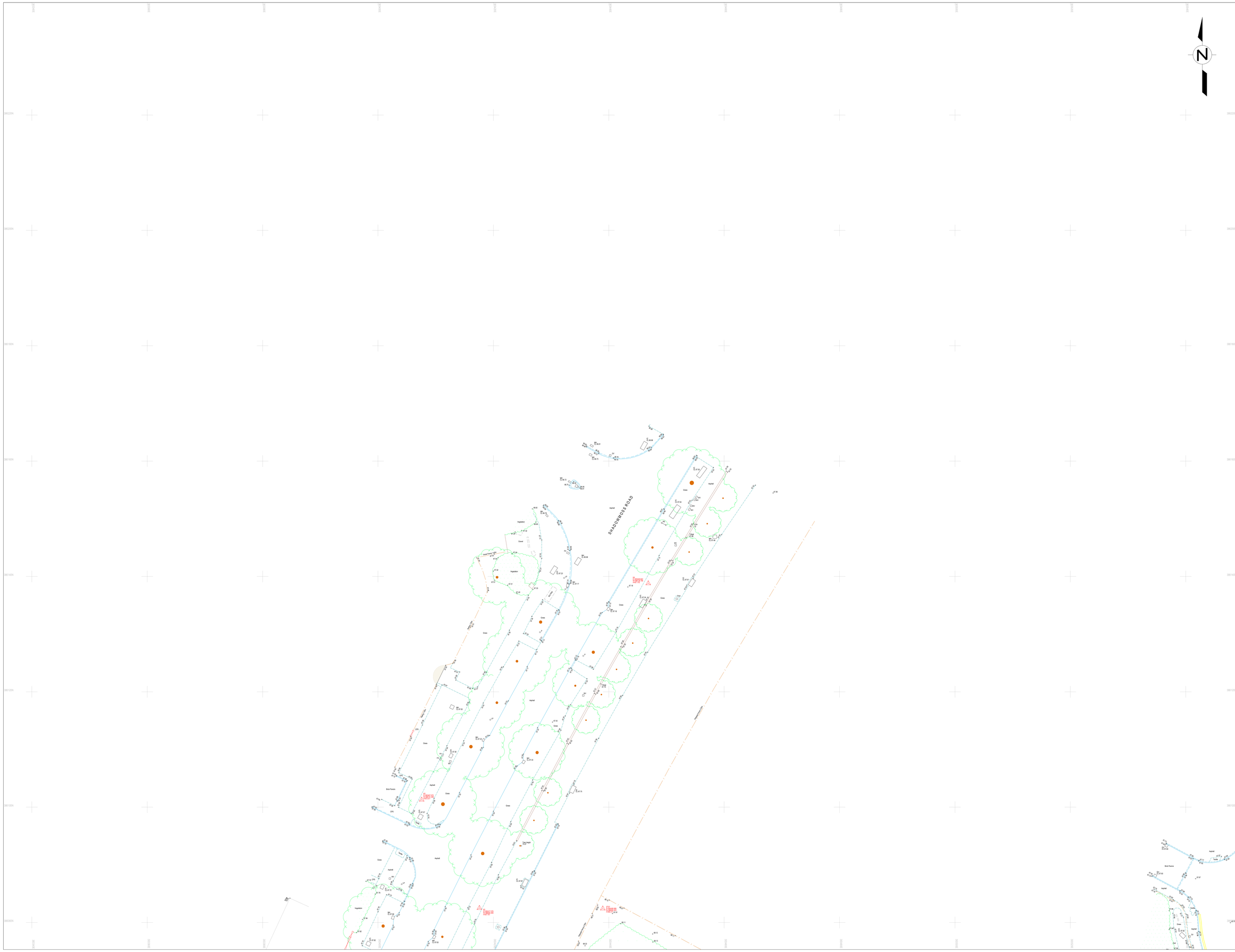


UTILITY LEGEND

BT, CCTV, CR, CW, FW, SW, EX, E, FO, FW, FUEL, Assumed Route Service highlighted yellow (Example BT)

