

[illegible]

# LEGEND

## ABBREVIATIONS

|                                |        |
|--------------------------------|--------|
| Air Conditioning               | AC     |
| Attached to Wall               | AW     |
| ATW                            | ATW    |
| Assumed Route                  | A/R    |
| Biochemical                    | BS     |
| Bore Hole                      | BH     |
| Bolt                           | B      |
| Bollard                        | BO     |
| Bus Stop                       | BS     |
| BT Inspection Cover            | BTIC   |
| Buzz                           | BZ     |
| Cable Drop                     | CD     |
| Cable Water Inspection Cover   | CWC    |
| CCTV Pipe                      | CCTV   |
| Control Panel                  | CP     |
| Cathodic Protect.              | CP     |
| Concrete Power Substation      | CPS    |
| Concrete Support               | CS     |
| Cooling Main Inspection Cover  | CIMC   |
| Crest Fence                    | CF     |
| Disconnected Utility           | Dac    |
| Down                           | DO     |
| Empty Duct Inspection Cover    | EDIC   |
| Fibre Inspection Cover         | FIC    |
| Electric Service Cover         | E/S    |
| End of Pipe                    | EP     |
| Electric Pole                  | EP     |
| Earth Rod                      | ER     |
| Fire Alarm                     | FA     |
| Fence                          | F      |
| Flange                         | FL     |
| Fuel Main Inspection Cover     | FNIC   |
| Fibre Inspection Cover         | FIC    |
| Fuel Pit                       | FP     |
| Fuel Pump                      | FU     |
| Fibre Inspection Cover         | FIC    |
| Gas Service                    | G/S    |
| Gas Pipe Marker                | GPM    |
| Gas Meter Box                  | GMB    |
| Gate Post                      | GP     |
| Gas Valve                      | GV     |
| Gully                          | G      |
| Heating Main Inspection Cover  | HMIC   |
| Inspection Cover               | IC     |
| Kerb Inlet Gully               | KG     |
| Lamp Head                      | LH     |
| Light Column                   | LC     |
| Metal Column                   | MC     |
| Metal Post                     | MP     |
| Metal Post                     | MP     |
| Metal Post                     | MP     |
| Metal Support                  | MS     |
| Monitoring Well                | NB     |
| Noise Board                    | NB     |
| Not Located                    | N/L    |
| Noticeable                     | N/A    |
| No Visible Outgoing            | NVO    |
| Oil Inspection Cover           | OIC    |
| Oil Meter                      | P      |
| Out End                        | P/E    |
| Peg                            | PM     |
| Parking Meter                  | PM     |
| Pipe Visible                   | P/V    |
| Pole                           | P      |
| Pipe Riser                     | PR     |
| Pump                           | P      |
| Pneumatic                      | P      |
| Rail                           | RB     |
| Reinforcing Rod                | RR     |
| Roof                           | RO     |
| Salt Box                       | SBX    |
| Scot                           | SC     |
| Switch                         | SW     |
| Tank                           | T      |
| Telephone                      | TE     |
| Service Tank                   | ST     |
| Surface Water Inspection Cover | SWIC   |
| Stake                          | SK     |
| Stop Wire                      | SY     |
| Tree Height Approximate        | THA    |
| Tree Inspection Cover          | TRIC   |
| Trail                          | TL     |
| Trail Hole                     | TH     |
| Trunk Light                    | TL     |
| Trunk Line                     | TL     |
| Trunkage Pole                  | TP     |
| Transformer                    | TF     |
| Cable TV Termination Box       | TV     |
| Unable to Survey               | UTS    |
| Utility                        | U      |
| Ventilation Pipe               | VP     |
| Water Inspection Cover         | WIC    |
| Water Meter                    | WM     |
| Water Main                     | WM     |
| Water Pipe                     | WP     |
| Weather Post                   | WP     |
| Well                           | W      |
| Whodden Post                   | WP     |
| Wire                           | W      |
| Depth below Surface            | 0.50d  |
| Temporary Fence                | Temp F |

## PIPE MATERIALS

|                 |      |
|-----------------|------|
| Asbestos Cement | AC   |
| Brick           | CK   |
| Concrete        | CC   |
| High Density PE | HDPE |
| Low Density PE  | LDPE |
| Polypropylene   | PP   |
| PVC-U           | PVCU |
| Unfilled Clay   | UC   |
| Wired Clay      | WC   |

## FENCES:

|                    |     |
|--------------------|-----|
| Barbed Wire Fence  | BWF |
| Chain Link Fence   | CLF |
| Chicken Wire Fence | CWF |
| Knives Fence       | KF  |
| Perimeter Fence    | PF  |
| Post & Rail Fence  | PRF |
| Top & Wire Fence   | TWF |
| Temporary Fence    | TF  |
| Trails             | TR  |

## WALLS:

|               |     |
|---------------|-----|
| Brick Wall    | BW  |
| Concrete Wall | CCW |
| Stone Wall    | SW  |

