## UNDERGROUND SERVICES KEY

- A — Abandoned
- AD — Acid drain
- BT — British telecom
- TV — Cable TV
- CM — Communication cables
- C — Sewer combined
- S — Sewer surface water
- F — Sewer foul
- DU — Ducting
- E — Electric cables
- EF — Effluent pipes
- FU — Fuel line
- GA — Fuel gauge line
- V — Fuel vent line
- G — Gas pipes
- H — Heating pipes
- TL — Traffic light cables
- VR — Vapour recovery pipes
- W — Water pipes
- U — Unidentified GPR or electro location trace
- \ — Rising main
- Scar trace
- AC — Alarm cables
- CC — CCTV cables
- CH — Chemical pipes
- CA — Compressed air pipes
- CU — Culvert
- CO — Sewer combined overflow
- HV — Electric HV cables
- P — Electric pilot cables
- EA — Earth cables
- FO — Fibre optic cables
- LG — LPG pipes
- OP — Oil pipes
- SM — Sludge main
- T — Telemetry cables
- VD — Vehicle detection pad
- W W — Wash water pipes
- End of trace
- Group of services representation
- TFR — Taken from records (Not proven on site)
- AR — Assumed route
- Services survey boundary

| | | | |
|---|---|---|---|
| AR | Assumed Route | GPR | Ground Penetrating Radar |
| BD | Backdrop | TFR | Taken From Records |
| CR | Cable Riser | PE | Polyethylene Pipe |
| d | Depth | UTS | Unable To Survey |
| PR | Pipe Riser | UR | Unable To Rod |
| OF | Offset Fill | UT | Unable To Trace |
| T | Tank | NVP | No Visible Pipes |
| VR | Vapour Recovery Point | | |
| UTL | Unable To Lift | | |

### DISCLAIMER

Electromagnetic and ground penetrating radar techniques have been used in the location of underground services shown on this survey plan. These are interpretive procedures and we recommend that trial excavations should be undertaken to to confirm identification, location and depth of services where these are critical.

Please note that not all buried pipes, cable and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities.

All reasonable effort and care has been made in searching available record drawings. The completeness of the underground service information supplied to and by us cannot be guaranteed.

### NOTES

Where services are non-metallic or not proven on site, positions are taken from records, trench scars & surface detail.

Where stated, depth estimations are typically to the centre or top of the service. Depths to gravity sewers and drains are typically to invert levels, unless otherwise stated.

Where Ground Penetrating Radar (GPR) is quoted the depth is recorded to the assumed external crown of the feature.

The diagram below describes the depth information in more detail.

Where the precise position or depths of these features are critical to the design or siteworks they must be verified by the use of trial excavations.

Pipe sizes which cannot be obtained by visual survey are taken from utilities record drawings or marker plates where available.

Services shown as TFR (Taken From Records) have not been proven on site.

The CAD layering may contain further information.

### TYPICAL FEATURE DEPTH ANNOTATION

| ELECTRO-MAGNETIC DETECTION | GRAVITY DRAIN (VISUAL OBSERVATION) | GROUND PENETRATING RADAR |
|---|---|---|
| APPROX. DEPTH TO CENTRE — CABLE/FIBRE OPTIC | APPROX DEPTH TO INVERT | APPROX DEPTH TO EXTERNAL CROWN |

| Revision | Description | Date |
|---|---|---|
| | | |

Contract Title

Renfrew Street
Glasgow

Plot Title

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| Surveyor | Checked by | Contract No. | Scale | Date |
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