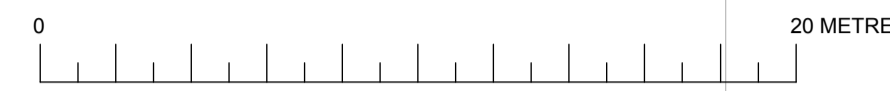
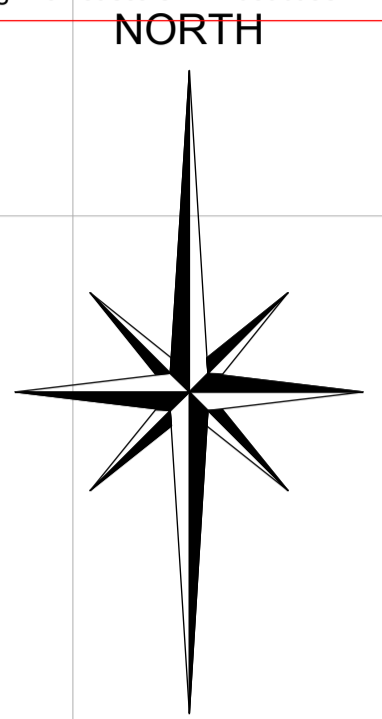
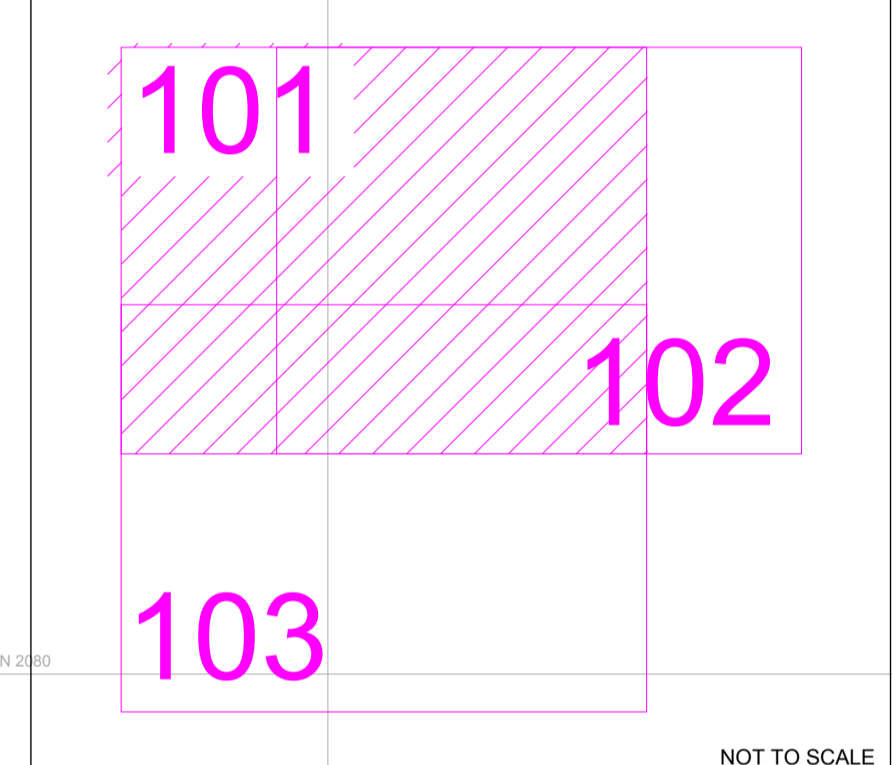


This drawing is the copyright of Alan Brough Associates Ltd and cannot be reproduced in any form without express consent of the company. Written dimensions to be checked on site and discrepancies are to be reported prior to commencing work on site. Figure dimensions only are to be taken from this drawing. Do not scale from a print.



### SHEET LOCATION PLAN



**SERVICES LEGEND**

**AVAILABILITY OF STATUTORY UNDERTAKERS RECORDS DRAWINGS**

TYPE	NO	TYPE	COMMENTS
SEWER	NO	ELECTRICITY	YES
WATER MAIN	YES	DRINKING WATER	NO
CABLE TV	NO	OTHER	NO

**SERVICE LOCATION**

ELECTRODETECTION AND/OR GROUND PROBING RADAR (GPR) TECHNIQUES HAVE BEEN USED TO LOCATE UNDERGROUND SERVICES SHOWN ON THIS PLAN. THESE ARE INTERPRETED BY THE SURVEYOR AND IT IS THEREFORE RECOMMENDED THAT THE ENGINEERING SERVICES ARE VERIFIED BY THE UNDERTAKER PRIOR TO ANY WORK. THE LOCATION OF THESE SERVICES, EITHER RECORDS DRAWINGS SHOULD BE SOUGHT OR AN ALTERNATIVE MEANS OF OBTAINING THE INFORMATION USED.

