

- LUMINAIRE TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRE SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

- NOTES:**
1. PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-CM-A71-403001
  2. DO NOT SCALE FROM THIS DRAWING
  3. DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs).
  4. CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
  5. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  6. LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPRINTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  7. LUMINAIRE TYPES TO BE CHANGED TO SURFACE TYPE
  8. OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  9. EMERGENCY LUMINAIRE SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-HAH-ALL-SL-CM-A71-430002
  10. REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  11. THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

**LINKED MODEL SCHEDULE**

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A2-213002		P09
P4PBT-CRE-SRG-SL-M3-A21-3001		P03
P4PBT-IBS-ALL-SL-M3-A71-421852		
P4PBT-IBS-MBG-B4-M3-A71-421801		
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P49
P4PBT-STW-AAB-SL-M3-A31-100054		P51
P4PBT-STW-ABG-SL-M3-A31-100030		P50

**LUMINAIRE TYPES**

AD	PRESENCE DETECTOR
A2	ABSENCE DETECTOR
A4	RECESSED LED DOWNLIGHT 120mm(W) x 90mm(H)
A8	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
A9	RECESSED LED DOWNLIGHT 153mm(W) x 137mm(H)
A10	RECESSED LED DOWNLIGHT 120mm(W) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A15	RECESSED LED DOWNLIGHT 90mm (Ø)
B1	TV DOWNLIGHT
B2	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B3	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 145mm(W) x 103 (H)
D1T5	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1T5E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 145mm(W) x 103 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 145mm(W) x 103 (H)
E2	SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
F1	RECESSED LED LIGHT 70mm x 100mm x VARIES
F2	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
G2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
G3	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U.D.L.R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
K	SLIM-LINE RECESSED LINEAR LED
ODL3	OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
Exam Light	EXAM LIGHT

REVISION	DATE	DESCRIPTION	DRN	CHK	APP
E	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
D	2019.05.08	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2019.01.28	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2018.10.11	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2018.10.08	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		

Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

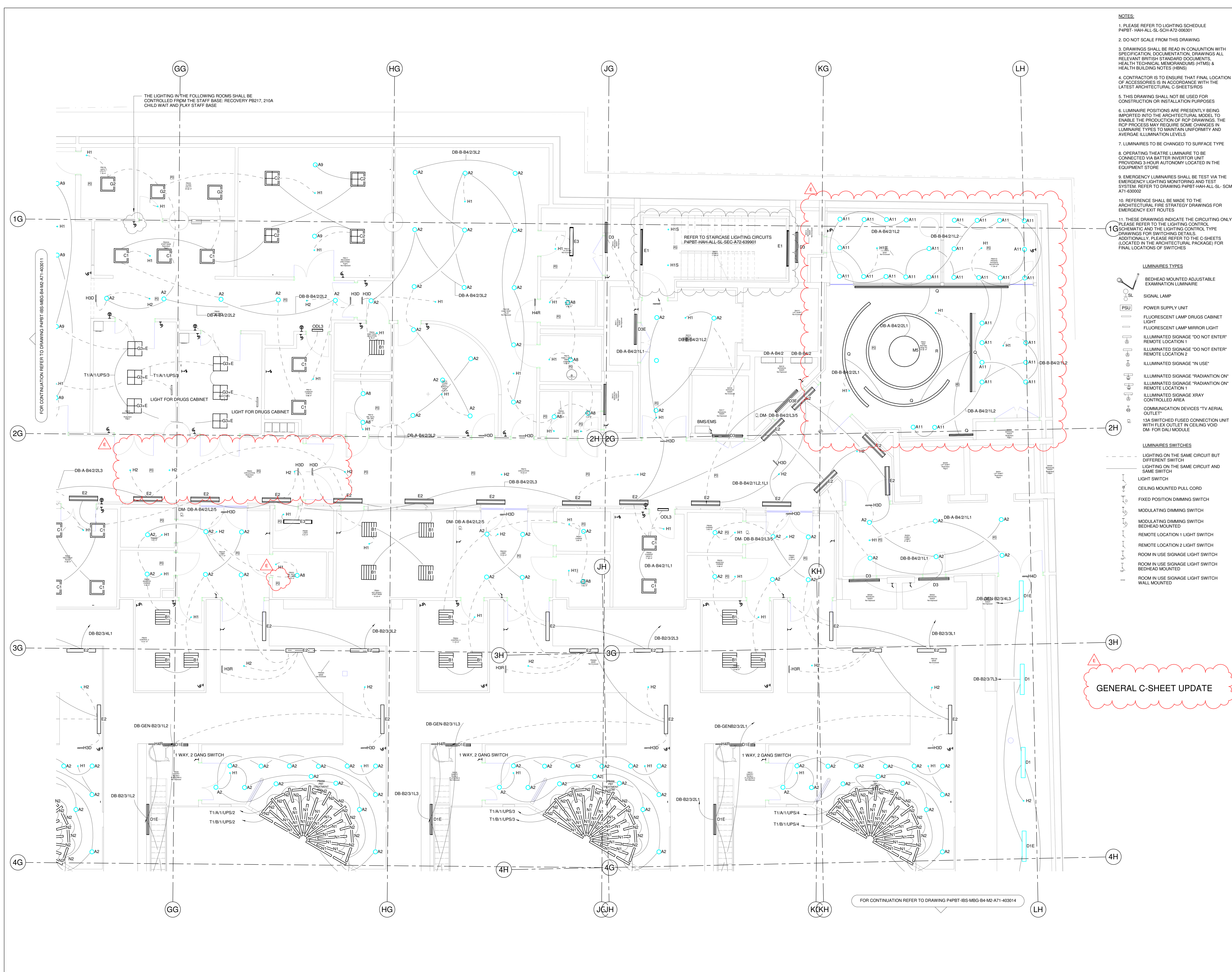
University College London Hospitals **NHS**  
 NHS Foundation Trust

ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
 BASEMENT LEVEL 4 LIGHTING LAYOUT  
 SHEET 1**

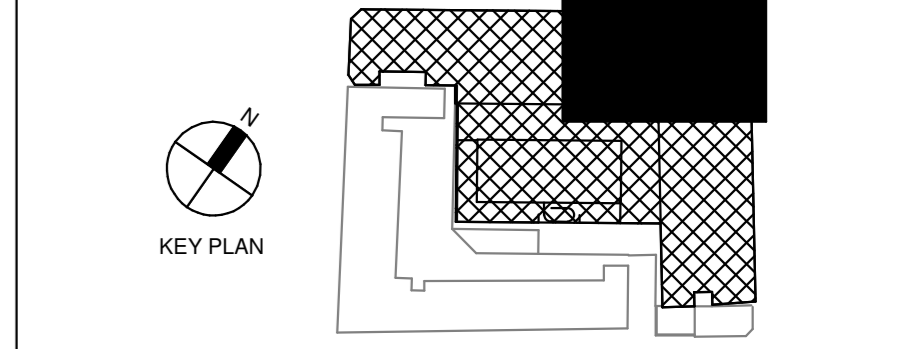
SCALE @A3	BM FILE NAME - REVISION
1 : 50	P4PBT-IBS-ALL-SL-CM-A71-400000

PROJECT	ISSUES	AREA	LEVEL	TYPE	TRACK	SEQUENCE	REVISION
P4PBT	IBS	MBG	B4	M2	A71	403011	E



- NOTES:**
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-SCH-A72-006301
  - DO NOT SCALE FROM THIS DRAWING
  - DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS AND RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNB)
  - CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  - LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  - LUMINAIRE TO BE CHANGED TO SURFACE TYPE
  - OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  - EMERGENCY LUMINAIRE SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM REFER TO DRAWING P4PBT-HAH-ALL-SL-SCM-A71-630002
  - REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL SYSTEM DRAWING FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT
- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT
- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT
- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT
- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT
- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MIRROR ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 596mm x 596mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 145mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 800mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 90mm(H) WIDE BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT



LINKED MODEL SCHEDULE

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-AB-SL-M3-A2-213002		P09
P4PBT-CRE-SIG-SL-M3-A21-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421852		P03
P4PBT-IBS-MBG-B4-M3-A71-421801		P02
P4PBT-KYO-AFA-SL-M3-3.01-700010		P04
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P49
P4PBT-STW-AAB-SL-M3-A31-100054		P51
P4PBT-STW-ABG-SL-M3-A31-100030		P50

Item	Description	Rev	Date	By	App
E	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL		IBS	
D	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL		IBS	
C	2019.01.28	4C S4 - ISSUE FOR STAGE APPROVAL		IBS	
B	2019.01.31	4C S4 - ISSUE FOR STAGE APPROVAL		IBS	
A	2018.10.08	4B S4 - ISSUE FOR STAGE APPROVAL		IBS	

Main Contractor: Bouygues UK  
 Bouygues UK  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

ORIGINATOR: University College London Hospitals NHS Foundation Trust

**IBSECAD**

DRAWING TITLE: PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 4 LIGHTING LAYOUT SHEET 2

SCALE: 1 : 50

BM FILE NAME: REVISION: P4PBT-IBS-ALL-SL-CM-A71-403000

PROPOSED STATUS: 4C S4 - FOR STAGE APPROVAL

PROJ: ISS: AHA: LEVEL: TYPE: TRADE: SEQ: NO: REVISION: P4PBT-IBS-MBG-B4-M2-A71-403012-E

Small text at the bottom left corner of the page.

**GENERAL C-SHEET UPDATE**

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403012

**LUMINAIRES TYPES**

- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
- SIGNAL LAMP
- PSU POWER SUPPLY UNIT
- FLUORESCENT LAMP DRUGS CABINET LIGHT
- FLUORESCENT LAMP MIRROR LIGHT
- ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
- ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
- ILLUMINATED SIGNAGE "IN USE"
- ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
- ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
- ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
- COMMUNICATION DEVICES "TV AERIAL OUTLET"
- 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE

**LUMINAIRES SWITCHES**

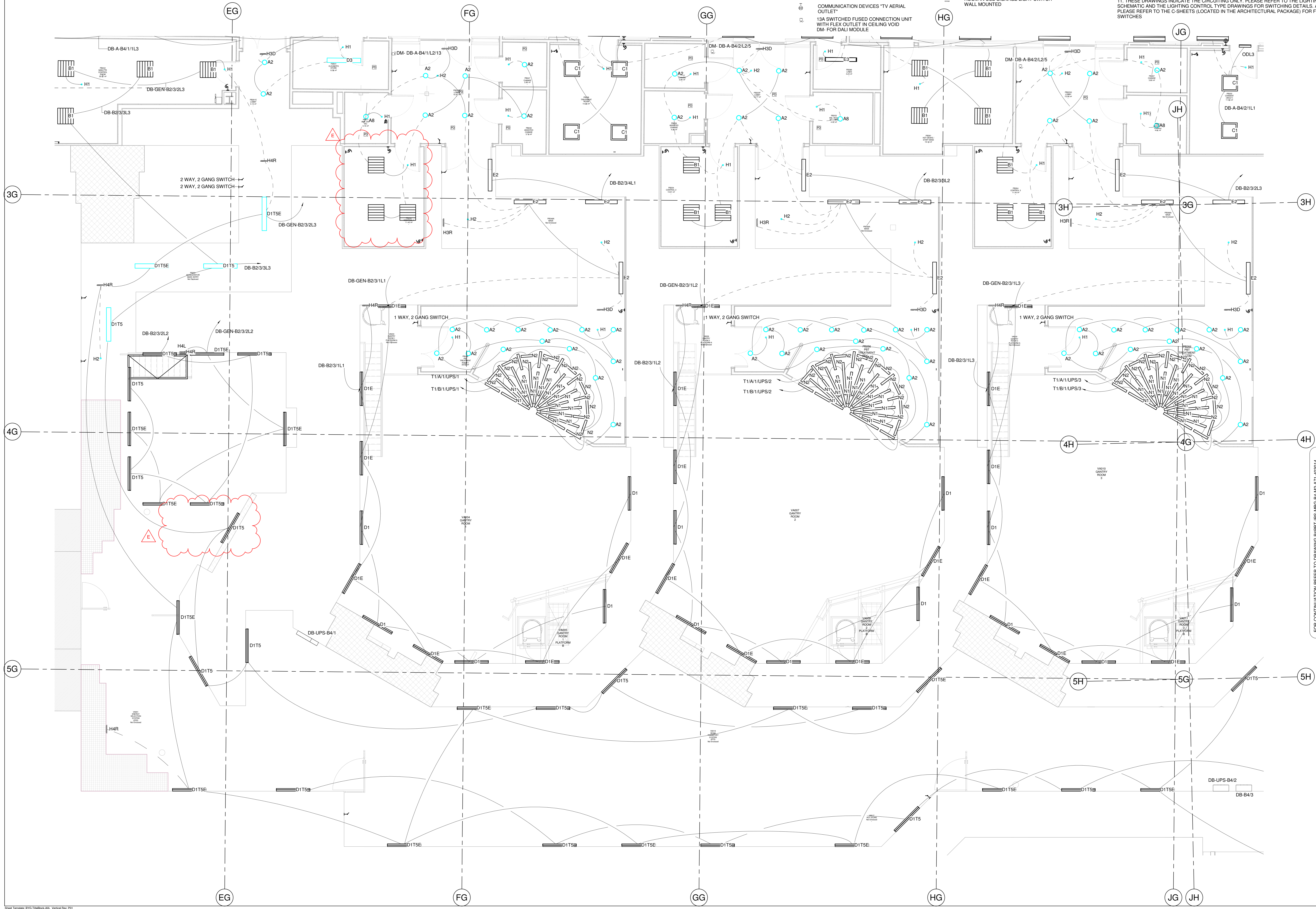
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
- LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
- LIGHT SWITCH
- CEILING MOUNTED PULL CORD
- FIXED POSITION DIMMING SWITCH
- MODULATING DIMMING SWITCH
- REMOTE LOCATION 1 LIGHT SWITCH
- REMOTE LOCATION 2 LIGHT SWITCH
- ROOM IN USE SIGNAGE LIGHT SWITCH
- ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
- ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

**NOTES:**

1. PLEASE REFER TO LIGHTING SCHEDULE P4PBT-MAH-ALL-SL-SCH-A72-006001
2. DO NOT SCALE FROM THIS DRAWING
3. DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
4. CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RSDS
5. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
6. LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
7. LUMINAIRES TO BE CHANGED TO SURFACE TYPE
8. OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTER INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
9. EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-MAH-ALL-SL-SCH-A71-630002
10. REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
11. THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

**LINKED MODEL SCHEDULE**

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A21-213002		P09
P4PBT-CRE-SAB-SL-M3-A21-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421852		
P4PBT-IBS-MBG-B4-M3-A71-421801		P02
P4PBT-KYO-AFA-SL-M3-3-01-700010		P04
P4PBT-KYO-AFA-SL-M3-3-01-700020		P03
P4PBT-KYO-AFA-SL-M3-3-01-700030		P01
P4PBT-KYO-AFA-SL-M3-3-01-700040		P05
P4PBT-KYO-AFA-SL-M3-3-01-700050		P01
P4PBT-KYO-AFA-SL-M3-3-01-700100		P04
P4PBT-KYO-AFA-SL-M3-3-01-700200		P04
P4PBT-KYO-AFA-SL-M3-3-01-700300		P05
P4PBT-KYO-AFA-SL-M3-3-01-700400		P01
P4PBT-KYO-AFA-SL-M3-3-01-700500		P01
P4PBT-KYO-AFA-SL-M3-3-01-700600		P01
P4PBT-KYO-AFA-SL-M3-3-01-700700		P01
P4PBT-KYO-AFA-SL-M3-3-01-700800		P01
P4PBT-KYO-AFA-SL-M3-3-01-700900		P01
P4PBT-KYO-AFA-SL-M3-3-01-701000		P01
P4PBT-KYO-AFA-SL-M3-3-01-701100		P01
P4PBT-KYO-AFA-SL-M3-3-01-701200		P01
P4PBT-KYO-AFA-SL-M3-3-01-701300		P01
P4PBT-KYO-AFA-SL-M3-3-01-701400		P01
P4PBT-KYO-AFA-SL-M3-3-01-701500		P01
P4PBT-KYO-AFA-SL-M3-3-01-701600		P01
P4PBT-KYO-AFA-SL-M3-3-01-701700		P01
P4PBT-KYO-AFA-SL-M3-3-01-701800		P01
P4PBT-KYO-AFA-SL-M3-3-01-701900		P01
P4PBT-KYO-AFA-SL-M3-3-01-702000		P01
P4PBT-KYO-AFA-SL-M3-3-01-702100		P01
P4PBT-KYO-AFA-SL-M3-3-01-702200		P01
P4PBT-KYO-AFA-SL-M3-3-01-702300		P01
P4PBT-KYO-AFA-SL-M3-3-01-702400		P01
P4PBT-KYO-AFA-SL-M3-3-01-702500		P01
P4PBT-KYO-AFA-SL-M3-3-01-702600		P01
P4PBT-KYO-AFA-SL-M3-3-01-702700		P01
P4PBT-KYO-AFA-SL-M3-3-01-702800		P01
P4PBT-KYO-AFA-SL-M3-3-01-702900		P01
P4PBT-KYO-AFA-SL-M3-3-01-703000		P01
P4PBT-KYO-AFA-SL-M3-3-01-703100		P01
P4PBT-KYO-AFA-SL-M3-3-01-703200		P01
P4PBT-KYO-AFA-SL-M3-3-01-703300		P01
P4PBT-KYO-AFA-SL-M3-3-01-703400		P01
P4PBT-KYO-AFA-SL-M3-3-01-703500		P01
P4PBT-KYO-AFA-SL-M3-3-01-703600		P01
P4PBT-KYO-AFA-SL-M3-3-01-703700		P01
P4PBT-KYO-AFA-SL-M3-3-01-703800		P01
P4PBT-KYO-AFA-SL-M3-3-01-703900		P01
P4PBT-KYO-AFA-SL-M3-3-01-704000		P01
P4PBT-KYO-AFA-SL-M3-3-01-704100		P01
P4PBT-KYO-AFA-SL-M3-3-01-704200		P01
P4PBT-KYO-AFA-SL-M3-3-01-704300		P01
P4PBT-KYO-AFA-SL-M3-3-01-704400		P01
P4PBT-KYO-AFA-SL-M3-3-01-704500		P01
P4PBT-KYO-AFA-SL-M3-3-01-704600		P01
P4PBT-KYO-AFA-SL-M3-3-01-704700		P01
P4PBT-KYO-AFA-SL-M3-3-01-704800		P01
P4PBT-KYO-AFA-SL-M3-3-01-704900		P01
P4PBT-KYO-AFA-SL-M3-3-01-705000		P01



**LUMINAIRES TYPES**

PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
A2	RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM: 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
A9	RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (Ø)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A15	TV DOWNLIGHT
B1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 86mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 568mm x 599mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1T5	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1T5E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
E2	SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U.D.L.R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
K	SLIM-LINE RECESSED LINEAR LED
ODL3	OVER DOOR LIGHT SINGLE DISPLAY UNIT ROOM IN USE 281TF (FLUSH LED)
Exam Light	EXAM LIGHT

REVISION	DATE	DESCRIPTION	DRW	CHK	APP
E	2018/05/20	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
D	2018/05/08	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2018/01/28	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2018/01/11	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2018/01/08	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		



