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**Notes:**  
THESE ARE TECHNICAL DESIGN DRAWINGS ONLY - SUITABLE FOR THE ENGINEERING SERVICES TO BE INSTALLED IN THE GENERAL ROUTED INDICATED, AND ALLOW COORDINATION / INSTALLATION DRAWINGS TO BE PRODUCED WITH MAJOR RE-ROUTING OF THOSE SERVICES.  
THESE ARE NOT INSTALLATION DRAWINGS, WHICH SHOULD BE PRODUCED BY MAIN CONTRACTOR/ SUB-CONTRACTORS SHOWING FURTHER DETAILS TO FOR THE ENGINEERING SERVICES TO BE INSTALLED (E.G. FULLY DIMENSIONED, ALLOWING FOR BRACKETS / SUPPORTS AND BASED ON THE ACTUAL PLANT / EQUIPMENT BEING INSTALLED).

**CABLE NOTES:**  
A CABLE PASSING THROUGH A JOIST OR CEILING SUPPORT MUST:  
- BE AT LEAST 50mm FROM THE TOP OR BOTTOM, OR  
- HAVE EARTH ARMORING OR EARTHED METAL SHEATH, OR  
- BE ENCLOSED IN EARTHED STEEL CONDUIT OR TRUNKING, OR  
- BE PROVIDED WITH MECHANICAL PROTECTION.

A CABLE CONCEALED IN A WALL OR PARTITION MUST:  
- BE AT LEAST 50mm FROM THE SURFACE, OR  
- HAVE EARTHED ARMORING OR AN EARTHED METAL SHEATH, OR  
- BE ENCLOSED IN EARTHED STEEL CONDUIT OR TRUNKING, OR  
- BE PROVIDED WITH MECHANICAL PROTECTION, OR  
- BE INSTALLED EITHER HORIZONTALLY WITHIN 150mm OF THE TOP OF THE WALL OR PARTITION, OR  
- VERTICALLY WITHIN 250mm OF THE ANGLE FORMED BY TWO WALLS.

D/B LAYOUT IS PROPOSED, FINAL LAYOUT TO BE CONFIRMED BY ELECTRICIAN.



**FIRE ALARM LEGEND**

- KIDDE 1SFW IONISATION SMOKE ALARM WITH SOUNDER, MAINS-POWERED
- KIDDE 2SFW OPTICAL SMOKE ALARM WITH SOUNDER, MAINS-POWERED
- KIDDE 3SFW HEAT ALARM WITH SOUNDER, MAINS-POWERED
- KIDDE 4MCO CARBON MONOXIDE ALARM, MAINS-POWERED

DETECTORS SHALL BE INTER-CONNECTED AND SOUND SIMULTANEOUSLY IN THE EVENT OF OPERATION AND SHALL BE WIRED TO A DEDICATED FUSEWAY ON THE CONSUMER UNIT. OPTICAL DETECTORS SHALL BE PROVIDED ON THE GROUND FLOOR. IONISATION DETECTORS SHALL BE USED ELSEWHERE.

**SMALL POWER LEGEND**

- TWIN SWITCHED SOCKET OUTLET
- SWITCHED SINGLE SOCKET
- TELEPHONE POINT
- TV AERIAL POINT
- SWITCHED FUSED CONNECTION UNIT
- CONSUMER UNIT - MK SENTRY K5666sMET 16 WAY
- SHAVER OUTLET

ELECTRIC TUBULAR HEATER - DIMPLEX ECOT2FT 80W c/w AIANO CLASSIC GUARD STG21

GENERALLY SOCKETS / OUTLETS AT 500mm.  
KITCHEN SOCKETS 150mm ABOVE WORKTOP. OUTLETS FOR APPLIANCES AT 600mm AFFL.

ALL SOCKETS OUTLETS / ACCESSORY PLATES TO BE MK LOGIC PLUS FINISHED WHITE.

| NEW WALL MOUNTED CONSUMER UNIT SP&N TYP A 16+ WAY FED FROM METER BOX | WAY | PHASE | DEVICE RATING | TYPE | CABLE SIZE (mm) | NEW MK SENTRY K5666 sMET 16 WAY 60a CONSUMER UNIT ALL RCBO PROTECTED | FEED / LOCATION |
|--|-----|-------|---------------|------|-----------------|--|-----------------|
|  |     |       |               |      |                 | CABLE TYPE   |                 |
| 1  | -   | 6     | B             | 1.5  | T&E BS7211      | 30mA - Lighting - Ground Floor                                       |                 |
| 2  | -   | 6     | B             | 1.5  | T&E BS7211      | 30mA - Lighting - First Floor (Bathroom Extract)                     |                 |
| 3  | -   | -     | -             | -    | SPARE           | -  |                 |
| 4  | -   | -     | -             | -    | SPARE           | -  |                 |
| 5  | -   | 32    | B             | 2.5  | T&E BS7211      | 30mA - RingPWR - Ground Floor  |                 |
| 6  | -   | 32    | B             | 2.5  | T&E BS7211      | 30mA - RingPWR - First Floor   |                 |
| 7  | -   | 3     | B             | 1.5  | T&E BS7211      | 30mA - RingPWR - Fire Detection                                      |                 |
| 8  | -   | 32    | B             | 2.5  | T&E BS7211      | 30mA - RadPWR - Kitchen  |                 |
| 9  | -   | 32    | B             | 2.5  | T&E BS7211      | 30mA - RadPWR - Utility  |                 |
| 10   | -   | 40    | B             | 10   | T&E BS7211      | 30mA - RadPWR - Cooker / Hob   |                 |
| 11   | -   | 20    | B             | 2.5  | T&E BS7211      | 30mA - RingPWR - Emersion Heater                                     |                 |
| 12   | -   | 40    | B             | 10   | T&E BS7211      | 30mA - RadPWR - Shower   |                 |
| 13   | -   | -     | -             | -    | SPARE           | -  |                 |
| 14   | -   | -     | -             | -    | SPARE           | -  |                 |
| 15   | -   | -     | -             | -    | SPARE           | -  |                 |
| 16   | -   | -     | -             | -    | SPARE           | -  |                 |

| REV | ISSUED | DATE     | CHECKED | DATE     | APPROVED | DATE |
|-----|--------|----------|---------|----------|----------|------|
| P0  | KG     | 17/11/17 | TK      | 17/11/17 |          |      |

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CLIENT  
Forestry Commission East England Forest District Santon Downham, Brandon, Suffolk

PROJECT  
Refurbishment of Warren Cottage  
Lynford, Thetford, IP15 5ET

|                                     |                                 |                             |
|-------------------------------------|---------------------------------|-----------------------------|
| TITLE<br>Electrical Services        |                                 |                             |
| Proposed First Floor                |                                 |                             |
| Electrical Services                 |                                 |                             |
| SCALES<br>1:50                      | DISCIPLINE<br>ELEC ENG          | PROJECT NUMBER<br>18-3-6022 |
| DRAWING NUMBER<br>HBS-DR-E-(60)-004 | REV CODE<br>P0                  |                             |
| STATUS CODE<br>S2                   | PURPOSE OF ISSUE<br>INFORMATION | DRAWN BY<br>KG              |