

# Richmond Royal Hospital

## Electrical Equipment Schedule

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Document Ref: 5762-CBC-AF-SP-E-60003

Creation date: 23<sup>rd</sup> March 2021

Revision: T07

Revision date: 12<sup>th</sup> June 2024



Record of Revisions.		
Date.	Revision.	Description of change.
23 <sup>rd</sup> March 2021	T01	Stage 4 issue.
12 <sup>th</sup> May 2021	T02	Stage 4 issue. Additional Elements added.
07 <sup>th</sup> June 2021	T03	Stage 4 issue. Additional Elements added.
13 <sup>th</sup> July 2021	T04	Stage 4 issue. Client team comments captured.
23 <sup>rd</sup> September 2021	T05	Stage 4 issue. Wall light added to EAI 031.
01 <sup>st</sup> May 2024	T06	Stage 4 issue. Lighting updated.
12 <sup>th</sup> June 2024	T07	Stage 4 issue. Lighting updated.

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### 1. Notes

- 1.1. All specified electrical equipment and apparatus is equal and approved unless otherwise specified. Any products submitted by the MEP Contractor as alternatives shall be reviewed and approved or reject accordingly by CBC, The Main Contractor, The Client and the Clients Professional Team.
- 1.2. Reference shall be made to the client's specification documents.
- 1.3. Reference shall be made to the client's specification documents.
- 1.4. Reference shall be made to the electrical stage 4 drawings when reading this drawing.
- 1.5. The Electrical Contractor shall be responsible for checking all part numbers prior to ordering any materials.
- 1.6. The Electrical Contractor shall be responsible for providing samples at the request of the client.
- 1.7. The client shall sign of all products and samples prior to the Electrical Contractor placing orders for any of the materials.
- 1.8. Any discrepancies in part numbers or descriptions of products shall be brought to the attention of Henry Construction and Cudd Bentley Consulting.
- 1.9. Any alternative products put forward as equal and approved need to be signed off prior to procurement by Cudd Bentley, HCPL and the Client.
- 1.10. The Electrical Contractor shall be responsible for ensuring all drivers within light fittings are compatible with the control methods.




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## 2. Distribution Equipment

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Consumer Unit.	NM.	Wylex.	Refer to drawings for outgoing ways. 63A or 100A (if required due to manufacturers products) switch disconnecter incomer. Non-combustible material. AFDD / RCBO's on outgoing ways. Surge protection to be installed.	
Distribution Board	Acti 9 Isobar B P. Split metered. Distribution board. 250A - 400/415V. Three pole and neutral.	Schneider Electric.	Enclosure material: Steel, Epoxy. Enclosure Type: Standard. Enclosure Mounting: Surface. Cream (RAL 9001). Poles description: 3P + N. Breaking capacity: 25 Ka. Split metered. Refer to drawings for outgoing ways.	
Ryefield Board.	As stated on drawings.	Ryefield.	Refer to drawings for outgoing ways. Lift off hinged covers with padlock attachment and Mul-T-Lock. Rated fused short circuit current 50kA at 415V. Surge protection to be installed. Wall / floor mounted.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Panel Boards.	Multiform. High dependability LV distribution.	Schneider.	IP Rating IP31. Form 4 Type 5 to BS EN 61439. Steel Powder coated. 50kA for 1 second minimum. MCCB outgoing ways.	
Automatic Transfer Switches.	Transfer enclosed switches. ATS Bypass 40 to 3200A.	Socomec.	230/400 VAC, 50/60 Hz, self-supplied from incoming sources. Normal/Emergency logic control sequence. Control of phase rotation. 1 configurable output relay. Position I, 0, II control by external dry contact. Manual emergency operation. Auxiliary contacts. MODBUS communication. Auto / Manual selector. Wall mounting brackets supplied up to 160A. Floor standing feet from 250A to 3200A. Mimic panel (3 LEDs; source availability (1 and 2) and load; 16 LED mimic panel optional). Automatic bypass functionality.	

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Panel Board Metring.	PowerLogic PM8000 - PM8240.	Schneider.	<p>Displays - Current; Voltage; Current; Frequency; Power; Energy consumption; Harmonic distortion.</p> <p>Communication – Modbus RTU at 115 kbauds - 2-wire; ION at 115 kbauds - 2-wire; DNP3; IEC 61850; Modbus TCP/IP; Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s; RSTP 801.1d 2004.</p> <p>Data recording – Time stamping; Sequence of event recording; GPS synchronisation; Min/max of instantaneous values; Event logs.</p> <p>Sag and swell logs; Harmonics logs; Trending/forecasting; Data logs; Alarm logs; Waveform logs.</p> <p>MID compliant.</p>	
Distribution Board Metering.	Acti 9 iEM3000.	Schneider.	<p>Displays - Active and reactive energy; Active and reactive power; Current; Voltage.</p> <p>Communication - M-bus at 300, 600, 1200, 2400, 4800 and 9600 bauds, insulation 3750V.</p> <p>MID compliant.</p>	

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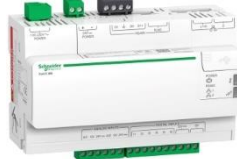

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Metering Ethernet Gateway.	Link 150.	Schneider.	Modbus TCP/IP filtering feature. Modbus TCP/IP master devices may access attached serial slave devices. MID compliant.	
Energy Management Logger.	Enerlin'X Com'X.	Schneider.	Collection of energy data from meters. Deliver the data on local area network (LAN). Communication - > Modbus over RS485 serial line; Modbus TCP/IP over Ethernet; Zigbee wireless digital. MID compliant.	
Utility Metering.	Utility metering.	Approved manufacturer to be confirmed with client.	Contractor to provide CT chamber inclusive of current transformers. . Meter operator / DNO to provide specification and ratio of CT's. Final meter specification and type to be confirmed by the client. To be installed on incoming landlords supplies.	