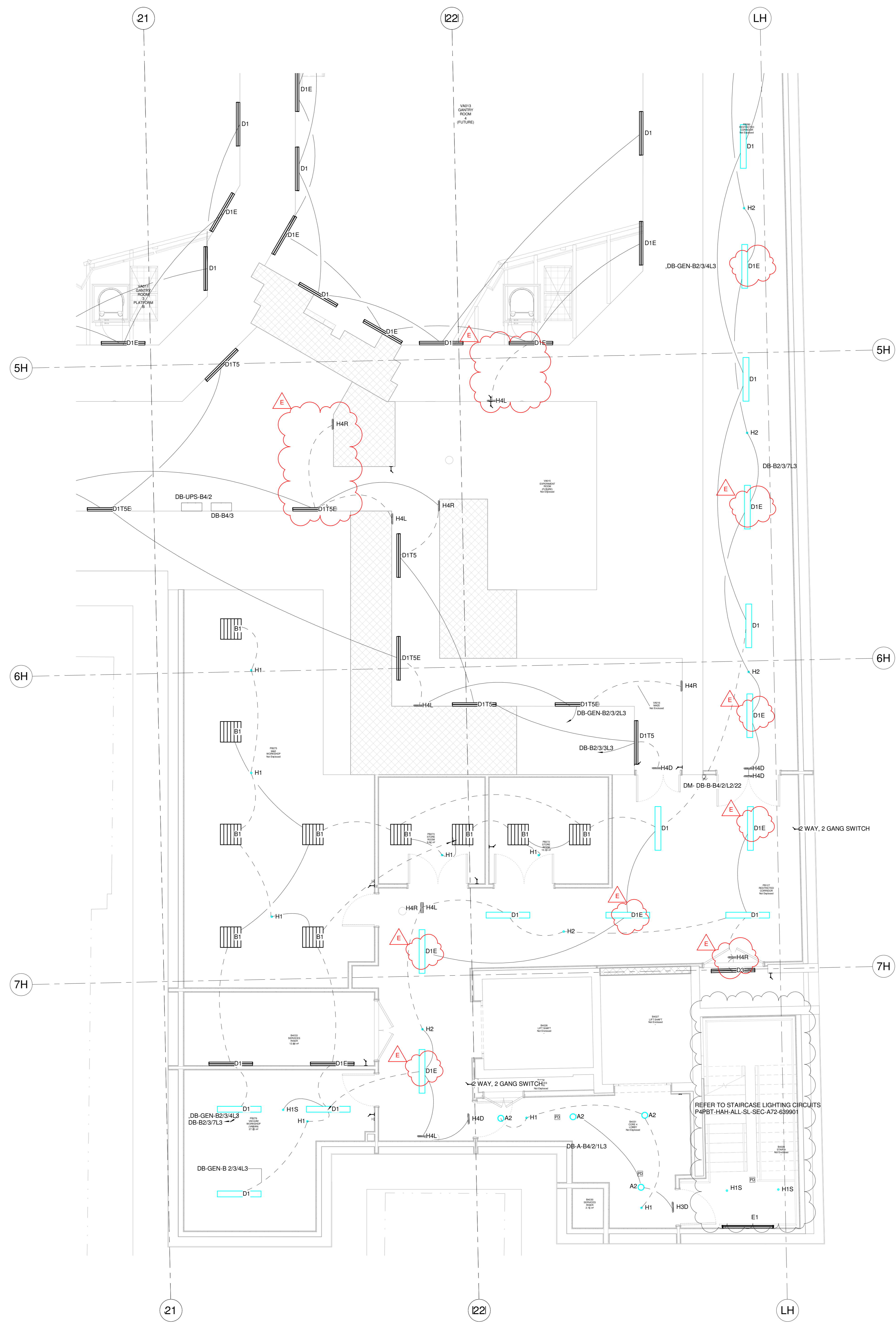
University College London Hospitals NHS Foundation Trust



**PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 4 LIGHTING LAYOUT SHEET 3**

SCALE	BM FILE NAME	REVISION					
1 : 50	P4PBT-IBS-ALL-SL-CM-A71-400000						
PROPOSED STATUS	PROPOSED DATE	PROPOSED BY					
4C S4 - FOR STAGE APPROVAL	11.04.18	IBS					
PROJECT	ISSUER	AREA	LEVEL	TYPE	TRADE	SEQUENCE	REVISION
P4PBT	IBS	MBG	B4	M2	A71	403013	E

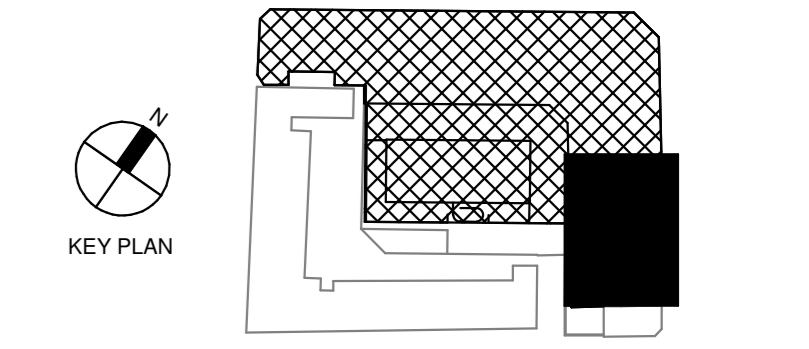
FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403012



- NOTES:**
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-IBS-MBG-B4-M2-A71-403012
  - DO NOT SCALE FROM THIS DRAWING
  - DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
  - CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  - LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  - LUMINAIRES TO BE CHANGED TO SURFACE TYPE
  - OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  - EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403002
  - REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH REMOTE LOCATION 1 LIGHT SWITCH
  - MODULATING DIMMING SWITCH REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

GENERAL CIRCUITING UPDATE



LINKED MODEL SCHEDULE

RVT Link	File Name	Model	Revision
P4PBT-CRE-SAB-SL-M3-A21-213002			P09
P4PBT-CRE-SBG-SL-M3-A31-213001			P03
P4PBT-IBS-ALL-SL-M3-A71-421852			
P4PBT-IBS-MBG-B4-M3-A71-421801			
P4PBT-KYO-AFA-SL-M3-3.01-700010			P02
P4PBT-KYO-AFA-SL-M3-3.01-700020			P04
P4PBT-KYO-AFA-SL-M3-3.01-700030			P03
P4PBT-KYO-AFA-SL-M3-3.01-700040			P01
P4PBT-KYO-AFA-SL-M3-3.01-700050			P05
P4PBT-KYO-AFA-SL-M3-3.01-700100			P01
P4PBT-KYO-AFA-SL-M3-3.01-700200			P04
P4PBT-STW-AAB-SL-M3-A31-100051			P49
P4PBT-STW-AAB-SL-M3-A31-100054			P51
P4PBT-STW-ABG-SL-M3-A31-100030			P50

- LUMINAIRES TYPES**
- AD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 120mm(W) x 90mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 86mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U - UP, D - DOWN, R - RIGHT, L - LEFT
  - K SLIM LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403013

REV	DATE	DESCRIPTION	BY	CHK	APP
E	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
D	2019.05.08	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2019.01.28	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2018.10.11	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2018.10.08	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		

REVISION DATE DESCRIPTION BY CHK APP

Main Contractor: Bouygues UK  
Buckett House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

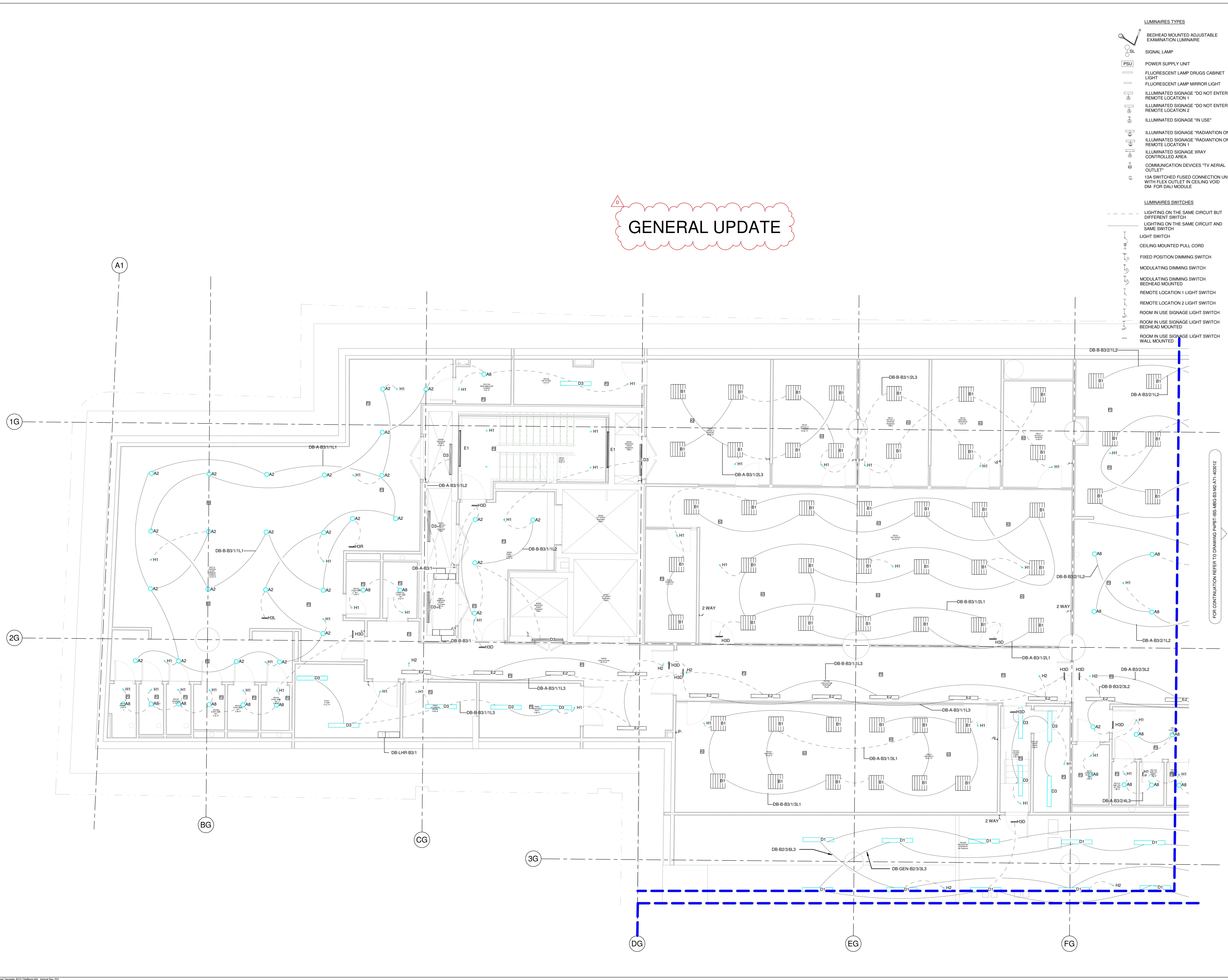
University College London Hospitals NHS Foundation Trust

ORIGINATOR IBSECAD

DRAWING TITLE PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 4 LIGHTING LAYOUT SHEET 4

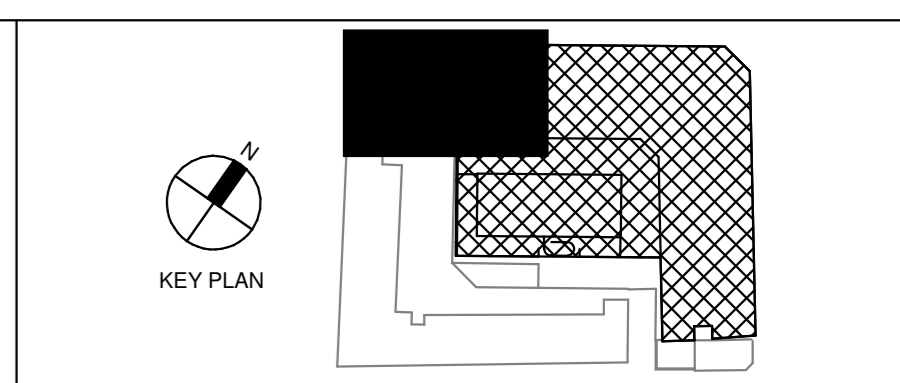
SCALE	1 : 50	BM FILE NAME	REVISION
PROPOSED STATUS	12.04.18	4C S4 - FOR STAGE APPROVAL	IBS
PROJECT	P4PBT	ISSUER	IBS
AREA	IBS	LEVEL	4
TYPE	M2	TRACE	A71
SEQUENCE	403014	REVISION	E

**GENERAL UPDATE**



- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM-FOR DALI MODULE

- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A2-213002		P09
P4PBT-CRE-SBS-SL-M3-A2-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421852		P23
P4PBT-IBS-MBG-B3-M3-A71-421802		P02
P4PBT-KYO-AFA-SL-M3-3.01-700010		P04
P4PBT-KYO-AFA-SL-M3-3.01-700020		P03
P4PBT-KYO-AFA-SL-M3-3.01-700030		P01
P4PBT-KYO-AFA-SL-M3-3.01-700040		P05
P4PBT-KYO-AFA-SL-M3-3.01-700050		P01
P4PBT-KYO-AFA-SL-M3-3.01-700100		P04
P4PBT-KYO-AFA-SL-M3-3.01-700200		P49
P4PBT-KYO-AFA-SL-M3-3.01-700300		P51
P4PBT-STW-AAB-SL-M3-A31-100054		P48
P4PBT-STW-AAB-SL-M3-A31-100054		P51
P4PBT-STW-ABG-SL-M3-A31-100030		P50

- LUMINAIRES TYPES**
- PRESENCE DETECTOR
  - ABSENCE DETECTOR
  - RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 300mm DIA x 100mm(H)
  - RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - RECESSED LED DOWNLIGHT 90mm (Ø)
  - RECESSED LED DOWNLIGHT 90mm (Ø)
  - TV DOWNLIGHT
  - DIRECT/INDIRECT LED 600S MODULE LUMINAIRE 597mm x 597mm x 71mm
  - DIRECT/INDIRECT LED 600S MODULE LUMINAIRE 594mm x 594mm x 42mm
  - DIRECT/INDIRECT LED 600S MODULE LUMINAIRE 599mm x 599mm x 96mm
  - DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - LINEAR ANTI-CORROSIVE LUMINAIRE 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP 1275mm(L) x 170mm(W) x 103 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE 1280mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP 1275mm(L) x 170mm(W) x 103 (H)
  - SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
  - RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
  - SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - RECESSED LED LIGHT 70mm x 100mm x VARIES
  - SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 131mm(W) x 95mm (H)
  - LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W) x 137mm (H)
  - RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
  - RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
  - RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 65mm(H) WIDE BEAM
  - RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L) x 150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - SLIM-LINE RECESSED LINEAR LED
  - OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT

REVISION	DATE	DESCRIPTION	ISSUED BY	CHECKED BY	APP'D BY
D	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2019.11.11	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2019.11.30	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2019.11.05	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
P01	2019.04.24	S3 FOR COMMENT	IBS		

Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

University College London Hospitals **NHS**  
 NHS Foundation Trust

ORIGINATOR **IBSECAD**

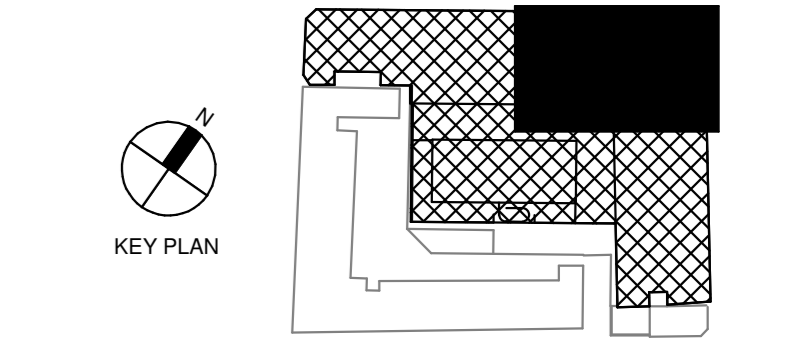
DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
 BASEMENT LEVEL 3 LIGHTING LAYOUT  
 SHEET 1**

SCALE @A3	BM FILE NAME - REVISION						
1 : 50	P4PBT-IBS-ALL-SL-CM-A71-40000						
FIRST ISSUE DATE	PROPOSED STATUS						
24.04.18	4C S4 - FOR STAGE APPROVAL						
PROJECT ISSUES	AREA	LEVEL	TYPE	TRACE	SEQUENCE	REVISION	
P4PBT	IBS	MBG	B3	M2	A71	403011	D

Small Text: B7D Tabletop\_A3\_Updated Rev 01

# GENERAL UPDATE

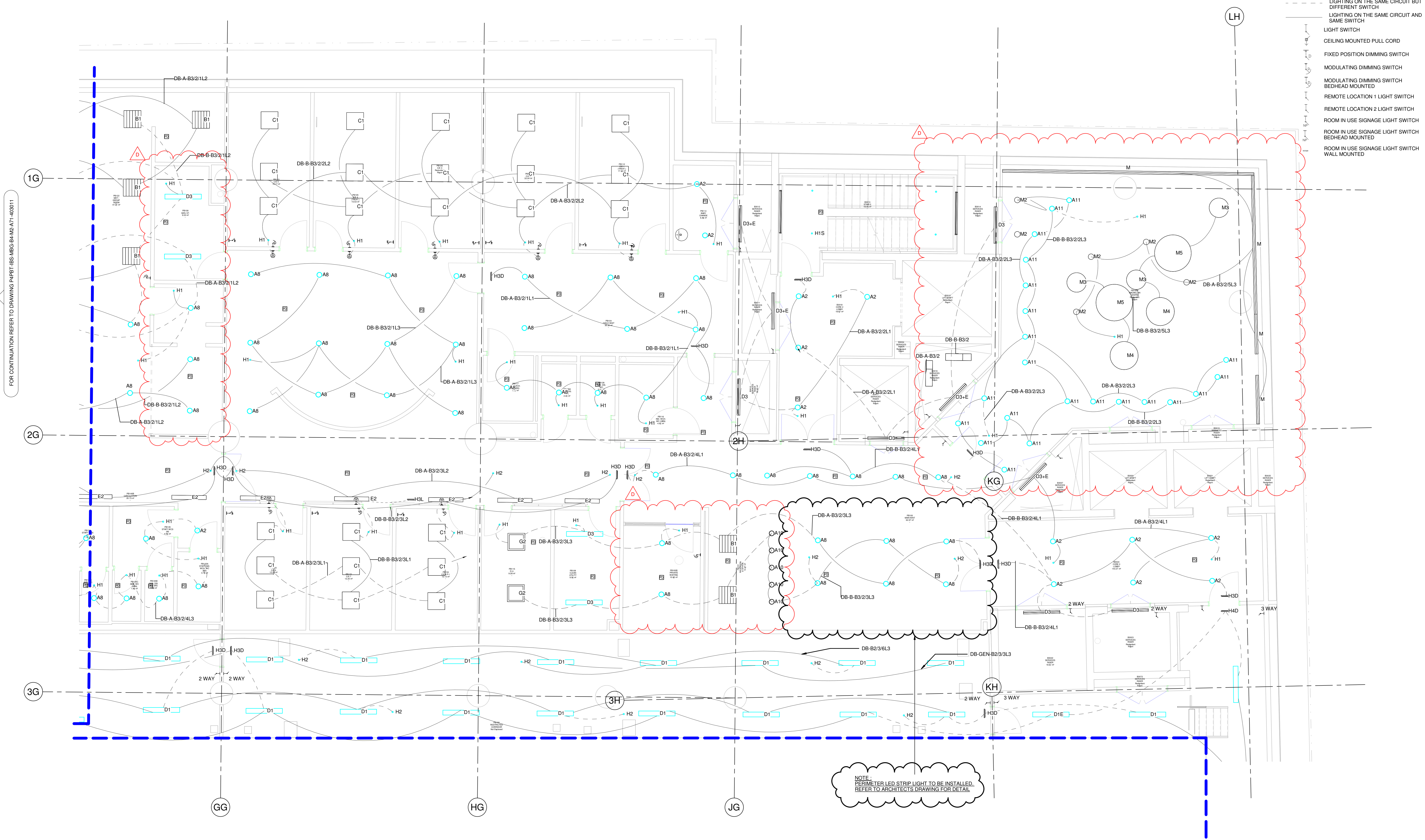
- LUMINAIRES TYPES**
- SL BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - PSU SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM: FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE

Model	Revision	File Name
P4PBT-CRE-SAB-SL-M3-A2	21-3002	P09
P4PBT-CRE-SBG-SL-M3-A2	21-3001	P03
P4PBT-IBS-ALL-SL-M3-A71	421852	P23
P4PBT-IBS-MBG-B3-M3-A71	421802	P04
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P48
P4PBT-STW-AAB-SL-M3-A31-100054		P51
P4PBT-STW-ABG-SL-M3-A31-100030		P50

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 96mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1260mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 180mm (W) x 107mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 153mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - G3+E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 350mm(L) x 145mm(H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SUM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT



NOTE: PERIMETER LED STRIP LIGHT TO BE INSTALLED. REFER TO ARCHITECTS DRAWING FOR DETAIL.

