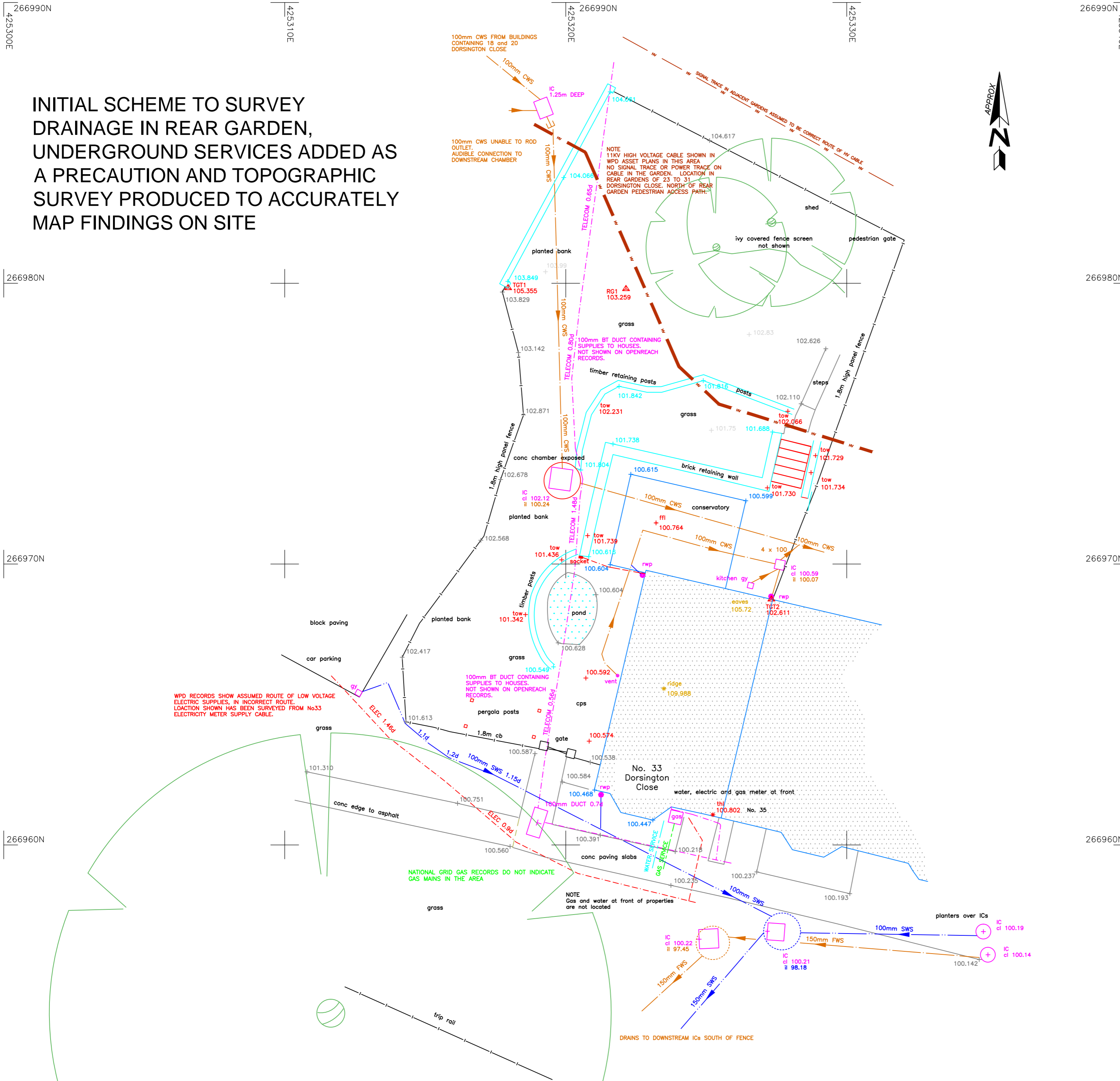


# INITIAL SCHEME TO SURVEY DRAINAGE IN REAR GARDEN, UNDERGROUND SERVICES ADDED AS A PRECAUTION AND TOPOGRAPHIC SURVEY PRODUCED TO ACCURATELY MAP FINDINGS ON SITE



