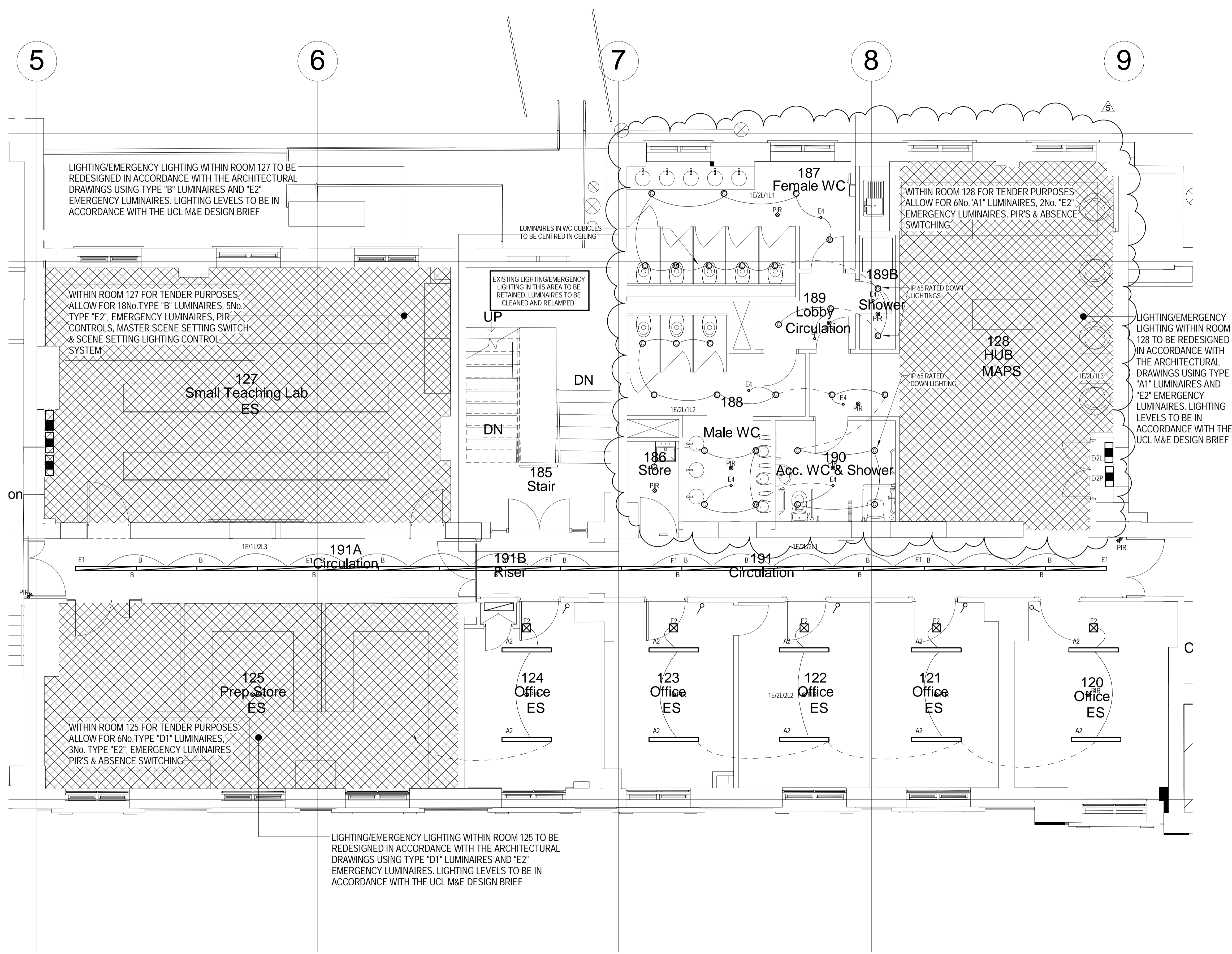
KLB Masterplan Refurbishment Project
(PSO0044)

Title:

First Floor
Lighting Layout

Sheet 1 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(63)-01-01
	Revision: 4



- NOTES
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
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- LEGEND
- DIRECTIONAL PIR (WALL MOUNTED)
 - PIR (CEILING MOUNTED)
 - LOCAL SWITCH
 - DIMMING SWITCH
 - 2 WAY SWITCH
 - LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRE REFER TO M&E SPECIFICATION APPENDIX 'C'

5	07.04.16	STAGE D ISSUE	RB	DW
4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

Title:

First Floor
Lighting Layout

Sheet 2 of 4

Drawn: DM

Checked: RC

Designed: RS

Approved: DT

Date: 29/10/14

Scale: 1 : 50

A1

Sheet:

Project Number:

Drawing Number:

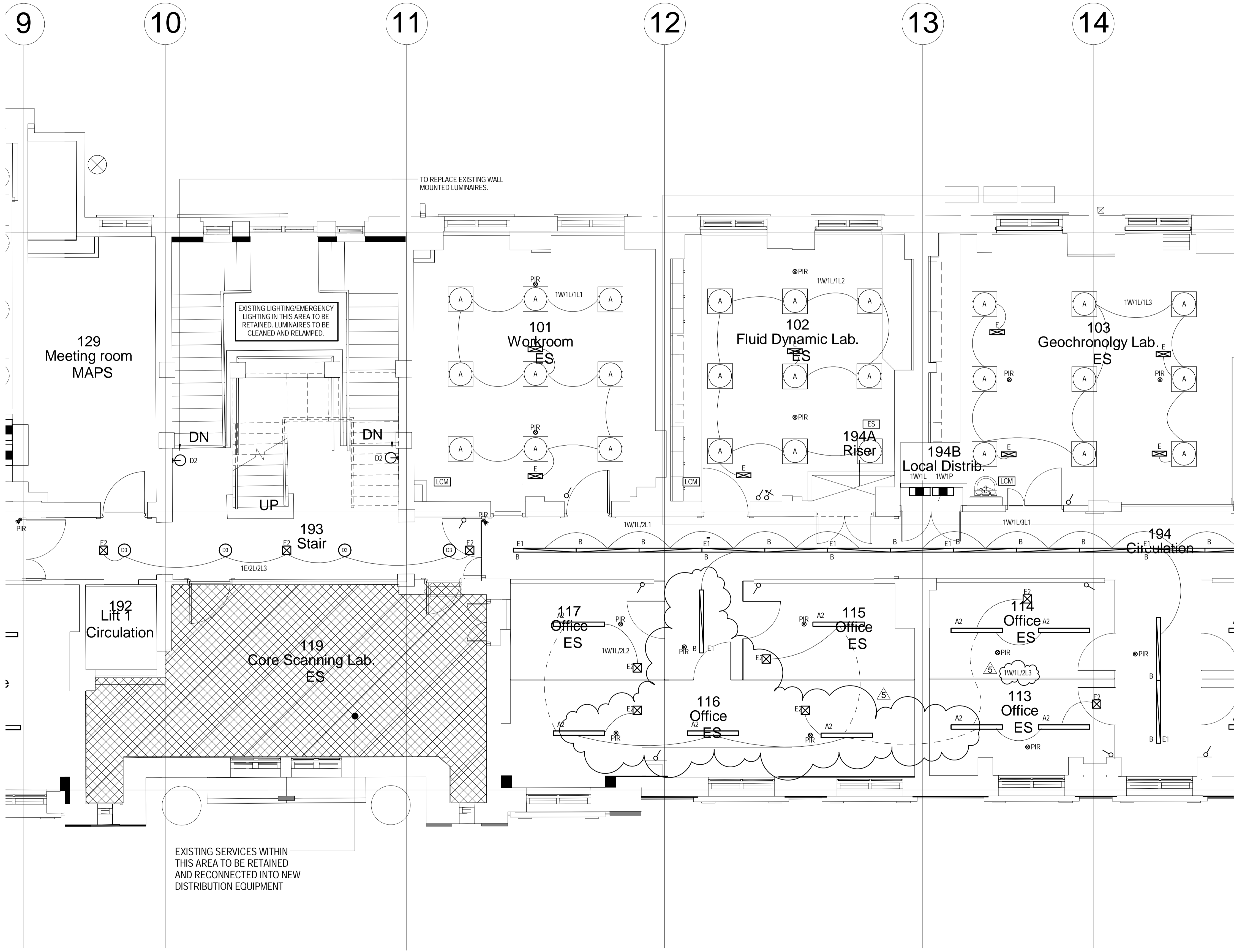
Revision:

3512445M-BBG

L(63)-01-02

5

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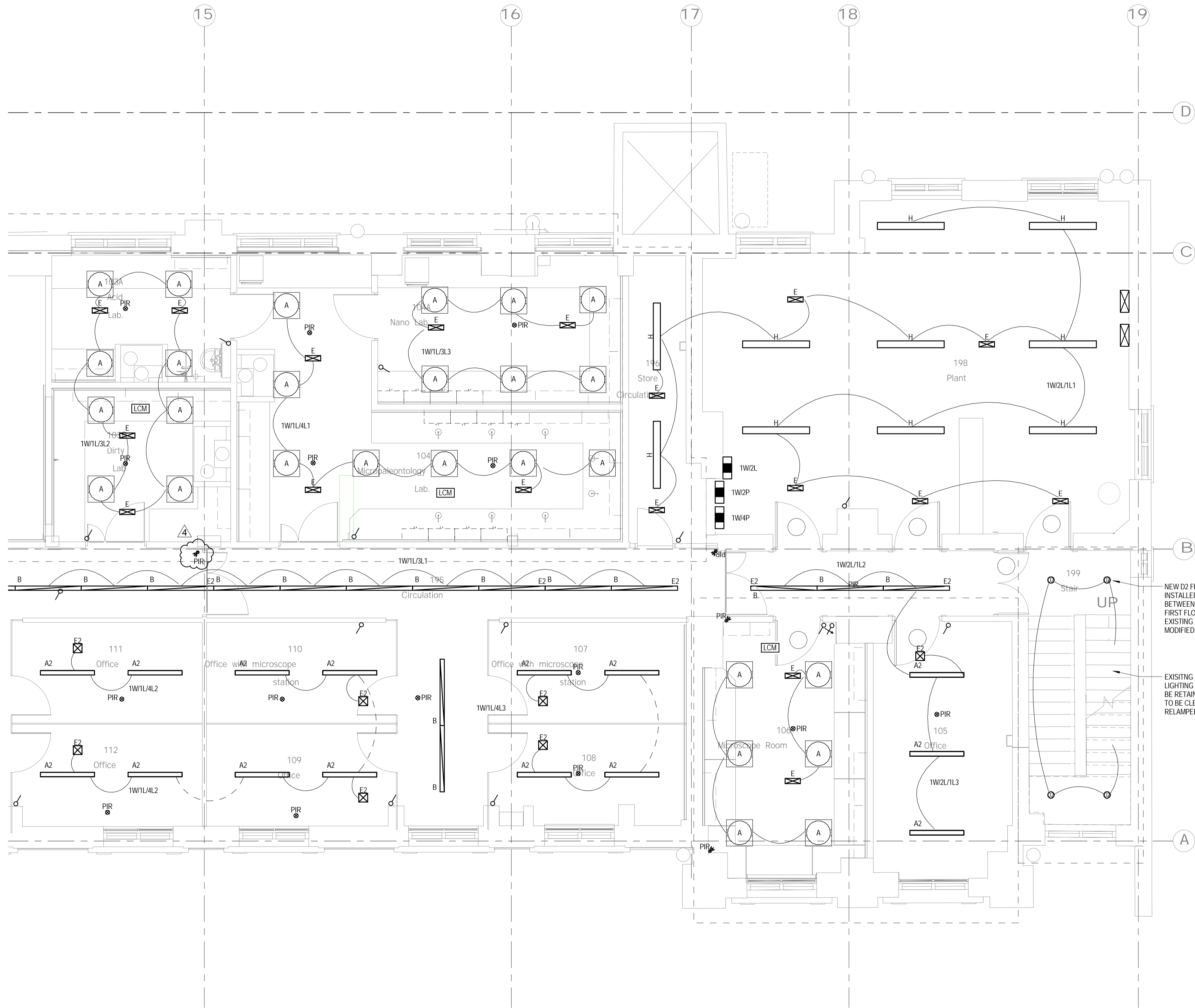


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4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D		
Westbrook Mills Godalming Surrey GU7 2AZ		
Client: UNIVERSITY COLLEGE LONDON		
Site/Project: KLB Masterplan Refurbishment Project (PSO0044)		
Title: First Floor Lighting Layout		
Sheet 3 of 4		
Drawn: DM	Checked: RC	
Designed: RS	Approved: DT	
Date: 29/10/14	Scale: 1 : 50	A1 Sheet:
Project Number:	Drawing Number:	Revision:
3512445M-BBG	L(63)-01-03	5
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NEW D2 FITTINGS TO BE INSTALLED ON STAIRCASE BETWEEN BASEMENT AND FIRST FLOOR LEVEL. EXISTING WIRING TO BE MODIFIED

EXISTING EMERGENCY LIGHTING IN THIS AREA TO BE RETAINED. LUMINAIRES TO BE CLEANED AND RELAMPED.