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403011

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B4-M2-A71-403014

REVISION	DATE	DESCRIPTION	BY	CHK	APP
D	2019.05.20	4b S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2019.11.11	4b S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2019.11.05	4b S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2019.04.24	4b S3 - FOR REVIEW AND COMMENT	IBS		
P01	2019.04.24	S3 FOR COMMENT	IBS		

Main Contractor: Bouygues UK  
Becket House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

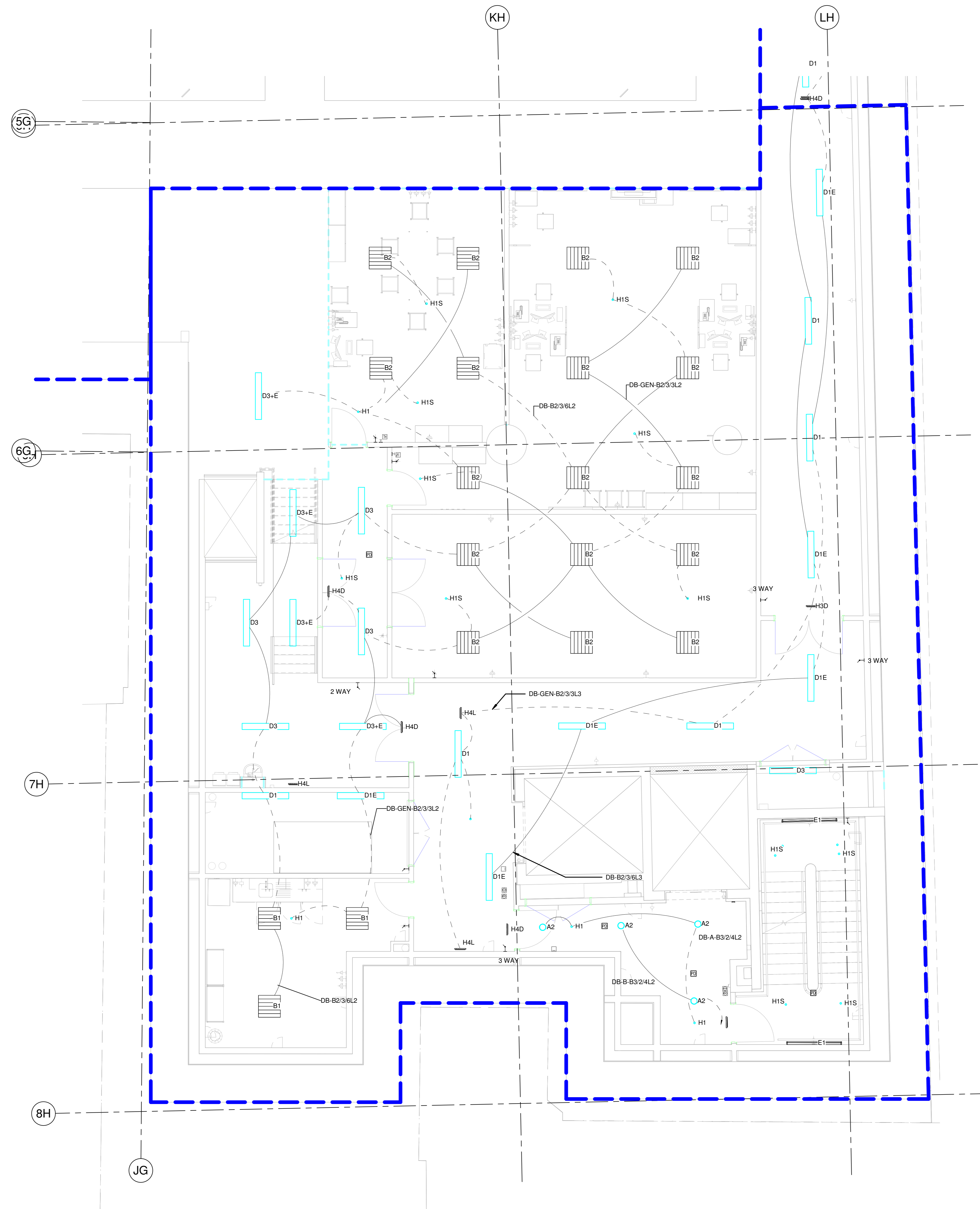
University College London Hospitals NHS Foundation Trust

ORIGINATOR: **IBSECAD**

DRAWING TITLE: **PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 3 LIGHTING LAYOUT SHEET 2**

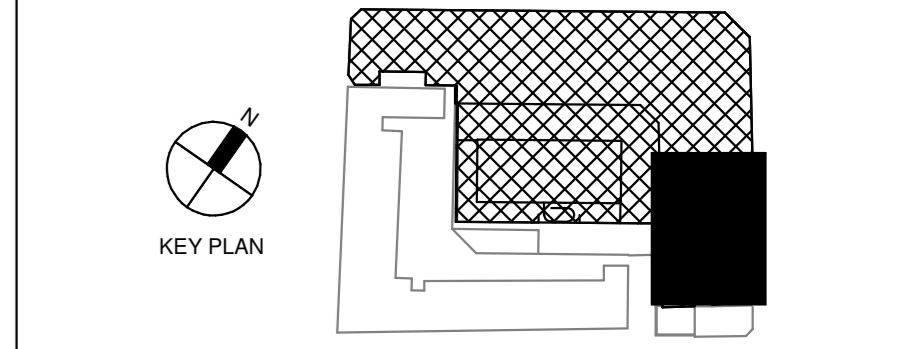
SCALE	1 : 50	BM FILE NAME	REVISION
PROPOSED STATUS	4b S4 - FOR STAGE APPROVAL		
PROJECT NUMBER	P4PBT	IBS	MBG
LEVEL	B3	M2	A71
REVISION	403012	D	

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B3-M2-A71-403012



- NOTES:**
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-IBS-ALL-SL-SCH-A72-006501
  - DO NOT SCALE FROM THIS DRAWING
  - DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
  - CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  - LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  - LUMINAIRES TO BE CHANGED TO SURFACE TYPE
  - OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  - EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-HAH-ALL-SL-SCM-A71-630002
  - REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

- LUMINAIRE TYPES**
- REDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRE SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



**LINKED MODEL SCHEDULE**

RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A21-213002	P09
P4PBT-CRE-SAB-SL-M3-A21-213001	P03
P4PBT-IBS-ALL-SL-M3-A71-421852	P03
P4PBT-IBS-MBG-B3-M3-A71-421802	P23
P4PBT-KYO-AFA-SL-M3-3.01-700010	P02
P4PBT-KYO-AFA-SL-M3-3.01-700020	P04
P4PBT-KYO-AFA-SL-M3-3.01-700030	P03
P4PBT-KYO-AFA-SL-M3-3.01-700040	P01
P4PBT-KYO-AFA-SL-M3-3.01-700050	P05
P4PBT-KYO-AFA-SL-M3-3.01-700100	P01
P4PBT-KYO-AFA-SL-M3-3.01-700200	P04
P4PBT-STW-AAB-SL-M3-A31-100051	P49
P4PBT-STW-AAB-SL-M3-A31-100054	P51
P4PBT-STW-ABG-SL-M3-A31-100030	P50

- LUMINAIRE TYPES**
- AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 150mm(W) x 95mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 150mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(W) x 95mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3+E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT

**GENERAL UPDATE**

REVISION	DATE	DESCRIPTION	BY	CHK	APP
D	2019.05.20	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
C	2019.02.11	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
B	2019.01.30	4C S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2018.10.12	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		

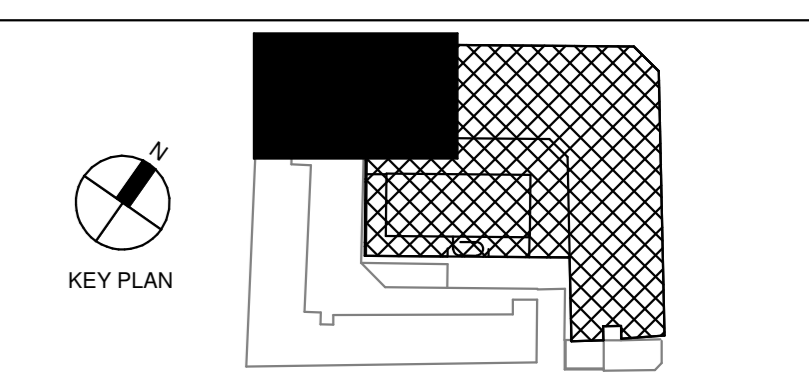
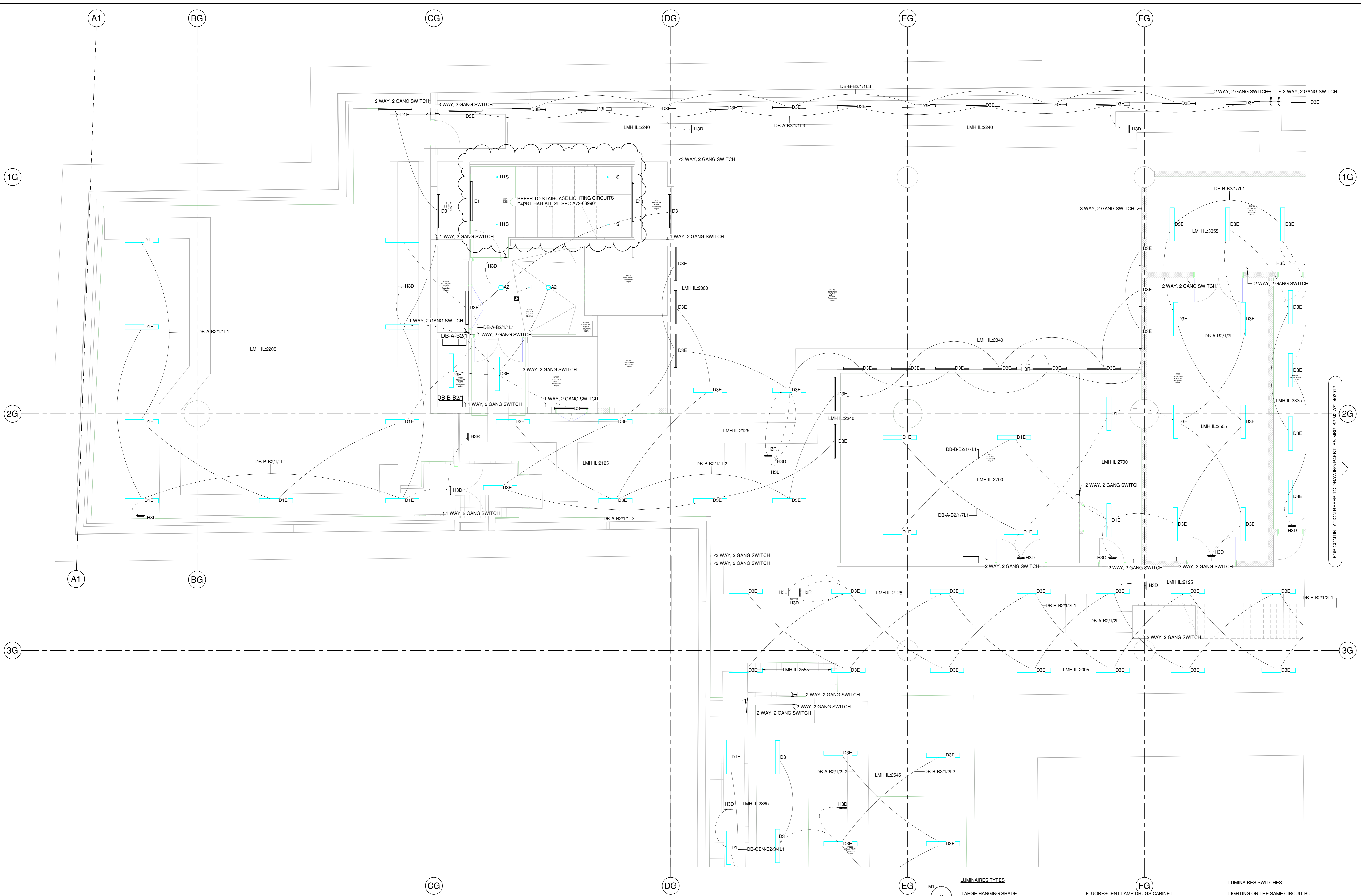
Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020



ORIGINATOR: **IBSECAD**

DRAWING TITLE: **PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 3 LIGHTING LAYOUT SHEET 4**

SCALE @A0	BM FILE NAME - REVISION
1 : 50	P4PBT-IBS-ALL-SL-CM-A71-40000
PROPOSED STATUS	PROPOSED STATUS
12.10.2018	4C S4 - FOR STAGE APPROVAL
PROJECT ISSUES	REVISION
P4PBT	IBS
MBG	B3
M2	A71
403014	D



LINKED MODEL SCHEDULE

REV	LINK FILE NAME	REV
P4PBT-ANE-MBG-B2-M2-A71-403001		P27
P4PBT-CRE-SAB-SL-M3-A71-210002		P09
P4PBT-CRE-SBCL-SL-M3-A71-210001		P03
P4PBT-IBS-ALL-SL-A71-421801		P02
P4PBT-IBS-MBG-B2-M2-A71-421802		P26
P4PBT-STW-AMB-SL-M3-A71-100010		P49
P4PBT-STW-AMB-SL-M3-A71-100020		P50
P4PBT-STW-ALL-SL-M3-A71-100010		P50

LUMINAIRE TYPES

PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
PC	PHOTO CELL
A2	RECESSED LED DOWNLIGHT 152mm(W) x 99mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 153mm(W) x 137mm(H)
A9	RECESSED LED DOWNLIGHT 152mm(W) x 99mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (Ø)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A13 (T)	LED Directional Spot Light (Type PT-J) 49mmØ X 80mm
A15	TV DOWNLIGHT
B1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 86mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 596mm x 596mm x 137mm
D1	LINEAR ANTI-CORROSION LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSION LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1T5	LINEAR ANTI-CORROSION LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1T5E	LINEAR ANTI-CORROSION LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D3	LINEAR ANTI-CORROSION LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSION LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
E6	LARGE FORMAT SURFACE MOUNTED ARTEMIDE TAGORA CEILING 1200mm (Ø)
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W) x 137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
G3+E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 60mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U,D,L,R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 955mm (L) x 150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
J	IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
K	SLIM LINE RECESSED LINEAR LED LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
L	LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
M	2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403012

**GENERAL UPDATE**  
 MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
 LMH = LIGHT MOUNTING HEIGHT

LUMINAIRE TYPES

M1	LARGE HANGING SHADE 800mm(Ø)	FLUORESCENT LAMP DRUGS CABINET LIGHT
M2	PENCIL PENDANT LIGHT 131mm (Ø) X 137mm	FLUORESCENT LAMP MIRROR LIGHT
ODL3	OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)	ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
P1	MIRROR LIGHT 300mm x 35mm x 88mm	ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
	EXAM LIGHT	ILLUMINATED SIGNAGE "IN USE"
	BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE	ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
	SIGNAL LAMP	ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
PSU	POWER SUPPLY UNIT	ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
		ILLUMINATED SIGNAGE XRAY OUTLET
		COMMUNICATION DEVICES "TV AERIAL OUTLET"
		13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE

LUMINAIRE SWITCHES

	LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
	LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
	LIGHT SWITCH
	CEILING MOUNTED PULL CORD
	FIXED POSITION DIMMING SWITCH
	MODULATING DIMMING SWITCH
	MODULATING DIMMING SWITCH BEDHEAD MOUNTED
	REMOTE LOCATION 1 LIGHT SWITCH
	REMOTE LOCATION 2 LIGHT SWITCH
	ROOM IN USE SIGNAGE LIGHT SWITCH
	ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
	ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403013

REV	DATE	DESCRIPTION	BY	CHK	APP
B	2019/08/08	4B S4 - FOR STAGE APPROVAL	IBS		
A	2019/02/21	4B S3 - FOR REVIEW & COMMENT	IBS		

Main Contractor: Bouygues UK  
 Bouygues House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

UNIVERSITY COLLEGE LONDON HOSPITALS **NHS**  
 NHS Foundation Trust

ORIGINATOR: **IBSECAD**

DRAWING TITLE: **PROTON BEAM THERAPY - PHASE 4  
 BASEMENT LEVEL 2 LIGHTING LAYOUT  
 SHEET 1**

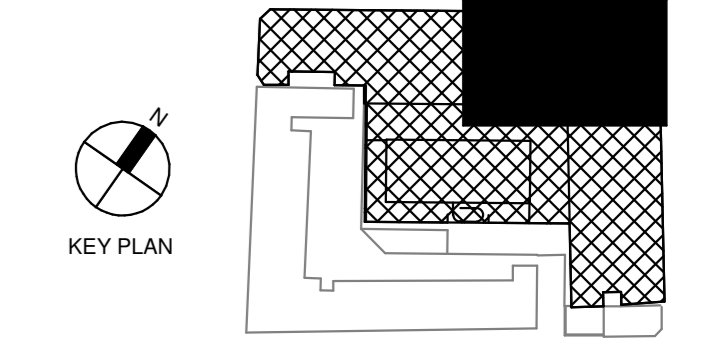
SCALE	BM FILE NAME	REVISION
1 : 50	P4PBT-IBS-MBG-B2-M3-A71-421803	
PROPOSED STATUS	PROPOSED DATE	PROPOSED BY
4B S4 - REVIEW & COMMENT	21.02.2019	IBS
PROJECT NUMBER	AREA	LEVEL
P4PBT-IBS-MBG-B2-M2	A71	403011
TRACK	SEQUENCE	REVISION
		B



GENERAL UPDATE  
MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT

- LUMINAIRES TYPES**
- M1 LARGE HANGING SHADE 800mm(D)
  - M2 PENCIL PENDANT LIGHT 131mm (D) X 137mm
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - EXAM LIGHT
  - SL BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SL SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
- LUMINAIRE TYPES**
- FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM-FOR DALI MODULE

- LUMINAIRE SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

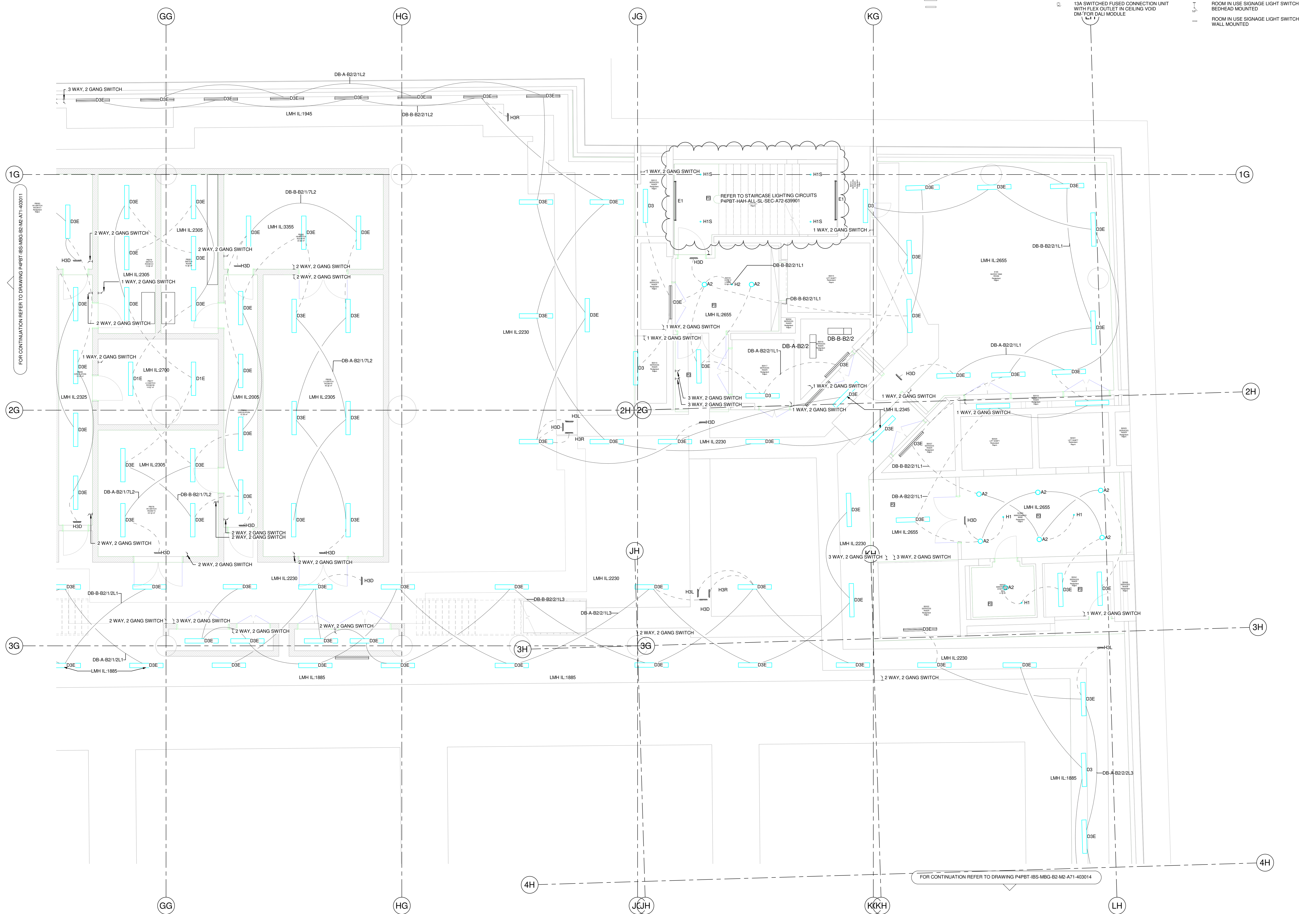


LINKED MODEL SCHEDULE

RVT Link File Name	Rev
P4PBT-IBS-MBG-B2-M2-A71-403011	001
P4PBT-IBS-MBG-B2-M2-A71-403011	002
P4PBT-IBS-MBG-B2-M2-A71-403011	003
P4PBT-IBS-MBG-B2-M2-A71-403011	004
P4PBT-IBS-MBG-B2-M2-A71-403011	005
P4PBT-IBS-MBG-B2-M2-A71-403011	006
P4PBT-IBS-MBG-B2-M2-A71-403011	007
P4PBT-IBS-MBG-B2-M2-A71-403011	008
P4PBT-IBS-MBG-B2-M2-A71-403011	009
P4PBT-IBS-MBG-B2-M2-A71-403011	010