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Smart Meter.	Smet 2 Compliant Utility Meter.	Approved manufacturer to be confirmed with client.	Final meter specification and type to be confirmed by the client. To be installed within residential dwellings.	
G99 Protection Relay / Meter.	Mains decoupling protection relay complete with metering.	Approved manufacturer to be confirmed with the DNO.	To be to the approval of the DNO. Compliant with statutory codes. Functionality – Undervoltage; Overvoltage Over frequency; Underfrequency; Vector Shift; Rate of change of frequency + ROCOF filter; Voltage asymmetry; Positive sequence undervoltage; Negative sequence overvoltage; Phase sequence supervision; Binary switches.	




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### 3. Small Power and Extra Low Voltage Equipment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
<u>Back of house areas – Plantrooms, car park, risers, ceiling voids etc.</u>				
Apartment Isolator.	Red Link / Head Meter Isolator.	Henley.	Single Pole/ Neutral & Earth fitted with red solid link carrier. Tamper resistant pin & plug protected unused cable entries. Maximum cable sizes: phase/Neutral/Earth 35mm <sup>2</sup> , Earth 25mm <sup>2</sup> , Time switch 10mm <sup>2</sup> Constructed from glass reinforced polyester. Refer to drawings for size and rating.	
Rotary Switch Isolator.	Commando Safety Switch.	MK Electric	Switch disconnecter. IP65 Moulded. Enclosure-Grey Refer to drawings for size and rating.	
Commando Socket Outlet.	Commando.	MK Electric	IP44 / IP65 Rated. Refer to drawings for size and rating.	

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Emergency Power Off Button.	EPO	Craig and Derricott	Die-cast aluminium enclosures. Flap covers to prevent accidental operation. To be used within plantrooms for mechanical plant shutdown.	
Floor Box	N/A	Electrak	4-Compartment floor box. 75mm depth. 2 x DSSO. 4 x Data outlets. 2 x spare compartments with blanking plates.	
Switched Single Socket Outlet (weatherproof).	Masterseal plus.	MK Electric	IP66 Rated.	
Switched Twin Socket Outlet (weatherproof).	Masterseal plus.	MK Electric	IP66 Rated.	

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Data / Telephone euro module outlet (weatherproof).	Masterseal plus.	MK Electric	IP66 Rated.	
Switched fused spur (weatherproof).	Masterseal plus.	MK Electric	IP66 Rated.	
10 / 20A switch (weatherproof).	Masterseal plus.	MK Electric	IP66 Rated. Refer to drawings for number of ways.	
Double Socket Outlet Switched	Metal Clad Plus	MK Electric	N/A	
Single Socket Outlet Switched	Metal Clad Plus	MK Electric	N/A	

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Single Socket Outlet For cleaners use Lockable	Metal Clad Plus	MK Electric	Lockable via key	
Switched Fused Spur	Metal Clad Plus	MK Electric	Neon indicator 13A fuse	
Unswitched Fused Spur	Metal Clad Plus	MK Electric	Neon indicator 13A fuse	
20A Lockable Double Pole Isolator	Metal Clad Plus	MK Electric	Lockable via key Engraved with equipment it is serving. Red (where required for fire alarms etc.) To be compliant with BS5839 (All parts).	
1-gang 2 module euro plate Data / telephone outlet	Metal Clad Plus	MK Electric	N/A	

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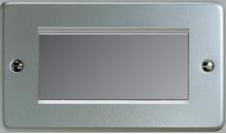




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2-gang 4 module euro plate Data / telephone outlet	Metal Clad Plus	MK Electric	N/A	
1-gang 2-way switch	Metal Clad Plus	MK Electric	N/A	
2-gang 2-way switch	Metal Clad Plus	MK Electric	N/A	
<u>Apartments, front of house common areas, corridors and concierge</u>				
Double Socket Outlet Switched	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
Single Socket Outlet Switched	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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Shaver Socket Outlet	Ultimate Flat Plate White Interior	Schneider	N/A.	
Cooker Control Unit	Ultimate Flat Plate White Interior	Schneider	To be provide with single socket outlet.	
Switched Fused Spur	Ultimate Flat Plate White Interior	Schneider	13A fuse. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
Switched Fused Spur	Ultimate Flat Plate White Interior	Schneider	Neon indicator. 13A fuse. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
Unswitched Fused Spur	Ultimate Flat Plate White Interior	Schneider	13A fuse. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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Grid Fused Spur	Ultimate Flat Plate Polished Chrome White Interior	Schneider	Engraved with appliance serving. Provided with rocker cover plate.	
Grid Double Pole Switch	Ultimate Flat Plate Polished Chrome White Interior	Schneider	Engraved with appliance serving. Provided with rocker cover plate.	
Grid Plate 3-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
Grid Plate 6-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
Grid Plate 9-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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RJ45 Module Data	Ultimate Flat Plate White Interior	Schneider	Euro connection. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
RJ11 Module Telephone	Ultimate Flat Plate White Interior	Schneider	Euro connection. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
SAT Socket Module	Ultimate Flat Plate White Interior	Schneider	Euro connection. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
TV / PM Socket Module	Ultimate Flat Plate White Interior	Schneider	Euro connection. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
TV/SAT/DAB Module	Ultimate Flat Plate White Interior	Schneider	Euro connection. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Combination Plate	Ultimate Flat Plate White Interior	Schneider	2 x DSSO. TV SAT 1 SAT 2 FM / DAB Telephone (where required). 2 x Data outlet. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way Dimmer Switch 1-Gang	Ultimate Flat Plate White Interior	Schneider	Ensure compatibility with lighting dimming protocol. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way Dimmer Switch 2-Gang	Ultimate Flat Plate White Interior	Schneider	Ensure compatibility with lighting dimming protocol. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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2-way Dimmer Switches 3-Gang	Ultimate Flat Plate White Interior	Schneider	Ensure compatibility with lighting dimming protocol. Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way switch 1-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way switch 2-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way switch 3-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	
2-way switch 4-Gang	Ultimate Flat Plate White Interior	Schneider	Apartments - Polished Chrome. Front of House – Stainless Steel. Corridors – Stainless Steel. Concierge – Stainless Steel.	