NOTES

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LEGEND

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- PIR (CEILING MOUNTED)
- LOCAL SWITCH
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4	20.01.16	STAGE D ISSUE	RC	DW
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2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

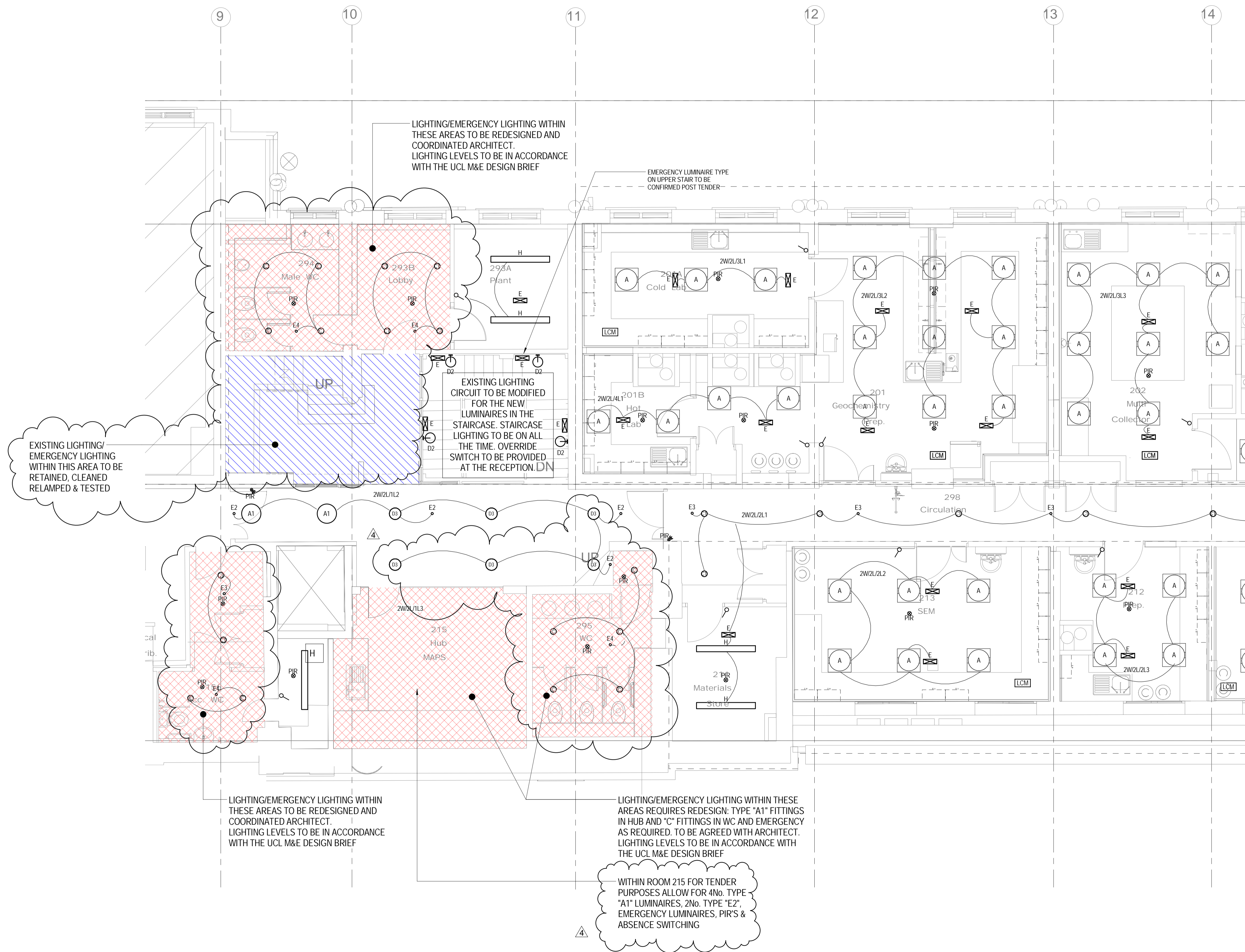


Client: UNIVERSITY COLLEGE LONDON

Site/Project: KLB Masterplan Refurbishment Project (PSO0044)

Title: First Floor Lighting Layout
Sheet 4 of 4

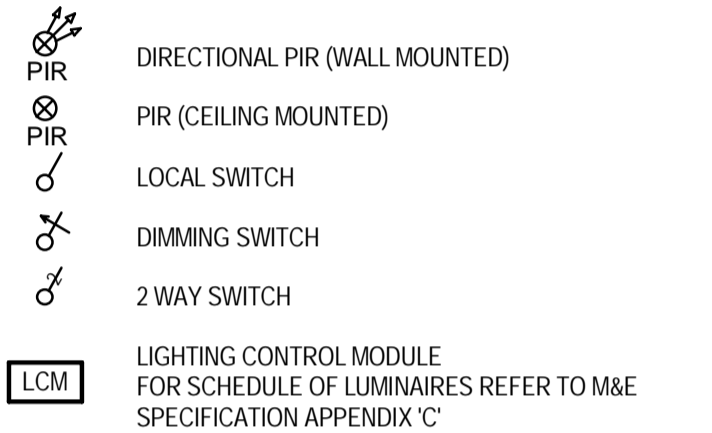
Drawn: DM		Checked: RC		
Designed: RS		Approved: DT		
Date: 29/10/14	Scale: 1 : 50	A1	Sheet:	
Project Number:		Drawing Number:		Revision:
3512445M-BBG		L(63)-01-04		4
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NOTES

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LEGEND



4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ
Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:
KLB Masterplan Refurbishment Project
(PSO0044)

Title: Second Floor
Lighting Layout

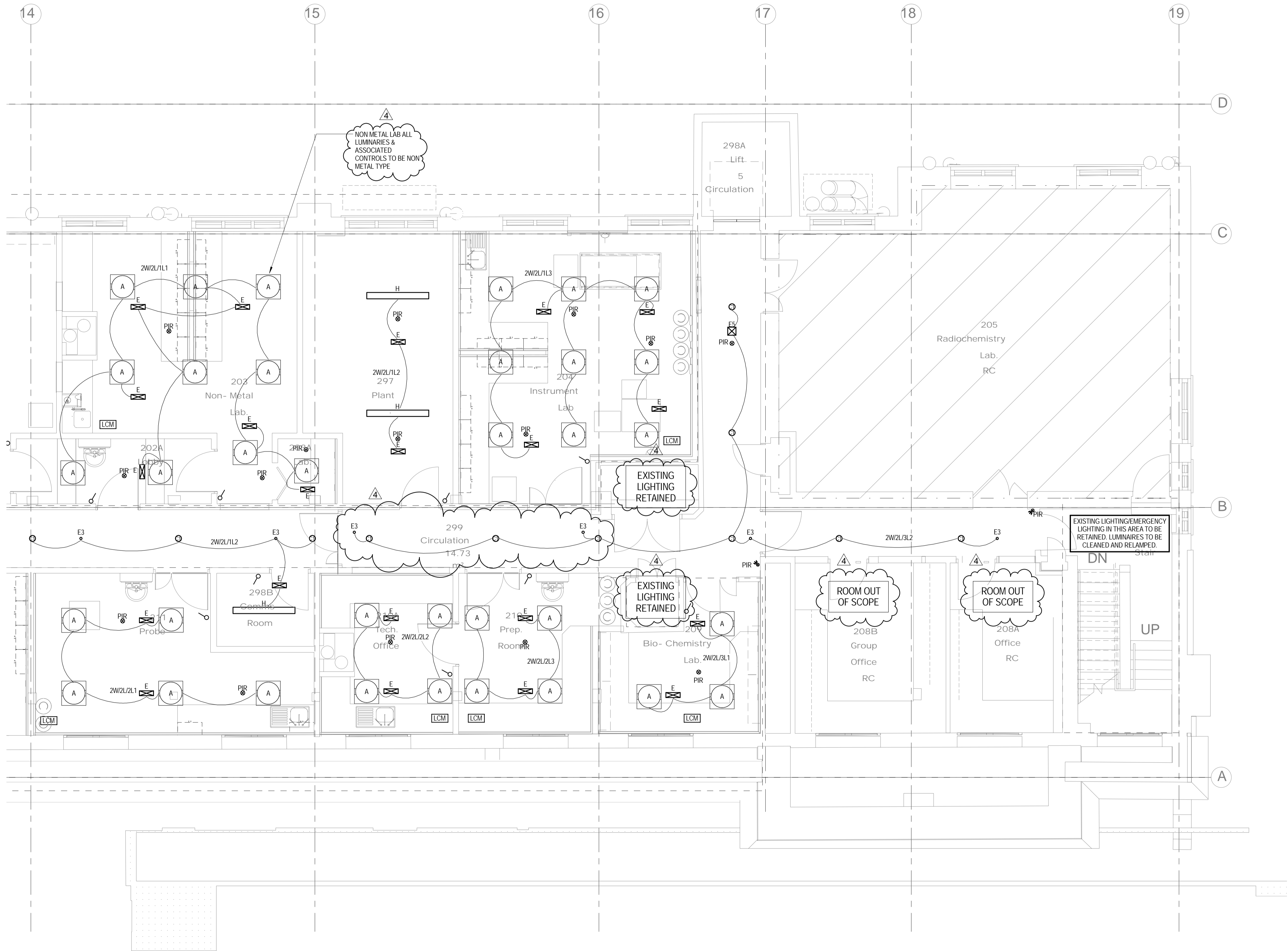
Sheet 3 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT

Date: 29/10/14	Scale: 1 : 50	A1	Sheet:
Project Number:	Drawing Number:	Revision:	

3512445M-BBG	L(63)-02-03	4
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NOTES

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LEGEND

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- LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

4	20.01.16	STAGE D ISSUE	RC	DW
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1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