**LUMINAIRE TYPES**

- PD PRESENCE DETECTOR
- AD ABSENCE DETECTOR
- PC PHOTO CELL
- A2 RECESSED LED DOWNLIGHT 152mm(W) x 99mm(H)
- A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
- A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
- A9 RECESSED LED DOWNLIGHT 152mm(W) x 99mm(H)
- A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
- A11 RECESSED LED DOWNLIGHT 90mm (D)
- A12 RECESSED LED DOWNLIGHT 90mm (D)
- A13 LED Directional Spot Light (Type PT-J) 49mmD x 85mm
- A15 TV DOWNLIGHT
- B1 DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 597mm x 597mm x 71mm
- B2 DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 594mm x 594mm x 42mm
- C1 DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 599mm x 599mm x 96mm
- C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
- D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
- D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
- D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
- D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
- D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
- D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
- E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
- E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
- E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
- E6 LARGE FORMAT SURFACE MOUNTED ARTEMIDE - TAGORA CEILING 1200mm (D)
- F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
- F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
- G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
- G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
- G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
- H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
- H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
- H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
- H3 (U.D.L.R) CEILING RECESSED 3 HOUR LED EXIT SIGN 305mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
- J IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
- K SLIM-LINE RECESSED LINEAR LED
- L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
- M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)



FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403011

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403014

REV	DATE	DESCRIPTION	BY	CHK	APP
B	2019/08/08	4B S4 - FOR STAGE APPROVAL	IBS		
A	2019/02/21	4B S3 - FOR REVIEW & COMMENT	IBS		

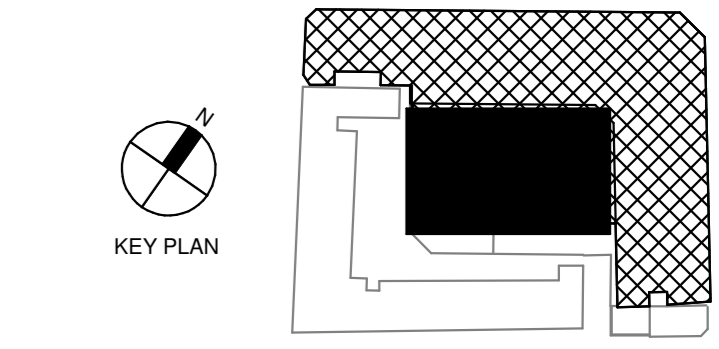
Main Contractor - Bouygues UK  
Becket House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020



ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
BASEMENT LEVEL 2 LIGHTING LAYOUT  
SHEET 2**

SCALE	1 : 50	BM FILE NAME	REVISION
PROPOSED STATUS	4B S4 - REVIEW & COMMENT	P4PBT-IBS-MBG-B2-M2-A71-421803	
FIRST ISSUE DATE	21.02.2019		
PROJECT	IBS	AREA	M2
LEVEL	A71	TRACE	403012
REVISION	B		



LINKED MODEL SCHEDULE

RVT Link File Name	Rev.
P4PBT-IBS-MBG-B2-M2-A71-403011	P27
P4PBT-CRE-SAB-SL-M3-A21-210002	P09
P4PBT-CRE-SAB-SL-M3-A21-210001	P03
P4PBT-IBS-ALL-SL-M3-A71-421801	P06
P4PBT-IBS-MBG-B2-M2-A71-421802	P06
P4PBT-IBS-MBG-B2-M2-A71-421803	P06
P4PBT-IBS-MBG-B2-M2-A71-421804	P06
P4PBT-IBS-MBG-B2-M2-A71-421805	P06
P4PBT-IBS-MBG-B2-M2-A71-421806	P06
P4PBT-IBS-MBG-B2-M2-A71-421807	P06
P4PBT-IBS-MBG-B2-M2-A71-421808	P06
P4PBT-IBS-MBG-B2-M2-A71-421809	P06
P4PBT-IBS-MBG-B2-M2-A71-421810	P06
P4PBT-IBS-MBG-B2-M2-A71-421811	P06
P4PBT-IBS-MBG-B2-M2-A71-421812	P06
P4PBT-IBS-MBG-B2-M2-A71-421813	P06
P4PBT-IBS-MBG-B2-M2-A71-421814	P06
P4PBT-IBS-MBG-B2-M2-A71-421815	P06
P4PBT-IBS-MBG-B2-M2-A71-421816	P06
P4PBT-IBS-MBG-B2-M2-A71-421817	P06
P4PBT-IBS-MBG-B2-M2-A71-421818	P06
P4PBT-IBS-MBG-B2-M2-A71-421819	P06
P4PBT-IBS-MBG-B2-M2-A71-421820	P06
P4PBT-IBS-MBG-B2-M2-A71-421821	P06
P4PBT-IBS-MBG-B2-M2-A71-421822	P06
P4PBT-IBS-MBG-B2-M2-A71-421823	P06
P4PBT-IBS-MBG-B2-M2-A71-421824	P06
P4PBT-IBS-MBG-B2-M2-A71-421825	P06
P4PBT-IBS-MBG-B2-M2-A71-421826	P06
P4PBT-IBS-MBG-B2-M2-A71-421827	P06
P4PBT-IBS-MBG-B2-M2-A71-421828	P06
P4PBT-IBS-MBG-B2-M2-A71-421829	P06
P4PBT-IBS-MBG-B2-M2-A71-421830	P06
P4PBT-IBS-MBG-B2-M2-A71-421831	P06
P4PBT-IBS-MBG-B2-M2-A71-421832	P06
P4PBT-IBS-MBG-B2-M2-A71-421833	P06
P4PBT-IBS-MBG-B2-M2-A71-421834	P06
P4PBT-IBS-MBG-B2-M2-A71-421835	P06
P4PBT-IBS-MBG-B2-M2-A71-421836	P06
P4PBT-IBS-MBG-B2-M2-A71-421837	P06
P4PBT-IBS-MBG-B2-M2-A71-421838	P06
P4PBT-IBS-MBG-B2-M2-A71-421839	P06
P4PBT-IBS-MBG-B2-M2-A71-421840	P06
P4PBT-IBS-MBG-B2-M2-A71-421841	P06
P4PBT-IBS-MBG-B2-M2-A71-421842	P06
P4PBT-IBS-MBG-B2-M2-A71-421843	P06
P4PBT-IBS-MBG-B2-M2-A71-421844	P06
P4PBT-IBS-MBG-B2-M2-A71-421845	P06
P4PBT-IBS-MBG-B2-M2-A71-421846	P06
P4PBT-IBS-MBG-B2-M2-A71-421847	P06
P4PBT-IBS-MBG-B2-M2-A71-421848	P06
P4PBT-IBS-MBG-B2-M2-A71-421849	P06
P4PBT-IBS-MBG-B2-M2-A71-421850	P06

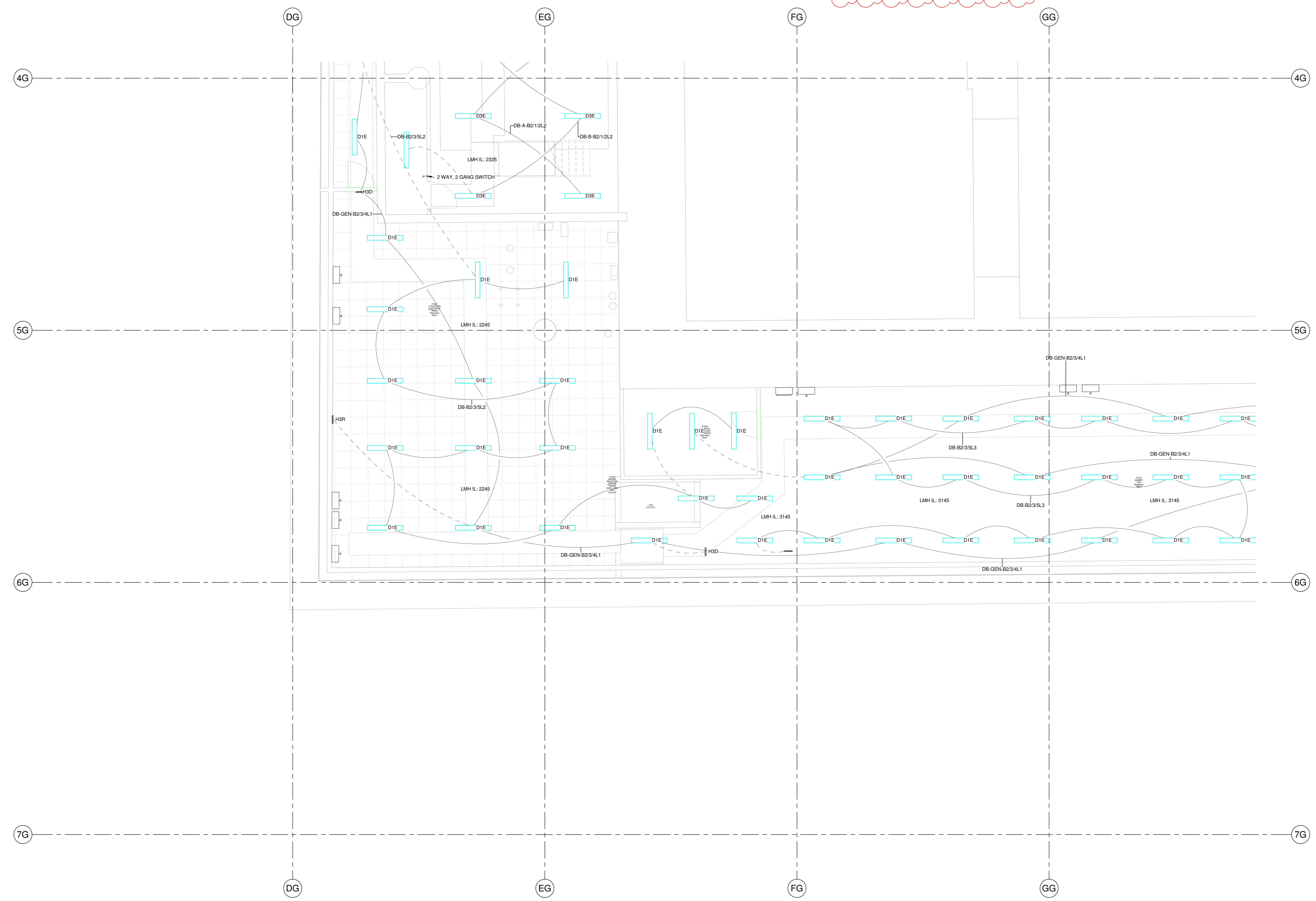
LUMINAIRES TYPES

PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
PC	PHOTO CELL
A2	RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 192mm(W) x 137mm(H)
A9	RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (Ø)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A13 (T)	LED Directional Spot Light (Type PT-J) 49mmØ X 90mm
A15	TV DOWNLIGHT
B1	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 65mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 596mm x 596mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1T5	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1T5E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1282mm(L) x 145mm(W) x 101 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
E6	LARGE FORMAT SURFACE MOUNTED ARTESIDE - TAGORA CEILING 1200mm (Ø)
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 193mm (W) x 137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U,D,L,R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 305mm (L) x 150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
J	IP54 WALL RECESSED LED WITH GRILLE 233mm x 89mm x 114mm
K	SLIM LINE RECESSED LINEAR LED
L	LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
M	2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)

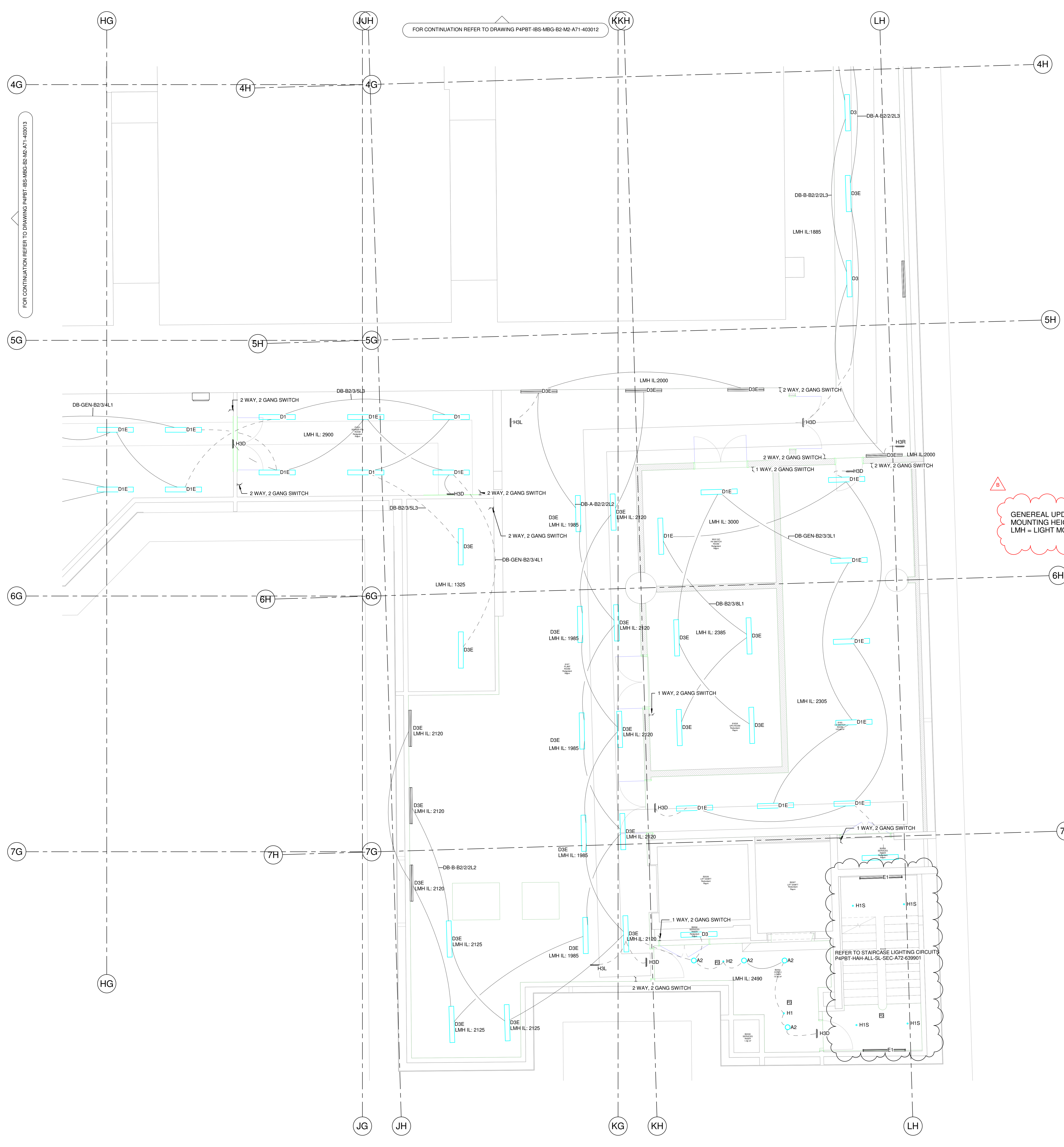
FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403014

GENERAL UPDATE  
MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403011



Sheet Template: B10-TabBlock\_A01\_Updated-Rev-010

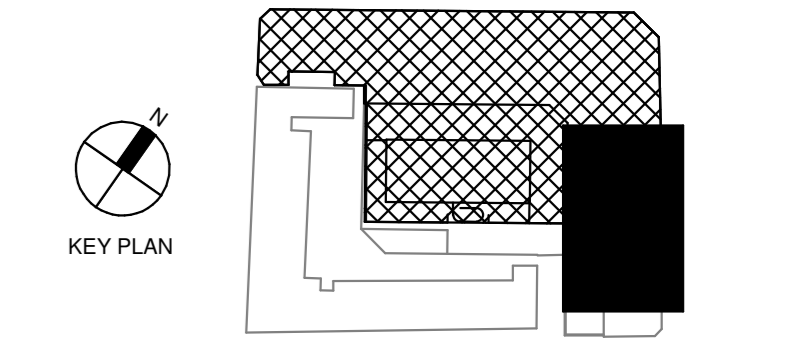


FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403012

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403013

- LUMINAIRES TYPES**
- M1 LARGE HANGING SHADE 800mm(D)
  - M2 PENCIL PENDANT LIGHT 131mm (Ø) X 137mm
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - EXAM LIGHT
  - Q BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SL SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

**GENERAL UPDATE MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED**  
LMH = LIGHT MOUNTING HEIGHT



LINKED MODEL SCHEDULE

RVT Link File Name	Rev.
P4PBT-ANE-MBG-B2-M2-A71-403011	027
P4PBT-ANE-SAB-SL-M2-A21-210002	009
P4PBT-ANE-SAB-SL-M2-A21-210003	003
P4PBT-IBS-ALL-SL-M2-A71-421801	002
P4PBT-IBS-MBG-B2-M2-A71-421802	002
P4PBT-STW-AMB-SL-M2-A31-100001	049
P4PBT-STW-AMB-SL-M2-A31-100002	050
P4PBT-STW-ALL-SL-M2-A31-100003	001

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - PC PHOTO CELL
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 80mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A13 (T) LED Directional Spot Light (Type PT-J) 49mmØ X 80mm
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 600S MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 600S MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 600S MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - E6 LARGE FORMAT SURFACE MOUNTED ARTEMIDE - TAGORA CEILING 1200mm (Ø)
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 826mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm Wx137mm(H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - J IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)

REVISION	DATE	DESCRIPTION	DATE	BY	APP
B	2019/08/08	4B S4 - FOR STAGE APPROVAL		IBS	
A	2019/02/21	4B S3 - FOR REVIEW & COMMENT		IBS	

Main Contractor - Bouygues UK  
Buckett House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