## UTILITIES

Utility from → ←→

Band of Utility ZZZZ

### TYPES OF UTILITY SERVICES:

- - - Chamber
- BT Cable
- CF Cooling Main
- COMM Communication Cables
- CTG CCTV
- ED Empty Duct
- EH High Voltage Cable
- EL Electric Unknown
- FM Fire Main
- F Pressure Gas Pipe
- FIB Fibre
- GPO High Pressure Gas Pipe
- G Intermediate Pressure Gas Pipe
- GP Gas Pipe
- GUP Medium Pressure Gas Pipe
- H Heating Main
- HW Low Voltage Cable
- DI Oil Pipe
- S Street Light
- TCS Traffic Sensor
- TS Traffic Signals
- TC Cable TV Cables
- U Unknown Service
- W Water Pipe
- UW Underground Pipe
- P Proposed Drift Route
- CW Combined Sewer
- FW Fresh Water Drainage
- SW Surface Water Drainage

### LEVELS:

- + BLS.65 BS Level
- + CLS.65 CS Level
- + ELS.65 EVL Level
- + FLS.65 Floor Level
- + GLS.65 Ground Level
- + HWS.65 Hot Water Level
- + MSL.65 Mean Sea Level
- + SLS.65 Soil Level
- + WLS.65 Water Level

- Depths derived by EDM are taken to the centre of the conductor (cable, metallic pipe) and those derived by GPR are usually to the crown of the utility unless indicated. Where drainage levels are taken from the invert of the pipe from above ground level unless confirmed space is requested on the survey.
- These techniques have been used in the detection of non-metallic utilities as outlined in Table 2 of PAS 128:2014. The interpretation of these results is not infallible and success will depend on a number of factors including soil type, ground water levels and surface conditions.
- Fibre optic cables are often difficult to detect due to lack of metallic content and access to chambers can be blocked and thereby made inaccessible by the utility provider. All reasonable efforts have been made to locate these ducts using tracing rods and GPR.
- All cable and pipes shown on records not located have been transposed from records and shown as A/R / TFR.

## QUALITY LEVEL OF SURVEY OUTPUTS:

As laid out in Section 8 of PAS 128:2014 Specification For Underground Utility Detection Verification and Location

D - Detection Only

B - Basic reconnaissance

B1 - Horizontal and Vertical accuracy undefined

B2 - Horizontal accuracy +<50mm. Vertical accuracy undefined

B3 - Horizontal accuracy +<100mm. Vertical accuracy undefined

BSP - Photogrammetric horizontal accuracy +<40% of extended depth

B4 - Horizontal accuracy +<100mm. Vertical accuracy +<40% of extended depth

BIF - Further advice on the location of apparatus should be recommended by the owner. No representation is made about its position. It agrees or serves as to the accuracy, completeness, sufficiency or otherwise of this drawing

A - Verification - Horizontal +<50mm. Vertical +<25mm

## DESKTOP UTILITY RECORDS DETAILS:

| Date       | Type of Utility | xx National Grid | Provider Details | Date       |
|------------|-----------------|------------------|------------------|------------|
| xx/xx/201x | Gas             | xx               |                  | xx/xx/201x |
| xx/xx/201x | Water           | xx               |                  | xx/xx/201x |
| xx/xx/201x | Electricity     | xx               |                  | xx/xx/201x |
| xx/xx/201x | Drainage        | xx               |                  | xx/xx/201x |
| xx/xx/201x | British Telecom | xx               |                  | xx/xx/201x |
| xx/xx/201x | Catch           | xx               |                  | xx/xx/201x |
| xx/xx/201x | Communications  | xx               |                  | xx/xx/201x |

### Note:

Whilst every effort has been taken in the preparation of this drawing, the original land marks/apparatus configuration may have been altered since the Survey/drawing was produced. The client shall make further enquiries and liaisons to the authority responsible for the accuracy of this drawing and position of the apparatus. The exact position of the apparatus should be verified by the HGSA, further advice on the location of apparatus should be recommended by the owner. No representation is made about its position. It agrees

