

UTILITY SURVEY DRAWING KEY

Abbreviations and Symbols

EOT - End of trace

UTT - Unable to trace

PT - Floor trace

(E) - Empty duct

(R) - Taken from records

(AR) - Assumed route

(V) - Voided information

UTL - Unable to lift

Ø - Diameter

Wd - Depth to water

Sd - Depth to surcharge

Ed - Electronically derived depth

CD - Depth to crown

Id - Depth to invert

Sd - Depth to silt

BD - Back drop

CL - Crown level

IL - Invert level

SL - Silt level

SuL - Surcharge level

WL - Water level

BL - Base level

UTR - Unable to rod

UTS - Unable to survey

FW - Full water sewer

CW - Combined water sewer

SW - Surface water sewer

GPR - Ground penetrating radar

NFI - No further information

TV

HV

LV

CCTV

COM

D

DL

F

U

W

FW

CW

SW

Utility Survey Extents

End of Trace

Cable TV

High Voltage

Low Voltage

Electric Cable

Security Cable

Comms

Fuel Line

Empty Duct

Traffic Light Cable

Gas

Oil Pipe

Batten Telecom

Unknown Trace

Water

Foul Water Sewer

Combined Water Sewer

Surface Water Sewer

Utility Survey Extents

Other

UTILITY SURVEY SITE NOTES

- It has not been possible to detect a water pipe to the south of the southern buildings that feeds the fire hydrants.
- It is recommended that trial excavations are used before construction begins to confirm the results of the survey.
- Record information indicates a 500mm DEE water pipe to the south of the survey area. site investigation has detected a pipe slightly to the south of where the records indicate. No evidence has been located of the non-operational main. Recommend trial excavations to confirm.
- It has not been possible to locate any of the manholes to the west of the site, most of these are according to record information located in areas of heavy vegetation and clearance is required to confirm.
- Record information shows a manhole very close to the boundary fence, near the substation to the west of the site. Visual inspection and metal detection was unable to detect this. It is highly recommended that a full vegetation clearance is undertaken before any further attempts to re-survey.

Sheet Layout

Disclaimer

General Notes

Electromagnetic techniques and/or ground penetrating radar have been used in the location of underground services. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and depths. Although all reasonable practices have been undertaken to detect buried services, the information cannot be guaranteed. The methods of the survey does not differentiate between live and dead services, and as such all services should be treated as live. Where services are non-metallic, these would be located with GPR. However services are likely to go undetected, if they are smaller than 2 inches, or below 2 metres. Where we have been unable to trace a service, we may show an assumed route. This is not to be treated as exact.

Vertical & Horizontal Position

Vertical position (depth) is approximate to the trace. Drains may have been detected using a tracing wire, and the depth indicated could be between the bottom and top of the pipe. Horizontal position is indicative to the centre of the utility/service, and should not be taken as exact.

Warranty

Plant marks may fade, no warranty is given in respect of the durability of the plant marks. Therefore this drawing should be used as the primary reference for the survey results. This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive techniques only, and the performance can be adversely affected by ground, weather and site conditions. Therefore some utilities may be undetectable. While Landmark Surveys uses reasonable procedures to detect all utilities, it does not guarantee 100% detection will be achieved. Services at depths greater than 2m, will not be detectable.

Where a utility is shown on this drawing as a single line, this may represent multiple utilities. Where service records have been provided, Landmark Surveys will endeavor to match results in the field. However some results may consistently match a provided service location. This could result in false information being provided. Sewer and manhole details will be critical to the project design. Landmark Surveys would recommend that entry into the chamber be undertaken using a specialist team qualified for confined space entry.

Irrespective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE guidelines - H5041 Avoiding danger from Underground Services.