Gas Pipe, Unknown GPR Target, Possible Service (PAS only), Overhead Cable, High Voltage Cable, Buried Service Route, Oil Pipeline, Street Lighting, Traffic Controls, Unknown Service, Unknown Cable, Unknown Pipeline, Water Main

Combined Survey Area, Previous Survey Area, GPR (PAS) Extension Area, Depth to Top of Service, Approximate Depth to Top of Service, No Depth Attainable, Invert Level (Drainage), Polyethylene Pipe Material, Unable to Lift (Cover)

UTS, UTT, UVT, WL, ND, ?, ?, PE, UTL

Unable to Survey, Unable to Trace (Services), Unable to Visually Inspect (Within Cover), Water Level (Within Cover), Unable to Trace (Due to Blockage), Unable to Trace Further, End of Trace, Unable to Trace, Unable to Trace (Capped Port)

Anomalous Ground, Unable to Survey

PAS128 SURVEYS

(S-SU-B2P) - S-SU4 = Depth in metres, SU = Quality Level, P = Post processed GPR

Key to Quality Levels	
Quality Level	Definition
D	Undefined (Data, desktop records search)
B4	Suspected to exist, not detected by GPR or EML
B3	Horizontal position located by one technique only
B2	Horizontal and vertical position located by one technique only
B1	Horizontal and vertical position located by multiple techniques
A	Horizontal and vertical position verified visually of the service

ABBREVIATIONS

ACU	Air Conditioning Unit	FL	Flood Light	SIG	Service in Ground
BB	Bedina Beacon	GV	Gas Valve	SP	Sign Post
B	Bollard	GU	Gully	SC	Stop Cock
BH	Borehole	IC	Inspection Chamber	SV	Stuice Valve
CAB	Cabinet	LB	Lighting Bollard	TP	Telegraph Pole
CL	Cover Level	LP	Lamp Post	TL	Traffic Light
CPS	Concrete Paving Slabs	LIG	Light in Ground	TM	Ticket Machine
CTV	Cable Television	MH	Manhole Cover	VP	Vent Pipe
EVCP	Charging Point	MKR	Marker Post	UV	Unknown Valve
DP	Down Pipe	PB	Post Box	WP	Waste Pipe
EP	Electric Pole	PM	Phone Mast	WM	Water Meter
ER	Earth Rod	P	Post	WV	Water Valve
FFL	Finished Floor Level	RE	Rodding Eye		
FP	Feeder Pillar	RS	Road Sign		
FH	Fire Hydrant	RWP	Rain Water Pipe		

TOPOGRAPHIC LEGEND

Building, Bank Bottom, Bank Top, Canopy, Concrete, Cover with Chamber Extents, Crash Barrier, Drainage Channel, Drop Kerb, Edge Detail, Embankment Slope, Fence, Heras Fence, Kerb Channel, Kerb Top, Levels, Overhead Service, Tree, Wall

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A	Title blocks amended.	WM	11/08/26

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TEL:0845 456 1104

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Title:

2D Topographic Survey

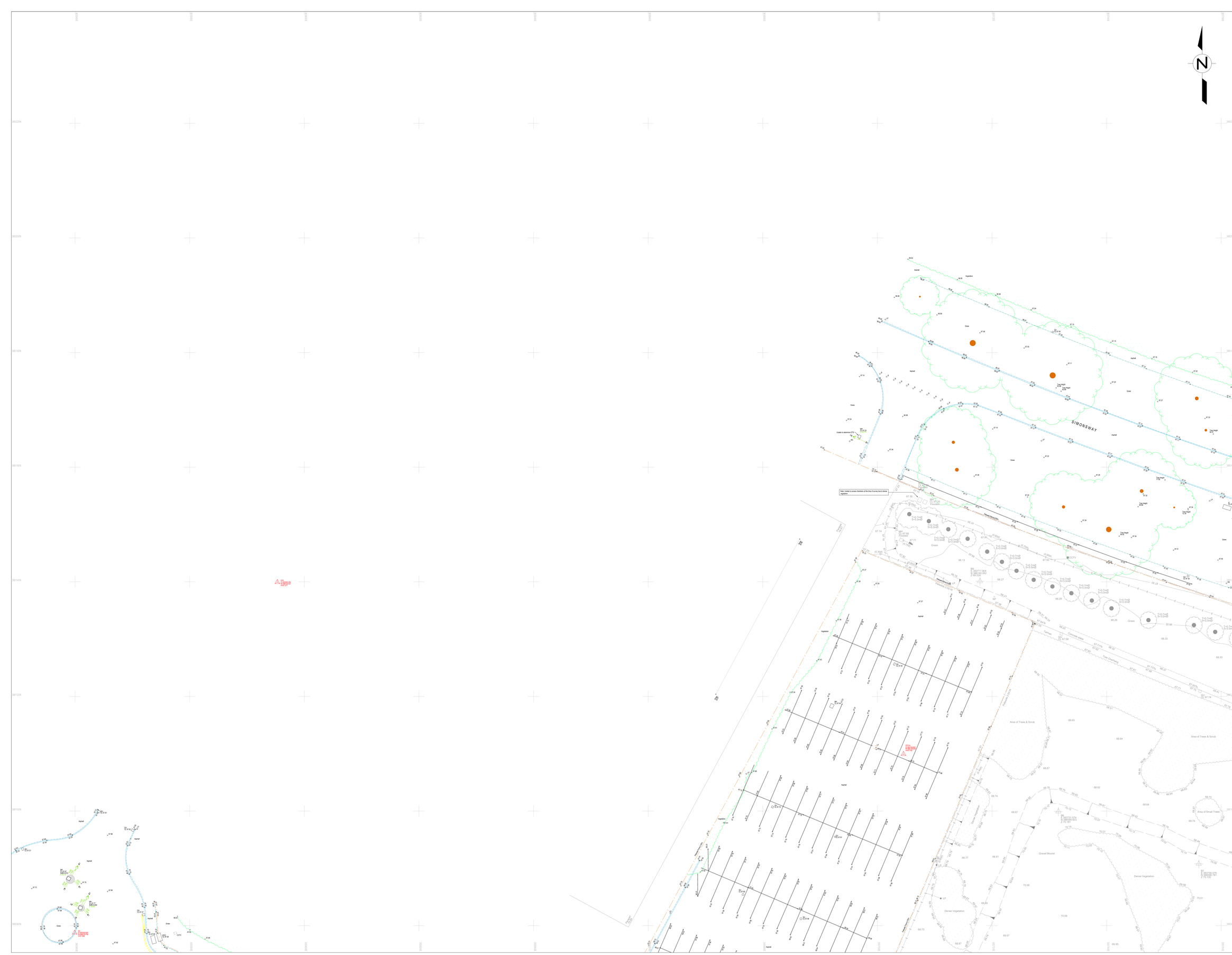
Client:

Hale Architecture Ltd

Project:

Atlas Business Park Area, Atlas Park, Wythenshawe

Date:	23/07/26	Postcode:	M22 5PR
Surveyed:	KHH/KW	Scale:	1:200 (A0 Sheet)
Drawn:	WM		
Checked:	KHH/KW		
Job No:		Sheet:	Rev:
SUMO-28484-2 & 29308		01	A



UTILITY LEGEND

NON-STANDARD LEGEND

BT	British Telecom	GAS	Gas Pipe
CATV	Cable Television	GPR	Unknown GPR Target
CCTV	Closed Circuit Television	GPP	Possible Service (PAS only)
UD	Underdefined	HP	Telecom Cable
DR	Unidentified Drainage	HV	High Voltage Cable
CW	Combined Water	MS	Multiple Service Route
FW	Foul Water	OL	Oil Pipeline
SW	Storm Water	SL	Street Lighting
ER	Earth	TC	Traffic Controls
E	Electric Cable	U	Unknown Service
ED	Empty Duct	UC	Unknown Cable
FO	Fibre Optic	UP	Unknown Pipeline
FW	Fire Hydrant Main	WM	Water Main
FUEL	Fuel Pipeline		