### Topographic Legend

Building (footprint)	Building canopy (overhead) / foundations/ruins	
Kerb / hard surface (levels at channel)	Verge/ change of surface / ditch	
Bank		
clf Fence	bw Barbed wire	ob Open board
cb Closed board	pc Post & chain	cif Chain link
cp Conc. panel	pr Post & rail	pw Post & wire
hr Hand rail	sec Security Fence	ir Iron railings
Armo Safety barrier	Overhead cable	Tree G.n.n =girth
Gate	Bench Mark	level
Hedge	BT IC	TV IC
foliage/tree canopy		bh Borehole

bol Bollard	mp Mile post
bin Litter bin	mt Mercury Telecom IC
bp Block Paving	rnp Road Name plate
bs Bus stop	pm Parking meter
BT British Telecom IC	po Post
cab Cabinet	re Rodding eye
cps Concrete Paving Slabs	rs Road sign (electrical)
ctv Cable Television cover	rwp Rain water pipe
dl Data Logger	sp Sign Post
dp Down Pipe	st Stop tap
ej electric junction box	sv Stop valve
ep Elec. pole	stay Cable stay
f Floodlight	tcb Telephone call box
fm Flow Meter	tl Traffic light
fp Flagpole	tp Telegraph pole
gp Gate post	vp Vent pipe
gully Gully	wm Water meter
gv Gas valve	wo Water outlet
h Hydrant	uti Unable to Lift
ht Height	uts Unable to Survey
ic Inspection Cover	
j Junction box	Level prefix descriptions
ko Kerb outlet	ah Arch level
lb Letter box	bl Bed level
lp Lamp post	cl Cover level
mkr Utility marker	el Eaves level
mb Multi-bale tree trunk	ffi Finished Floor level
	il Invert level
	pl Parapet level
	rl Roof/Ridge level
	sfl Soffit level
	re Rodding eye
	tw Top wall level
	lwl Top water level
	wl Water level

Station	Easting	Northing	Level
RG1	425322.146	266979.800	103.259
RG2	425315.946	266935.485	95.485
TGT1	425317.950	266979.834	105.355
TGT2	425327.321	266968.747	102.611

Contractor should check crucial dimensions on site before commencement of any work.

Please note surveyed boundaries may not represent the extent of legal ownership of the land.

**Grid Orientation and Level Datum:**  
 Coords and levels related to OS Grid (OSGN36) using observations from OS Commercial RTK Network correction service. No scale factor applied.

av air valve	mkr marker
bd back drop	NL not located
bk brick	o/f overflow
BT British Telecom IC	PE polyethylene
cab cabinet	prv pressure reducing valve
cl cover level	re rodming eye
dl down pipe	rs road sign
ej electric junction box	rts rodmed to stop
EOR end of rodding	rwp rain water pipe
EOT end of trace	sc stop cock
ep electric pole	sv stop valve
fl flood light	tp telegraph pole
ffi finished floor level	tv cable tv ic
fh fire hydrant	UTL unable to lift
gs gas syphon	UTS unable to survey
gv gas valve	vp vent pipe
ic inspection chamber	wl water level
il invert level	wm water meter
lh lamp hole	wo washout
lp lamp post	

Services Survey verified with Utility Record Plans  
**CHECK MUST BE MADE BY ANOTHER SURVEYOR**

Utility Type	Company	Checked	Verified
Electricity	WPD	AW	SB
Water			
Drainage			
Gas	NAT GRID	AW	SB
Cable TV	OPENRAECH	AW	SB
Oil Pipelines			
Other			

### Services Survey Key

HV ELECTRIC CABLES	---
LV ELECTRIC CABLES	---
TELEPHONE	---
CABLE TV	---
DATA CABLES	---
GAS MAINS	---
WATER MAINS	---
UNIDENTIFIED	---
FOUL WATER SEWERS	---
COMBINED WATER SEWERS	---
STORM WATER SEWERS	---
RISING MAIN	---
ABANDONED SERVICE	---
OVERHEAD SERVICE	---
OTHER SERVICES	---
END OF TRACE (EOT)	---