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<u>NHS Unit</u>				
Dado Trunking.	Prestige 3D Antibac Blue	MK Electric	To be installed within patent areas. 3 compartment. EMC screening inserts. Part M flanges to be provided.	
Dado Trunking.	Prestige 3D	MK Electric	To be installed within offices. 3 compartment. EMC screening inserts. Part M flanges to be provided.	
Double Socket Outlet Switched	Albany Plus. Brushed Chrome.	MK Electric	Outboard switches to be provided.	
Single Socket Outlet Switched	Albany Plus. Brushed Chrome.	MK Electric	N/A.	

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Switched Fused Spur	Albany Plus. Brushed Chrome.	MK Electric	Neon indicator 13A fuse	
Unswitched Fused Spur	Albany Plus. Brushed Chrome.	MK Electric	Neon indicator 13A fuse	
Blanking Plate.	Albany Plus. Brushed Chrome.	MK Electric	N/A.	
1 Gang Switch.	Albany Plus. Brushed Chrome.	MK Electric	N/A.	

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2 Gang Switch.	Albany Plus. Brushed Chrome.	MK Electric	N/A.	
Euro Module.	Albany Plus. Brushed Chrome.	MK Electric	N/A.	
Note – External and back of house areas to match specification of residential areas (MK masterseal and MK commando range respectively).				




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#### 4. Luminaire Schedule

<u>Ref</u>	<u>Size (mm)</u>	<u>Lumen Output</u>	<u>Watts/Type</u>	<u>Mounting</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Range</u>	<u>Remarks</u>	<u>Picture</u>
<u>Residential Development</u>								
D1	L95 x W95 x H50	560lm	7W LED	Recessed	SG Lighting	Junistar Lux Square	Apartment. Square Downlight. Single. White trim. IP44. 3000K. Dimmable – Trailing edge.	
D2	L100 x W100 x H102	1570lm	18W LED	Recessed	Zumtobel	Panos Evo Q100L	Corridors. Square downlight. White trim. IP20. 3000K. Integral 3hr battery backup for emergency lighting where required. Non-dimmable.	
D3	L100 x W100 x H123	760lm	22W LED	Recessed	Zumtobel		Concierge and lobbies. Square adjustable downlight. White. IP20. 3000K. Non-dimmable.	

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D4	L100 x W100 x H102	1570lm	18W LED	Recessed	Zumtobel	Panos Evo Q100L	External. Square downlight. White trim. IP20. 3000K. Integral 3hr battery backup for emergency lighting where required. Non-dimmable. Provided with IP54 attachment.	
D5	L175 x W95 x H50	1120lm	2 x 7W LED	Recessed	SG Lighting	Junistar Lux Square	Apartment. Square Downlight. Twin. White trim. IP44. 3000K. Dimmable – Trailing edge.	
D6	L95 x W95 x H50	560lm	7W LED	Recessed	SG Lighting	Junistar Lux Square	Apartment. Square Downlight. Single. White trim. IP44. 3000K. Dimmable – Trailing edge.	

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W1	L209 x W209 x D89	1260lm	20W LED	Surface Mounted.	Kingfisher Lighting	DOT	Apartment / external. Square luminaire. Black trim. IP66. 3000K. Non-dimmable.	
W2	L209 x W209 x D89	1260lm	20W LED	Surface Mounted.	Kingfisher Lighting	DOT	Apartment / external / staircore. Square luminaire. Black trim. IP66. 3000K. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	
W3	L209 x W209 x D89	1260lm	20W LED	Surface Mounted.	Kingfisher Lighting	DOT	Apartment / external. Square luminaire. Black trim. IP66. 3000K. Non-dimmable.	
W4	Not used.							

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<u>Ref</u>	<u>Size (mm)</u>	<u>Lumen Output</u>	<u>Watts/ Type</u>	<u>Mounting</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Range</u>	<u>Remarks</u>	<u>Picture</u>
W5	L626 x W113 x D43	TBC	20W LED	Wall Mounted.	Thorlux Lighting	Kast	4000K. Satin Black. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	
W6	N/A	TBC	10W LED	Wall Mounted.	Louis Poulsen	Yuh Wall	4000K. Black brass. Non-dimmable.	
L1	L1282 x W145 x H101	2794lm	19W LED	Surface mounted	Whitecroft Lighting	ACL Industry	Switchrooms and plantrooms. IP66 linear fitting. GRP body finished light grey. 4000K. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	

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L2	L1578 x W145 x H101	7490lm	50W LED	Surface mounted	Whitecroft Lighting	ACL Industry	Car park and plantrooms. IP66 linear fitting. GRP body finished light grey. 4000K. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	
L3	L1578 x W145 x H101	9518lm	69W LED	Surface mounted	Whitecroft Lighting	ACL Industry	Car park and plantrooms. IP66 linear fitting. GRP body finished light grey. 4000K. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	
L4	L1150 x W145 x H101	4101lm	30W LED	Surface mounted	Whitecroft Lighting	Triepak	Comms rooms. Batten fitting. White. IP66. 4000K. Non-dimmable. Integral 3hr battery backup for emergency lighting where required.	

