



NOTES;

Root cutting required to clear Surface Water Sewer
However, height restrictions will prevent access to car park area.
Surface Water Sewer is heavily blocked with silt and root ingress.
Drainage pipework was found to have been laid shallow beneath the car park surface leaving pipework at risk of damage.
Routes of pipework have been assumed where condition has prevented the pipework being surveyed.
MH5 - see photos
Large root masses were removed from chamber and downstream.
Further root masses remain in pipework.
Surface Water assumed to soakaway.

R1

RED CCTV RUN NUMBER
DENOTES MAJOR FAULT

R2

AMBER CCTV RUN NUMBER
DENOTES MINOR FAULT

R3

GREEN CCTV RUN NUMBER
DENOTES NO FAULTS

UTILITY KEY

FOUL WATER SEWER

SURFACE WATER SEWER

COMBINED WATER SEWER

CONTAMINATED SURFACE

SERVICE DUCTS / TRENCH

SCAR

UNIDENTIFIED SERVICE

END OF TRACE

CABLE / PIPE RISER

BACKDROP / TRAPPED EXIT

ABBREVIATIONS

AC	ASBESTOS CEMENT	LP	LAMP POST
AR	ASSUMED ROUTE	MH	MANHOLE
BB	BASE BEND	MW	MONITORING WELL
BD	BACKDROP	OH	OVERHEAD
BH	BOREHOLE	OSA	OFF SURVEY AREA
BR	BRICK	PE	POLYETHYLENE
BT	BT INSPECTION CHAMBER	PL	PLASTIC
CATV	CATV INSPECTION CHAMBER	PR	PIPE RISER
CBX	CONTROL BOX	PVC	POLYVINYL CHLORIDE
CI	CAST IRON	RE	RODDING EYE
CL	COVER LEVEL	RWP	RAIN WATER PIPE
CO	CONCRETE	SIA	SOAKAWAY
CR	CABLE RISER	SPIN	SPIN FROM
CP	CATCHPIT	ST	STOP TAP
d	DEPTH	ST	STEEL
DI	DUCTILE IRON	SV	SURFACE VALVE
DP	DOWN PIPE	SVP	SOIL VENT PIPE
ED	EMPTY DUCT	TE	TRAPPED EXIT
EOSC	END OF TRENCH SCAR	TFR	TAKEN FROM RECORD
EOT	END OF TRACE	TL	TRAFFIC LIGHT
ER	EARTHING ROD	TP	TELEGRAPH POLE
EP	ELECTRICITY POLE	UTCCV	UNABLE TO CCTV
FH	FIRE HYDRANT	UTF	UNABLE TO FIND
FL	FLOOD LIGHT	UTL	UNABLE TO LIFT
G	GULLY	UTS	UNABLE TO SURVEY
GPR	GROUND PENETRATING RADAR	VC	VITRIFIED CLAY
GRP	GLASS REINFORCED PLASTIC	VE	VENT PIPE
GV	GAS VALVE	VR	VAPOUR RECOVERY
HL	HIGH LEVEL	WL	WATER LEVEL
HOR	HEAD OF RUN	WM	WATER METER
IC	INSPECTION CHAMBER	WO	WASH OUT VALVE
IL	INVERT LEVEL		
SW	SURFACE WATER SEWER		
FWS	FOUL WATER SEWER		
CWS	COMBINED WATER SEWER		

DISCLAIMER

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 PARTICULARLY DEPTHS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN SEARCHING AVAILABLE RECORD DRAWINGS, THE COMPLETENESS OF THE UNDERGROUND SERVICES INFORMATION CANNOT BE GUARANTEED. THE METHODS OF SURVEY DOES NOT DIFFERENTIATE BETWEEN LIVE AND DEAD SERVICES AND AS SUCH ALL SERVICES SHOULD BE TREATED AS LIVE.

WHERE SERVICES ARE NON-METALLIC POSITIONS MAY BE TAKEN FROM RECORDS, TRENCH SCARS & SURFACE DETAIL.

WHERE QUOTED, DEPTH ESTIMATIONS ARE GENERALLY TO THE CENTRE OF THE SERVICE. DEPTHS TO GRAVITY SEWERS AND DRAINS ARE GENERALLY TO INVERT LEVELS UNLESS OTHERWISE STATED.

PIPE SIZES WHICH CANNOT BE OBTAINED BY VISUAL SURVEY ARE TAKEN FROM RECORD DRAWINGS OR MARKER PLATES WHERE AVAILABLE.

WHERE GROUND PENETRATING RADAR HAS BEEN USED IT WILL PRIMARILY HAVE BEEN USED TO IDENTIFY UNDERGROUND UTILITIES IF POSSIBLE WE WILL ALSO IDENTIFY UNDERGROUND STRUCTURES/ TANKS ETC. BUT CANNOT GUARENTEE TO HAVE LOCATED ALL SUCH ITEMS. THE USE OF RADAR CAN BE LIMITED BOTH BY SURFACE CONDITIONS AND ALSO BY SOIL TYPE. DEPTH ESTIMATES WOULD NOT NORMALLY BE PROVIDED FOR SERVICES LOCATED WITH GPR.

REV	DATE	COMMENT	CAD
CLIENT			

Formby Surveys Ltd.

PROJECT

Wrexham Magistrates & County Court
Chester Street
Wrexham
Clywd LL13 8XN

TITLE

Underground
CCTV Survey

AMETHYST
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DATE: 21-22/09/16	JOB No: 12055
DRAWING No: 12055 UG_CCTV	REV: 0
DRAWN: AC	SURVEYED: NS
APPROVED: T.P.D	SCALE: 1:200 @A1