Ver. 2.9

REVISIONS/UPDATES & ASSOCIATED DETAILS			
Dwg No	Details	By	Date
6719_R1	Water main added	RL	27/10/23
6719_R2	MH85 and MH86 added	RL	18/12/23
6719_R2	MH87 added and sondeed	RL	16/01/24

LANDMARK

SURVEYS WALES

THE SURVEY PEOPLE

— www.lmsurveys.co.uk — enquiries@lmsurveys.co.uk — Tel: 01504 821590

JOB TITLE

Llantrisant Health Park,  
Rhonda Cynon Taff

SHEET SIZE & SCALE

A0 @ 1:200

DATE SURVEYED

October 2023

DRAWING NUMBER

6719\_R3

SHEET

2

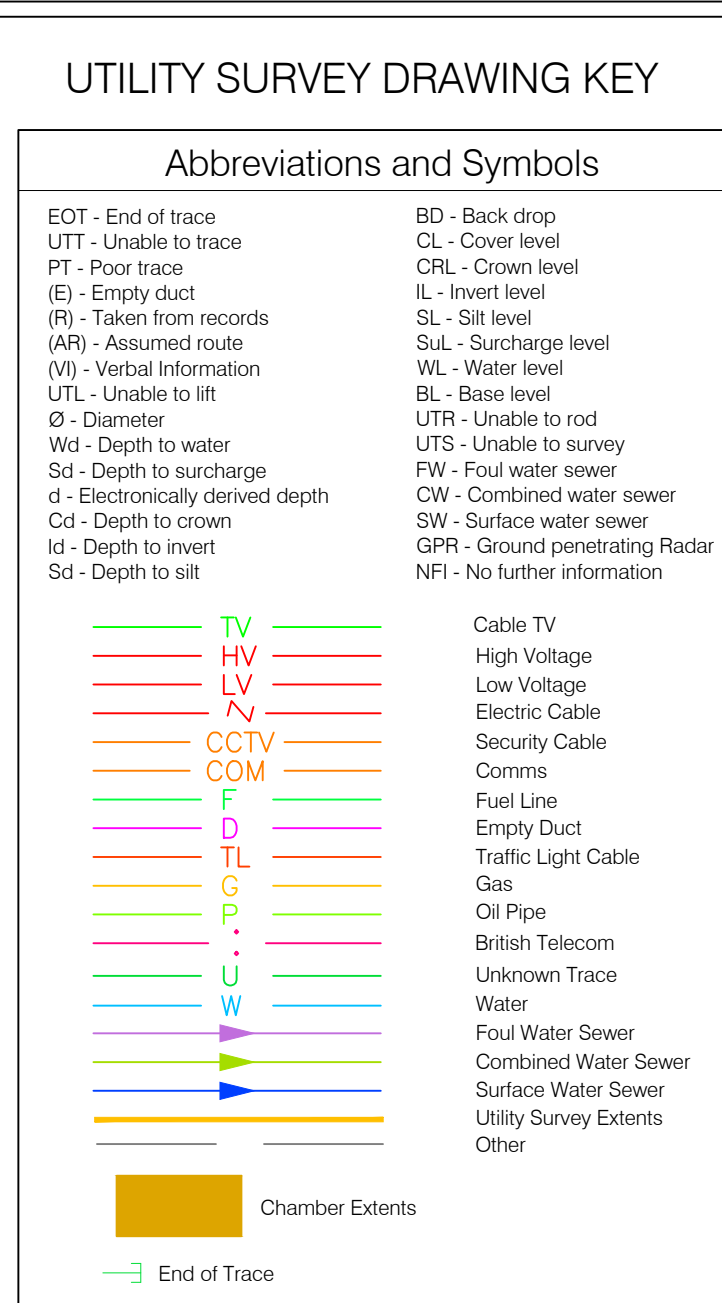
DRAWN BY

ASn

CLIENT

Archus

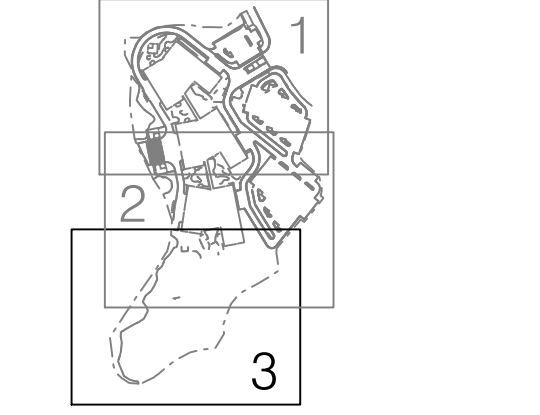




# UTILITY SURVEY SITE NOTES

- It has not been possible to detect a water pipe to the south of the southern buildings that feeds the five hydrants.
- It is recommended that trial excavations are used before construction begins to confirm the results of the survey.
- Record information indicates that a 100' diameter DE water pipe in the south of the survey area. site investigation has detected a pipe to the south of the church where the records indicate. No evidence has been located of the non-operational main. Recommend trial excavations to confirm.
- It has not been possible to locate any of the manholes to the west of the site. most of these are (according to record information) located in areas of heavy vegetation and clearance is required.
- Record information shows a manhole very close to the boundary fence, near the roadsto the west of the site. Visual inspection and mental details of the site suggest this is re-survey. It is highly recommended that a full vegetation clearance is undertaken before any further attempts to re-survey.

## Sheet Layout



### Disclaimer

## General Notes

Electro-magnetic techniques and/or ground penetrating radar have been used in the location of underground services. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and depths. Although all reasonable practices have been undertaken to detect buried services, the information cannot be guaranteed. The methods of the survey does not differentiate between live and dead services, and as such all services should be treated as live. Where services are non-metallic, these would be located with GPR. However services are likely to go undetected, if they are smaller than 2 inches, or below 2 meters. Where we have been unable to trace a service, we may show an assumed route. This is not to be treated as exact.