IT SHOULD BE NOTED THAT CERTAIN TYPES OF SERVICES SUCH AS PLASTIC OR CONCRETE PIPES OR CONDUITS WHERE THERE IS NO DIRECT ACCESS TO THE PIPE, USE OF GROUND PENETRATING RADAR (GPR) IS NOT SUITABLE FOR THE LOCATION OF THESE SERVICES. EITHER RECORDS DRAWINGS SHOULD BE SOUGHT OR AN ALTERNATIVE MEANS OF OBTAINING THE INFORMATION USED.

DEPTH OF SERVICES OBTAINED USING GEOPHYSICAL TECHNIQUES SUCH AS GROUND PROBING RADAR ARE AFFECTED BY GROUND CONDITIONS THEREFORE MUST BE VIEWED AS INDICATIVE ONLY. NUMBERS OF CABLES IN RINGS ARE NOT DETERMINED UNLESS SPECIFICALLY SHOWN. CABLE RINGS ARE ASSUMED TO BE STRAIGHT UNLESS OTHERWISE SHOWN.

DEPTH TO TRACE METALLIC PIPEWORK REFER TO PIPE CENTRE. PIPE RUNS ARE ASSUMED STRAIGHT BETWEEN CHAMBERS UNLESS OTHERWISE INDICATED. ALL SERVICES ARE UNDERGROUND EXCEPT WHERE INDICATED.

PLEASE NOTE THAT TOWER SURVEYS TO DATE ARE NOT PERMITTED TO INVESTIGATE ANY TELECOMMUNICATIONS APPROXIMATELY OVER THE DRAWING SPACES FEATURES. THEREFORE A FULL SET OF TOWER SURVEYS TERMS AND CONDITIONS IS AVAILABLE ON REQUEST. PLEASE REFER TO TOPOGRAPHICAL SURVEY DRAWINGS TOP\_201 TO 203.

INFORMATION SHOWN AS TFR HAS NOT BEEN PROVIDED ON SITE. PLEASE NOTE OUR CAD LAYERING CONVENTION CONTAINS FURTHER INFORMATION. IT IS INTENDED THAT THIS DRAWING BE REPRODUCED IN COLOUR.

**UTILITIES ABBREVIATIONS**

ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION
AR	ASSUMED ROUTE	CPC	CORNER LEVEL	DTS	DEPTH TO SOFFIT
ACP	ASSUMED CONNECTION POINT	CPL	CIRCULAR PLASTIC CHAMBER	EBO	EXTERNAL BACKSCOP
CB	CONCRETE BENCHING	CL	CROWN LEVEL	EOT	END OF TRACE
CBC	CIRCULAR BRICK CHAMBER	DC	DEPTH TO CROWN	FW	FOUL WATER SEWER
COP	CABLE DRAW PIT	DW	DIAMETER	IBO	INTERNAL BACKSCOP
		DT	DEPTH TO BASE	ILT	INVERT LEVEL
		DTI	DEPTH TO INVERT	ILT	INVERT TO SURVEY
				ILT	INVERT TO TRACE
				RC	RECTANGULAR BRICK CHAMBER
				RL	ROOF LEVEL
				RS	SURFACE WATER SEWER
				TR	TAKEN FROM RECORDS
				UTL	UNABLE TO LOCATE
				UTT	UNABLE TO TRACE

**GENERAL**

(NO ALLOWANCE HAS BEEN MADE FOR SUB-SURFACE ENTRY INTO MANHOLES OR OTHER CHAMBERS OR VOIDS BELOW GROUND LEVEL. THEREFORE ANY DETAILS RELATING TO DEPTHS, SIZES ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH WILL BE APPROXIMATE ONLY.)

(THE CONTRACTOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND LEVELS BEFORE WORK STARTS.)

(BURIED SERVICES SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL NORMALLY BE OF UNKNOWN CONDITION. CONTRACTORS SHOULD UNDERTAKE SUITABLE VALIDATION WORK AND TAKE PARTICULAR CARE DURING EXCAVATION WORK. SAFE DIGGING PRACTICES SHOULD BE FOLLOWED.)

(SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS, THEN TOWER SURVEYS SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.)

(IT IS IMPORTANT TO NOTE THAT THE SAME ACCURACIES IMPLIED BY THE PLOTTING SCALE ARE EQUALLY APPLICABLE TO DIGITAL DATA SUPPLIED FOR CAD.)