University College London Hospitals NHS Foundation Trust

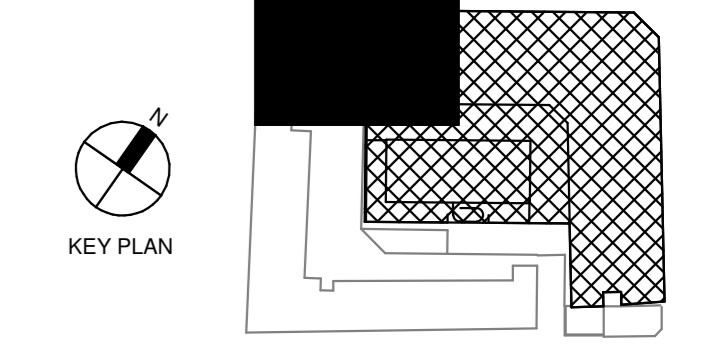
ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 2 LIGHTING LAYOUT SHEET 4**

SCALE @A0 <b>1 : 50</b>	BM FILE NAME - REVISION P4PBT-IBS-MBG-B2-M2-A71-421803
FIRST ISSUE DATE <b>21.02.2019</b>	PROPOSED STATUS <b>4B S4 - FOR STAGE APPROVAL</b>
PROJECT ISSUED AREA <b>P4PBT IBS MBG B2 M2 A71 403014</b>	LEVEL TRADE SEQUENCE REVISION <b>B</b>

**GENERAL UPDATE  
MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT**

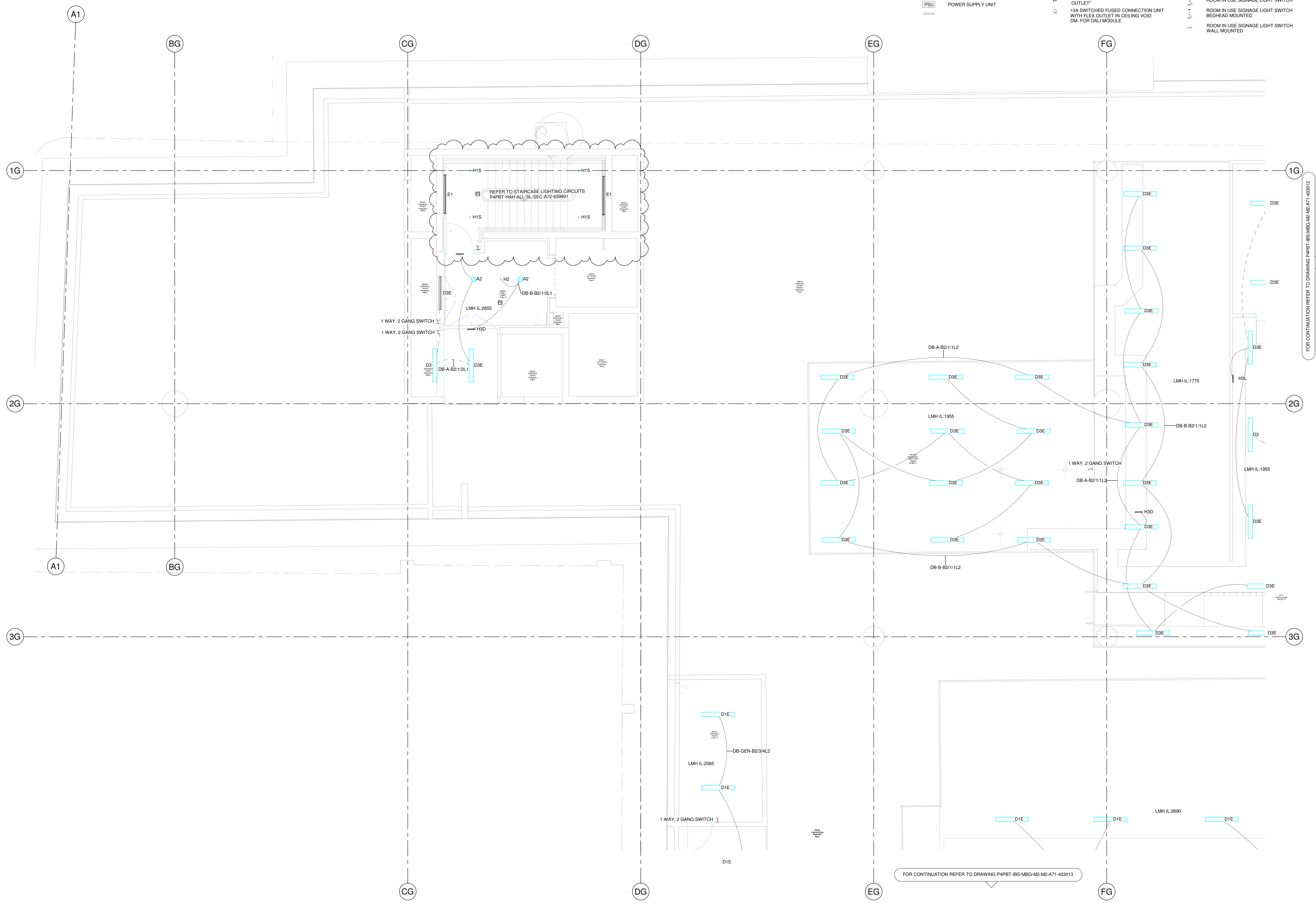
- LUMINAIRES TYPES**
- M1 LARGE HANGING SHADE 800mm(D)
  - M2 PENCIL PENDANT LIGHT 131mm (Ø) X 137mm
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT 'ROOM IN USE' 2817F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - EXAM EXAM LIGHT
  - QA BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SL SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
- LUMINAIRES SWITCHES**
- FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE 'DO NOT ENTER' REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE 'DO NOT ENTER' REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE 'IN USE'
  - ILLUMINATED SIGNAGE 'RADIATION ON' REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE 'RADIATION ON' REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES 'TV AERIAL OUTLET'
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE

RVT Link File Name	Rev.
P4PBT-ANE-MBG-B2-M2-A71-403011	P27
P4PBT-CRE-SAB-SL-M2-A31-213025	P28
P4PBT-CRE-2805-SL-M2-A31-213021	P29
P4PBT-IBS-ALL-SL-M2-A71-421851	P30
P4PBT-IBS-MBG-B2-M2-A71-403011	P31
P4PBT-STW-ASB-SL-M2-A31-100021	P40
P4PBT-STW-MBG-SL-M2-A31-100020	P45
P4PBT-STW-ALL-SL-M2-A31-100019	P46

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - PC PHOTO CELL
  - A2 RECESSED LED DOWNLIGHT 150mm(W) x 98mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 150mm(W) x 98mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A13 LED Directional Spot Light (Type PT-J) 49mmØ X 90mm
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1282mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIIVE LUMINAIRE - 1275mm(L) x 170mm(W) x 103 (H)
  - D3E LINEAR ANTI-CORROSIIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 75mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - E6 LARGE FORMAT SURFACE MOUNTED ARTEMIDE - TAGORA CEILING 1200mm (Ø)
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U.D.L.R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - J IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)



FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-B2-M2-A71-403012

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-M2-M2-A71-403013

REV	DATE	DESCRIPTION	BY	CHK	APP
B	2019 08 08	4B S4 - FOR STAGE APPROVAL	IBS		
A	2019 02 21	4B S3 - FOR REVIEW & COMMENT	IBS		

**SCOUTAGES**  
Main Contractor - Bouygues UK  
Becket House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

University College London Hospitals **NHS**  
NHS Foundation Trust

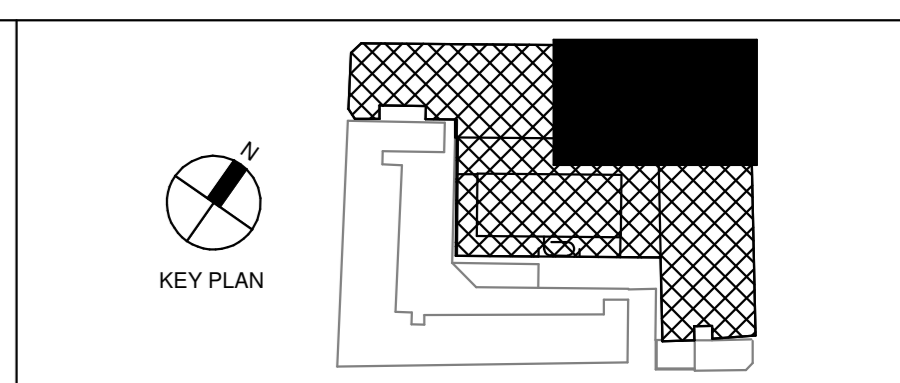
ORIGINATOR **IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
MEZZANINE LEVEL LIGHTING LAYOUT  
SHEET 1**

SCALE	1 : 50	BM FILE NAME	REVISION
PROPOSED STATUS	4B S4 - FOR STAGE APPROVAL		
PROJECT ISSUED	AREA	LEVEL	TRADE
P4PBT	IBS	MBG	M2
			A71
			403011
			B

GENERAL UPDATE  
MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT

- LUMINAIRES TYPES**
- M1 LARGE HANGING SHADE 800mm(Ø)
  - M2 PENCIL PENDANT LIGHT 131mm (Ø) x 137mm
  - QDL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2017F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - SL EXAM LIGHT
  - SL BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - PSU SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
- LUMINAIRE SWITCHES**
- FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRE TYPES**
- AD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - PC PHOTO CELL
  - A2 RECESSED LED DOWNLIGHT 120mm(W) x 96mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 120mm(W) x 96mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A13 (T) LED Directional Spot Light (Type PT-J) 46mmØ X 90mm
  - A15 TV DOWNLIGHT
  - B1 DIRECT/ INDIRECT LED 60WS MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/ INDIRECT LED 60WS MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/ INDIRECT LED 60WS MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - E6 LARGE FORMAT SURFACE MOUNTED ARTEMIDE - TAGORA CEILING 1200mm (Ø)
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 255mm (L)x150mm (H) (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - J IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)

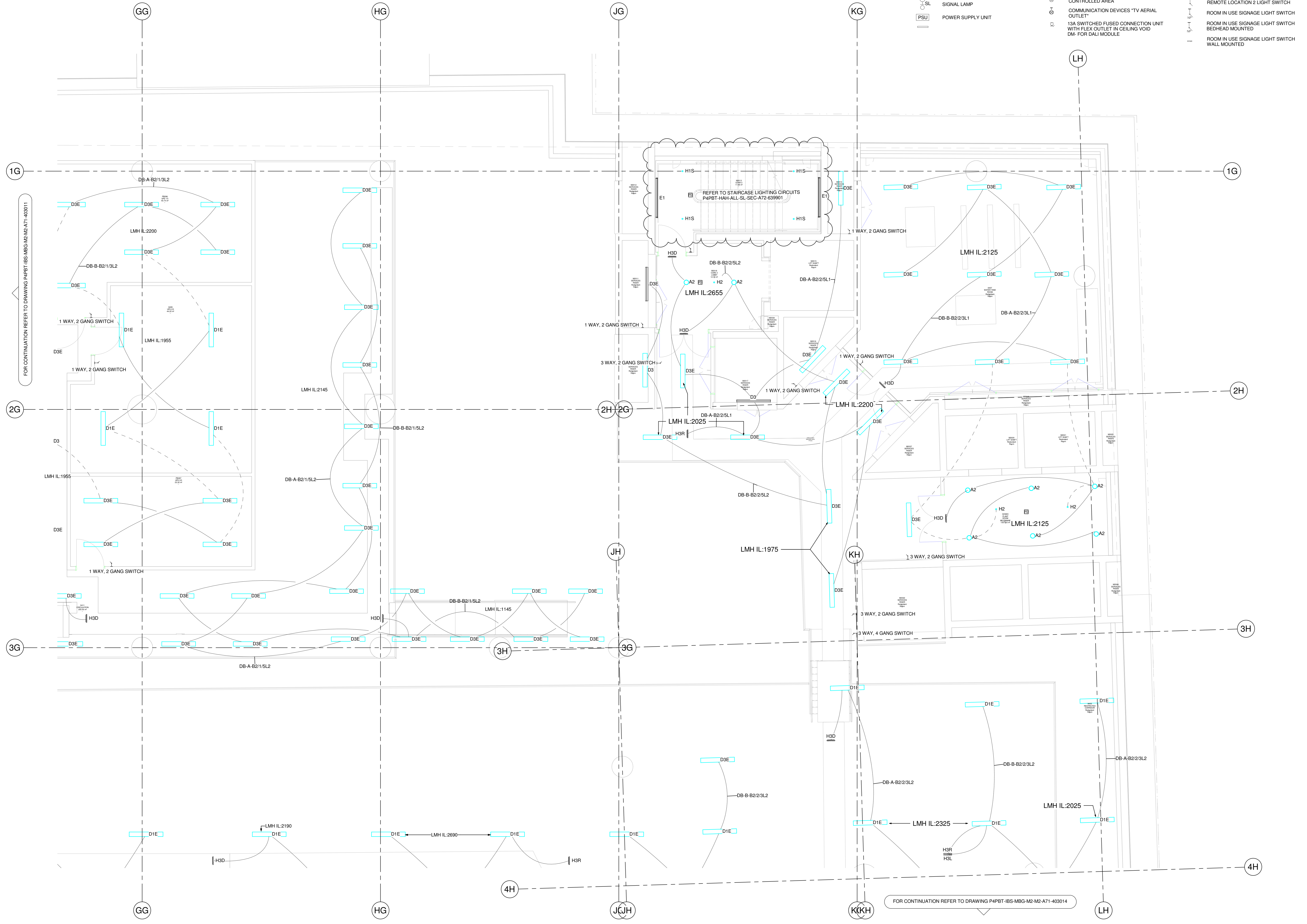


LINKED MODEL SCHEDULE

REV	DATE	DESCRIPTION	BY	CHK	APP
1	2019 02 21	ISSUE FOR STAGE APPROVAL	IBS		
2	2019 02 21	FOR REVIEW & COMMENT	IBS		

**LUMINAIRE TYPES**

REV	DATE	DESCRIPTION	BY	CHK	APP
1	2019 02 21	ISSUE FOR STAGE APPROVAL	IBS		
2	2019 02 21	FOR REVIEW & COMMENT	IBS		



FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-M2-A71-403011

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-M2-A71-403014

REV	DATE	DESCRIPTION	BY	CHK	APP
1	2019 02 21	ISSUE FOR STAGE APPROVAL	IBS		
2	2019 02 21	FOR REVIEW & COMMENT	IBS		

Main Contractor: Bouygues UK  
Becket House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

University College London Hospitals **NHS**  
NHS Foundation Trust

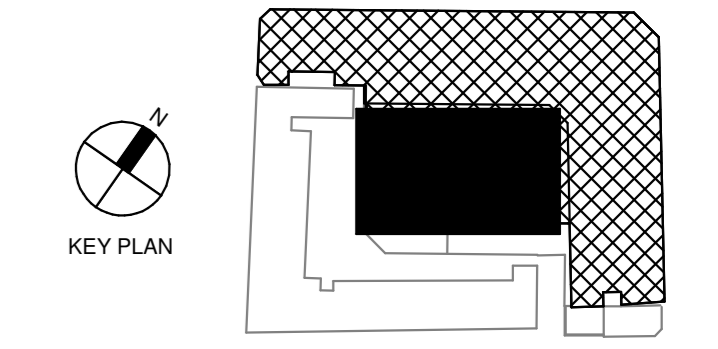
ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
MEZZANINE LEVEL LIGHTING LAYOUT  
SHEET 2**

SCALE @A0	1 : 50	BM FILE NAME - REVISION	P4PBT-IBS-MBG-B2-M3-A71-421803
FIRST ISSUE DATE	21.02.2019	PROPOSED STATUS	4B S4 - FOR STAGE APPROVAL
PROJECT NUMBER	4B S4	LEVEL	M2
AREA	M2	TRADE	A71
REVISION	403012	REVISION	B

**GENERAL UPDATE  
MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT**

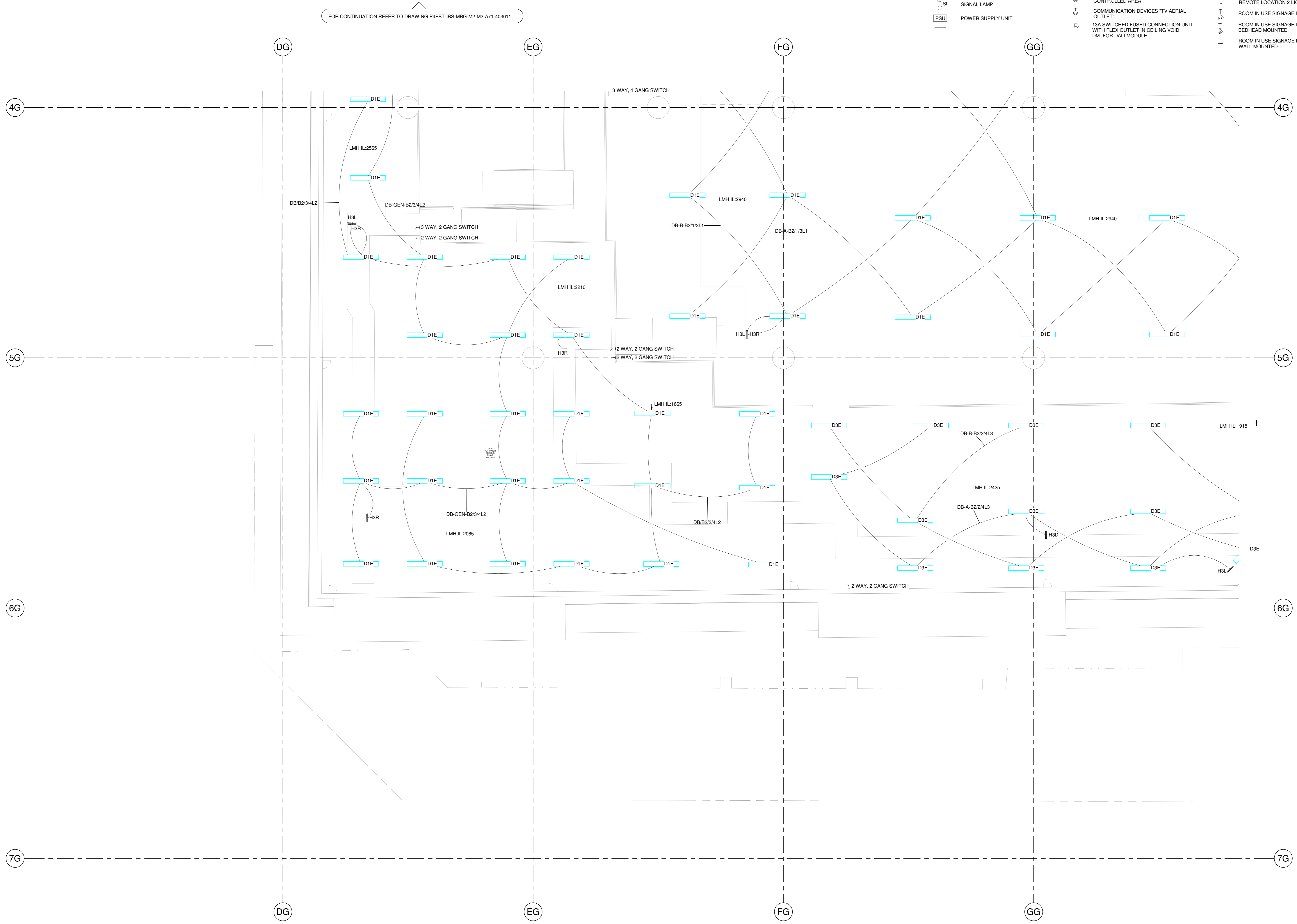
- LUMINAIRES TYPES**
- M1 LARGE HANGING SHADE 600mm(D)
  - M2 PENCIL PENDANT LIGHT 131mm (Ø) X 137mm
  - OOD3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - EXAM LIGHT
  - QA BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SL SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
- LUMINAIRES SWITCHES**
- FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM-FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED FULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE

RVT Link File Name	Rev
P4PBT-IBS-MBG-B2-M2-A71-403011	001
P4PBT-IBS-MBG-B2-M2-A71-403011	002
P4PBT-IBS-MBG-B2-M2-A71-403011	003
P4PBT-IBS-MBG-B2-M2-A71-403011	004
P4PBT-IBS-MBG-B2-M2-A71-403011	005
P4PBT-IBS-MBG-B2-M2-A71-403011	006
P4PBT-IBS-MBG-B2-M2-A71-403011	007
P4PBT-IBS-MBG-B2-M2-A71-403011	008
P4PBT-IBS-MBG-B2-M2-A71-403011	009
P4PBT-IBS-MBG-B2-M2-A71-403011	010