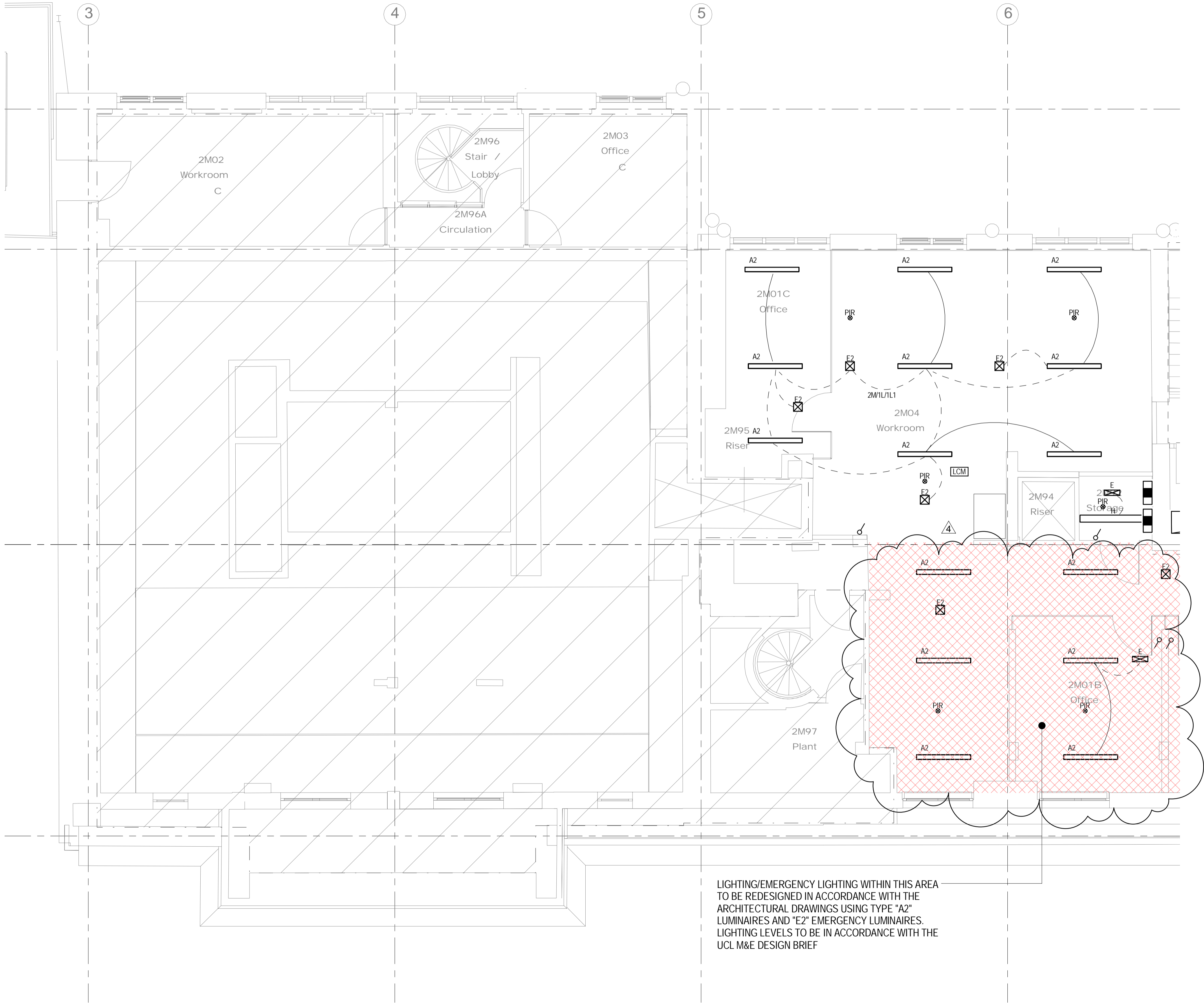
Client:
**UNIVERSITY
COLLEGE LONDON**

Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Second Floor
Lighting Layout**

Sheet 4 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-02-04
	Revision: 4



NOTES

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LEGEND

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Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

Title:

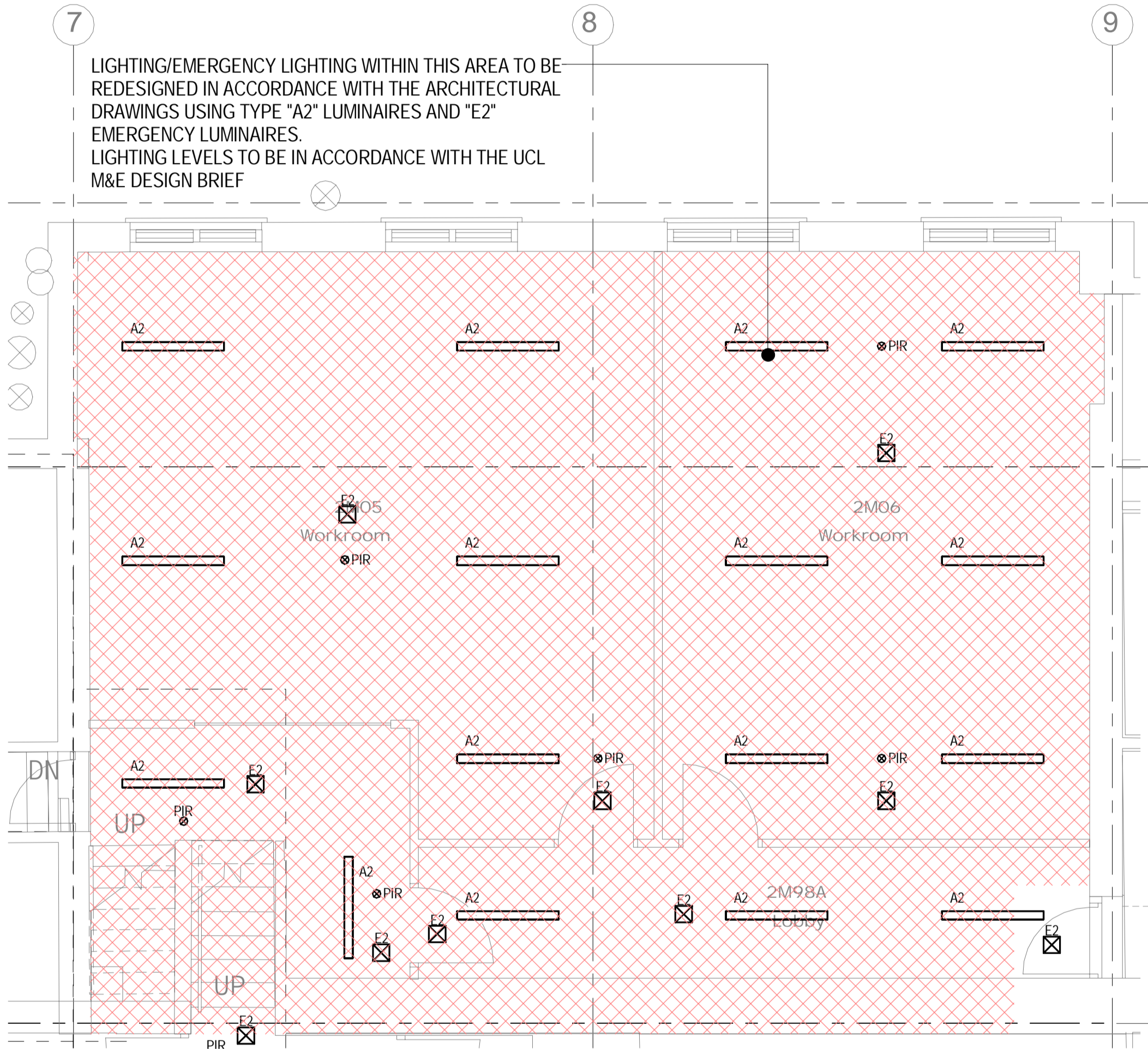
Second Floor Mezzanine
Lighting Layout

Sheet 1 of 3

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-2M-01
	Revision: 4

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


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LEGEND

-  PIR DIRECTIONAL PIR (WALL MOUNTED)
-  PIR PIR (CEILING MOUNTED)
-  LOCAL SWITCH
-  DIMMING SWITCH
-  2 WAY SWITCH
-  LCM LIGHTING CONTROL MODULE
FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

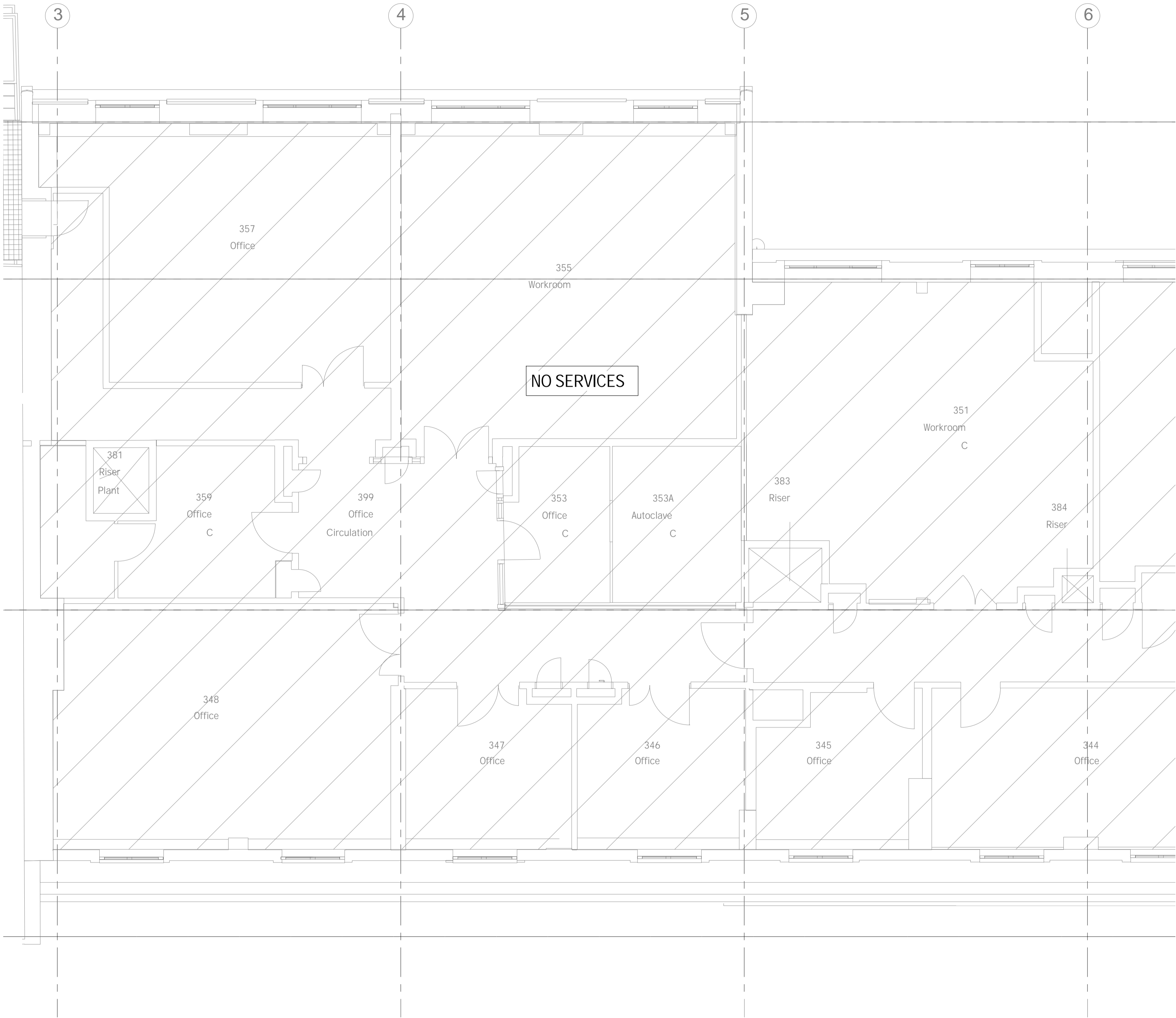
KLB Masterplan Refurbishment Project
(PSO0044)

Title:

Second Floor Mezzanine
Lighting Layout

Sheet 3 of 3







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Designed: RS		Approved: DT	
Date: 29/10/14	Scale: 1 : 50	A1	Sheet:
Project Number:		Drawing Number:	Revision:
3512445M-BBG		L(63)-2M-03	3



NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
2. CONTRACTOR TO REFER TO LUMINAIRE SCHEDULE FOR DETAILS OF THE LUMINAIRES USED ON THE DRAWING. LIGHTING ACCESSORIES IN THE SHOWER AREAS TO BE IP65 RATED.
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LEGEND

-  DIRECTIONAL PIR (WALL MOUNTED)
-  PIR (CEILING MOUNTED)
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-  DIMMING SWITCH
-  2 WAY SWITCH
-  LIGHTING CONTROL MODULE
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1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