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L5	L600 x W150 x H54	2140lm	18W LED	Surface mounted	SG Lighting	Wave LED	Apartment utility cupboards. White. IP44. 3000K. Includes integral motion sensor.	
L6	L1365 x W193 x D139	8000lm	2 x 36W LED	Surface mounted	Petrel	Exed Zone 1	Suitable for gas meter room. Zone 1 hazardous. White. IP65. 4000K. Integral isolation switch as standard Single point locking action EOL lamp shut down Integral 3hr battery backup for emergency lighting where required.	
LED1	Apartment kitchen bench lighting – To be provided by kitchen supplier. MEP Contractor to provide fused spur and termination of connections to fitting. MEP Contractor to provide switching of fitting.							
LED2	Apartment wardrobe lighting – To be provided by Wardrobe manufacturer. MEP Contractor to provide fused spur and termination of connections to fitting. Wardrobe manufacturer to provide micro switch and motion sensor within wardrobe.							

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LED3	L312 x W127 x D110.	150lm	8W LED	Recessed	Kingfisher Lighting	Renio One Way	External courtyard lighting. 3000k. Complete with recessing box. Dark grey finish. Aluminium. IP65. Non-dimmable.	
LED4	N/A	TBC	50W LED	Surface.	Kingfisher Lighting	Cinop Side Flex	External courtyard lighting. 3000k.	
LED5	Not used.							
LED6	5m	2800lm per 5m	28w per 5m	Surface mounted	Concord	Start Flex Low Output	Apartments. Semi deep 16 profile LED strip. IP20. 3000K. Non-dimmable. 16mm aluminium extrusion to be provided. Refer to architectural drawings for final dimensions	

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LED7	5m	2800lm per 5m	28w per 5m	Surface mounted	Concord	Start Flex Low Output	Stair 3. Profile LED strip. IP20. 3000K. Non-dimmable. aluminium extrusion to be provided – final type to be coordinated with staircase. Refer to architectural drawings for final dimensions	
P1	620 x 430 x 430	TBC	25W E14	Ceiling suspended	Christopher Wray	Stanthorpe medium	Lobby and concierge. Feature pendant. Polished nickel. 3000K. Non-dimmable.	
P2	<p>Client to advise. RFI raised, response - This has been discussed with the client and they would like to wait until later in the programme to review these fittings once the main principles of the scheme design have been reviewed. Then they would like to review with yourselves in a meeting. Provisional sum to be allowed by Electrical Contractor within tender.</p>							
P3	<p>Client to advise. RFI raised, response - This has been discussed with the client and they would like to wait until later in the programme to review these fittings once the main principles of the scheme design have been reviewed. Then they would like to review with yourselves in a meeting. Provisional sum to be allowed by Electrical Contractor within tender.</p>							

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P4	<p>Client to advise. RFI raised, response - This has been discussed with the client and they would like to wait until later in the programme to review these fittings once the main principles of the scheme design have been reviewed. Then they would like to review with yourselves in a meeting. Provisional sum to be allowed by Electrical Contractor within tender.</p>							
B1	180mm x 1000mm	1650lm	36W LED	Ground	Kingfisher Lighting	Kubix 180	Bollard. IP66. 3000k. Non-dimmable.	
B2	Not used.							
B3	<p>Existing listed pole luminaires to be retained, re-lamped and circulated to new exterior lighting circuit. New lamps to be LED and of 3000k colour. To have a minimum of 10w output. Non-dimmable.</p>							

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E	L55 x H25	260lm	3W LED	Recessed	Whitecroft Lighting	Florin E3	Emergency downlight. White. 3 hour non-maintained. Surface option – refer to drawings where required. Nickel Cadmium NiCd battery. Escape route optics.	
EE	L355 X W112 X H150	N/A	4.5W LED	Recessed	Whitecroft Lighting	Concert EX1R	Illuminated emergency exit sign. Steel body. White 3 hour maintained (may be wired as non-maintained). Complete with Ni-Cd cells. Running man legend.	
E1	TBC	151lm	3.2w LED	Surface Mounted	Whitecroft Lighting	Concert EX65	IP65/IK10 rated. High impact polycarbonate TP(a) body finished white. Hinged gear tray. High temperature Ni-Cd battery with constant current charger and LED charge indicator.	
PIR	L76 x D65	N/A	N/A	Recessed / Surface Mounted. Refer to drawings.	CP Electronics	EBR	EBDSPiR Compact, flush mounted, ceiling PIR presence detector. Surface mounted detectors to be provided with Surface mounting box.	

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PC	L95 x W95	N/A	N/A	Surface Mounted	CP Electronics	ALC15	Robust, IP66, surface mounted. Pv cell switch, basic switching. Suitable for lighting. Works with any type of lamp. Adjust time delay and lux settings via pots.	
TC	N/A	N/A	N/A	Surface Mounted	MK Electric	5732S	Digital two channel two module. 24 hour/7 day display min setting 1 minute. Winter/Summertime Adjustment.	
C	N/A	N/A	N/A	Surface Mounted	MK Electric	7440S	Three Module - 40A. A manual override enables the temporary setting of the contactor in either the on or off position in addition to normal automatic operation.	
N/A	-	-	-	Surface Mounted	Hager	KLIK	White. 6A rating. 3 / 4 Pin. Refer to specification for locations.	

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N/A	-	-	-	Surface Mounted	CP Electronics	ELT10	White. Located in risers. Three pre-set test periods.	
N/A	-	-	-	Surface Mounted	CP Electronics	ELT-REL	Emergency lighting relays. Located in risers. To facilitate multiple circuits.	
<u>NHS Unit</u>								
B	600 x 600 x 124	TBC.	38W LED	Recessed	Thorlux	CleanLine CZ 17003A	Recessed ligature resistant. Steel body. Finished full polyester. IP65. 4000K. 80 Dimmable. Integral 3hr battery where required.	