| LEGEND                                                                              |                              |
|-------------------------------------------------------------------------------------|------------------------------|
| ABBREVIATIONS                                                                       |                              |
|  | Air Condenser                |
|                                                                                     | Attached to Fence            |
|                                                                                     | Back                         |
|                                                                                     | Valve                        |
|                                                                                     | Assumed Route                |
|                                                                                     | Bleed                        |
|                                                                                     | Blocked Beacon               |
|                                                                                     | Block Hole                   |
|                                                                                     | Block Mark                   |
|                                                                                     | Bus                          |
|                                                                                     | Bus Stop                     |
|  | But Inspection Cover         |
|                                                                                     | Buzz                         |
|                                                                                     | Back Drop                    |
|                                                                                     | But Inspection Cover         |
|                                                                                     | But Inspection Cover         |
|                                                                                     | Drop End                     |
|                                                                                     | Drop End                     |
|                                                                                     | Control Relief               |
|                                                                                     | Control Relief, Point        |
|                                                                                     | Concrete Pavement Slabs      |
|  | Cable                        |
|                                                                                     | Cable Support                |
|                                                                                     | Cable                        |
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|                                                                                     | Cable                        |
|                                                                                     | Cable                        |
|                                                                                     | Cable                        |
|                                                                                     | Cable                        |
|                                                                                     | Cable                        |
|  | Decommissioned Utility       |
|                                                                                     | Down Pipe                    |
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1. Depths derived via EML are taken to the centre of the conductor (cable, metallic pipe) and those derived via GPR are usually to the crown of the utility unless otherwise indicated. Where drainage levels have been taken from the invert of the pipe, the water level inside the confined space is requested on the survey.
2. GPR techniques has been used in the detection of non-metallic utilities as outlined in Table 2 of PAS 128:2014. The interpretation of these results is not infallible and success will depend on a number of factors including soil type, ground water levels and surface conditions.
3. Fibre optic cables are often difficult to detect due to lack of metallic content and access to chambers may be locked and thereby made inaccessible by the utility provider. All reasonable efforts have been made to locate these ducts using tracing rods and GPR.
4. All cable and pipes shown on records not located have been transposed from records and shown as AR / TFR.

**QUALITY LEVEL OF SURVEY OUTPUTS:**  
As laid out in Section 5 of PAS 128:2014 Specification For:  
Underground Utility Detection Verification and Location

D - Desktop utility records search  
C - Site reconnaissance

B - Detection:  
B4 - Horizontal and Vertical accuracy undefined  
B3 - Horizontal accuracy  $\pm 500mm$ , Vertical accuracy undefined  
B2 - Post-processing  $\pm$  Horizontal  $\pm 500mm$ , Vertical accuracy undefined  
B1 - Horizontal accuracy  $\pm 250mm$ , Vertical  $\pm 40\%$  of detected depth  
B2P - Post-processing  $\pm$  Horizontal  $\pm 250mm$  Vertical  $\pm 40\%$  of detected depth  
B1P - Horizontal  $\pm 150mm$ , Vertical  $\pm 15\%$  of detected depth  
B1P-Post-processing  $\pm$  Horizontal  $\pm 150mm$ , Vertical  $\pm 15\%$  of detected depth

A - Verification - Horizontal  $\pm 50mm$ , Vertical  $\pm 25mm$

| Type of Utility: | Provider Details: | Date:      |
|------------------|-------------------|------------|
| Gas              | ex. National Grid | xx/xx/2019 |
| Water            | xx                | xx/xx/2019 |
| Electricity      | xx                | xx/xx/2019 |
| Drainage         | xx                | xx/xx/2019 |
| British Telecom  | xx                | xx/xx/2019 |
| CATV             | xx                | xx/xx/2019 |
| Communications:  | xx                | xx/xx/2019 |

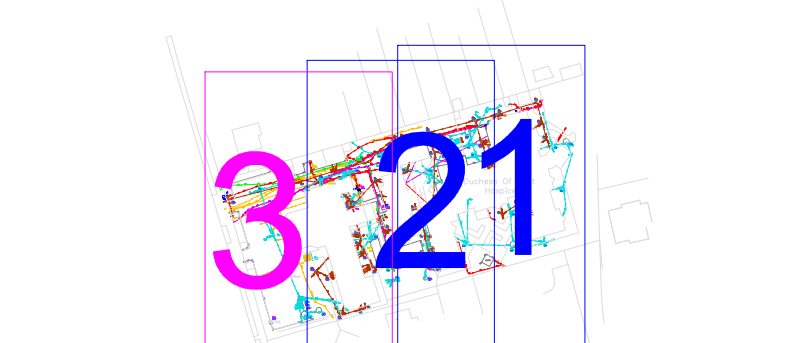
**Note:**  
Whilst every effort has been taken in the preparation of this drawing, the original land marks/apparatus configuration may have been altered since the survey/drawing was produced. The user shall make further enquiries and investigations to satisfy himself as to the accuracy of this drawing and position of the apparatus. The exact positions of the apparatus should be verified by the use of suitable detection devices and safe digging practices in accordance with HSG47, further advice on the location of apparatus should be recommended by the owner. No representation is made by the Surveyors, its agents or servants as to the accuracy, completeness or sufficiency or otherwise of this drawing and the position of the apparatus.

All apparatus shall be treated as live unless proved otherwise by the owner. It is the users responsibility to ensure that the information on the location of apparatus is provided to all persons (either direct labour or contractors) working in proximity to the apparatus.

The Survey Grid shown on this drawing is positioned on Ordnance Survey (OSBG36) National Grid OSTN15, obtained by Multiple Network RTK GPS Observations.

All Levels are in meters and are above Ordnance Survey Newlyn Datum derived by Multiple Network RTK GPS Observations using GEOID OSGM15.

## SHEET DIAGRAM



SHEET 3 OF 3

DELWOOD HOSPITAL

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DRAWING NUMBER: 34 JAN 2015