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - PC PHOTO CELL
  - A2 RECESSED LED DOWNLIGHT 120mm(W) 98mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 120mm(W) x 98mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm (Ø)
  - A13 (T) LED Directional Spot Light (Type PT-J) 49mmØ X 80mm
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 36mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - E6 LARGE FORMAT SURFACE MOUNTED ARTISMALE - TAGORA CEILING 1200mm (Ø)
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x153mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 255mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - J IP54 WALL RECESSED LED WITH GRILLE 223mm x 88mm x 114mm
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)



REVISION	DATE	DESCRIPTION	DATE	BY	CHK	APP
B	2019/08/08	4B S4 - FOR STAGE APPROVAL		IBS		
A	2019/02/21	4B S3 - FOR REVIEW & COMMENT		IBS		

Main Contractor - Bouygues UK  
Becket House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020



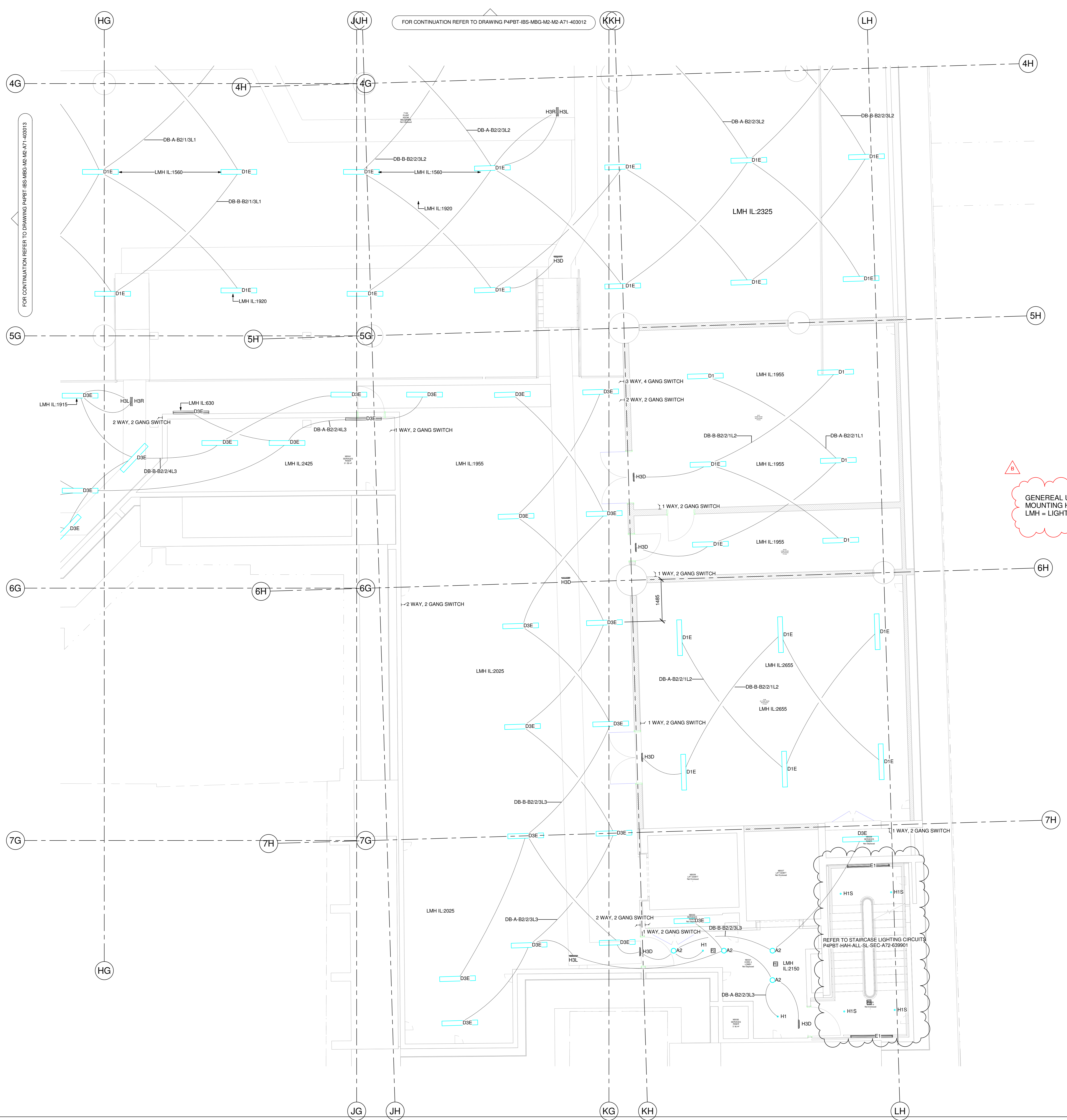
ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
MEZZANINE LEVEL LIGHTING LAYOUT  
SHEET 3**

SCALE @A0  
1 : 50

BM FILE NAME - REVISION  
P4PBT-IBS-MBG-B2-M3-A71-421803

PROJECT	ISSUE	AREA	LEVEL	TYPE	TRADE	SEQUENCE	REVISION
P4PBT	IBS	MBG	M2	M2	A71	403013	B

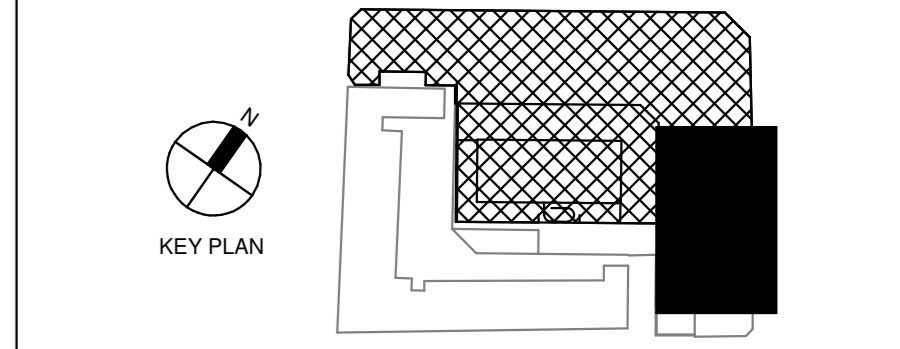


FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-M2-A71-403012

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MBG-M2-A71-403013

- LUMINAIRE TYPES**
- M1 LARGE HANGING SHADE 800mm(Ø)
  - M2 PENCIL PENDANT LIGHT 151mm(Ø) X 137mm
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT 'ROOM IN USE' 2617F (FLUSH LED)
  - P1 MIRROR LIGHT 300mm x 35mm x 88mm
  - EXAM LIGHT
  - SL BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - PSU SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRE SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

GENERAL UPDATE MOUNTING HEIGHTS, SWITCHES AND EXIT SIGNS ADDED  
LMH = LIGHT MOUNTING HEIGHT



LINKED MODEL SCHEDULE

RVT Link File Name	Rev
P4PBT-ANE-MBG-B2-M3-A71-50001	P27
P4PBT-FRE-SAB-SL-M3-A21-21002	P10
P4PBT-FRE-SAB-SL-M3-A21-21001	P10
P4PBT-IBS-ALL-SL-M3-A71-42101	P10
P4PBT-IBS-MBG-B2-M3-A71-42102	P10
P4PBT-IBS-MBG-B2-M3-A71-42103	P10
P4PBT-IBS-MBG-B2-M3-A71-42104	P10
P4PBT-IBS-MBG-B2-M3-A71-42105	P10
P4PBT-IBS-MBG-B2-M3-A71-42106	P10
P4PBT-IBS-MBG-B2-M3-A71-42107	P10
P4PBT-IBS-MBG-B2-M3-A71-42108	P10
P4PBT-IBS-MBG-B2-M3-A71-42109	P10
P4PBT-IBS-MBG-B2-M3-A71-42110	P10
P4PBT-IBS-MBG-B2-M3-A71-42111	P10
P4PBT-IBS-MBG-B2-M3-A71-42112	P10
P4PBT-IBS-MBG-B2-M3-A71-42113	P10
P4PBT-IBS-MBG-B2-M3-A71-42114	P10
P4PBT-IBS-MBG-B2-M3-A71-42115	P10
P4PBT-IBS-MBG-B2-M3-A71-42116	P10
P4PBT-IBS-MBG-B2-M3-A71-42117	P10
P4PBT-IBS-MBG-B2-M3-A71-42118	P10
P4PBT-IBS-MBG-B2-M3-A71-42119	P10
P4PBT-IBS-MBG-B2-M3-A71-42120	P10

- LUMINAIRE TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - PC PHOTO CELL
  - A2 RECESSED LED DOWNLIGHT 150mm(W) x 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM: 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 150mm(W) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm(Ø) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm(Ø)
  - A12 RECESSED LED DOWNLIGHT 90mm(Ø)
  - A13 LED Directional Spot Light (Type PT-J) 45mmØ x 90mm
  - A15 TV DOWNLIGHT
  - B1 DIRECT INDIRECT LED 600S0 MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT INDIRECT LED 600S0 MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT INDIRECT LED 600S0 MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101(H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103(H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101(H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103(H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1285mm(L) x 145mm(W) x 101(H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103(H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - E6 LARGE FORMAT SURFACE MOUNTED ARTEMIDE - TAGORA CEILING 1200mm(Ø)
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 60mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - J IP54 WALL RECESSED LED WITH GRILLE 223mm x 89mm x 114mm
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)

REV	DATE	DESCRIPTION	BY	CHK	APP
B	2019 08 08	4B S4 - FOR STAGE APPROVAL	IBS		
A	2019 02 21	4B S3 - FOR REVIEW & COMMENT	IBS		

REVISION DATE DESCRIPTION BY CHK APP

Main Contractor: Bouygues UK  
Buckett House  
1 Lambeth Palace Rd  
Lambeth, London SE1 7EU  
Tel: 020 7401 0020

ORIGINATOR

**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
MEZZANINE LEVEL LIGHTING LAYOUT  
SHEET 4**

SCALE @A0  
1 : 50

BM FILE NAME: REVISION  
P4PBT-IBS-MBG-B2-M3-A71-421803

PROPOSED STATUS  
4B S4 - FOR STAGE APPROVAL

FIRST ISSUE DATE  
21.02.2019

PROJECT NUMBER AREA LEVEL TYPE TRADE SECOND ISSUE REVISION  
P4PBT IBS MBG M2 M2 A71 403014 B

**NOTES:**

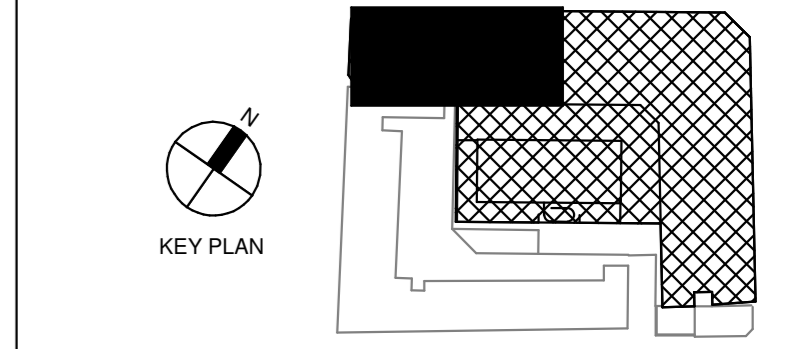
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-SCM-A72-006001
- DO NOT SCALE FROM THIS DRAWING
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
- CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
- LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
- LUMINAIRES TO BE CHANGED TO SURFACE TYPE
- OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3 HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
- EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-HAH-ALL-SL-SCM-A71-630002
- REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
- THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

**LUMINAIRE TYPES**

- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
- SIGNAL LAMP
- PSU POWER SUPPLY UNIT
- FLUORESCENT LAMP DRUGS CABINET LIGHT
- FLUORESCENT LAMP MIRROR LIGHT
- ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
- ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
- ILLUMINATED SIGNAGE "IN USE"
- ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
- ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
- ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
- COMMUNICATION DEVICES "TV AERIAL OUTLET"
- 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM - FOR DALI MODULE

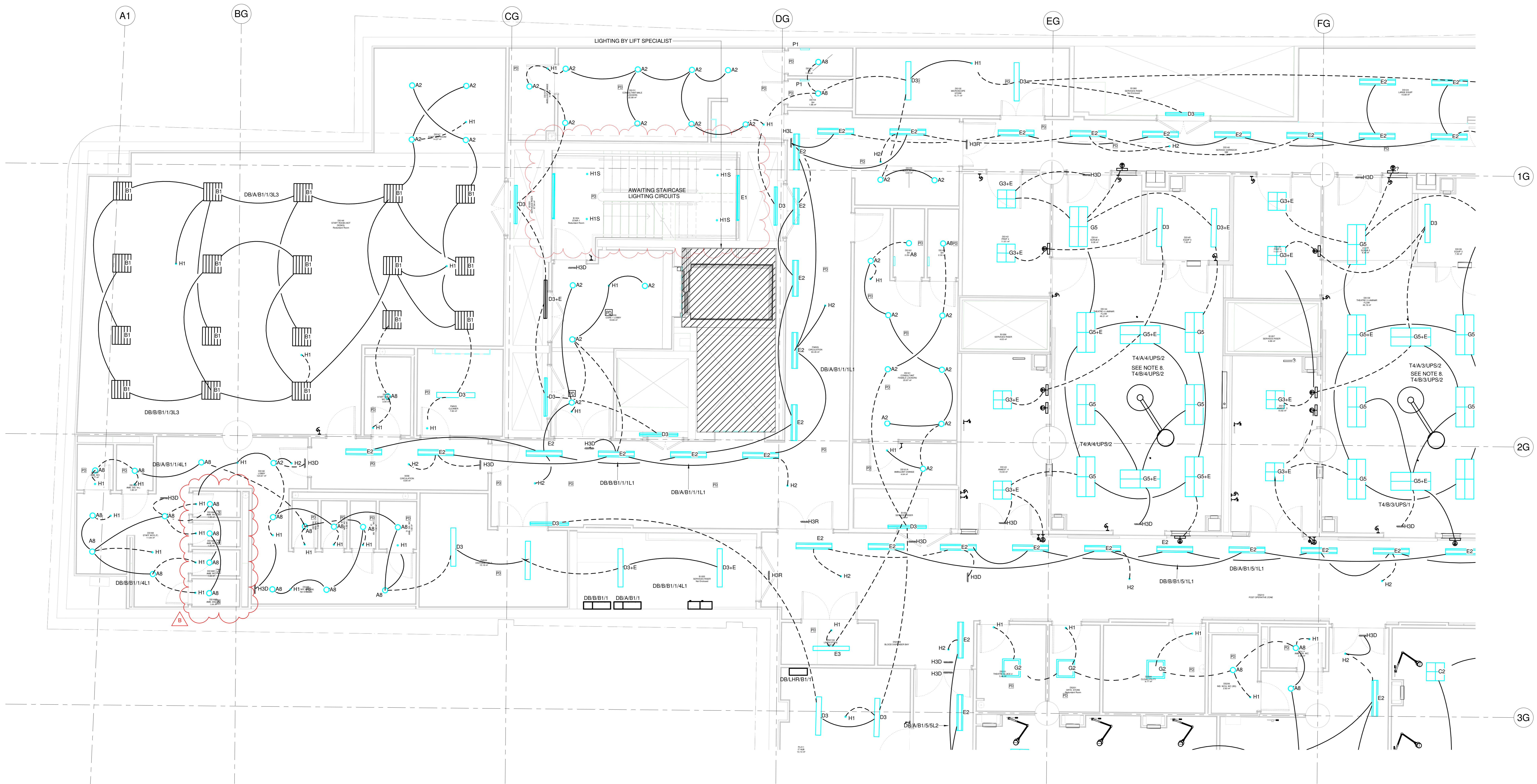
**LUMINAIRE SWITCHES**

- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
- LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
- LIGHT SWITCH
- CEILING MOUNTED PULL CORD
- FIXED POSITION DIMMING SWITCH
- MODULATING DIMMING SWITCH
- REMOTE LOCATION 1 LIGHT SWITCH
- REMOTE LOCATION 2 LIGHT SWITCH
- ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
- ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A21-213002		P09
P4PBT-CRE-SRG-SL-M3-A21-3001		P03
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-ALL-SL-M3-A71-421501		
P4PBT-IBS-ALL-SL-M3-A71-421851		
P4PBT-IBS-ALL-SL-M3-A71-421853		
P4PBT-IBS-MAB-01-M3-A71-421807		P015
P4PBT-IBS-MBG-B1-M3-A71-421805		P14
P4PBT-IBS-MBG-B3-M3-A71-421802		P23
P4PBT-IBS-MBG-B4-M3-A71-421801		
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P49
P4PBT-STW-AAB-SL-M3-A31-100054		P52
P4PBT-STW-ABG-SL-M3-A31-100030		P50

LUMINAIRE TYPES	
PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
A2	RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 183mm(w) x 137mm(H)
A9	RECESSED LED DOWNLIGHT 192mm(w) x 99mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (D)
A12	RECESSED LED DOWNLIGHT 90mm (D)
A15	TV DOWNLIGHT
B1	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/ INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 599mm x 599mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1TS	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1TSE	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1262mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
E2	SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E2E	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 369mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 163mm (W) x 137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U,D,L,R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
K	SLIM-LINE RECESSED LINEAR LED
ODL3	OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
Exam Light	EXAM LIGHT



REVISION	DATE	DESCRIPTION	BY	CHK	APP
B	2019.05.24	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2019.02.13	4B S3 - FOR REVIEW & COMMENT	IBS		

Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

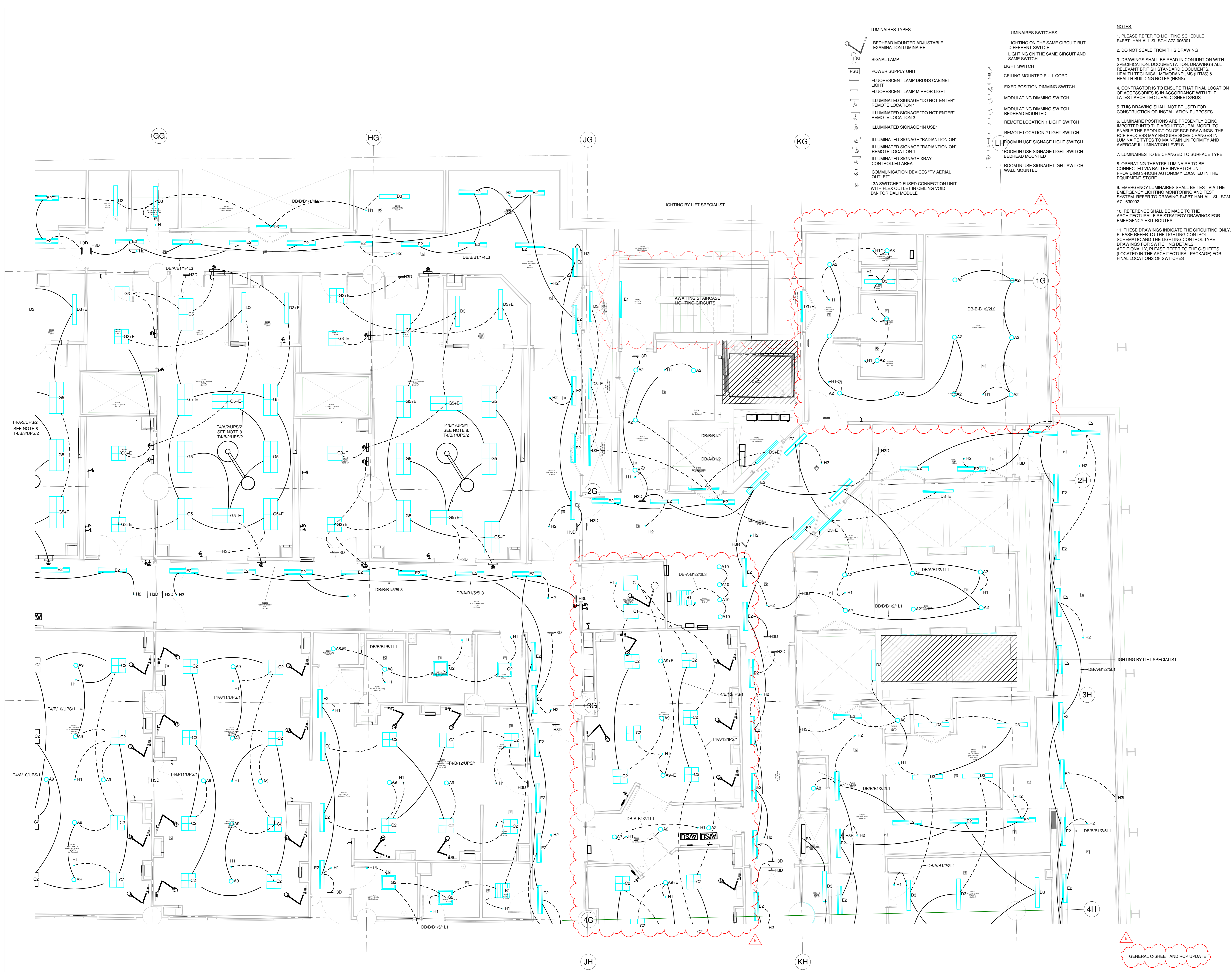
ORIGINATOR: **IBSECAD**

DRAWING TITLE: **PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 1 LIGHTING LAYOUT SHEET 1**