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C	206 DIA.	TBC.	12W LED	Recessed	Thorlux	G3 Range GT 15088A	Ligature resistant. Frosted glass diffuser. Satin white RAL 9016. IP65. 4000K. Dimmable. Integral 3hr battery where required.	
D	206 DIA.	TBC.	24W LED	Recessed	Thorlux	G3 Range GT 15089A	Ligature resistant. Frosted glass diffuser. Satin white RAL 9016. IP65. 4000K. Dimmable. Integral 3hr battery where required.	
F	600 x 600 x 56	TBC.	28W LED	Recessed	Thorlux	Radiance RAD 16726A	Ligature resistant. LG7 diffuser. IP20. 4000K. Dimmable. Integral 3hr battery where required.	

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G	600 x 600 x 56	TBC.	38W LED	Recessed	Thorlux	Radiance RAD 16727A	Ligature resistant. LG7 diffuser. IP20. 4000K. Dimmable. Integral 3hr battery where required.	
H	1570 x 100 x 110	TBC.	30W LED	Surface	Thorlux	Thoroproof TP 15906L	Linear fitting Polycarbonate body Prismatic polycarbonate diffuser. Light grey IP65. 4000K. Dimmable.	
EM	400 x 102 x 460	N/A	4W LED.	Surface	Thorlux	Eight-65 EFB 18539L	Emergency bulkhead luminaire. White. IP65. 4000. Integral 3hr battery.	

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EXIT	300 x 37 x 183	N/A	1.7W LED	Surface	Thorlux	Lexi WLX 17461	Emergency Exit luminaire White RAL9016 Acrylic legend. IP65. Maintained Double or single sided pictogram legend. Integral 3hr battery.	
PIR	L76 x D65	N/A	N/A	Recessed	CP Electronics	EBDSPIR DALI / DSI Dimming	Switching/Dimming with Lux Level Sensing. Absence detection functionality User handset available to control on/off and lux levels. Step-down illuminance. Maintained Illuminance (daylight linking or daylight harvesting). Two channel flexibility.	



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### 5. Access Control Equipment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
<u>Residential development</u>				
Video / Audio Handset	AGATA VC/B	CAME BPT	Handset video intercom 2 programmable AUX keys - white. Building version with 8 Intercom calls. Wall monitor with 3,5" colour LCD display. Backlit Master/Slave function	
Video / Audio Entrance Panel	VRC3 ABVPX/DIGI	CAME BPT	Anodic Bronze finish. Vandal-proof front plate. LCD graphical display. Door opener activated by number code or proximity card. Sound and visual alerts. Quick start function, menu-driven programming on display.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Registration Reader	IMPRO Registration Reader GB/HRN980	CAME BPT	Multi-discipline enrolment reader. Operational within the portal access control system. Reads 125 kHz and 13.56 MHz tags. Four volumes. Single tone buzzer. Status LED's.	
Cluster Controller	HCW Boxed Cluster Controller	CAME BPT	Plug and play hardware. Houses up to 4no. modules. Antenna or digital I/O modules. Embedded web solution.	
Proximity Card Reader	IMPRO Multi Discipline Reader GB/HRW900	CAME BPT	Passive proximity reader. Works on both 125 kHz and 13.56 MHz frequency tags.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
RF Receiver	IMPRO RF Receiver GB/HRR900	CAME BPT	RF proximity reader. Built in antenna and buzzer.	
Lift Controller	Lift Control HMO – 901 IMPRO digital I/O module.	CAME BPT	Lift operation controller. Output relays on DIO module to activate different floor buttons within lift.	
Proximity Tag	Tags TKR900 IMPRO MIFARE TAG	CAME BPT	13.56 MHz tag. Rectangular key. Encrypted technology.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Push to Exit Switch	Double Pole Push to Exit Switch	Contractor Choice.	Stainless steel. Anti-vandal button. IK09. Momentary DPDT. Touch free sensor button. Adjustable time delay. Illuminated red/green. Recessed unless otherwise specified.	
Emergency Door Release	Triple Pole Push to Exit Switch	Contractor Choice.	Triple pole. Break glass. To be provide with cover. LED and sounder built in. Resettable. Green plastic. Recessed Unless Otherwise Specified.	
Magnetic Lock	Magnetic Lock	Contractor Choice.	To be selected in coordination with the Architect and door specification. Surface mounted. Internal and external use. Tamper resistant. Magnetic lock.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
<u>NHS Unit</u>				
Proximity Card Reader	Switch 2. Proximity backbox reader.	Paxton.	Works with Net2 or Switch2. Black.	
Push to Exit Switch.	Switch 2. Exit Button.	Paxton.	Works with Net2 or Switch2. Touch sensor. Black.	
Keypad.	Switch 2. Proximity Keypad.	Paxton.	Works with Net2 or Switch2. Works with Net2 or Switch2. Black.	

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<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Video Entry Panel.	Net 2. Entry – Standard panel, surface mount with rain hood.	Paxton.	Pan/tilt camera functionality. Built-in keypad & RFID reader IPX5 rated for external use. IP & PoE technology. SIP compatible.	
Video Monitor.	Net 2. Entry Standard monitor – with handset.	Paxton.	Works with Paxton10, Net2 & standalone. 4.3” capacitive touch screen IP and PoE technology. Wall mounted.	
Control Unit.	Net 2. Entry Control Unit.	Paxton.	4 port PoE switch. Tamper switch. 2A 12V DC power supply. Plastic cabinet housing.	

