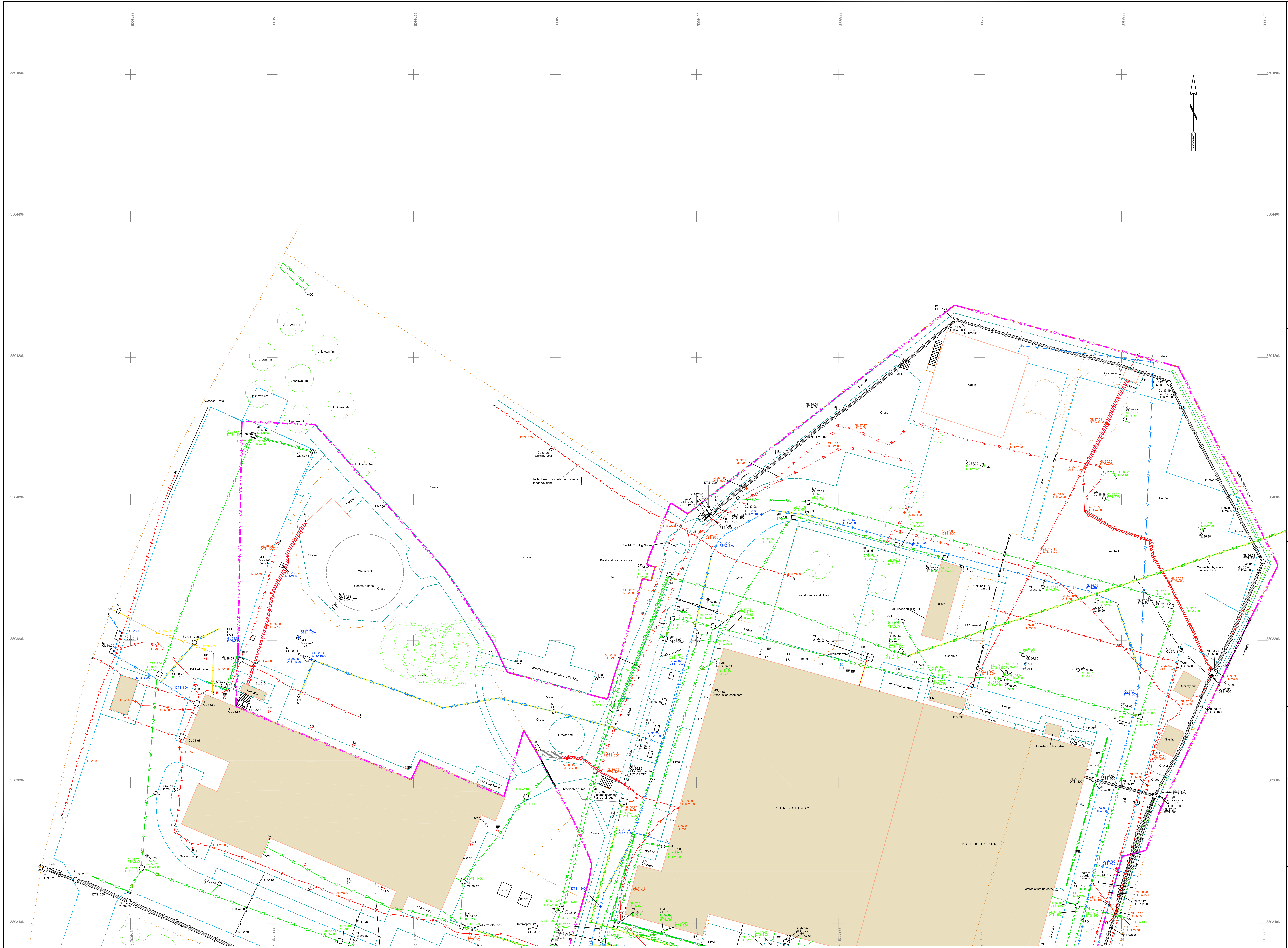


LEGEND

UTILITY LINETYPES

British Telecom	—BT—	Gas	—G—
Cable Television	——	Heating Pipes	—HP—
Closed Circuit Television	——	HV Cables	—HV—
Communications	—C—	Multiple Services Route	——
Drainage	—DR—	Oil	—OIL—
Drainage - Combined Water	—CW—	Oxygen	——
Drainage - Foul Water	—FW—	Street Lighting	—SL—
Drainage - Storm Water	—SW—	Traffic Signal Loop	—TSL—
Empty Duct	—ED—	Unknown	—U—
Electric	—E—	Underground Cable	—UC—
Fire Hydrant Main	—FH—	Underground Pipeline	—UPL—
Fibre Optic	—FO—	Water	—W—
Fuel	——	High Voltage Cables	—HV—