Assumed Route Service highlighted yellow (Example BT)

AREA	Customer Survey Area	UTS	Unable to Survey
AREA	Previously Surveyed Area	UTT	Unable to Trace (Service)
AREA	GPR PAS Extension Area	UVI	Unable to Visually Inspect (Within Cover)
(0.600)	Depths to Top of Service	WL	Water Level (Within Cover)
(>0.600)	Approximate Depth to Top of Service	UTD	Unable to Trace (Due to Blockage)
(NDA)	No Depth Attainable	UTF	Unable to Trace Further
IL 72.00	Invert Level (Drainage)	EOT	End of Trace
PE	Polyethylene Pipe Material	UTT	Unable to Trace
UTL	Unable to Lift (Cover)	UTC	Unable to Trace (Capped Port)

PAS128 SURVEYS

(0.854 BZP) 0.854 = Depth in metres, BZ = Quality Level, P = Pixel processed GPR

Key to Quality Levels
Quality Level
D
B4
B3
B2
B1
A

Definition
Undefined (Data, desktop records search)
Suspected to exist, not detected by GPR or EML
Horizontal position located by one technique only
Horizontal and vertical position located by one technique only
Horizontal and vertical position located by multiple techniques
Horizontal and vertical position verified visually of the service

ABBREVIATIONS

ACU	Air Conditioning Unit	FL	Fixed Light	SIG	Service in Ground
BB	Bolsha Beacon	GV	Gas Valve	SP	Sign Post
B	Bollard	GU	Gully	SC	Stop Cock
BH	Borehole	IC	Inspection Chamber	SV	Scota Valve
CAB	Cabinet	LB	Lighting Bollard	TP	Telegraph Pole
CL	Cover Level	LP	Lamp Post	TL	Traffic Light
CPS	Concrete Paving Slabs	LIG	Light in Ground	TM	Ticket Machine
CTV	Cable Television	MH	Manhole Cover	VP	Vent Pipe
EVCP	Charging Point	MKR	Marker Post	UV	Unknown Valve
DP	Down Pipe	PB	Post Box	WP	Waste Pipe
EP	Electric Pole	PM	Phone Mast	WM	Water Meter
ER	Earth Rod	PC	Post	WV	Water Valve
FFL	Finished Floor Level	RE	Rodding Eye		
FP	Feeder Pillar	RS	Road Sign		
FH	Fire Hydrant	RWP	Rain Water Pipe		

TOPOGRAPHIC LEGEND

Building, Bank Bottom, Bank Top, Canopy, Concrete, Cover with Chamber Extents, Crash Barrier, Drainage Channel, Drop Kerb, Edge Detail, Embankment Slope, Fence, Heras Fence, Kerb Channel, Kerb Top, Levels, Overhead Service, Tree, Wall

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Sheet 04	Sheet 05	Sheet 06

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TEL:0845 456 1104

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Title:

2D Topographic Survey

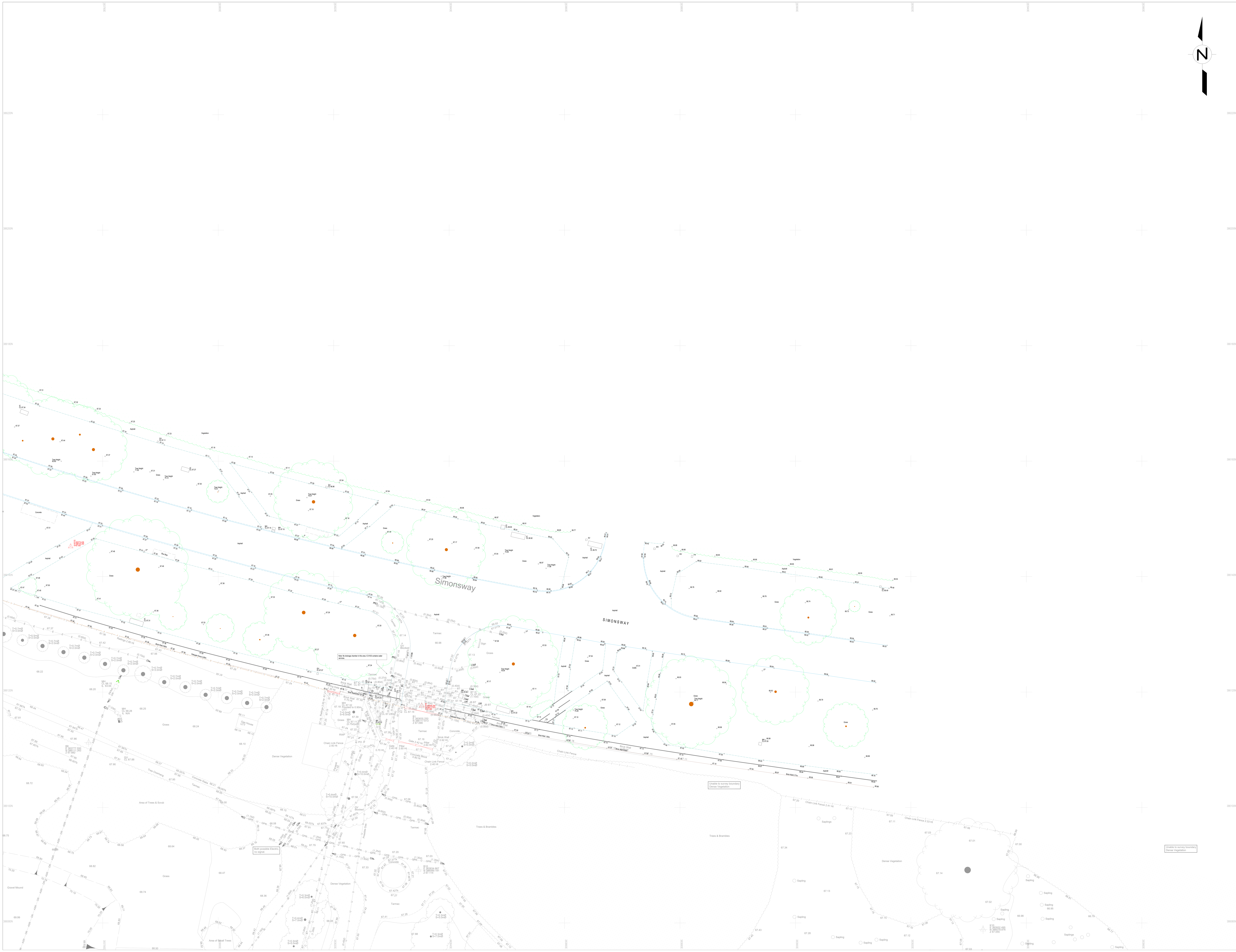
Client:

Hale Architecture Ltd

Project:

Atlas Business Park Area, Atlas Park, Wythenshawe

Date:	23/07/26	Postcode:	M22 5PR
Surveyed:	KHH/KW	Scale:	1:200 (A0 Sheet)
Drawn:	WM		
Checked:	KHH/KW		
Job No:	SUMO-28484-2 & 29308	Sheet:	02
		Rev:	A