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## Electrical Equipment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Proximity Programmer.	Net 2. Desktop reader.	Paxton.	Add tokens to system. USB connection. 514-326 reads Net2 & MIFARE® tokens.	
<p>Note – Emergency door release button and magnetic door holder to be the same specification as residential areas.</p>				




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## 6. Communications Equipment

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Uninterruptible Power Supply (UPS)	SMT1000I-6W APS Smart UPS.	Schneider Electric	Output Power Capacity 700 Watts / 1000 VA. Nominal Output Voltage 230V. Contractor and specialist to select final UPS, sized on local requirements.	
Comms Cabinet	42U or similar	Comms Express	Grey/black. Lockable / removable glass front door. Lockable / removable side and rear panels. Vented top cover. Floor standing. Steel frame. 19" mounting rails.	
Comms Cabinet	15U or similar.	Comms Express	Grey/black. Lockable / removable glass front door. Lockable / removable side and rear panels. Vented top cover. Floor standing. Steel frame. 19" mounting rails.	

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## Electrical Equipment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Cabinet Power Supply	PDU.	Comms Express	N/A	




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## 7. Fire Alarm Equipment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
<u>Residential Development – Landlords Areas</u>				
Fire Alarm Panel.	Vigilon Plus.	Honeywell Gent.	Refer to drawings for the number of loops. 72 hours battery backup. Certified to EN54 parts 2 and 4. On-board printer Full Qwerty style keyboard. 200 devices on each loop.	
Fire Alarm Repeater Panel.	Vigilon Plus - LCD Repeat Indicator.	Honeywell Gent.	Displays fire, fault and disablement. A maximum of 4 repeat panels can be connected to a Vigilon panel via an RS485 communication port.	
Aspirating Detection.	FAAST LT-200.	Honeywell Gent.	Class C applications where maintenance is difficult.	

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Aspirating Detection Pipework.	Aspirating Detection Pipework.	Honeywell Gent.	Red in colour. Specification as design on pipework layout to be provided by specialist. Frequency of clips and supports to be provided by specialist.	
Aspirating Detection Interface.	FAAST Interface Unit.	Honeywell Gent.	Integrate FAAST aspirating detection onto the Vigilon loop via a combined PSU and loop interface. PSU provides necessary power and 24 hour battery backup compliant to EN54-4. Supplied in a bundle kit complete with a FAAST or FAAST LT as well as batteries and connection PCB.	
Fire Alarm Interface Relay	Relay	Honeywell Gent.	Input/output relays.	
Heat detector	Optical Heat Detector	Honeywell Gent.	Refer to drawings for sounder and strobe base requirements. Surface mounted.	

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Smoke detector	Optical Smoke Detector	Honeywell Gent.	Refer to drawings for sounder and strobe base requirements. Surface mounted.	
Beacon.	Beacon.	Honeywell Gent.	Surface mounted.	
Sounder / Beacon.	Sounder Beacon.	Honeywell Gent.	Surface mounted.	
Sounder.	Sounder.	Honeywell Gent.	Surface mounted.	
Sounder Base.	Sounder Base.	Honeywell Gent.	Surface mounted. Connected to smoke / heat detectors.	

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Carbon Monoxide Sensor	Carbon Monoxide Sensor	Honeywell Gent.	To be installed in areas / rooms where gas services are routed.	
Manual Call Point	Manual Call Point	Honeywell Gent.	Call points to be provided with clear protective covers.	
Door Holder	Door Holder	Honeywell Gent.	Floor or wall mounted. Complies with BS5839-3.	
<u>Apartments</u>				
Smoke / Heat Detector	Duel Q	Gira UK	230v mains connection. Networked to other detectors in apartment. LED display. Function button. 10 year battery life. Alarm: at least 85 dB (A) IP42.	

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<u>NHS Unit</u>				
Fire Alarm Contractor to be used for works within NHS area; Chameleon, Sterling House, 20 Station Road, Gerrards Cross, SL9 8EL.				
Fire Alarm Panel	ZX Series control panel; ZX5SE 1-5 loop.	Morley	230Vac. 4 sounder circuits. 4 line display and networking capability. 6 Amp PSU with 460mA loop capability 500 x 500 x 195mm (H x W x D).	
Fire Alarm Interface.	Intelligent Twin Input/output Unit.	Apollo Fire	Supply Voltage: 17-35 V dc The Intelligent Twin Input/output Unit provides the function of two Input/output Units within one enclosure. The two units are electrically independent of each other. There is a DIL switch on each unit to set the address.	
Smoke detector.	SIL Discovery Multisensor detector.	Apollo Fire	The Discovery Optical/ Heat Multisensor detector is designed to be connected to a two-wire loop circuit carrying both data and a 17 V to 28 V dc supply. A remote LED indicator requiring not more than 4 mA at 5 V may be connected between the +R and -R terminals.	

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Smoke detector c/w Sounder Base.	Smoke Detector c/w sounder base. Discovery sounder base with isolator.	Apollo Fire	Protocol Voltage: 5 to 9V Peak to Peak. Operating temperature: -20° to 60 °C. The Discovery Sounder Base with Isolator is a multifunctional device comprising a mounting base for Discovery fire detectors, a sounder and a short-circuit isolator.	
Smoke detector c/w Sounder and Strobe Base.	Smoke Detector c/w sounder and strobe base. SIL Discovery sounder visual indicator base.	Apollo Fire	Quiescent Current: 450µA. Operating temperature: -20° to 60 °C. Discovery, XP95 & Core Protocol compatible.	
Heat Detector.	SIL Discovery Multisensor detector	Apollo Fire	The Discovery Optical/ Heat Multisensor detector is designed to be connected to a two-wire loop circuit carrying both data and a 17 V to 28 V dc supply. A remote LED indicator requiring not more than 4 mA at 5 V may be connected between the +R and -R terminals.	