SCALE	BM FILE NAME	REVISION					
1 : 50	P4PBT-IBS-ALL-SL-CM-A71-400000						
PROPOSED STATUS	PROPOSED DATE	PROPOSED BY					
FOR STAGE APPROVAL	13.02.2019	4B S4 - FOR STAGE APPROVAL					
PROJECT	ISSUE	AREA	LEVEL	TYPE	TRADE	SEQUENCE	REVISION
P4PBT	IBS	MBG	B1	M2	A71	403011	B

GENERAL C-SHEET AND RCP UPDATE





- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - CEILING MOUNTED BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

- NOTES:**
1. PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-SCH-A72-006301
  2. DO NOT SCALE FROM THIS DRAWING
  3. DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
  4. CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/ROS
  5. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  6. LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  7. LUMINAIRES TO BE CHANGED TO SURFACE TYPE
  8. OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  9. EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-HAH-ALL-SL-CM-A71-600002
  10. REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  11. THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

**LINKED MODEL SCHEDULE**

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A21-213002		P09
P4PBT-CRE-SRG-SL-M3-A21-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-MAB-01-M3-A71-421007		P015
P4PBT-IBS-MBG-B1-M3-A71-421005		P14
P4PBT-IBS-MBG-B3-M3-A71-421002		P23
P4PBT-IBS-MBG-B4-M3-A71-421001		
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P49
P4PBT-STW-AAB-SL-M3-A31-100054		P52
P4PBT-STW-ABG-SL-M3-A31-100030		P50

**LUMINAIRES TYPES**

PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
A2	RECESSED LED DOWNLIGHT 150mm(W) x 90mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 150mm(W) x 127mm(H)
A9	RECESSED LED DOWNLIGHT 150mm(W) x 90mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (Ø)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A15	TV DOWNLIGHT
B1	DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/INDIRECT LED 600SO MODULE LUMINAIRE 599mm x 599mm x 66mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1T5	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1T5E	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
E2	SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U.D.L.R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L) x 50mm (H) U - UP, D - DOWN, R - RIGHT, L - LEFT
K	SLIM-LINE RECESSED LINEAR LED
ODLS	OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
Exam Light	EXAM LIGHT

REVISION	DATE	DESCRIPTION	BY	CHK	APP
B	2019.05.24	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2019.02.13	4B S3 - FOR REVIEW & COMMENT	IBS		

**SCOUTAGES** Main Contractor - Scoutages UK  
 Scoutages House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

**University College London Hospitals NHS Foundation Trust**

**IBSECAD**

**PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 1 LIGHTING LAYOUT SHEET 2**

SCALE @A0: 1 : 50  
 BM FILE NAME: REVISION: P4PBT-IBS-ALL-SL-CM-A71-400000

PROPOSED STATUS: 4B S4 - FOR STAGE APPROVAL  
 13.02.2019

PROJECT	ISSUE	AREA	LEVEL	TYPE	TRADE	SEQUENCE	REVISION
P4PBT	IBS	MBG	B1	M2	A71	403012	B

GENERAL C-SHEET AND RCP UPDATE

- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM: FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT SAME SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

- NOTES:**
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-SCH-A72-000501
  - DO NOT SCALE FROM THIS DRAWING
  - DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION, DOCUMENTATION, DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
  - CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  - LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  - LUMINAIRE TYPES TO BE CHANGED TO SURFACE TYPE
  - OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3-HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  - EMERGENCY LUMINAIRES SHALL BE TEST VIA THE EMERGENCY LIGHTING MONITORING AND TEST SYSTEM. REFER TO DRAWING P4PBT-HAH-ALL-SL-SCM-A71-630002
  - REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

LINKED MODEL SCHEDULE

RVT Link	File Name	Model	Revision
P4PBT-CRE-SAB-SL-M3-A21-213002		P09	
P4PBT-CRE-SRG-SL-M3-A21-213001		P03	
P4PBT-IBS-ALL-SL-M3-A71-421054			
P4PBT-IBS-ALL-SL-M3-A71-421501			
P4PBT-IBS-ALL-SL-M3-A71-421851			
P4PBT-IBS-ALL-SL-M3-A71-421853			
P4PBT-IBS-MAB-01-M3-A71-421807		P015	
P4PBT-IBS-MGB-01-M3-A71-421805		P14	
P4PBT-IBS-MGB-03-M3-A71-421802		P23	
P4PBT-IBS-MGB-04-M3-A71-421801			
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02	
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04	
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03	
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01	
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05	
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01	
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04	
P4PBT-STW-AB-SL-M3-A31-100051		P49	
P4PBT-STW-AB-SL-M3-A31-100054		P52	
P4PBT-STW-AB-SL-M3-A31-100030		P50	

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A2 RECESSED LED DOWNLIGHT 152mm(W) 56mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 153mm(W) x 137mm(H)
  - A9 RECESSED DOWNLIGHT 152mm(W) x 95mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 600S0 MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 600S0 MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/INDIRECT LED 600S0 MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - D1TS LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D1TSE LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L) x 156mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT

REVISION	DATE	DESCRIPTION	ISSUE	APP
B	2019.05.24	4B S4 - ISSUE FOR STAGE APPROVAL	IBS	
A	2019.02.13	4B S3 - FOR REVIEW & COMMENT	IBS	

Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

ORIGINATOR: **IBSECAD**

DRAWING TITLE: **PROTON BEAM THERAPY - PHASE 4 BASEMENT LEVEL 1 LIGHTING LAYOUT SHEET 3**

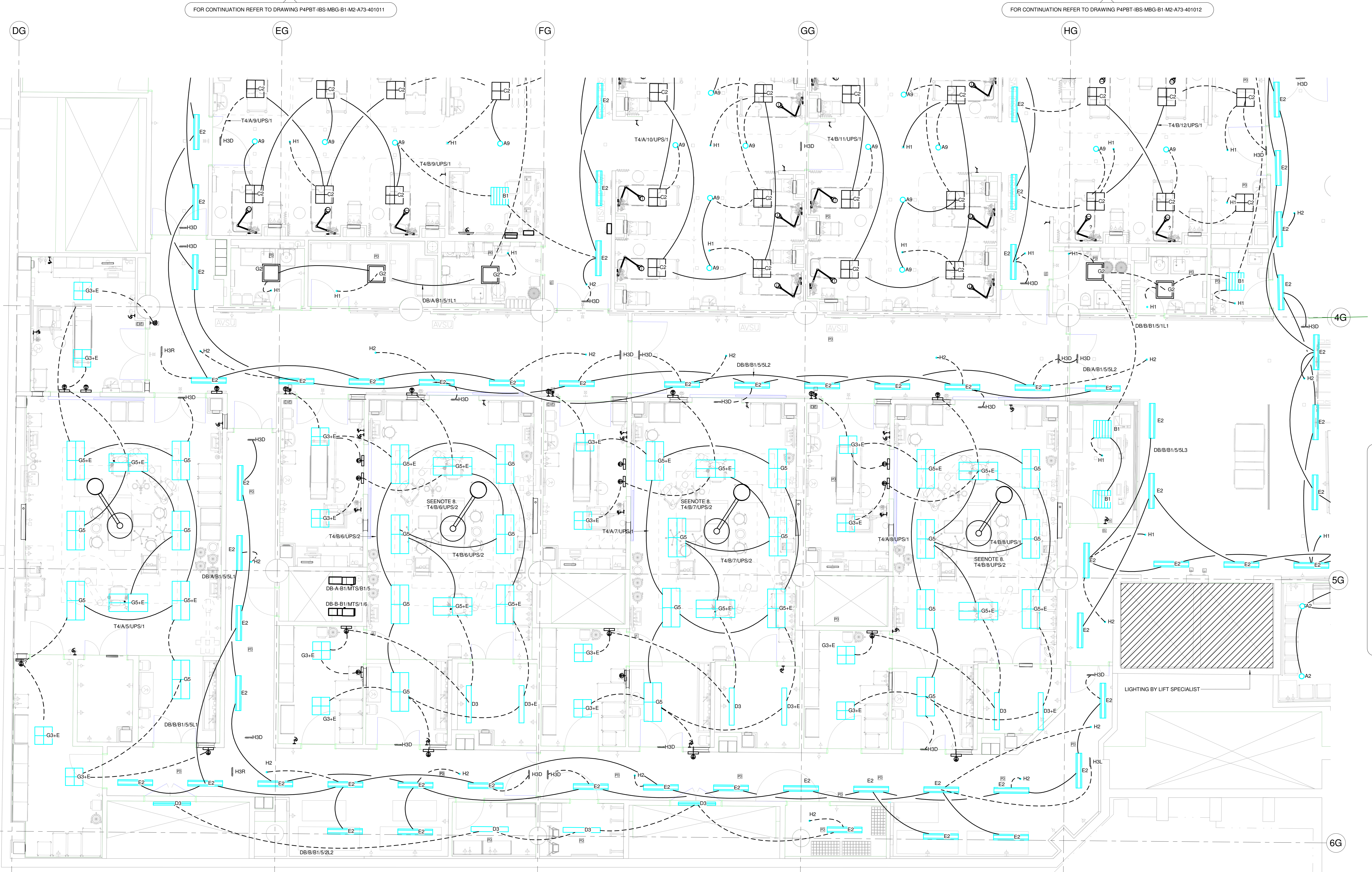
SCALE: 1 : 50

PROJECT: P4PBT-IBS-MBG-B1-M2-A73-401013

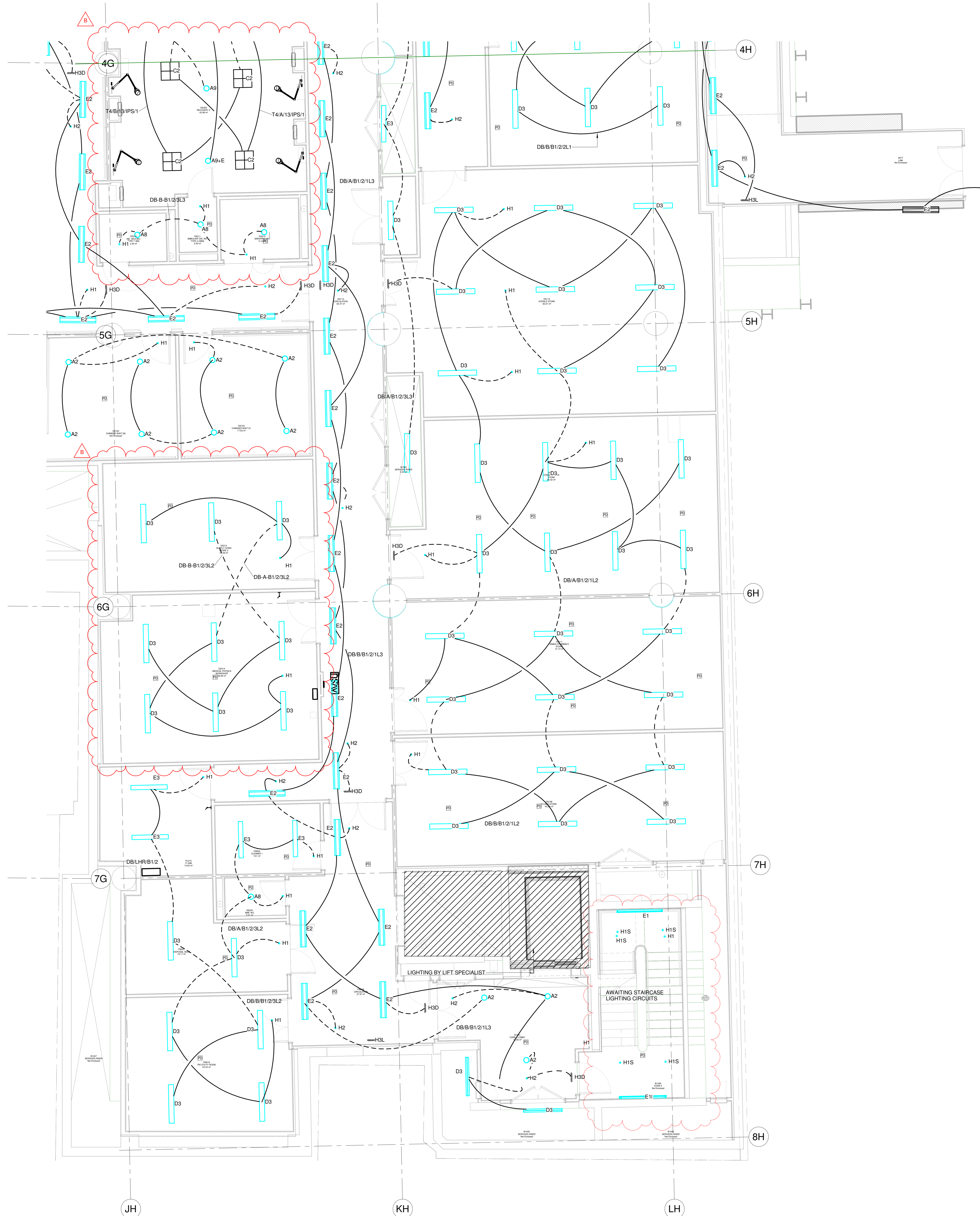
ISSUE: 13.02.2019

PROPOSED STATUS: 4B S4 - FOR STAGE APPROVAL

LEVEL	TRADE	REVISION
P4PBT-IBS-MBG-B1-M2	A71	403013



GENERAL C-SHEET AND RCP UPDATE



- NOTES:**
- PLEASE REFER TO LIGHTING SCHEDULE P4PBT-HAH-ALL-SL-CM-A71-00001
  - DO NOT SCALE FROM THIS DRAWING
  - DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATION DOCUMENTATION DRAWINGS ALL RELEVANT BRITISH STANDARD DOCUMENTS, HEALTH TECHNICAL MEMORANDUMS (HTMS) & HEALTH BUILDING NOTES (HBNs)
  - CONTRACTOR IS TO ENSURE THAT FINAL LOCATION OF ACCESSORIES IS IN ACCORDANCE WITH THE LATEST ARCHITECTURAL C-SHEETS/RDS
  - THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
  - LUMINAIRE POSITIONS ARE PRESENTLY BEING IMPORTED INTO THE ARCHITECTURAL MODEL TO ENABLE THE PRODUCTION OF RCP DRAWINGS. THE RCP PROCESS MAY REQUIRE SOME CHANGES IN LUMINAIRE TYPES TO MAINTAIN UNIFORMITY AND AVERAGE ILLUMINATION LEVELS
  - LUMINAIRES TO BE CHANGED TO SURFACE TYPE
  - OPERATING THEATRE LUMINAIRE TO BE CONNECTED VIA BATTERY INVERTOR UNIT PROVIDING 3 HOUR AUTONOMY LOCATED IN THE EQUIPMENT STORE
  - EMERGENCY LUMINAIRES SHALL BE TEST VIA THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - REFERENCE SHALL BE MADE TO THE ARCHITECTURAL FIRE STRATEGY DRAWINGS FOR EMERGENCY EXIT ROUTES
  - THESE DRAWINGS INDICATE THE CIRCUITING ONLY. PLEASE REFER TO THE LIGHTING CONTROL SCHEMATIC AND THE LIGHTING CONTROL TYPE DRAWINGS FOR SWITCHING DETAILS. ADDITIONALLY, PLEASE REFER TO THE C-SHEETS (LOCATED IN THE ARCHITECTURAL PACKAGE) FOR FINAL LOCATIONS OF SWITCHES

- LUMINAIRE TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM-FOR DALI MODULE
- LUMINAIRE SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCHER BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

**LINKED MODEL SCHEDULE**

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A21-213002		P09
P4PBT-CRE-SAB-SL-M3-A21-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421054		
P4PBT-IBS-ALL-SL-M3-A71-421053		
P4PBT-IBS-ALL-SL-M3-A71-421052		
P4PBT-IBS-MAB-01-M3-A71-421807		P015
P4PBT-IBS-MBG-B1-M3-A71-421805		P14
P4PBT-IBS-MBG-E3-M3-A71-421802		P23
P4PBT-IBS-MBG-B1-M3-A71-421801		
P4PBT-KYO-AFA-SL-M3-3.01-700010		P02
P4PBT-KYO-AFA-SL-M3-3.01-700020		P04
P4PBT-KYO-AFA-SL-M3-3.01-700030		P03
P4PBT-KYO-AFA-SL-M3-3.01-700040		P01
P4PBT-KYO-AFA-SL-M3-3.01-700050		P05
P4PBT-KYO-AFA-SL-M3-3.01-700100		P01
P4PBT-KYO-AFA-SL-M3-3.01-700200		P04
P4PBT-STW-AAB-SL-M3-A31-100051		P49
P4PBT-STW-AAB-SL-M3-A31-100054		P52
P4PBT-STW-ABG-SL-M3-A31-100030		P50

- LUMINAIRE TYPES**
- PRESENCE DETECTOR
  - ABSENCE DETECTOR
  - RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM-90mm DIA x 100mm(H)
  - RECESSED LED DOWNLIGHT 163mm(W) x 137mm(H)
  - RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
  - RECESSED LED DOWNLIGHT 90mm (Ø)
  - RECESSED LED DOWNLIGHT 90mm (Ø)
  - TV DOWNLIGHT
  - DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
  - DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
  - DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x 96mm
  - DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE - 1252mm(L) x 145mm(W) x 101 (H)
  - LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
  - SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
  - SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
  - RECESSED LED LIGHT 70mm x 100mm x VARIES
  - SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
  - LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
  - RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 133mm(H)
  - RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
  - EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - SLIM-LINE RECESSED LINEAR LED
  - OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" 2617F (FLUSH LED)
  - EXAM LIGHT

REVISION	DATE	DESCRIPTION	BY	CHK	APP
B	2019/05/24	4B S4 - ISSUE FOR STAGE APPROVAL	IBS		
A	2019/02/13	4B S3 - FOR REVIEW & COMMENT	IBS		

Main Contractor: Bouygues UK  
 Bouygues UK  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

University College London Hospitals  
 NHS Foundation Trust

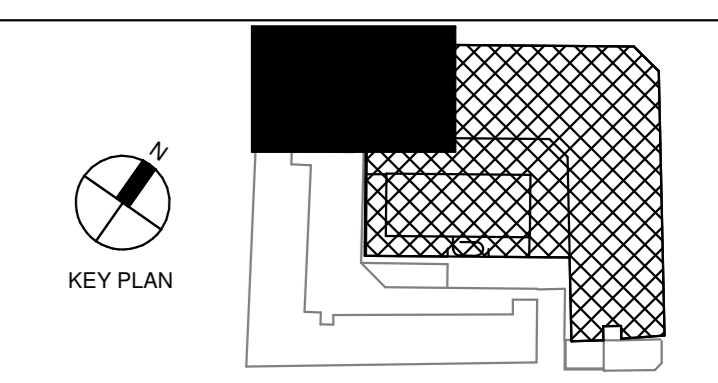
ORIGINATOR  
**IBSECAD**

DRAWING TITLE  
**PROTON BEAM THERAPY - PHASE 4  
 BASEMENT LEVEL 1 LIGHTING LAYOUT  
 SHEET 4**

SCALE	1 : 50	BM FILE NAME	REVISION
		P4PBT-IBS-ALL-SL-CM-A71-400000	
FIRST ISSUE DATE	13.02.2019	PROPOSED STATUS	4B S4 - FOR STAGE APPROVAL
PROJECT NUMBER	4B S4	TRADE	IBS
P4PBT	IBS	MBG	B1
		M2	A71
		403014	B

