



**FIRE ALARM LEGEND**

- Si** KIDDE 1SFW IONISATION SMOKE ALARM WITH SOUNDER, MAINS-POWERED
- So** KIDDE 2SFW OPTICAL SMOKE ALARM WITH SOUNDER, MAINS-POWERED
- Ht** KIDDE 3SFW HEAT ALARM WITH SOUNDER, MAINS-POWERED
- CO** 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**

- D<sub>2</sub>** TWIN SWITCHED SOCKET OUTLET
- D<sub>1</sub>** SWITCHED SINGLE SOCKET
- BT** TELEPHONE POINT
- TV** TV AERIAL POINT
- SWITCHED FUSED CONNECTION UNIT
- CONSUMER UNIT - MK SENTRY K5666sMET 16 WAY
- SH** 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	-	

**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.

FOR INFORMATION:

P0	NO	17/11/17	TK	17/11/17		
REV	ISSUED	DATE	CHECKED	DATE	APPROVED	DATE

**Hamson Barron Smith** [www.hamsonbarronsmith.com](http://www.hamsonbarronsmith.com)  
 Haywards Heath  
 Hayworthe House, Market Place  
 Haywards Heath  
 West Sussex RH16 1DB  
 +44 (0)1444 449400  
 hello@hamsonbarronsmith.com

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

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

TITLE  
 Electrical Services

Proposed Ground Floor

Electrical Services

SCALES	DISCIPLINE	PROJECT NUMBER
1:50	ELEC ENG	18-3-6022

DRAWING NUMBER	REV CODE	
HBS-DR-E-(60)-003	P0	
STATUS CODE	PURPOSE OF ISSUE	DRAWN BY
S2	INFORMATION	KG