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Heat detector c/w Sounder Base.	Smoke Detector c/w sounder base. Discovery sounder base with isolator.	Apollo Fire	Weight: 140g. Product Diameter: 115mm. Protocol Voltage: 5 to 9V Peak to Peak. Operating temperature: -20° to 60 °C. The Discovery Sounder Base with Isolator is a multifunctional device comprising a mounting base for Discovery fire detectors, a sounder and a short-circuit isolator.	
Heat detector c/w Sounder and Strobe Base.	Smoke Detector c/w sounder and strobe base. SIL Discovery sounder visual indicator base.	Apollo Fire	Quiescent Current: 450µA. Operating Temperature: -20° to 60 °C. Discovery, XP95 & Core Protocol compatible.	
Carbon Monoxide Sensor.	Discovery Carbon Monoxide Detector.	Apollo Fire	Weight: 105g. Product Diameter: 100mm. The Discovery CO detector has five operating modes, each having a set combination of sensitivity and response delay, which the user can select for any given application.	

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Manual Call Point.	SIL Discovery Manual call Point with Isolator (RED).	Apollo Fire	Weight: 180g. Protocol Voltage: 5 to 9V Peak to Peak. Operating Temperature: -70° to 70 °C. The Apollo Discovery Manual Call Point has been designed to operate on a loop of intelligent fire detection devices.	
Wall Mounted Sounder and Strobe	Discovery open-area sounder visual indicator (RED).	Apollo Fire	Weight: 265g. Product Diameter: 98mm. Quiescent Current: 500µA. Polarity: L1 and L2 are polarity sensitive. The Discovery Open-Area Sounder Visual Indicator is used to provide an audible and visual warning of fire and is controlled by the fire control panel by means of the Discovery or Core Protocol.	





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## 8. Cable Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Fire Rated Cabling	FP200+ Enhanced FP400+ Enhanced FP600+ Enhanced	Prysmian.	To be used on primary and secondary supplies serving life safety equipment. To be diversely routed. In compliance with BS 8519.	
Flexible Cord	LSZH.	Doncaster Cables. Lapp Group. Draka.	Low smoke zero halogen. White. Maximum of 10m length. To be used on serving equipment via isolators.	
Armoured Cables	XLPE. LSZH.	Doncaster Cables. Lapp Group. Draka.	Low smoke zero halogen. To be used for sub-mains distribution. XLPE insulated.	
Twin and Earth	LSZH.	Doncaster Cables. Lapp Group. Draka.	Low smoke zero halogen. Grey. To be used for final circuit wiring within the apartments only.	

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Single Core Cables	XLPE. LSZH.	Doncaster Cables. Lapp Group. Draka.	Low smoke zero halogen. XLPE insulated. To be used for final circuits within landlords' areas.	
Single-Mode Fibre Cabling	Screened. OM4.	Contractor / Specialist Choice.	Low smoke zero halogen. Tight buffered. To be used for communications wiring. To specialists' requirements. To be segregated from mains power circuits.	
Multi-Mode Fibre Cabling	Screened. OM4.	Contractor / Specialist Choice.	Low smoke zero halogen. Tight buffered. To be used for communications wiring. To specialists' requirements. To be segregated from mains power circuits.	
Cat6A Communication Cabling	Screened. PVC.	Contractor / Specialist Choice.	Low smoke zero halogen. To be used for communications wiring. To be segregated from mains power circuits.	

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Coax Cabling	Screened.	Contractor / Specialist Choice.	Low smoke zero halogen. To specialists' requirements. To be used for FIRS wiring. To be segregated from mains power circuits.	
Cable Identification.	Z-Type.	Critchley. Legrand.	Straight cut cable markers Gusseted design To fit cable diameter 7.9 - 12.7mm.	





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### 9. Containment Schedule

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Steel Cable Trays, Baskets, Ladder Rack & Trunking.	Swifts cable containment. Steel galvanised.	Legrand.	Steel galvanised. Medium duty unless otherwise specified.	
Conduit (Steel).	Steel Galvanised.	Walsall.	Galvanized electrical metallic tubing. Steel galvanised. Grade Q195 steel.	
Conduit (PVC).	PVC-U Plastic.	Marshall Tufflex.	Recycled PVC-U content. White / black. PVC-U. High impact PVC.	
Conduit (Flexible).	Metallic Flexible Conduit.	Kopex.	Steel galvanised.	

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Trunking (PVC).	PVC-U Plastic.	Marshall Tufflex.	Slim trunking system. 3-compartment. Chamfered edges. Back boxes to fit within.	




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## 10. Electric Vehicle Charging

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Floor Standing Electric Vehicle Charging Point	EVlink PARKING Floor Standing 7KW 1xT2 with Shutter RFID EV charging station.	Schneider.	7KW Single phase. Single Vehicle Charging. Wi-Fi Enabled. RFID. IP54. Ik10. To be provided with charging cables and holders.	
EV Charging Load Management System	Charge controller, EVlink, 50 charging stations, dynamic charge management.	Schneider.	Automatic de-rating of chargers. Connection to local WIFI / 4g network. Inclusive of controls and protective devices. Automatic overload control. Maximum 50 charging stations.	
EV Charging 4g Modem	4G cellular modem, EVlink.	Schneider.	Provides connection to load management system.	

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EV Charging 4g Antenna.	4G antenna for EVlink Parking.	Schneider.	Antenna to serve 4g modem.	



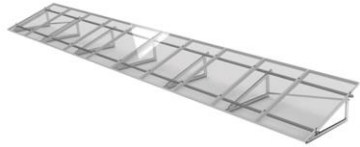
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## 11. Photovoltaics

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
PV Panel.	N/A	JA Solar.	Rating – 325w. Efficiency – 19.7%. Width – 996mm. Height – 1,657mm. Depth – 35mm. Percium Monocrystalline.	
Combination DC & AC PV Isolator.	N/A	Wylex.	Class II construction. Combined DC & AC Isolator in one enclosure. Securable in the Off position. Metal enclosure.	
Roof Mounted PV Brackets.	N/A	JA Solar.	PV modules: framed, unframed. Angle of incidence: 10°- 15°, 20°-30°, 35-45°. Extruded aluminium	





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**12. Intruder Alarm**

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
External Indicator.	N/A	ADT	Build in sounder and strobe light. Wired.	
Keypad	N/A	ADT	To activate / disengage alarm system. Wired.	
PIR Detector.	N/A	ADT	To detect motion. Wired.	
Alarm Contacts.	N/A	ADT	Door / window alarm contacts. Wired.	




