

At SEP we use skilled and experienced staff, modern up to date techniques and top of the range electromagnetic and radar technology to locate and trace sub-surface utilities. However the performance of the equipment employed in non-invasive surveys can be adversely affected by factors outside the control of SEP. Therefore SEP cannot guarantee that all utilities present on site have been located. It is the responsibility of the Client to consult regional authority records and undertake trial digs where appropriate.

Where similar services run in close proximity it may be impossible to separately trace individual services as the trace signal can experience interference. In such cases, services will be shown as a single, annotated line. The displayed depth will refer to the shallowest detected utility.

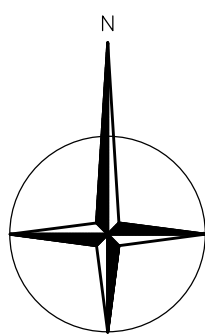
Successful tracing of non-conductive materials may be limited. Drainage gulleys are dye tested where possible to prove connectivity but it is not always possible to introduce the sonde due to narrow pipe sizes and/or accumulated silt.

Depth information of underground services/features are generally accurate to within +/- 10% (i.e. a pipe at 2m deep may be accurate to +/-200mm) but this cannot be guaranteed. Depths shown usually refer to the top of the service. Gravity sewer and drain depths are usually to invert (base of drainage channel) unless otherwise stated.

Some above ground features may have been obscured at time of survey. It is not always possible to operate the Ground Penetrating Radar in areas including, but not limited to, dense vegetation, rubble, debris and/or rough/uneven ground.

Existing record information that was made available to SEP by the Client or by the statutory utility provider should be regarded only as an indication and cannot be guaranteed.

Excavation in the vicinity of services shown should be carried out with due diligence (Ref. HSG47).



PLAN GRID NORTH

File Name: S11982-U.dwg

BT	BUT INSPECTION COVER	CABLE CUTO	DUCT	DUCT
CB	CONTROL BOX	CABLE TV	DUCT	DUCT
CC	CITY CARRIER POST	CCTV	CCTV	CCTV
CC	COMMUNICATIONS COVER	COMMUNICATION CABLE	COM	COM
CD	CITY DISTRIBUTION	CABLE R/D STRIP	CON	CON
CM	ORANGE CHANNEL	ELECTRIC	ELEC	ELEC
CM	DOWN PIPE	FUEL LINE	FL	FL
DR	DRAIN	GPR	GPR	GPR
DIC	DIG INSPECTION COVER	GRASS	GRASS	GRASS
EL	ELECTRIC	WATER	W	W
EL	EARTH ROD	WATER	W	W
EL	ELECTRICITY POLE	SEWER	SW	SW
FN	FINISHED FLOOR LEVEL	SEWER	SW	SW
FN	FIRE	TRAFFIC SIGNAL CABLE	TS	TS
Q	QUART	UNDERTENDED TRACE	UN	UN
Q	GROUND LIGHT	UNDERTENDED CABLE	UN	UN
GSV	GRASS VALVE	UNDERTENDED PIPE	UP	UP
IL	INVERSION COVER	UNDER DETECTION CABLE	UD	UD
IL	INVERT LEVEL	SURVEY BOUNDARY		

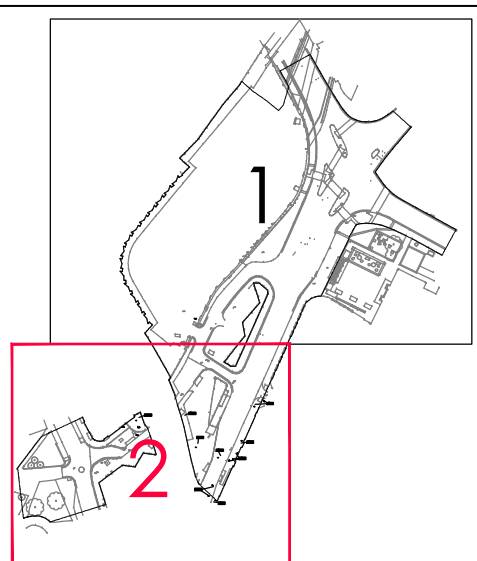
FROM STATUTORY AUTHORITY PLANS

BT	BT	BT
	STAT	STAT
CABLE DUCT	DUCT	DUCT
	STAT	STAT
CATV	CATV	CATV
	STAT	STAT
CCTV	CCTV	CCTV
	STAT	STAT
ELECTRIC	ELEC	ELEC
	STAT	STAT
MAINS WATER	WTR	WTR
	STAT	STAT
SEWER CW	CW	CW
	STAT	STAT
SEWER FW	FW	FW
	STAT	STAT
SEWER SW	SW	SW

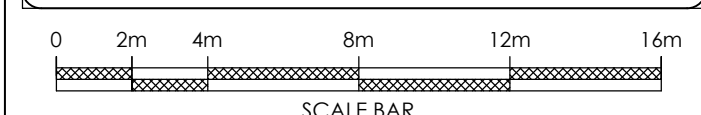
NOTES:

Survey shown as 'From Statutory Authority Plans' line styles are taken from Statutory Records plans supplied by the relevant regional authority. These services were not located and are shown for indicative purposes only.

SURVEY STATIONS			
Name	Easting	Northing	Height
SEP1	384158.191	399048.945	38.017
SEP2	384202.928	399001.455	37.477
SEP4	384130.295	398993.519	36.116
SEP3	384178.123	398973.533	37.801
SEP5	384124.266	398960.875	35.645
SEP6	384110.537	398931.054	34.865
SEP7	384090.187	398845.317	33.408
SEP8	384050.058	398886.730	33.530



SHEET LAYOUT



REV	DATE	DESCRIPTION

SEP (SITE ENGINEERING PERSONNEL) Ltd



SURVEY & ENGINEERING PROJECTS

Client
Arup
6th Floor
3 Piccadilly Place
Manchester
M1 3BN

Project Title
Utility Survey of Land at:
Manchester Victoria Station
Corporation Street
Manchester
M3
Sheet 2 of 2

Surveyed S.Fenna		Drawn B.Brady		Checked S.Fenna		
Scale 1:200	Date Jan 16	Drawing Ref. S11982-U		No. 02	Size A1	Rev --