**Services Survey Notes**  
 SERVICES DETECTION INCLUDING ELECTROMAGNETIC AND GROUND PROBING RADAR HAVE BEEN USED TO LOCATE UNDERGROUND SERVICES. RGI SURVEYS HAVE SUCCESSFULLY USED THESE METHODS SINCE OUR ESTABLISHMENT IN 1989. IDENTIFICATION OF SERVICES IS ONLY POSSIBLE THROUGH CONFIRMATION WITH RECORD DRAWINGS & WITH SURVEYOR'S EXPERIENCE IN THE FIELD. PLEASE BE AWARE THAT RESULTS ARE NOT FLAWLESS AND WHERE CRITICAL WE ADVISE CONFIRMATION OF SERVICES BY TRIAL EXCAVATIONS.

THE SERVICES SURVEY SHOULD BE READ IN CONJUNCTION WITH UTILITY RECORD DRAWINGS. SINGLE CABLE LINES MAY REPRESENT MULTIPLE CABLES AND DUCTS.

STATUTORY UTILITY RECORDS CAN BE OBTAINED THROUGH LINESEARCH.ORG. ALTHOUGH ALL EFFORTS ARE MADE TO PROVIDE A COMPLETE & COMPREHENSIVE SURVEY AS POSSIBLE, RUGBY GROUND INFORMATION LTD CANNOT GUARANTEE THE COMPLETENESS OF THE SURVEY.

ONLY BT CONTRACTORS ARE ALLOWED TO ACCESS BT COVERS THEREFORE OUR SURVEY FOR BT CABLES MAY BE RESTRICTED. WE ADVISE CONTACTING OPENREACH TO ARRANGE TELECOMS LOCATION BY OPENREACH ENGINEERS PRIOR TO ANY EXCAVATION. ADDITIONAL SERVICES MAY EXIST WITHIN THE SURVEY AREA. DEPTHS TO SERVICES (eg 1.00d) ARE PROVIDED AS A GUIDANCE ONLY AND ARE NOT INFALLIBLE. WHERE CRITICAL WE ADVISE CONFIRMATION BY TRIAL EXCAVATIONS TO DETERMINE LOCATION, DEPTH AND IDENTITY.

DRAINAGE DEPTHS ARE INVERTS FROM COVER LEVEL. DRAINAGE SURVEYS HAVE BEEN CARRIED OUT BY NON-MAN ENTRY MEANS, UNLESS OTHERWISE STATED. PIPE SIZES & DEPTHS ARE AS ACCURATE AS POSSIBLE WHEN SURVEYED FROM THE SURFACE.

WHERE SURVEY INCLUDES SERVICES AND ANOMALIES DETERMINED UTILISING GPR ON A REALTIME BASIS WITH A SINGLE FREQUENCY SYSTEM, PLEASE NOTE GPR RESULTS ARE OPEN TO INTERPRETATION AND DEPENDANT UPON GROUND CONDITIONS. RESULTS ARE TO THE BEST OF OUR ABILITIES.

Services not electronically located are annotated as follows:  
 GPR GROUND PROBING RADAR  
 NL-A NOT LOCATED - plotted in an assumed position  
 NL-I NOT LOCATED - plotted from on site information  
 NL-R NOT LOCATED - taken from records  
 NL-TS NOT LOCATED - plotted from visible trench scars

Rev	Details

Client \_\_\_\_\_

Project Title \_\_\_\_\_  
 Topographic Survey  
 Location and Mapping of Underground  
 Services and Drainage  
 Domestic Dwelling

drawing no. \_\_\_\_\_ date \_\_\_\_\_

surveyed \_\_\_\_\_ drawn \_\_\_\_\_ chkd \_\_\_\_\_ scale \_\_\_\_\_ plot \_\_\_\_\_

SURVEYS • TOPOGRAPHIC • UTILITIES • BUILDING

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