GENERAL C-SHEET AND RCP UPDATE

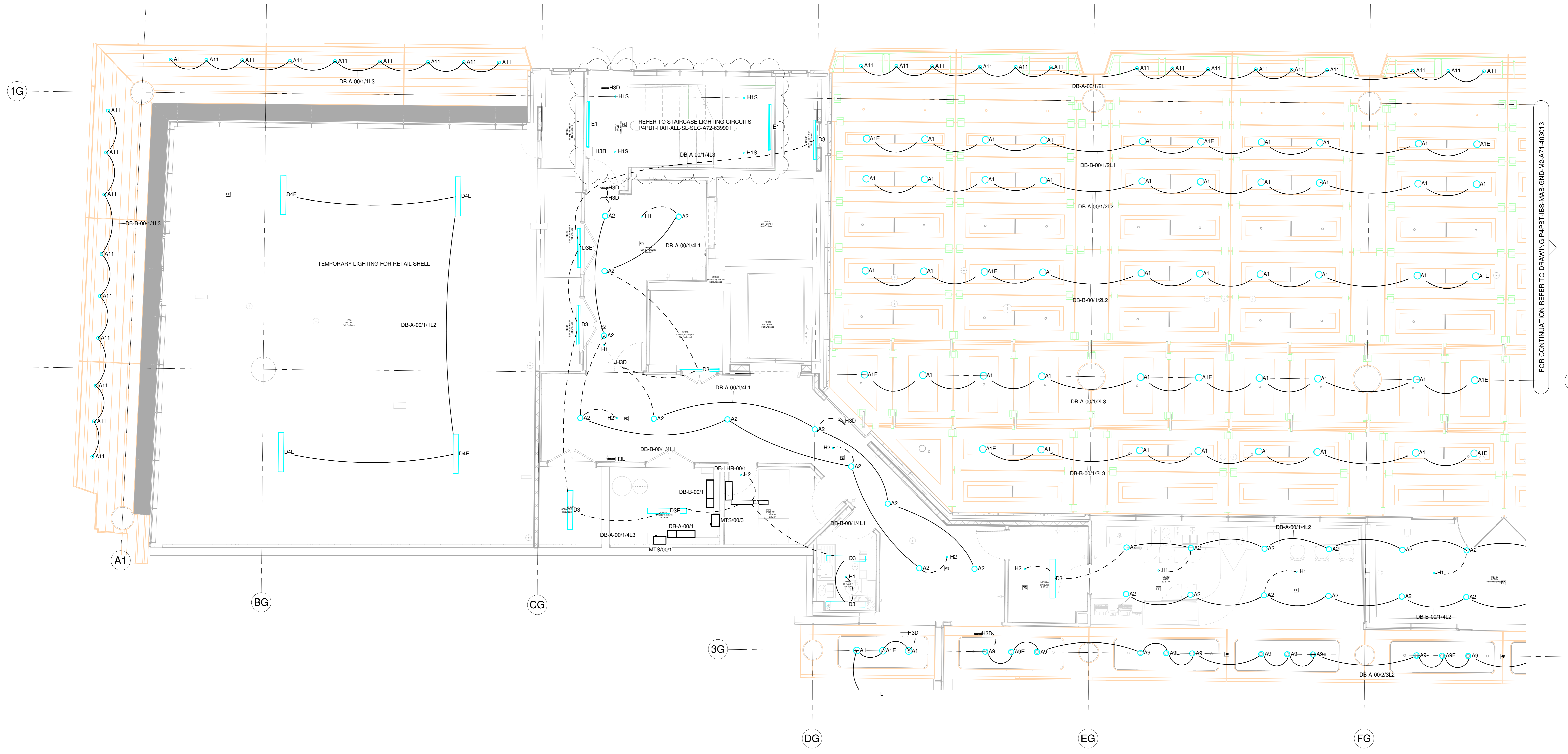
- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - PSU POWER SUPPLY UNIT
  - FLUORESCENT LAMP DRUGS CABINET LIGHT
  - FLUORESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICE TV AERIAL OUTLET
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM - FOR DALI MODULE
- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED



LINKED MODEL SCHEDULE

RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A2-213002	P09
P4PBT-CRE-SIG-SL-M3-A1-213001	P03
P4PBT-IBS-ALL-SL-M3-A71-421054	P018
P4PBT-IBS-MAB-01-M3-A71-421807	P018
P4PBT-IBS-MAB-GND-M3-A71-421806	P018
P4PBT-KYO-AFA-SL-M3-3.01-700010	P06
P4PBT-KYO-AFA-SL-M3-3.01-700020	P08
P4PBT-KYO-AFA-SL-M3-3.01-700030	P08
P4PBT-KYO-AFA-SL-M3-3.01-700040	P03
P4PBT-KYO-AFA-SL-M3-3.01-700050	P07
P4PBT-KYO-AFA-SL-M3-3.01-700100	P05
P4PBT-KYO-AFA-SL-M3-3.01-700200	P07
P4PBT-STW-AAB-SL-M3-A31-100051	P61
P4PBT-STW-AAB-SL-M3-A31-100054	P61
P4PBT-STW-ABG-SL-M3-A31-100030	P50

- LUMINAIRES TYPES**
- PD PRESENCE DETECTOR
  - AD ABSENCE DETECTOR
  - A1 RECESSED LED DOWNLIGHT 243mm(W) 203mm(H)
  - A2 RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
  - A4 RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM-90mm DIA x 100mm(H)
  - A8 RECESSED LED DOWNLIGHT 183mm(W) x 137mm(H)
  - A9 RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
  - A10 RECESSED LED DOWNLIGHT 80mm (D) x 90mm(H)
  - A11 RECESSED LED DOWNLIGHT 90mm (D)
  - A12 RECESSED LED DOWNLIGHT 90mm (D)
  - A15 TV DOWNLIGHT
  - B1 DIRECT/INDIRECT LED 6050 MODULE LUMINAIRE 597mm x 597mm x 71mm
  - B2 DIRECT/INDIRECT LED 6050 MODULE LUMINAIRE 594mm x 594mm x 42mm
  - C1 DIRECT/INDIRECT LED 6050 MODULE LUMINAIRE 599mm x 599mm x 96mm
  - C2 DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
  - D1 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101(H)
  - D1E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103(H)
  - D1T5 LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101(H)
  - D1T5E LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101(H)
  - D3 LINEAR ANTI-CORROSIVE LUMINAIRE - 1220mm(L) x 145mm(W) x 101(H)
  - D3E LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103(H)
  - D4 LINEAR ANTI-CORROSIVE LUMINAIRE 1578mm(L) x 145mm(W) x 101mm(H)
  - E2 SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm(H)
  - E2 RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) x 87mm(H)
  - E3 SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm(H)
  - E5 RECESSED LED LIGHT 70mm x 100mm x VARIES
  - F1 SURFACE MOUNTED IP40 LED LUMINAIRE 925mm(L) x 191mm(W) x 55mm(H)
  - F2 LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 185mm (W) x 137mm (H)
  - G2 RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - G3 RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x 145mm(H)
  - G3-E RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x 145mm(H)
  - H1 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
  - H1S SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
  - H2 RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
  - H3 (U,D,L,R) CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L) x 150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
  - K SLIM-LINE RECESSED LINEAR LED
  - L LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - M 2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
  - ODL3 OVER DOOR LIGHT SINGLE DISPLAY UNIT "ROOM IN USE" (FLUSH LED)
  - EXAM LIGHT



FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MAB-GND-M2-A71-403013

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MAB-GND-M2-A71-403013

REVISION

NO	DATE	DESCRIPTION	BY	CHK	APP
A	2019.07.29	4B S3 - ISSUE FOR REVIEW & COMMENT	IBS		

Main Contractor - Bouygues UK  
 Beckett House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

ORIGINATOR

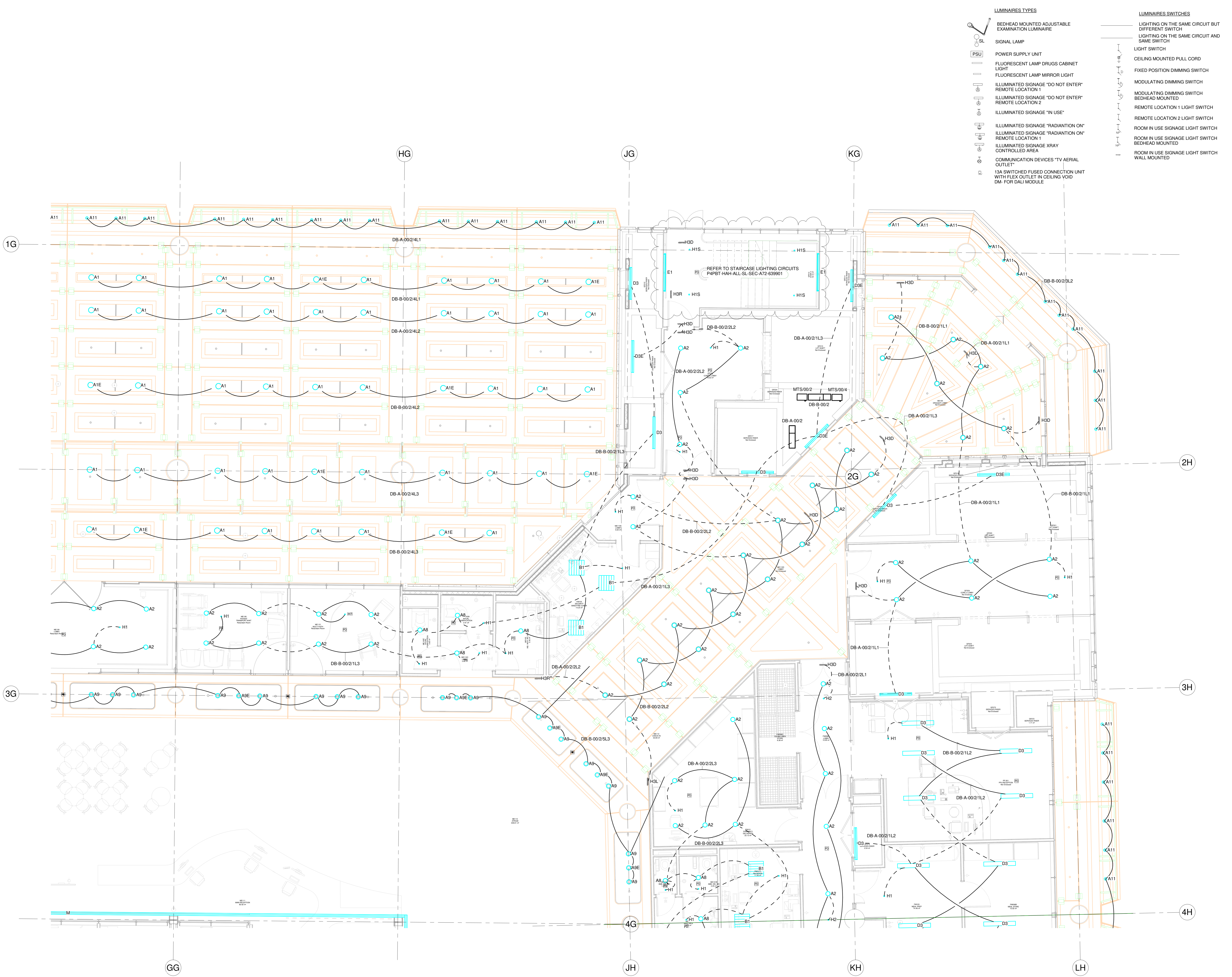
**IBSECAD**

DRAWING TITLE

**PROTON BEAM THERAPY - PHASE 4**  
**GROUND FLOOR LIGHTING LAYOUT SHEET**  
 1

SCALE	1 : 50	BM FILE NAME - REVISION	P4PBT-IBS-ALL-SL-CM-A71-400000
FIRST ISSUE DATE	2019.07.29	PROPOSED STATUS	4B S3 - FOR REVIEW & COMMENT
PROJECT	IBS	AREA	MAB
LEVEL	M2	TRACE	A71
SECTION		REVISION	403011
P4PBT	IBS	MAB	GND
		M2	A71
			403011
			A

ALL LEVELS TAKEN FROM LEVEL 00 SSL - 27430



- LUMINAIRES TYPES**
- BEDHEAD MOUNTED ADJUSTABLE EXAMINATION LUMINAIRE
  - SIGNAL LAMP
  - POWER SUPPLY UNIT
  - FLOURESCENT LAMP DRUGS CABINET LIGHT
  - FLOURESCENT LAMP MIRROR LIGHT
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "DO NOT ENTER" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE "IN USE"
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 1
  - ILLUMINATED SIGNAGE "RADIATION ON" REMOTE LOCATION 2
  - ILLUMINATED SIGNAGE XRAY CONTROLLED AREA
  - COMMUNICATION DEVICES "TV AERIAL OUTLET"
  - 13A SWITCHED FUSED CONNECTION UNIT WITH FLEX OUTLET IN CEILING VOID DM- FOR DALI MODULE

- LUMINAIRES SWITCHES**
- LIGHTING ON THE SAME CIRCUIT BUT DIFFERENT SWITCH
  - LIGHTING ON THE SAME CIRCUIT AND SAME SWITCH
  - LIGHT SWITCH
  - CEILING MOUNTED PULL CORD
  - FIXED POSITION DIMMING SWITCH
  - MODULATING DIMMING SWITCH
  - MODULATING DIMMING SWITCH BEDHEAD MOUNTED
  - REMOTE LOCATION 1 LIGHT SWITCH
  - REMOTE LOCATION 2 LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH
  - ROOM IN USE SIGNAGE LIGHT SWITCH BEDHEAD MOUNTED
  - ROOM IN USE SIGNAGE LIGHT SWITCH WALL MOUNTED

**LINKED MODEL SCHEDULE**

Item	RVT Link: File Name	Model/Revision
P4PBT-CRE-SAB-SL-M3-A2-213002		P09
P4PBT-CRE-SRG-SL-M3-A2-213001		P03
P4PBT-IBS-ALL-SL-M3-A71-421054		P018
P4PBT-IBS-MAB-01-M3-A71-421807		P018
P4PBT-IBS-MAB-GND-M3-A71-421806		P06
P4PBT-KYO-AFA-SL-M3-3.01-700010		P06
P4PBT-KYO-AFA-SL-M3-3.01-700020		P08
P4PBT-KYO-AFA-SL-M3-3.01-700030		P08
P4PBT-KYO-AFA-SL-M3-3.01-700040		P03
P4PBT-KYO-AFA-SL-M3-3.01-700050		P07
P4PBT-KYO-AFA-SL-M3-3.01-700100		P05
P4PBT-KYO-AFA-SL-M3-3.01-700200		P07
P4PBT-STW-AAB-SL-M3-A31-100051		P01
P4PBT-STW-AAB-SL-M3-A31-100054		P01
P4PBT-STW-ABG-SL-M3-A31-100030		P50

**LUMINAIRES TYPES**

PD	PRESENCE DETECTOR
AD	ABSENCE DETECTOR
A1	RECESSED LED DOWNLIGHT 243mm(W) 203mm(H)
A2	RECESSED LED DOWNLIGHT 192mm(W) 99mm(H)
A4	RECESSED HIGH OUTPUT LED DOWNLIGHT FOR MRI ROOM- 90mm DIA x 100mm(H)
A8	RECESSED LED DOWNLIGHT 163mm(W) x 130mm(H)
A9	RECESSED LED DOWNLIGHT 192mm(W) x 99mm(H)
A10	RECESSED LED DOWNLIGHT 80mm (Ø) x 90mm(H)
A11	RECESSED LED DOWNLIGHT 90mm (Ø)
A12	RECESSED LED DOWNLIGHT 90mm (Ø)
A15	TV DOWNLIGHT
B1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 597mm x 597mm x 71mm
B2	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 594mm x 594mm x 42mm
C1	DIRECT/INDIRECT LED 600SQ MODULE LUMINAIRE 599mm x 599mm x96mm
C2	DUAL IP RATED MULTI-FUNCTION LUMINAIRE FOR HIGH DEPENDENCY UNITS 598mm x 598mm x 137mm
D1	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D1TS	LINEAR ANTI-CORROSIVE LUMINAIRE - 1573mm(L) x 145mm(W) x 101 (H)
D1TSE	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D3	LINEAR ANTI-CORROSIVE LUMINAIRE - 1282mm(L) x 145mm(W) x 101 (H)
D3E	LINEAR ANTI-CORROSIVE LUMINAIRE WITH INTEGRAL BATTERY BACKUP - 1275mm(L) x 170mm(W) x 103 (H)
D4	LINEAR ANTI-CORROSIVE LUMINAIRE - 1578mm(L) x 145mm(W) x 101mm(H)
E2	SURFACE LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E2	RECESSED LED LINEAR LUMINAIRE 1196mm(L) x 146mm(W) X 87mm (H)
E3	SURFACE MOUNTED IP40 LED LUMINAIRE 1207mm(L) x 145mm(W) x 73mm (H)
E5	RECESSED LED LIGHT 70mm x 100mm x VARIES
F1	SURFACE MOUNTED IP40 LED LUMINAIRE 926mm(L) x 191mm(W) x 95mm (H)
F2	LED CENTRE WARD DOWN LIGHTER FOR CEILING THICKNESSES OF 5-50mm 183mm (W)x137mm (H)
G2	RECESSED MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x133mm(H)
G3	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE 599mm x 599mm x145mm(H)
G3-E	RECESSED NON-MODULAR LED CLEAN ROOM LUMINAIRE WITH INTEGRAL 3 HOUR BATTERY 599mm x 599mm x145mm(H)
H1	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) WIDE BEAM
H1S	SURFACE MOUNTED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 120mm DIA x 80mm(H) WIDE BEAM
H2	RECESSED NON-MAINTAINED 3 HOUR EMERGENCY DOWNLIGHT 50mm DIA x 45mm(H) NARROW BEAM
H3 (U,D,L,R)	CEILING RECESSED 3 HOUR LED EXIT SIGN 355mm (L)x150mm (H) U = UP, D = DOWN, R = RIGHT, L = LEFT
K	SLIM LINE RECESSED LINEAR LED
L	LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
M	2X LED LINE RECESSED STRIP LIGHT 1230mm(L) x 100mm(W) x 100mm(H)
ODL3	OVER DOOR LIGHT SINGLE DISPLAY UNIT ROOM IN USE 2617F (FLUSH LED)
EXAM LIGHT	EXAM LIGHT

REVISION

NO	DATE	DESCRIPTION	BY	CHK	APP
A	2019.07.29	4B S3 - ISSUE FOR REVIEW & COMMENT	IBS		

Main Contractor: Bouygues UK  
 Becket House  
 1 Lambeth Palace Rd  
 Lambeth, London SE1 7EU  
 Tel: 020 7401 0020

ORIGINATOR: University College London Hospitals NHS Foundation Trust

DRAWING TITLE: PROTON BEAM THERAPY - PHASE 4  
 GROUND FLOOR LIGHTING LAYOUT SHEET 2

SCALE @A0: 1 : 50  
 BM FILE NAME: REVISION: P4PBT-IBS-ALL-SL-CM-A71-400000  
 FIRST ISSUE DATE: 2019.07.29  
 PROPOSED STATUS: 4B S3 - FOR REVIEW & COMMENT  
 PROJECT ISSUES: A71A  
 LEVEL: M2  
 TRADE: A71  
 SECOND REVISION: 403012

P4PBT | IBS | MAB | GND | M2 | A71 | 403012 | A

ALL LEVELS TAKEN FROM LEVEL 00 SSL - 27490

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MAB-GND-M2-A71-403013

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MAB-GND-M2-A71-403014

FOR CONTINUATION REFER TO DRAWING P4PBT-IBS-MAB-GND-M2-A71-403011