### Vertical & Horizontal Position

vertical position (depth) is approximate to the trace. Drains may have been detected using a tracing wire, and the depth indicated could be between the bottom and top of the pipe. Horizontal position is indicative to the centre of the utility/service, and should not be taken as exact.

**Warranty**  
Paint marks may fade; no warranty is given in respect of the durability of

the point marks. Therefore this drawing should be used as the primary reference for the survey results. This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non invasive technologies only, and the performance can be adversely affected by ground, weather and site conditions. Therefore some utilities may be undetectable. While Landmark Surveys uses reasonable procedures to detect all utilities, it does not guarantee 100% detection will be achieved. Services at depths greater than 2m, will not be detectable.

Where a utility is shown on this drawing as a single line, this may represent multiple utilities. Where service records have been provided, Landmark Surveys will endeavor to match results in the field. However, some results may coincidentally match a provided service location. This could result in false information being provided. Sewer and manhole details will be critical to the project design. Landmark Surveys would recommend that entry into the chamber be undertaken using a specialist team qualified for confined space entry.

Irrespective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE guidelines - HSG47 'Avoiding danger from Underground services'.

Ver. 2.9

REVISIONS/UPDATES & ASSOCIATED DETAILS			
Dwg No	Details	By	Date
6719_R1	Water main added	RL	27/10/11
6719_R2	MH85 and MH86 added	RL	18/12/11
6719_R2	MH87 added and sonded	RL	16/01/12



— [www.lmswalesltd.co.uk](http://www.lmswalesltd.co.uk) — [enquiries@lmswales.co.uk](mailto:enquiries@lmswales.co.uk) — Tel: 01554 821590

---

*JOB TITLE*

Llantrisant Health Park,

Rhondda Cynon Taff

SHEET SIZE & SCALE	DATE SURVEYED
--------------------	---------------

A0 @ 1:200	October 2023
------------	--------------

DRAWING NUMBER	SHEET	DRAWN BY
6710 R2	2	ASB

0719_R3	3	A311
CLIENT		

CLIENT \_\_\_\_\_

Archus