



UK Power Networks and Contractors
 HV shutdown 1
 HV overhead upgrade to 3w
 Cut the jumpers on section pole 583617 to isolate spur from the main line.
 Re energise main line leaving downstream of 583617 dead and isolated.
 Provide operators for PT 473070, Swineham Lane and PT 473069, Green Street.
 Replace the cross arm on pole numbers 583617, 583619, 583620, 583621 and 583623 with a larger one to allow for third conductor.
 Remove 07 stamped pole number 583618 and replace with new pole and larger cross arm to allow for third conductor.
 Remove pole number 583622 as it is falling over and plant new pole away from edge of bank to avoid leaning in the future. Fix larger cross arm to new pole to allow for third conductor.
 The existing PT on pole 583624 (473070 Swineham Lane) is located too high up the pole to be able to connect the HV pole term. Relocate the PT lower down the existing pole and replace the cross arm with a larger one to allow for the third conductor.
 Install a third conductor between pole numbers 583617 and 583624.

HV underground and substation works
 Connect a 300ax via a HV pole term with surge diverters onto pole 583624 and run approximately 1.4km along road toward Crowhurst Road bridge. Straight joint a 95ax onto end of newly laid 300ax and run approximately 5m into new 200kVA compact substation in GRP and terminate.
 At Lower Witing Farm branch joint a 95ax onto the new 300ax as indicated on the 1:200 plan and run approximately 10m into new 50kVA micro and terminate.

LV works
 Connect a 95H out of new 200kVA compact substation and run approximately 20m (inc 10m up pole 574996). Clip in place but do not connect to overhead line.
 Connect a 95H out of new 50kVA micro and run approximately 42m (inc 10m up pole 575004). Clip in place but do not connect to overhead line.

New Service
 Connect a 95H out of new compact and run approximately 60m across to site and terminate in a 3ph 200A cut out fused at 200A with CT metering, TT earth arrangement. Leave fuses out in the compact.

HV shutdown 2
 Change cross arm on pole 583577 to allow for third conductor and install third conductor between pole numbers 583577 and 583617.
 Energise compact and micro and install fuses in compact for TBS only.

HV shutdown 3
 Remove overhead lines between pole numbers 574996 and 574986.
 Remove pole numbers 574994 and 574995.
 Remove span between 574996 and PT (473066 Witing Farm) pole number 583663/588335. ?
 Network Rail w/alterer required.
 Convert pole 575004 to term pole and install 2 x new stay wires.
 Connect 95H from micro to term pole 575004 and energise.
 Remove spans between pole numbers 574996 and 575004.
 Remove pole numbers 575003, 575002, 575001, 575000, 574999, 574998, 574997, and 574996.
 Connect 95H from compact to pole 574986 and energise.
 Install fuses in compact to maintain existing network.
 Relocate PT 473065 Mayfield to other side of pole to allow for 2 stay wires to be installed.
 Remove the overhead HV spans between pole numbers 583660 and 583663/588335.
 Remove the redundant PT 473066 Witing Farm.
 Remove pole numbers 583663/588335, 583662 and 583661.

Netmap Earthing Info
 HV Earth 10 ohm – Earth rods in multiple locations, total rod length = 2-6m
 LV Earth 20 ohm – Earth rod in single location, total rod length 1-3m.

detour into verge when crossing bridge then cable can be 450mm depth

new 50kVA micro on bundled plinth in GRP

<p>Description</p> <p>LV Cable or Line</p> <p>HV Cable or Line</p> <p>EHV Cable or Line</p> <p>Ductline</p> <p>Pole & Street Furniture</p> <p>Substation & Link Box</p>	<p>Existing</p> <p>Proposed</p>	<p>1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.</p> <p>2. The exact position of the apparatus should be verified – use approved cable avoidance tools prior to excavation using suitable hand tools.</p> <p>3. It is essential that trial holes are carefully made, avoiding the use of mechanical tools or picks until the exact location of all cables has been determined.</p> <p>4. It must be assumed that each property and item of street furniture has an electricity supply. Service cables shown only where known.</p> <p>5. All cables must be treated as being live unless proved otherwise by UK Power Networks.</p> <p>6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.</p> <p>7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.</p>	<p>1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.</p> <p>2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.</p> <p>3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.</p> <p>4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept any/or do not understand the terms of use set out in the covering letter you must not use the plan and you must return it to the sender of the letter.</p> <p>5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.</p>	<p>0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m</p> <p>The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.</p> <p>Maps produced at 1:2500 scale are LV Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.</p> <p>Contact UK Power Networks on 0800 056 5866 for details of EHV Cable routes before commencing work.</p> <p>VISITING AN OPEN POINT? Please mark on this plan all locations visited and open points as found, then return updated map to your Business Unit – Thank You.</p>	<p>Plan Provision</p> <p>CHECK IT OUT BEFORE YOU DIG IT OUT</p> <p>CALL 0800 056 5866 EMERGENCY – If you damage a cable or line</p> <p>Phone 0800 056 3766 (24hrs) URGENTLY</p> <p>ALWAYS LOCK UP BEFORE YOU START WORK</p> <p>Refer to HSE Guidance note GS6</p>	<p>Grid Ref: TQ 76908 11136</p> <p>Scale: 1:500</p> <p>(When Plotted at A0)</p> <p>Plotted on: 17/12/2012</p> <p>Plotted by: Jenni Wright</p> <p>UK Power Networks</p>
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