UTILITY LEGEND

BT	British Telecom	G	Gas Pipe
CATV	Cable Television	GPR	Unknown GPR Target
CCTV	Closed Circuit Television	GPR	Possible Service (PAS only)
C	Unidentified Telecoms	HP	Heating Pipes
DR	Unidentified Drainage	HV	High Voltage Cable
CW	Combined Water	MS	Multiple Service Route
FW	Foul Water	O	Oil Pipeline
SW	Storm Water	SL	Street Lighting
ER	Earth	TC	Traffic Controls
E	Electric Cable	U	Unknown Service
ED	Empty Duct	UC	Unknown Cable
FO	Fibre Optic	UP	Unknown Pipeline
FM	Fire Hydrant Main	W	Water Main
FUEL	Fuel Pipeline		

Assumed Route Service highlighted yellow (Example BT)

AREA	Contracted Survey Area	UTS	Unable to Survey
AREA	Previous Survey Area	UTT	Unable to Trace (Service)
AREA	GPR Data Collection Area	UVI	Unable to Visually Inspect (Within Cover)
(0.60d)	Depth to Top of Service	WL	Water Level (Within Cover)
(~0.60d)	Approximate Depth to Top of Service	B	Unable to Trace (Due to Blockage)
(NDA)	No Depth Attainable	F	Unable to Trace Further
IL 10.00	Invert Level (Drainage)	E	End of Trace
PE	Polyethylene Pipe Material	U	Unable to Trace
UTL	Unable to Lift (Cover)	C	Unable to Trace (Capped Port)

Anomalous Ground — Unable to Survey

NOT COMMISSIONED

PAS128 SURVEYS

(0.65d B2P) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

Key to Quality Levels

Quality Level	Definition
D	Undefined (Stats, desktop records search)
B4	Suspected to exist, not detected by GPR or EML
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ABBREVIATIONS

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BB	Belisha Beacon	GV	Gas Valve	SP	Sign Post
B	Bollard	GU	Gully	SC	Stop Cock
BH	Borehole	IC	Inspection Chamber	SV	Sluice Valve
CAB	Cabinet	LB	Lighting Bollard	TP	Telegraph Pole
CL	Cover Level	LP	Lamp Post	TL	Traffic Light
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FP	Feeder Pillar	RS	Road Sign		
FH	Fire Hydrant	RWP	Rain Water Pipe		

TOPOGRAPHIC LEGEND

Building	Embankment Slope (Bottom / Top)
Bank Bottom	Fence
Bank Top	Heras Fence (HF)
Canopy	Kerb Channel
Concrete	Kerb Top
Cover with Chamber Extents	Levels (+ 10.00)
Crash Barrier	Overhead Service
Drainage Channel	Tree
Drop Kerb	Wall
Edge Detail	