(EVERY EFFORT IS MADE TO IDENTIFY ALL VISIBLE ABOVE GROUND FEATURES. HOWEVER, IT SHOULD BE BORNE IN MIND THAT THERE MAY BE ITEMS OBSERVED AT THE TIME OF SURVEY. VISIBLE FEATURES IN THE VICINITY OF THE BOUNDARIES, AS SHOWN ON THIS SURVEY, MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.)

**NOTES**

1. SURVEY CONTROL

a) PLAN DATUM:  
THIS SURVEY IS TO AN ARBITRARY PLANE GRID. IT IS ORIENTATED APPROXIMATELY TO NORTH. HORIZONTAL MEASUREMENTS TAKEN FROM THIS SURVEY WILL BE GROUND DISTANCES.

b) VERTICAL DATUM:  
ALL LEVELS IN METRES AND RELATED TO ORDNANCE DATUM LOCAL OSBM.

2. THIS DRAWING IS TO BE READ IN CONNECTION WITH ALL OTHER RELEVANT DRAWINGS/DOCUMENTATION, NAMELY: TOPO 201/202, TOPOGRAPHICAL SURVEY ME-PLANS\_204 - FLOOR PLANS

3. CHECK SCALE BAR AND GRID BEFORE TAKING NON-FIGURED DIMENSIONS FROM THIS DRAWING.

4. IF IN DOUBT ASK

**LEGEND**

- SPOT LEVEL
- SURVEY STATION
- EDGE/AREA OF UNDERGROWTH
- TREE (INDICATIVE ONLY)
- BUILDING
- CANOPY
- RETAINING WALL
- BANKING
- GATE
- FENCE WITH DESCRIPTION

**ABBREVIATIONS**

B	BOLLARD	LP	LAMP POST
BT	BRITISH TELECOM IC	MKR	MARKER POST
CAVY	CABLE TELEVISION IC	MH	MANHOLE
DK	DROP KERB	P	POST
DN	DOWN PIPE	POL	ELECTRIC Pylon
ER	EARTH ROD	RE	RODDING EYE
FRL	FINISHED FLOOR LEVEL	SFR	SIGN POST/BOARD
GH	FIRE HYDRANT	SV	STOP VALVE
G	GULLY	TEL	TELEPHONE POLE
GV	GAS VALVE	TP	THRESHOLD LEVEL
GP	GATE POST	VP	VENT PIPE
IC	INSPECTION COVER		

**TREE SCHEDULE**

No	CIRC.	SPREAD	HEIGHT
TE1	0.8	4	5
TE2	1.0	5	5
TE3	1.5	6	6
TE4	1.5	8	6
TE5	1.0	6	6
TE6	0.7	5	6
TE7	0.6	5	5
TE8	0.6	4	5
TE9	2.0	8	6
TE10	0.8	6	6
TE11	1.0	6	7
TE12	0.7	5	5
TE13	0.7	5	5
TE14	1.5	6	12
TE15	1.0	6	12
TE16	1.5	7	10
TE17	0.7	6	5
TE18	1.0	6	5
TE19	1.5	8	8
TE20	1.2	6	6
TE21	1.0	6	7

**NOTES**

1) MB - MULTI BOLE.

2) TB - TWIN BOLE.

3) Circ - CIRCUMFERENCE MEASURED AT 1.5M ABOVE GROUND LEVEL.

4) Spread - DIAMETER OF CANOPY (SEE NOTE 9).