Assumed Service Route - See Utility Survey Notes (Using abbreviation of service and colour as above) ——ASR——XXX——

UTILITY SURVEY INFORMATION

Area of Concern	—AOC—	Unable to Survey	UTS
Contracted Survey Area	SVY AREA	Unable to Lift (cover)	UTL
Depth to Top of Service (mm)	DTS=400	Unable to Trace	U
End of Trace	E	Unable to Trace (due to blockage)	B
Previous Survey Area	PREVIOUS	Unable to Trace Further	F

UTILITY SURVEY REFERENCE NOTES

Standard Note - Refer to the corresponding number located at the base of the page	S#
General Note - Refer to the corresponding number located at the base of the page	N#

TOPOGRAPHIC & UTILITY DETAILS

Barrier (symbol - sized)	▬	Post (symbol)	○PO
Belisha Beacon (symbol)	●	Rain Water Pipe (symbol)	RWP
Bollard (symbol)	•B	Road Sign (symbol)	○RS
Borehole (symbol)	⊕	Rodding Eye (symbol)	◇RE
British Telecoms IC	□BTMH	Sapling (symbol)	S
Building (incomplete detail)	▨	Sign Post (symbol)	○SP
		Soak Away	SA
Cable into Ground (symbol)	⊗	Spot Light (symbol)	SL
Cable TV Box (symbol)	CTV	Spot Height	50.00+
CCTV Camera	▣	Stop Cock (symbol)	SC
Cover Level in metres	CL 50.00	Stop Valve (symbol)	SV
Direction of Flow (Drainage)	>	Survey Station (symbol)	+
Distribution Board (symbol)	□DB	Telephone Pole (symbol)	TP
Earth Rod (symbol)	○ER	Telephone Box (symbol)	☎
Electric Cabinet	□EC	Traffic Bollard (symbol)	▣
Electric Pole (symbol)	EP		
Electric Sign (symbol)	◉	Tree (dimensions in metres - e.g.)	○
Embankment	Bottom Top	Diameter at 1mh: (bole) Height: Spread: Species:	Dia: 0.3 Sp: 7.5 Ht: 10.2 Maple
Feeder Pillar	□FP		
Fire Hydrant	□FH		
Flag Pole (symbol)	FP	Traffic Light (symbol)	◎
Flat Roof Level in metres	FRL 50.00	Unknown Valve (symbol)	UV
Flood Light (symbol)	FL	Vent Pipe (symbol)	VP
Gas Valve (symbol)	GV	Wall	▭
Gate	Single Double	Waste Pipe (symbol)	WP
		Water Meter (symbol)	WM
		Water Valve (symbol)	WV
Ground Level in metres	GL 50.00		
Gulley	□GU	Building Canopy	— — —
Inspection Cover	□IC	Crash Barrier	— - - —
Invert Level in metres	IL 50.00	Drainage Channel	—DC—
Junction Box - BT	□JB BT	Drop Kerb (level in metres)	50.00
Junction Box - Comms	□JB COM	Edge Detail (level in metres)	50.00
Junction Box - Elec	□JB	Footpath (level in metres)	50.00
Lamp Post (symbol - sized)	LP	Fence	—/—
Light Bollard (symbol)	•LB	Heras Fence	—HERAS—
Light in ground (symbol)	◎	Kerb channel (level in metres)	50.00
Manhole	□MH	Kerb top (level in metres)	50.00
Manhole Capped Port	]○	Overhead Service Line	—OHS—
Parapet Level in metres	PL 50.00	Pedestrian Railing	—//—
Pipe Diameter in millimetres	⌀100		

GENERAL NOTES

Utilities may continue outside of the survey area. Any paint marks outside of the area are for investigative purposes only and may not represent the full extent of the sub-surface utilities.

Only sub-surface utility information is provided. Above ground utility information may be shown where it assists with positional referencing.

Where logic indicates a utility exists but which cannot be positively confirmed with the technology, an assumed route (ASR) is recorded.