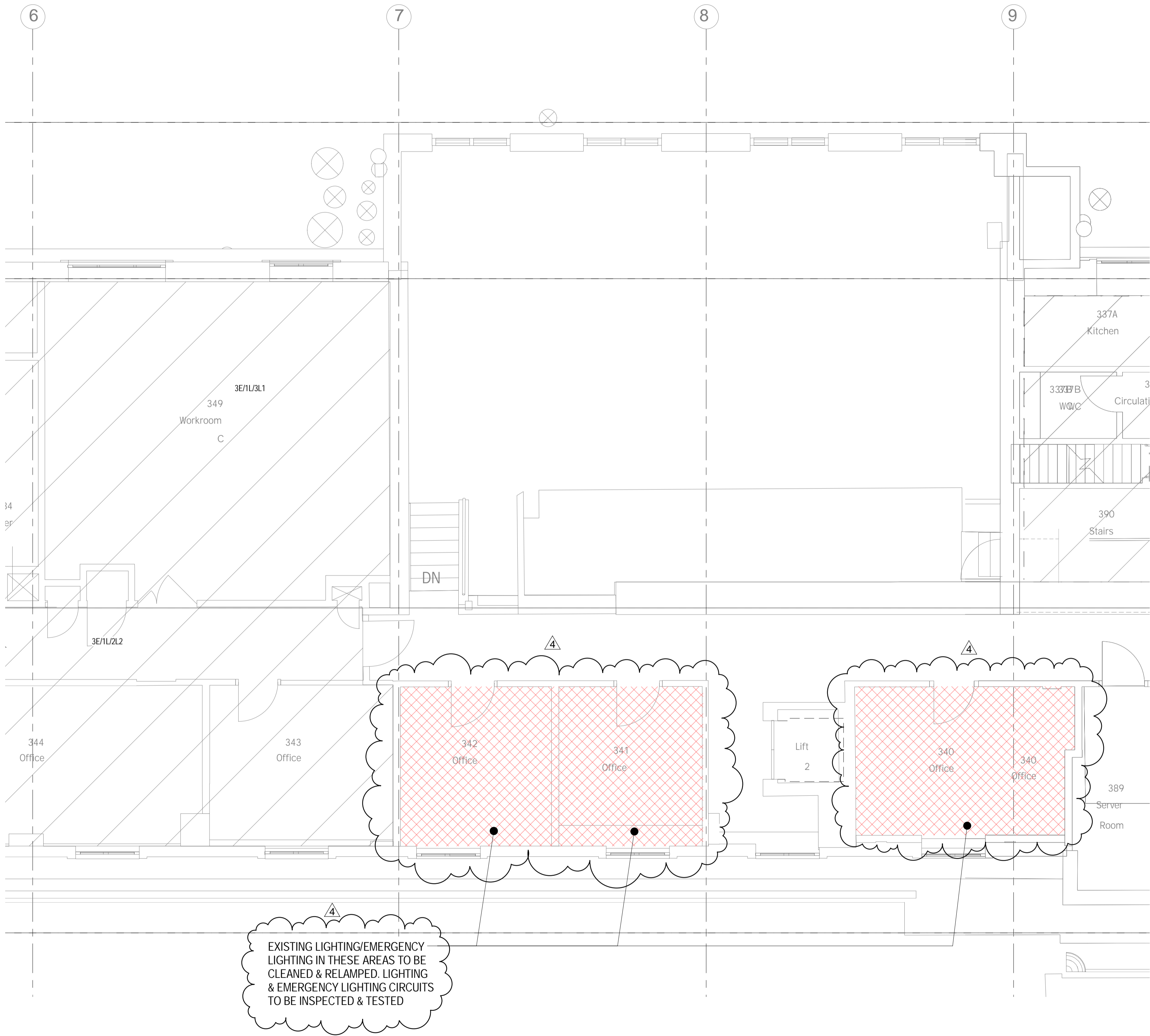
Title:

Third Floor
Lighting Layout

Sheet 1 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number:	Drawing Number:
3512445M-BBG	L(63)-03-01
	3

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- NOTES
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 - PIR (CEILING MOUNTED)
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4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

WSP

Westbrook Mills

Godalming

Surrey GU7 2AZ

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Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

Title:

Third Floor
Lighting Layout

Sheet 2 of 4

Drawn: DM

Checked: RC

Designed: RS

Approved: DT

Date: 29/10/14

Scale: 1 : 50

A1

Sheet:

Project Number:

Drawing Number:

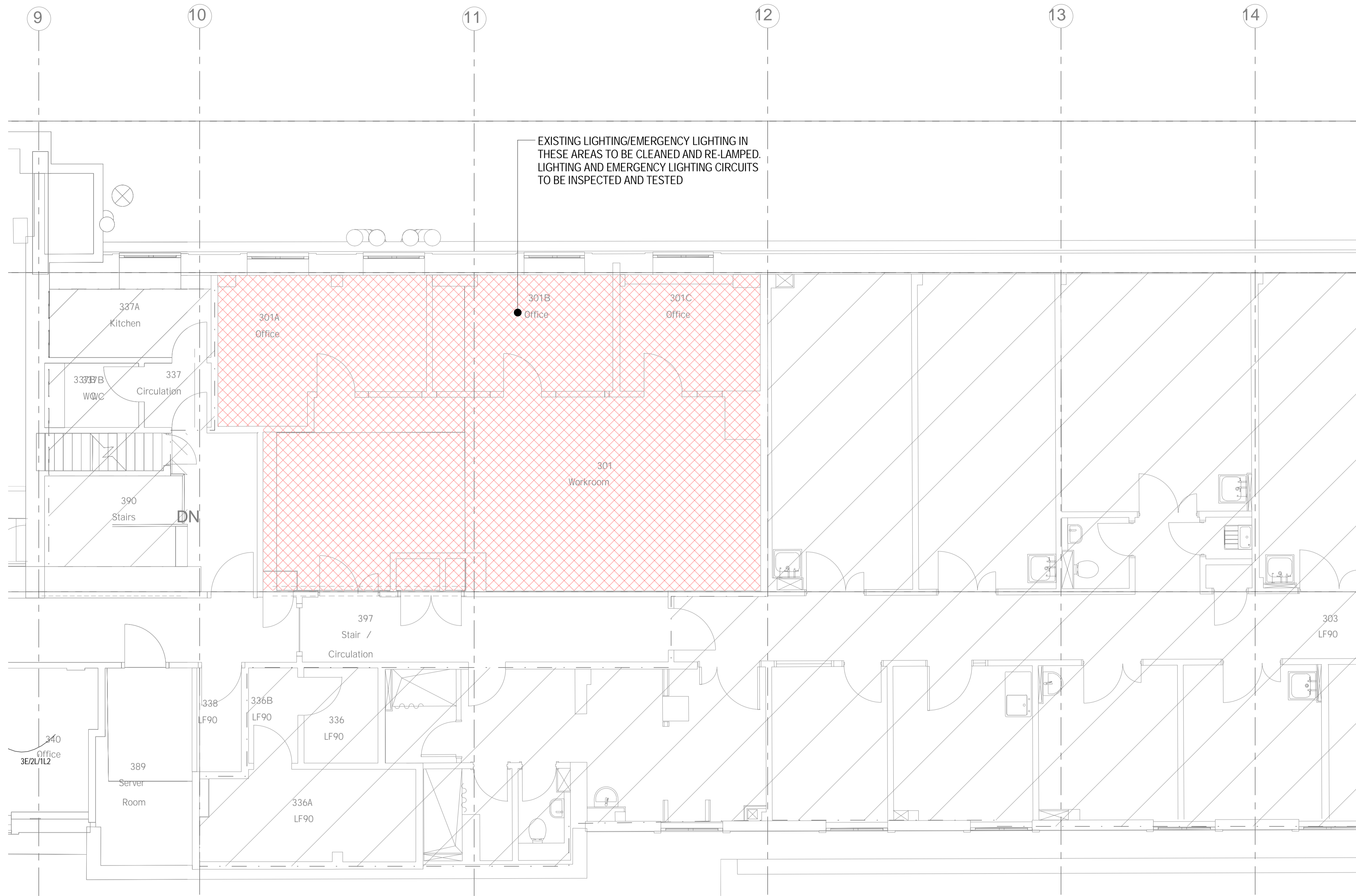
Revision:

3512445M-BBG

L(63)-03-02

4

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NOTES

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2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

KLB Masterplan Refurbishment Project
(PSO0044)

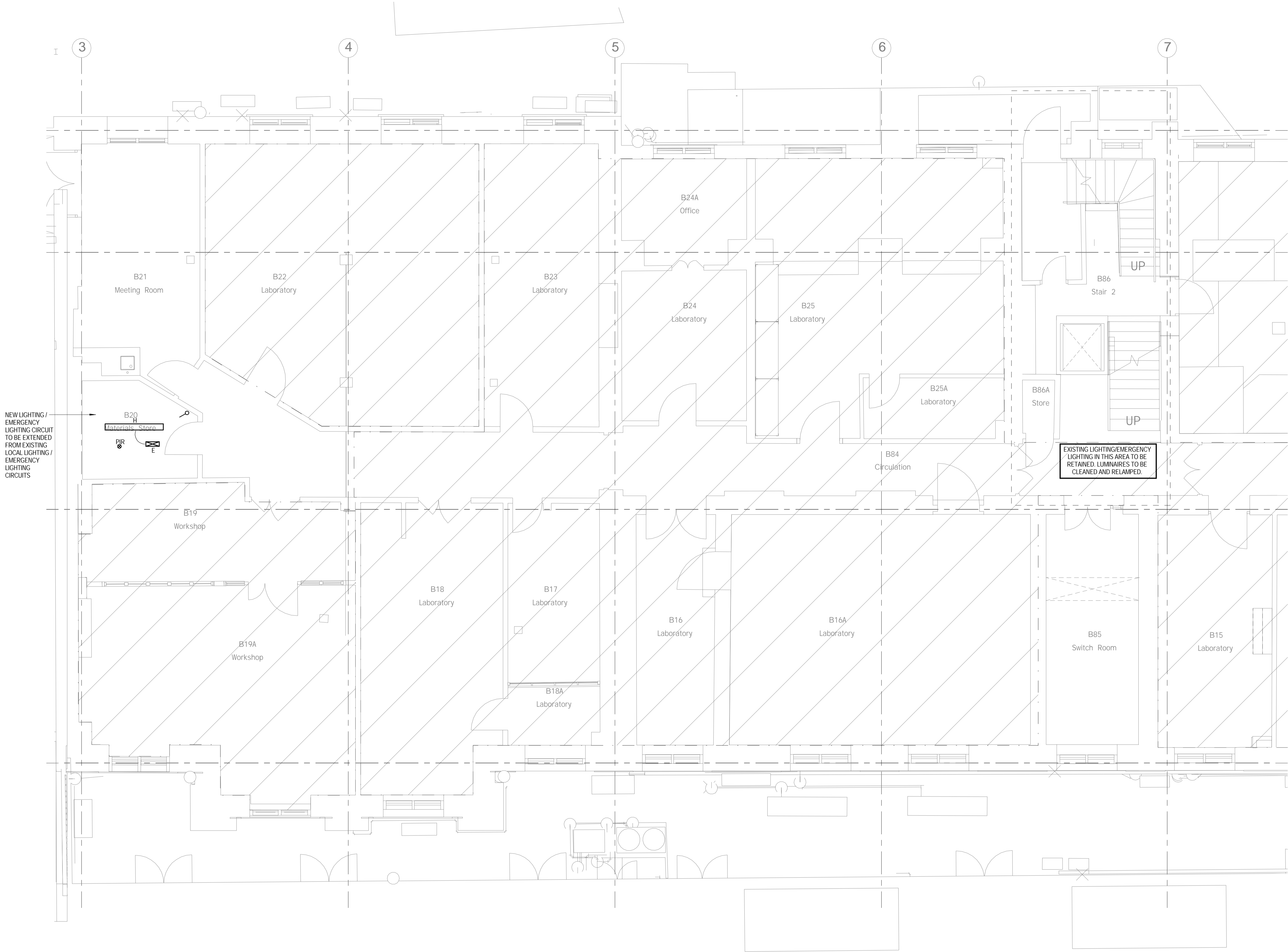
Title:

Third Floor
Lighting Layout

Sheet 3 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number: 3512445M-BBG	Drawing Number: L(63)-03-03
	Revision: 3







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2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
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Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

Client:

UNIVERSITY
COLLEGE LONDON

Site/Project:

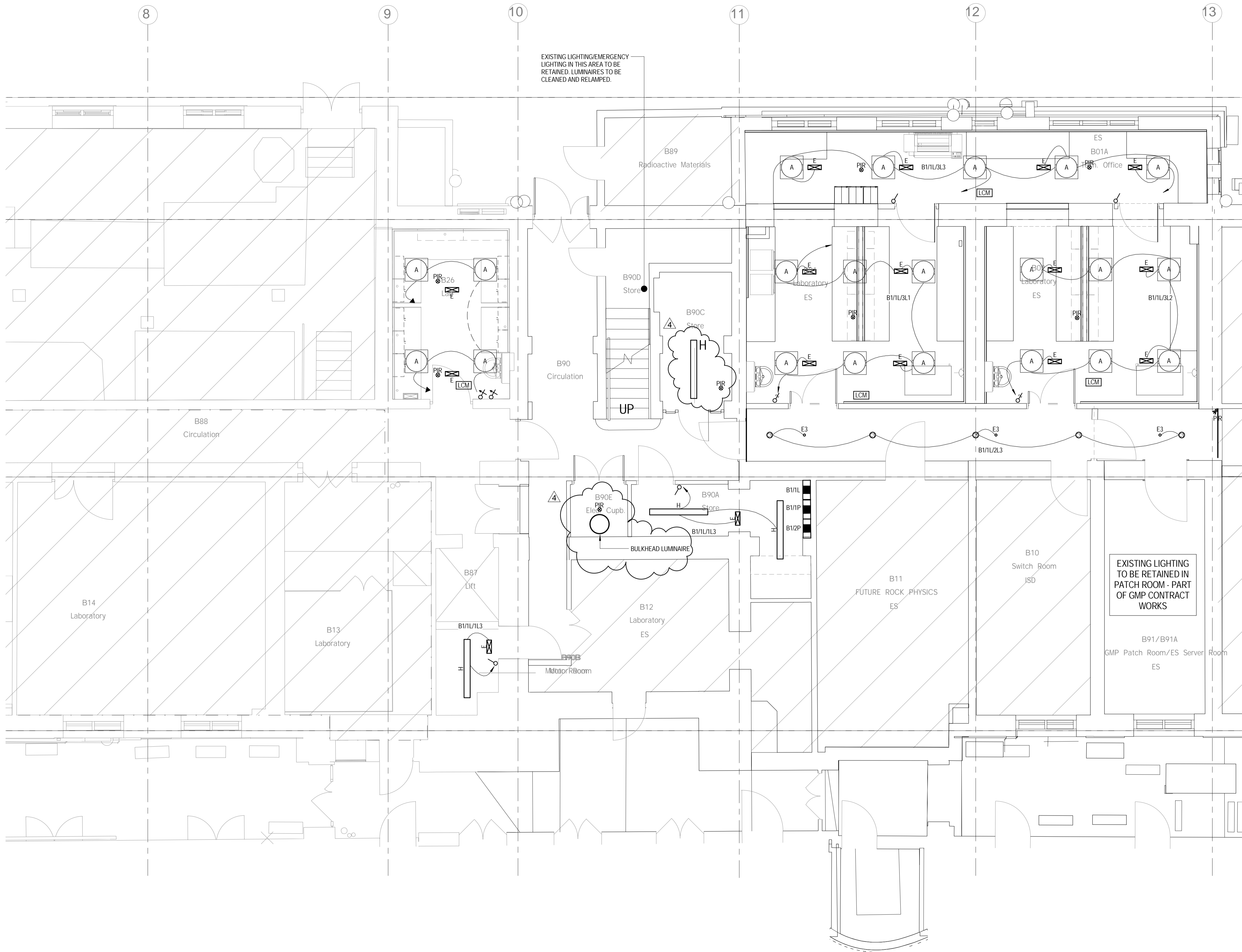
KLB Masterplan Refurbishment Project
(PSO0044)

Title:

Basement Level 1
Lighting Layout

Sheet 2 of 4

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Designed: RS		Approved: DT	
Date: 29/10/14	Scale: 1 : 50	A1	Sheet:
Project Number:		Drawing Number:	Revision:
3512445M-BBG		L(63)-B1-02	3



NOTES

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- PIR (CEILING MOUNTED) PIR (CEILING MOUNTED)
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- DIMMING SWITCH DIMMING SWITCH
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4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ

Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

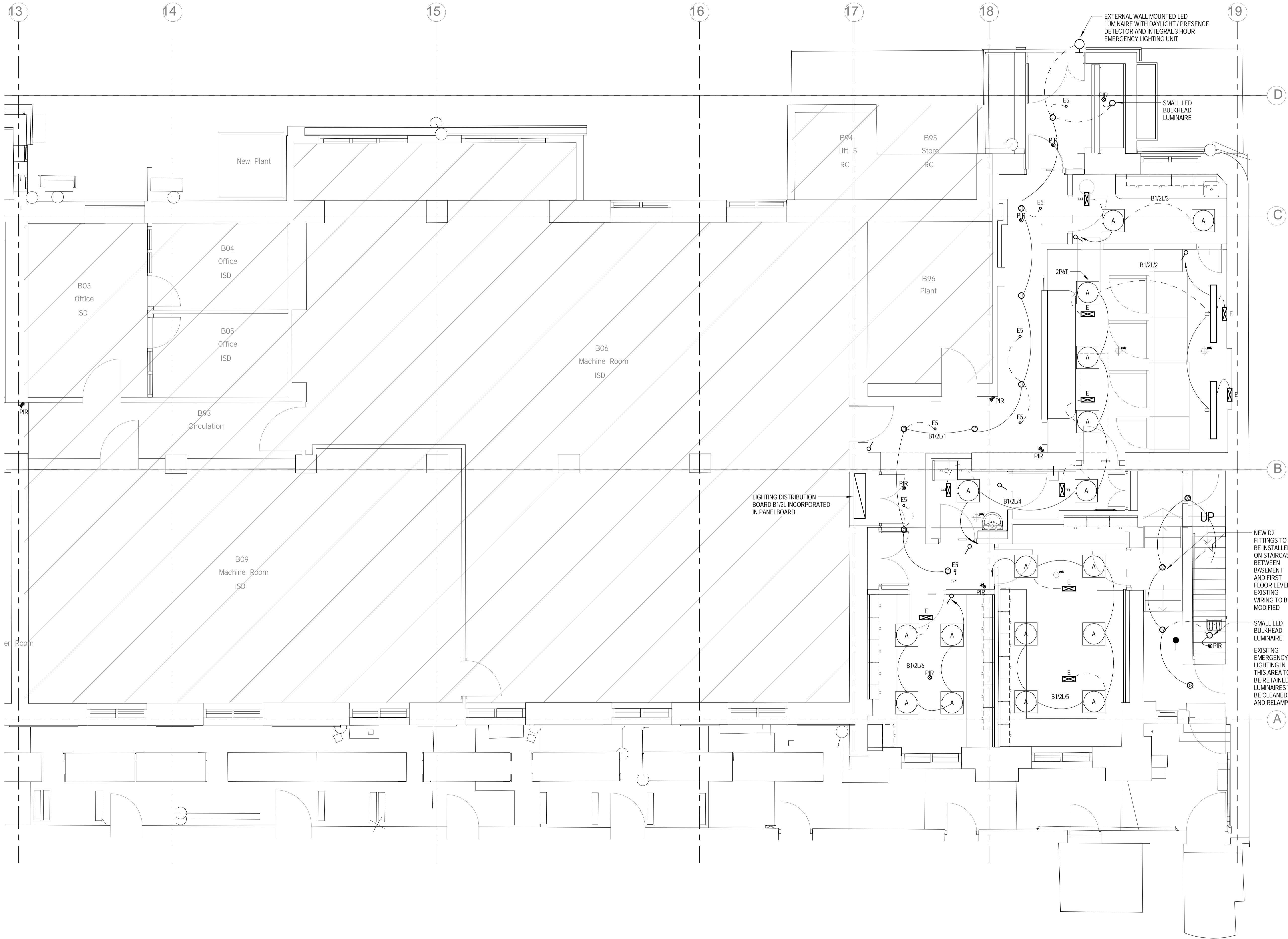
Client:
**UNIVERSITY
COLLEGE LONDON**

Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Basement Level 1
Lighting Layout**

Sheet 3 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number:	Drawing Number:
3512445M-BBG	L(63)-B1-03
	4



NOTES

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- 2 WAY SWITCH

LIGHTING CONTROL MODULE FOR SCHEDULE OF LUMINAIRES REFER TO M&E SPECIFICATION APPENDIX 'C'

8	13.01.16	STAGE D ISSUE	RC	DW
7	13.07.15	GMP Layout updated	RC	DT
6	24.06.15	External Light Added	RC	DT
5	19.06.15	Minor Changes	RC	DT
4	12.06.15	Minor Changes	RC	DT
3	26.05.15	Architectural update to GMP Lab	RC	DT
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
Surrey GU7 2AZ
Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

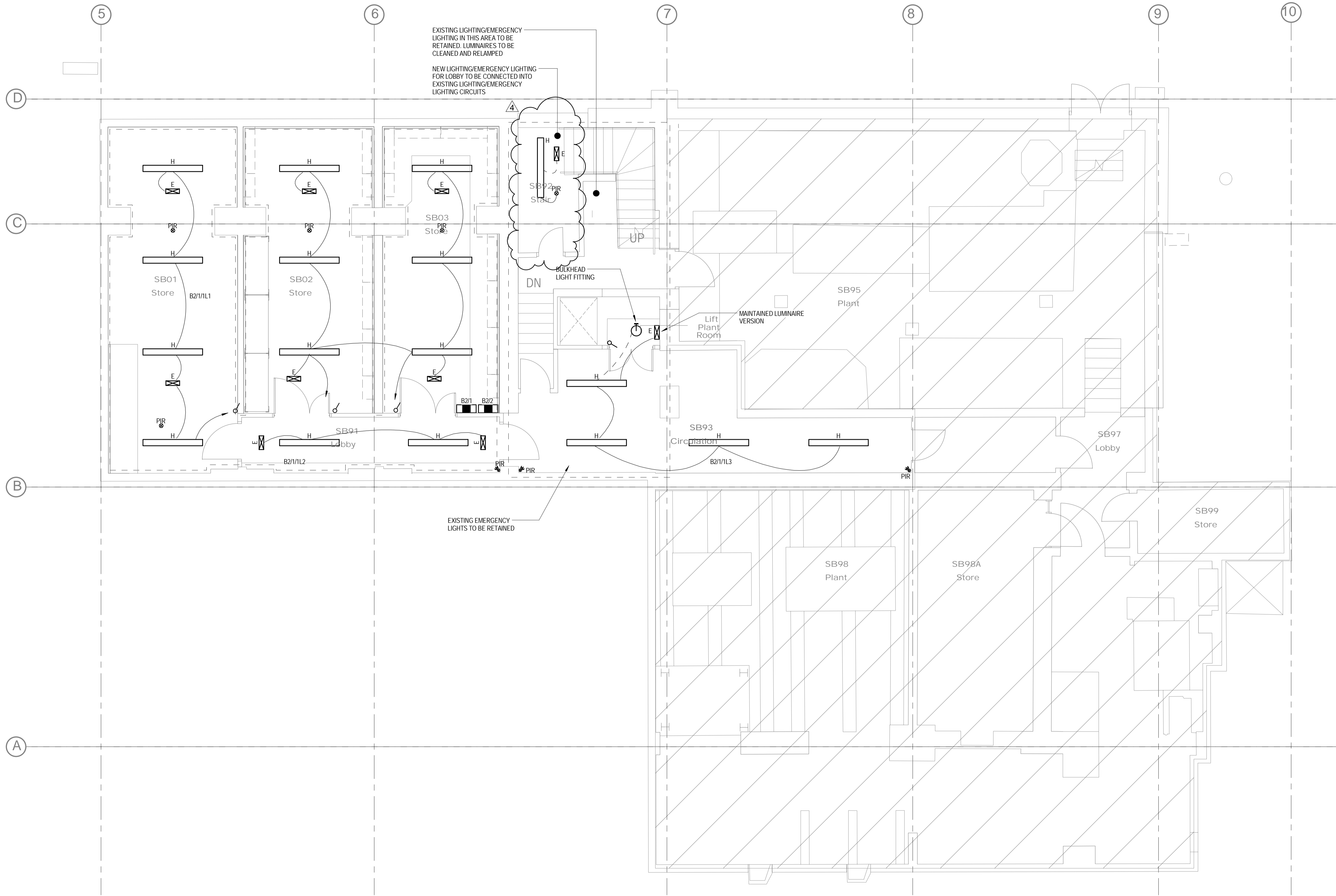
Client:
**UNIVERSITY
COLLEGE LONDON**

Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Basement Level 1
Lighting Layout**