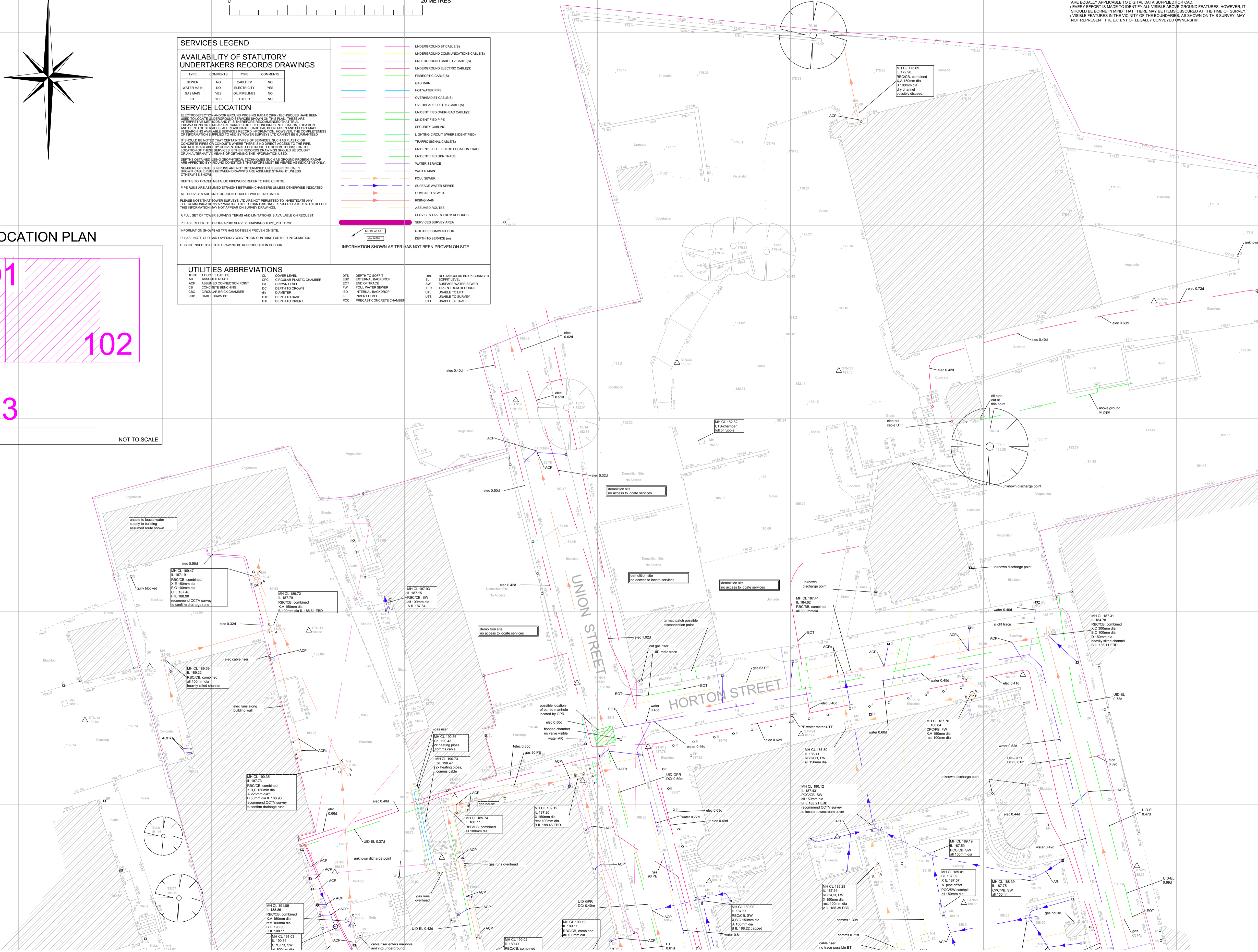
5) Height - APPROX HEIGHT TO TOP OF CANOPY (ESTIMATED FROM GROUND LEVEL).

6) THIS TREE SURVEY HAS BEEN UNDERTAKEN FOR USE WITH NHC STANDARDS CHAPTER 4.2 (AS OF APRIL 1997).

HOWEVER, IT MUST BE NOTED THAT ONLY THOSE TREES WITHIN THE SITE LIMITS HAVE BEEN SURVEYED. UNLESS OTHERWISE SPECIFIED.

7) ATTENTION SHOULD BE PAID TO THE ORIGINAL TOPOGRAPHICAL BRIEF AS TO WHAT TREES HAVE ACTUALLY BEEN SCHEDULED, I.E. THOSE TREES BELOW DIAMETER 'X' ONLY. TREES WITHIN THE HEDGE RM WILL BE DETAILED, UNLESS OTHERWISE SPECIFIED.

8) TREE SPREADS AND BOLES ARE SYMBOLIC ONLY AND ARE REPRESENTATIVE OF THE AVERAGE SPREAD. THIS MAY NOT REPRESENT THE TRUE OUTLINE. NOTE THAT TREE BOLE MAY NOT SIT CENTRALLY TO CANOPY.



REV	DATE	DESCRIPTION	BY	CHK' BY

**SHEET SIZE A1**

**CLIENT**

**DERBY-UNIVERSITY LEAK-COLLEGE**

**PROJECT**

**LEEK CAMPUS**

**DRAWING TITLE**

**BURIED SERVICES SURVEY**

**SHT 1 of 3**

**SURVEY**

**aba consulting**  
Consulting Civil & Structural Engineers

■ 72 Wilson Street, Derby, DE1 1PL  
T: 01332 345 622 F: 01332 292 994  
E: mail@aba-consulting.co.uk

□ 25 Marsh Parade, Newcastle, Staffs, ST5 1BT  
T: 01782 349 400 F: 01782 349 401  
E: info@aba-consulting.co.uk  
W: www.abastruct.com

<b>DRAWN BY</b>	TF	<b>DATE</b>	Mar 2013
<b>CHECKED BY</b>		<b>SCALE</b>	1:200
<b>PROJECT No</b>	12321	<b>DRAWING No</b>	SERV_101
<b>REV</b>			