SUMO does not procure statutory or private source utility information as part of its detection service nor does it record any such information in a utility survey unless otherwise noted. Statutory plans should be consulted to supplement this survey.

Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the utility/feature and is recorded as DTS (depth to top of service) and should not be taken as exact. Where depth information from the technology is unclear, depth is not shown. Drains may have been detected using threading and the depth indicated could be between the top and the bottom of the drain. Horizontal position is indicative to the centre of the utility/feature and should not be taken as exact.

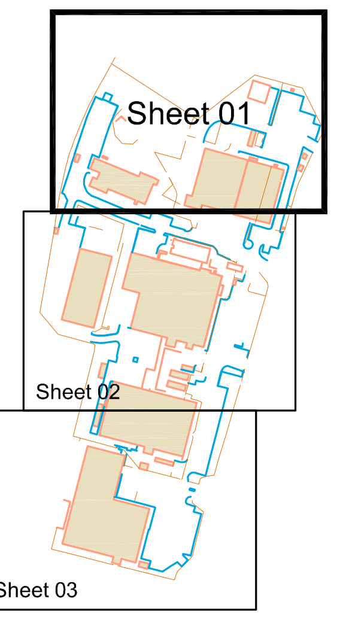
Warranty - Biodegradable paints are used to mark-out the position of the utilities. Before long paint markings may become illegible depending on ground, weather and traffic conditions. No warranty is given in respect of the durability of the paint markings and that they are a complete representation of the sub-surface utilities therefore this drawing should be used as the primary reference for the survey results.

This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive technologies only and the performance can be adversely affected by ground, weather and site conditions outside of SUMO's control therefore some utilities may be undetectable. While SUMO uses reasonable endeavours to detect all utilities it does not warrant that 100% detection will be achieved and that approximate depth penetration of the technologies will be greater than two metres.

Sewer and manhole details shown on this drawing have been obtained by observation and measurement from the surface and as such cannot be guaranteed. Where precise sewer details will be critical to the project design Sumo would recommend that entry into the chamber be undertaken using a specialist team, appropriately qualified for confined space entry. These teams can be supplied on request.

Irrespective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE Guidelines - HSG47 Avoiding Danger from Underground Services

SHEET LAYOUT



Rev	Notes	Drawn	Date

Notes:

Survey is referenced to OS Grid and Level Datum.

The following previous Sumo Surveys have been incorporated into this model:

0102/07/07
0738/09/07
SOR003307
SOR003576

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Title:
Utilities & Topographical Details

Client:
IPSEN Biopharm Ltd

Project:
IPSEN Areas 1 - 4

Date Completed:	15 October 2012	Post Code:	LL13 9UF
Surveyed:	KHH	Scale:	1/250 (A1 Sheet)
Drawn:	PC, KHH		
Checked:	RS, MG		
Dwg No:	Sheet 01	Job No:	Rev:
		SOR004054	

S1. ROUGH GROUND. The given ground conditions do not allow for the use of Ground Penetrating Radar (GPR). Non-metallic services including, but not limited to, plastic gas and water, clay pipes and fibre optic cables in plastic ducts may be present but not detected.

S2. CONCRETE CONTAINING REINFORCING BAR. Ground Penetrating Radar (GPR) results are reduced because reinforcing bar acts as a barrier limiting GPR penetration. Non-metallic services including, but not limited to, plastic gas and water, clay pipes and fibre optic cables in plastic ducts may be present but not detected.

S3. LONG GRASS did not allow the antenna of the Ground Penetrating Radar to lay flat to the ground and produce legible sub-surfaces images. Non-metallic services including, but not limited to, plastic gas and water, clay pipes and fibre optic cables in plastic ducts may be present but not detected.

S4. AREA OF CONCERN (AOC). High levels of electrical disturbance did not allow for the positioning of individual services.

S5. DENSE VEGETATION restricted access for the equipment & surveyor. This area has not been surveyed.

S6. STATIONARY VEHICLE(S) restricted access to area. This area has not been surveyed.

S7. CONSTRUCTION MATERIALS present at the time of the survey. This area has not been surveyed.

N1.

ASR Utilities Important Note :

Assumed Service Routes (ASR) are assumed for information only - the indicated position should not be relied upon.

All Assumed Service Routes (ASR) have been 'highlighted' with a background yellow colour for visual enhancement.

Metres 10 0 10 20 30 40 50 60 Metres

Scale 1:250 (A1 Sheet)