Sheet 4 of 4

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50 A1 Sheet:
Project Number:	Drawing Number: Revision:
3512445M-BBG	L(63)-B1-04 8



NOTES

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LEGEND

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PIR (CEILING MOUNTED)
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Rev	Date	Description	Chk	App

STAGE D



Westbrook Mills
Godalming
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Tel: 44-(0)1483-528400
Fax: 44-(0)1483-528989

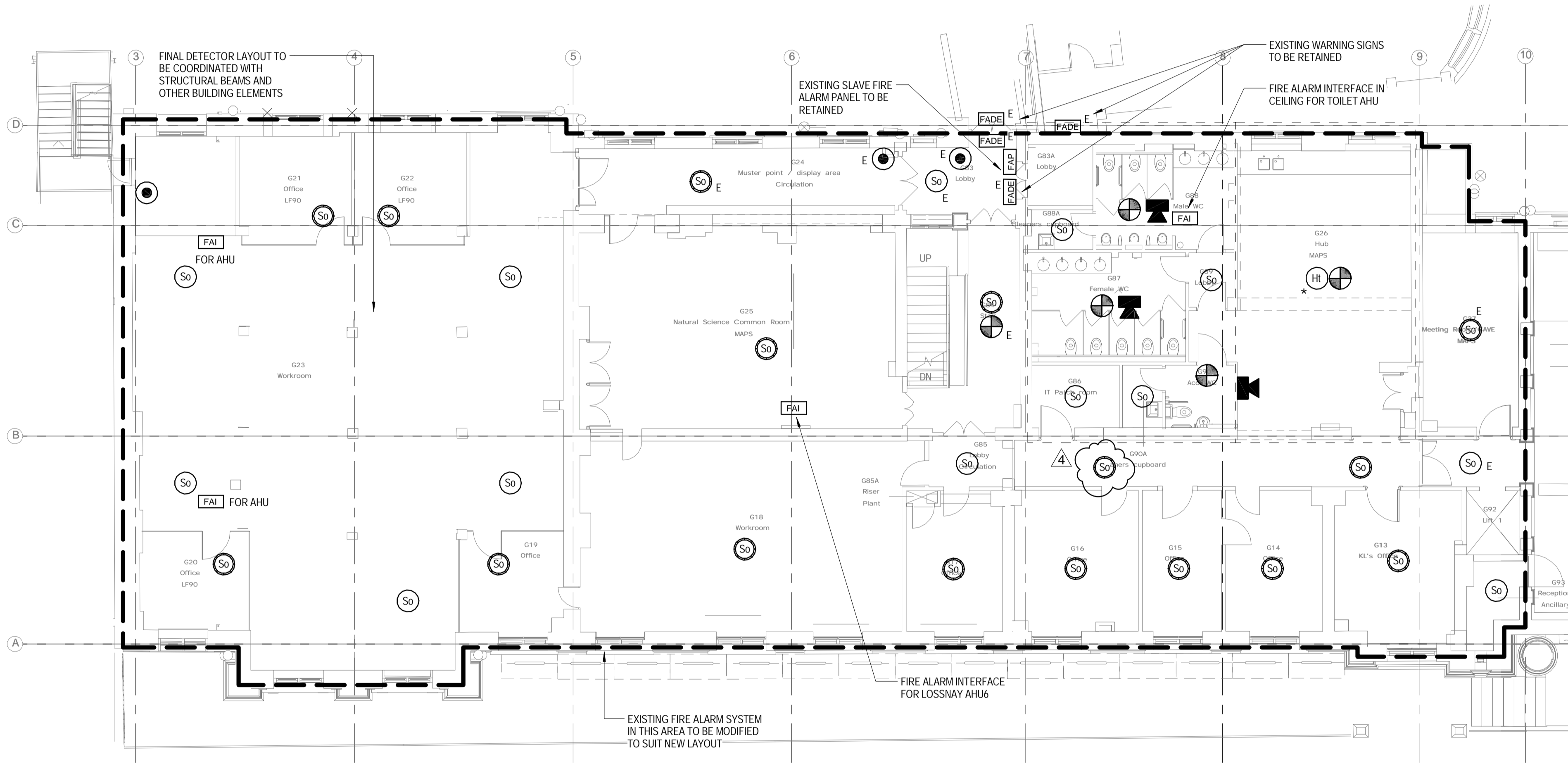
Client:
**UNIVERSITY
COLLEGE LONDON**

Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Basement Level 2
Lighting Layout**

Sheet 1 of 1

Drawn: DM	Checked: RC
Designed: RS	Approved: DT
Date: 29/10/14	Scale: 1 : 50
Project Number:	Drawing Number:
3512445M-BBG	L(63)-B2-01
	Revision: 4



NOTES

1. 'E' DENOTES EXISTING FIRE ALARM DEVICE TO REMAIN. HOWEVER DEVICE MAY NEED TO BE DISCONNECTED AND REMOVED AND THEN RECONNECTED AS REQUIRED.
2. FIRE ALARM SYSTEM TO BE INTERFACED WITH:
 - LIFTS
 - REFUGE SYSTEMS
 - DDA SYSTEMS
 - DOOR HOLD OPEN DEVICES
 - DOOR ACCESS SYSTEMS
 - MECHANICAL PLANT
 - OTHER SYSTEMS AS REQUIRED.
- ALL FIRE ALARM INTERFACES TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH UCL FIRE TECHNICAL NOTE 038.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH SERVICES SPECIFICATION.
4. BUILDING DETECTION ZONES TO REMAIN AS EXISTING.
5. ALARM ZONING TO BE CONFIRMED.
6. GENERAL INSTALLATION REQUIREMENTS TO BE IN ACCORDANCE WITH UCL FIRE TECHNICAL NOTE 054.
7. FIRE ALARM REQUIREMENTS IN TEA POINT/KITCHEN AREAS TO BE IN ACCORDANCE WITH UCL FIRE TECHNICAL NOTE 105.
8. * - DENOTES DETECTOR TO BE MULTI-SENSOR TYPE AS DEFINED IN UCL TECHNICAL NOTE 054.
9. IN LABS SOUNDER LEVELS TO BE REDUCED OR DELAYED TO AVOID ACCIDENTS.

LEGEND

- MANUAL CALL POINT
- So OPTICAL SMOKE DETECTOR
- So OPTICAL SMOKE SOUNDER
- Sv SMOKE VENT DETECTOR
- Ht HEAT DETECTOR
- Ht HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FAI FIRE ALARM INTERFACE

4	20.01.16	STAGE D ISSUE	RC	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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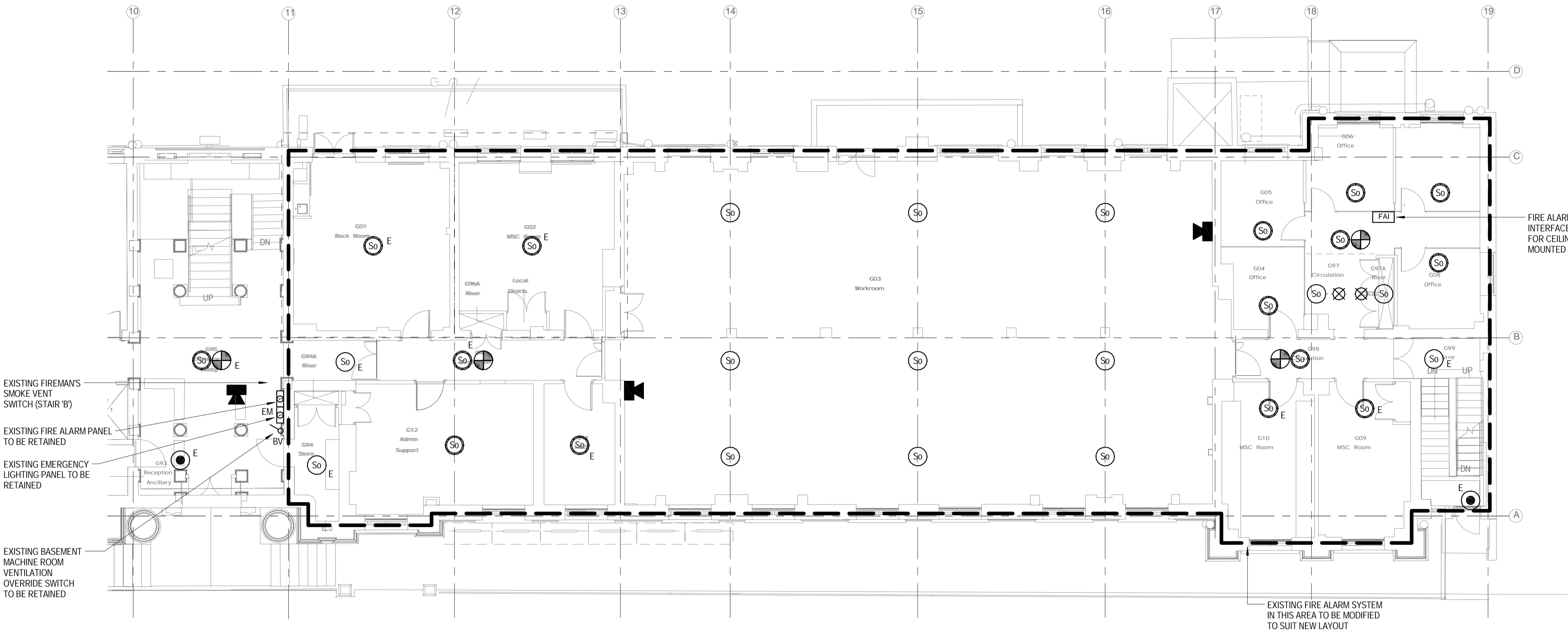
Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Ground Floor
Fire Alarm**

Sheet 1 of 2

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-00-01
	Revision: 4

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NOTES

1. 'E' DENOTES EXISTING FIRE ALARM DEVICE TO REMAIN. HOWEVER DEVICE MAY NEED TO BE DISCONNECTED AND REMOVED AND THEN RECONNECTED AS REQUIRED.
2. FIRE ALARM SYSTEM TO BE INTERFACED WITH:-
 - LIFTS
 - REFUGE SYSTEMS
 - DDA SYSTEMS
 - DOOR HOLD OPEN DEVICES
 - DOOR ACCESS SYSTEMS
 - MECHANICAL PLANT
 - OTHER SYSTEMS AS REQUIRED.
- ALL FIRE ALARM INTERFACES TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH UCL FIRE TECHNICAL NOTE 038.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH SERVICES SPECIFICATION.
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LEGEND