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### 13. Nurse Call System

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Addressable Infrared Call Point	Quantec Addressable Infrared Call Point, Button Reset c/w Iconised Label, Sounder & Remote Socket. QT602ERS.	C-TEC	Programmable addressable call point c/w iconised label, infrared receiver, call follower sounder and remote jack socket. Includes a Call button, Reset buttons and red/green confidence light. Onboard infrared receiver accepts calls from compatible Quantec infrared transmitters.	
Addressable Overdoor Light c/w Sounder	Addressable Overdoor Light c/w Sounder. QT606A.	C-TEC	Addressable overdoor light & sounder. Can be programmed to illuminate and sound when certain groups of call points are calling. Adjustable volume control. Dual red and green LEDs.	
Quantec Controller	QT601-2.	C-TEC	Supplies power to and controls a Quantec Addressable Call System. Monitors all network devices and manages the routing and distribution of all calls. Provides connections for network wiring, standby batteries. Standby batteries to be included for. Fully-flushed using a BF359/3S stainless steel enclosure.	

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**14. CCTV**

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Internal fixed dome camera	4 MP Built-in Mic Fixed Dome Network Camera. DS-2CD2143G0-IU.	HIKVISION	4 MP resolution. H.265+ compression technology. 120 dB true WDR technology.	
Internal 360° PTZ camera	4 MP Powered-by-DarkFighter Varifocal Dome Network Camera DS-2CD2745FWD-IZS	HIKVISION	4 MP resolution. Motorized Varifocal lens. 120 dB WDR technology. EH.265+ compression technology. Motorized varifocal lens.	
External fixed dome camera	4 MP Built-in Mic Fixed Dome Network Camera. DS-2CD2143G0-IU.	HIKVISION	4 MP resolution. H.265+ compression technology. 120 dB true WDR technology. Water and dust resistant (IP66) and vandal proof (IK10).	

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Internal 360° PTZ camera	4 MP Powered-by-DarkFighter Varifocal Dome Network Camera. DS-2CD2745FWD-IZS.	HIKVISION	4 MP resolution. Motorized Varifocal lens. 120 dB WDR technology. EH.265+ compression technology. Motorized varifocal lens.	
Network Video Recorder	Milestone Husky X2	Milestone Systems	Max. number of cameras -133 cameras continuous recording. Form factor - Standalone/ 2U rack-mount. Dimensions (WxDxH) - 43 x 33 x 8.8 cm. 12TB.	
Uninterruptible Power Supply (UPS)	SMT1000I-6W APS Smart UPS.	Schneider Electric	Output Power Capacity 700 Watts / 1000 VA. Final size dependant on the specific CCTV equipment loads. Nominal Output Voltage 230V.	

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HD LCD Monitor	UML-275-90	BOSCH	Full HD 3840x2160 resolution. The monitor features a colour LCD flat-screen panel in 4K and a 27-inch viewable picture area. Built-in speaker.	
CCTV Cabinet	WEO-X-06F4A	CANOVATE	Wall Mounted Rack. 6u , Steel frame Glass door with cylindrical lock Openable side panels from outside Pair of 19" Mounting Rails. RoHS compliant. UL Certificated.	
CCTV Cabinet Power Supply	PDU 8-Element 14 Comms 10 way.	Comms Express	N/A	



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## 15. Induction Loops

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Induction Loop Kit.	200m2 Meeting/Seminar Room Hearing Loop Kit.	CTEC	Includes a hearing loop amplifier, APM omni-directional plated microphone and Belden cable. For a meeting or seminar room. Wall-mountable amplifier. Internal drive, level and metal compensation controls. Two balanced / unbalanced line level inputs. One microphone input with 12V phantom power for electret microphones. Fully compliant with BS EN 60118-4.	
Induction Loop Kit.	200m2 Waiting Room Hearing Loop Kit	CTEC	Includes a hearing loop amplifier, APM omni-directional plated microphone and Belden cable. For a waiting room. Wall-mountable amplifier. Internal drive, level and metal compensation controls. Two balanced / unbalanced line level inputs. One microphone input with 12V phantom power for electret microphones. Fully compliant with BS EN 60118-4.	

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Induction Loop Cable.	2.5mm <sup>2</sup> Single Core Induction Loop Cable	CTEC	For use as a floor or ceiling 'loop' in audio-frequency induction loop systems.	




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## 16. Miscellaneous

<u>Item</u>	<u>Specification or Range (Equal and Approved)</u>	<u>Manufacturer (Equal and Approved)</u>	<u>Remarks</u>	<u>Picture</u>
Earth Point and Inspection Pit and rod.	Earth Inspection Pit.	Furse.	Lightweight inspection pit. Grey lid. 5-hole earth bar. 3m earth bar (copper). – to be tested to ensure required resistances are being achieved. To be backfilled with manufacturer approved material.	
Copper Earth Bar.	Earth Bar.	Furse.	50 mm wide. 6 mm thick copper bar. M10 termination screws. Complete with mounting base. Disconnecting link to be provided. Insulators to be provided.	
Copper Earth Matt.	Earth Matt.	Furse.	Substation earthing. Complies with BS EN 13601. Lattice formation. Copper construction. To be backfilled with manufacturer approved material.	

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Hand Dryer.	Executive Blade Hand Dryer	Biodrier	Brushless motor. Optional Antibacterial UV.	

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