- MANUAL CALL POINT
- OPTICAL SMOKE DETECTOR
- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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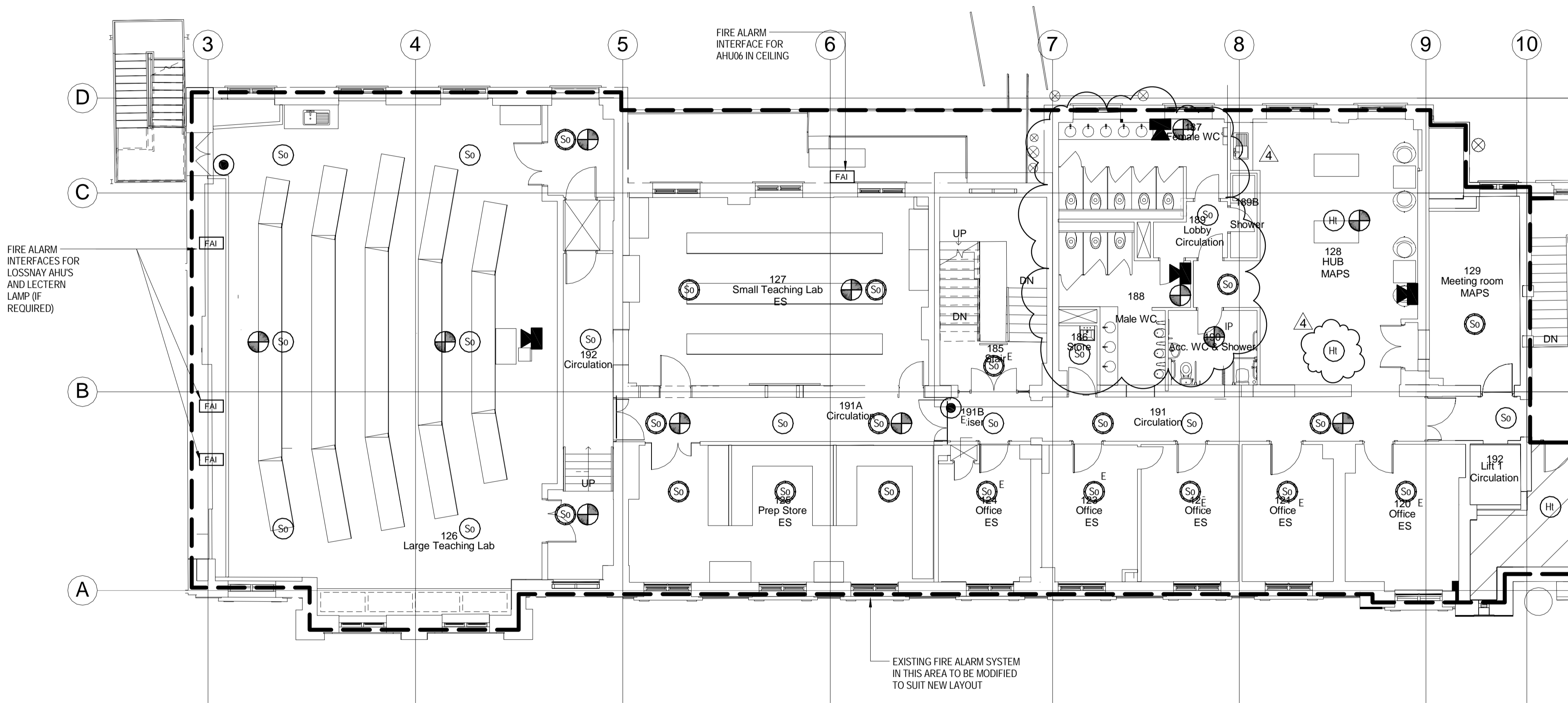
Client:
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Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Ground Floor
Fire Alarm**

Sheet 2 of 2

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-00-02
	Revision: 3



NOTES

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LEGEND

- MANUAL CALL POINT
- OPTICAL SMOKE DETECTOR
- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

4	07.04.16	STAGE D ISSUE	RB	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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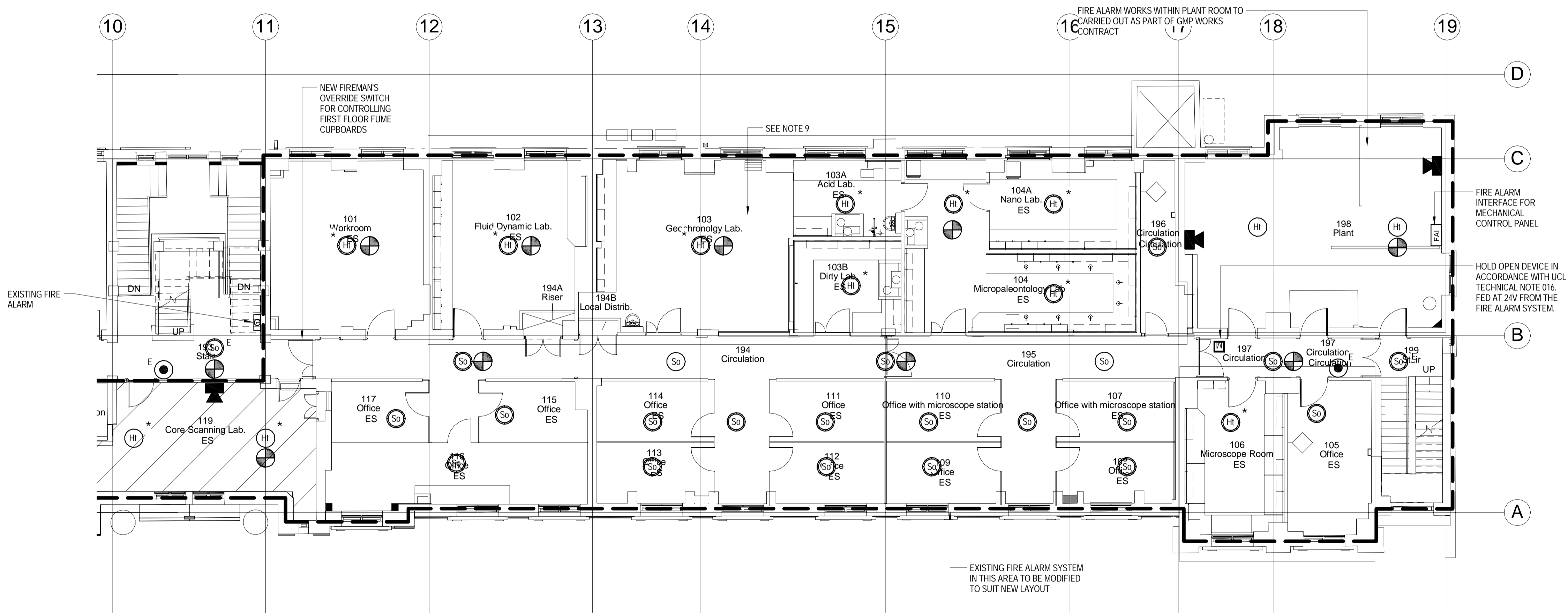
Client:
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Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**First Floor
Fire Alarm**

Sheet 1 of 2

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-01-01
	Revision: 4



NOTES

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10. IN LABS SOUNDER LEVELS TO BE REDUCED OR DELAYED TO AVOID ACCIDENTS.

LEGEND

- MANUAL CALL POINT
- OPTICAL SMOKE DETECTOR
- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

4	07.04.16	STAGE D ISSUE	RB	DW
3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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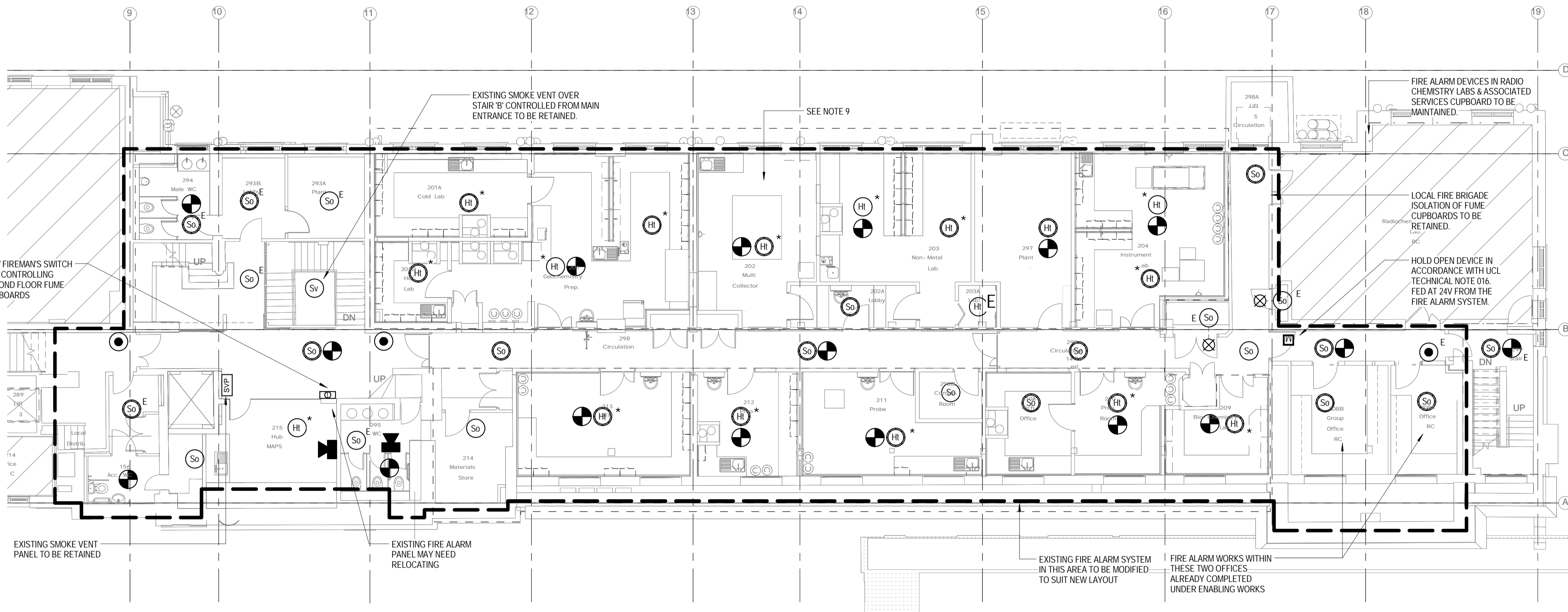
Title:

First Floor
Fire Alarm

Sheet 2 of 2

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-01-02
Revision: 4	

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NOTES

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LEGEND

- MANUAL CALL POINT
- OPTICAL SMOKE DETECTOR
- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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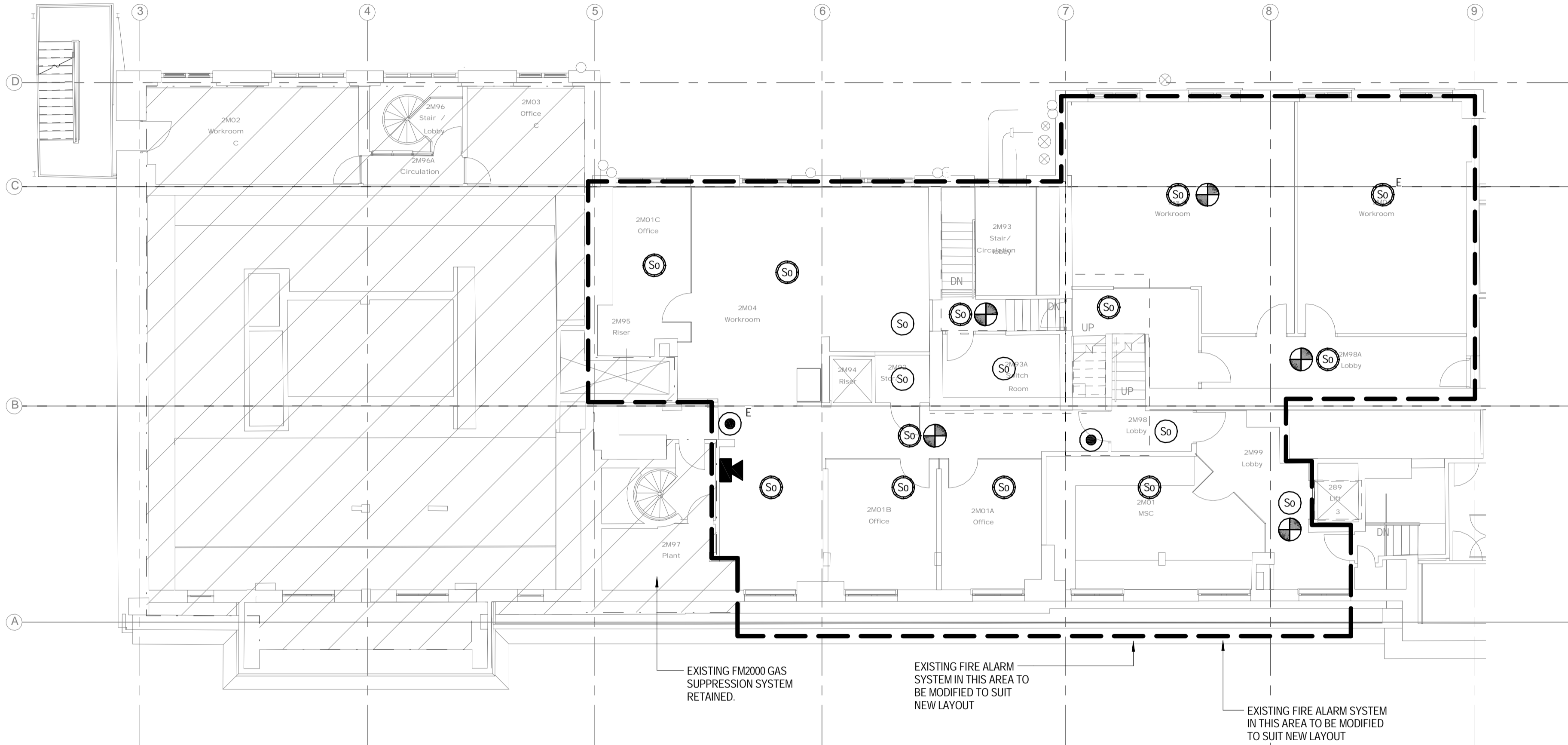
Client:
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Site/Project:
**KLB Masterplan Refurbishment Project
(PSO0044)**

Title:
**Second Floor
Fire Alarm**

Sheet 1 of 1

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-02-01
	Revision: 3



NOTES

- 'E' DENOTES EXISTING FIRE ALARM DEVICE TO REMAIN. HOWEVER DEVICE MAY NEED TO BE DISCONNECTED AND REMOVED AND THEN RECONNECTED AS REQUIRED.
- FIRE ALARM SYSTEM TO BE INTERFACED WITH:
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LEGEND

- MANUAL CALL POINT
- OPTICAL SMOKE DETECTOR
- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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Site/Project:

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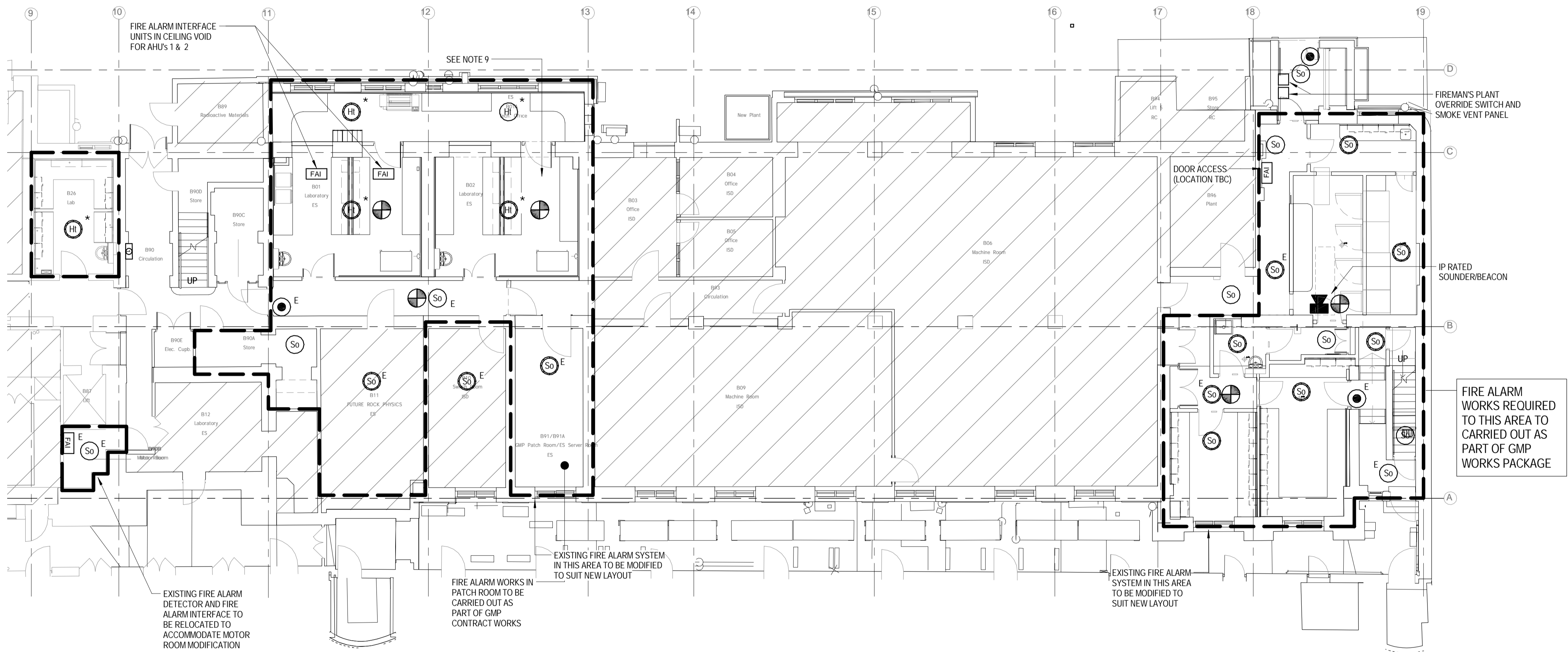
Title:

Second Floor Mezzanine
Fire Alarm

Sheet 1 of 1

Drawn:	SM	Checked:	RC
Designed:	RC	Approved:	DT
Date:	10/13/14	Scale:	As indicated
Project Number:	3512445M-BBG	Drawing Number:	L(68)-2M-01
		Revision:	3

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NOTES

1. 'E' DENOTES EXISTING FIRE ALARM DEVICE TO REMAIN. HOWEVER DEVICE MAY NEED TO BE DISCONNECTED AND REMOVED AND THEN RECONNECTED AS REQUIRED.
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LEGEND

- MANUAL CALL POINT
- So OPTICAL SMOKE DETECTOR
- So OPTICAL SMOKE SOUNDER
- Sv SMOKE VENT DETECTOR
- Hi HEAT DETECTOR
- Hi HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FAI FIRE ALARM INTERFACE

6	13.01.16	STAGE D ISSUE	RC	DW
5	13.07.15	GMP Layout updated	RC	DT
4	12.06.15	Minor Changes	RC	DT
3	26.05.15	Architectural update to GMP Lab	RC	DT
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D

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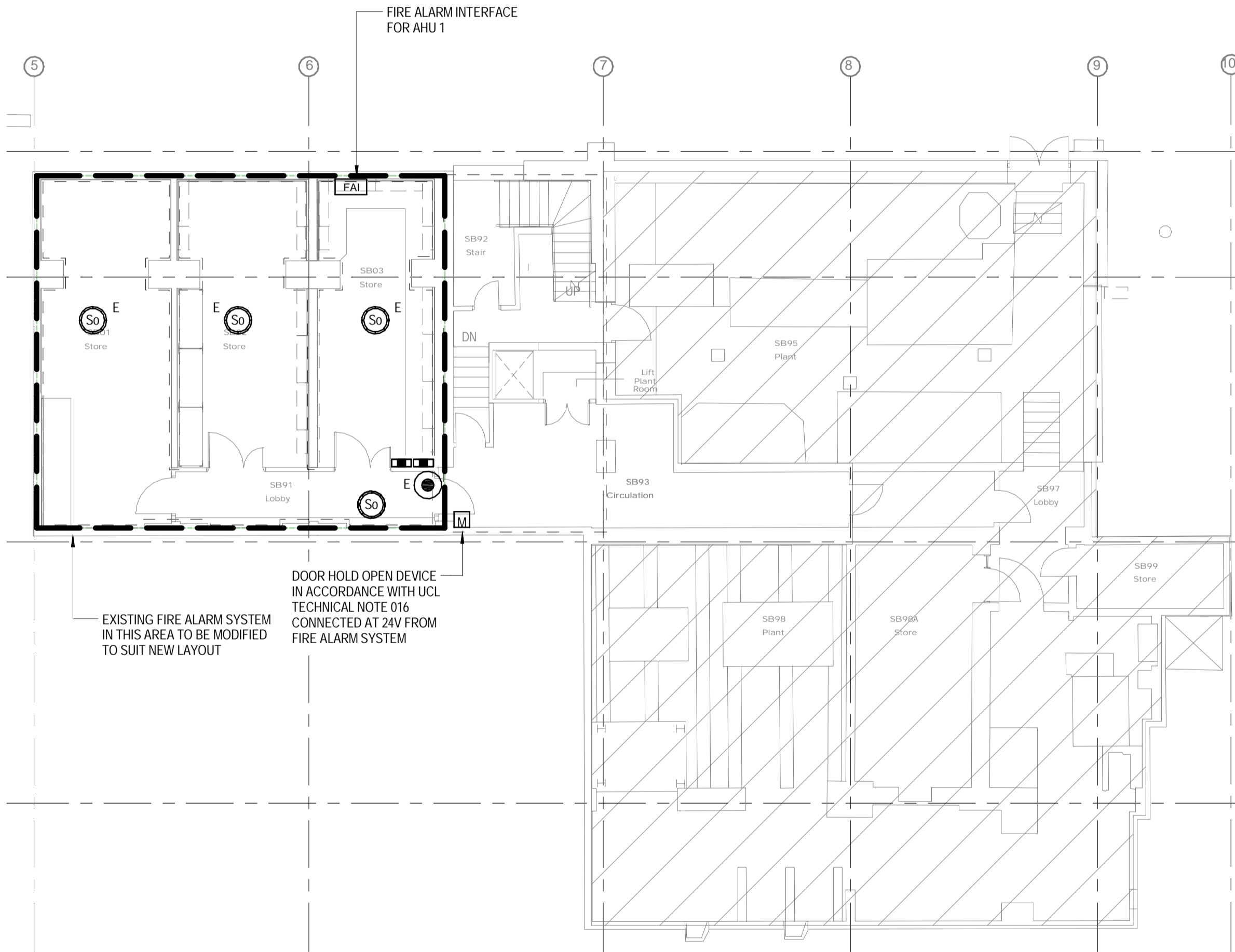
Title:

Basement Level 1
Fire Alarm

Sheet 1 of 1

Drawn: SM	Checked: RC
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Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-B1-01
	Revision: 6

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NOTES

1. 'E' DENOTES EXISTING FIRE ALARM DEVICE TO REMAIN. HOWEVER DEVICE MAY NEED TO BE DISCONNECTED AND REMOVED AND THEN RECONNECTED AS REQUIRED.
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- OPTICAL SMOKE SOUNDER
- SMOKE VENT DETECTOR
- HEAT DETECTOR
- HEAT SOUNDER
- XENON BEACON
- SOUNDER
- FIRE ALARM INTERFACE

3	13.01.16	STAGE D ISSUE	RC	DW
2	29.01.15	STAGE E TENDER ADDENDUM ONE	RC	DT
1	17.12.14	STAGE E TENDER ISSUE	RC	DT
Rev	Date	Description	Chk	App

STAGE D



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Site/Project:
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(PSO0044)**

Title:
**Basement Level 2
Fire Alarm**

Sheet 1 of 1

Drawn: SM	Checked: RC
Designed: RC	Approved: DT
Date: 10/13/14	Scale: As indicated
Project Number: 3512445M-BBG	Drawing Number: L(68)-B2-01
	Revision: 3