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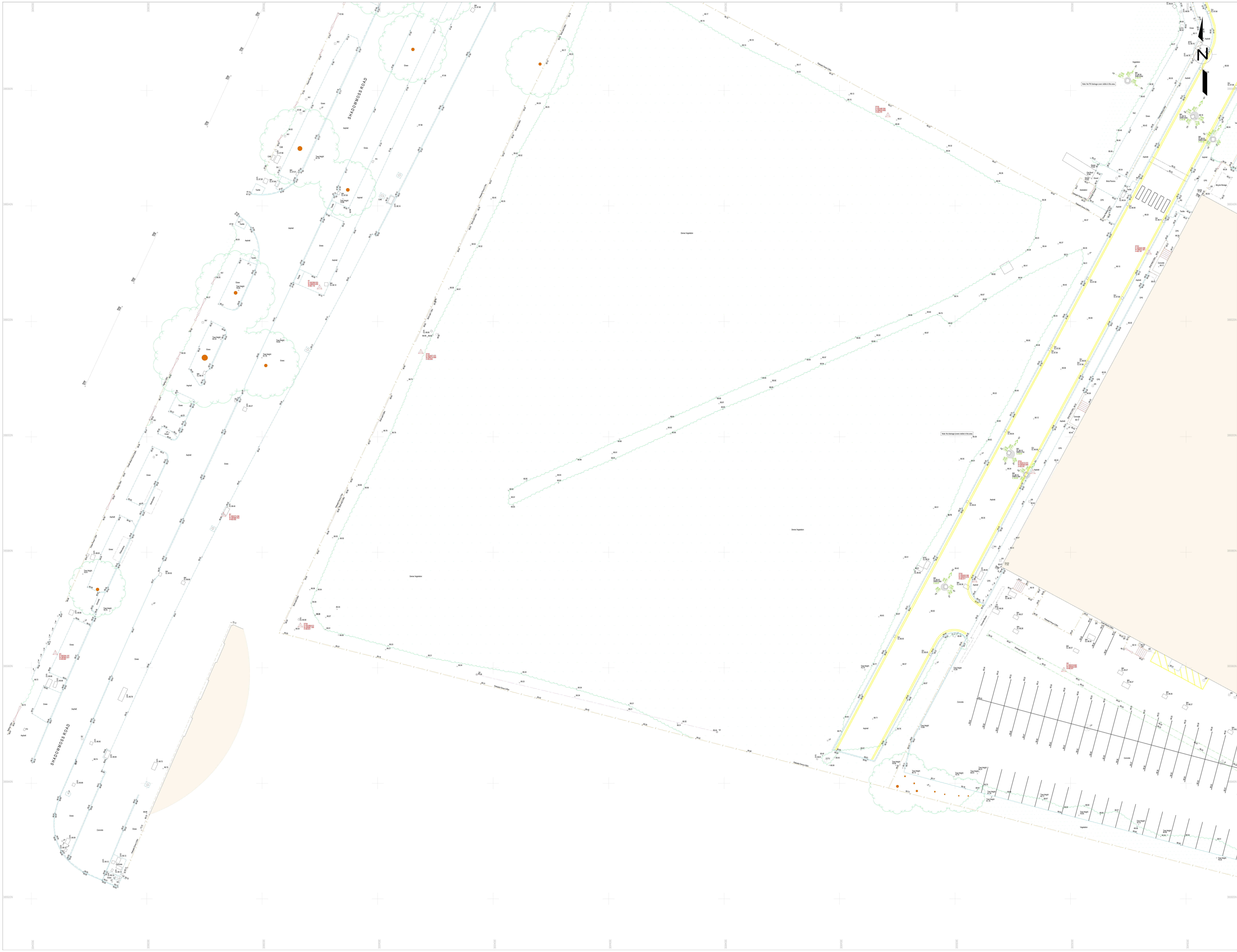
www.sumoservices.com

Title: 2D Topographic Survey

Client: Hale Architecture Ltd

Project: Atlas Business Park Area, Atlas Park, Wythenshawe

Date:	23/07/26	Postcode:	M22 5PR
Surveyed:	KHH/KW	Scale:	1:200 (A0 Sheet)
Drawn:	WM		
Checked:	KHH/KW		
Job No:	SUMO-28484-2 & 29308	Sheet: 03	Rev: A



UTILITY LEGEND

Code	Service	Code	Service
BT	British Telecom	G	Gas Pipe
CATV	Cable Television	GPR	Unknown GPR Target
CCTV	Closed Circuit Television	GPR	Possible Service (PAS only)
C	Unidentified Telecoms	HP	Heating Pipes
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CW	Combined Water	MS	Multiple Service Route
FW	Foul Water	O	Oil Pipeline
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Assumed Route Service highlighted yellow (Example BT)

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(NDA)	No Depth Attainable	F	Unable to Trace Further
IL 10.00	Invert Level (Drainage)	E	End of Trace
PE	Polyethylene Pipe Material	U	Unable to Trace
UTL	Unable to Lift (Cover)	CP	Unable to Trace (Capped Port)

Anomalous Ground — Unable to Survey

PAS128 SURVEYS

(0.65d B2P) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

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TOPOGRAPHIC LEGEND

Building — Embankment Slope (Bottom / Top)
Bank Bottom — Fence
Bank Top — Heras Fence (/HF/)
Canopy — Kerb Channel
Concrete — Kerb Top
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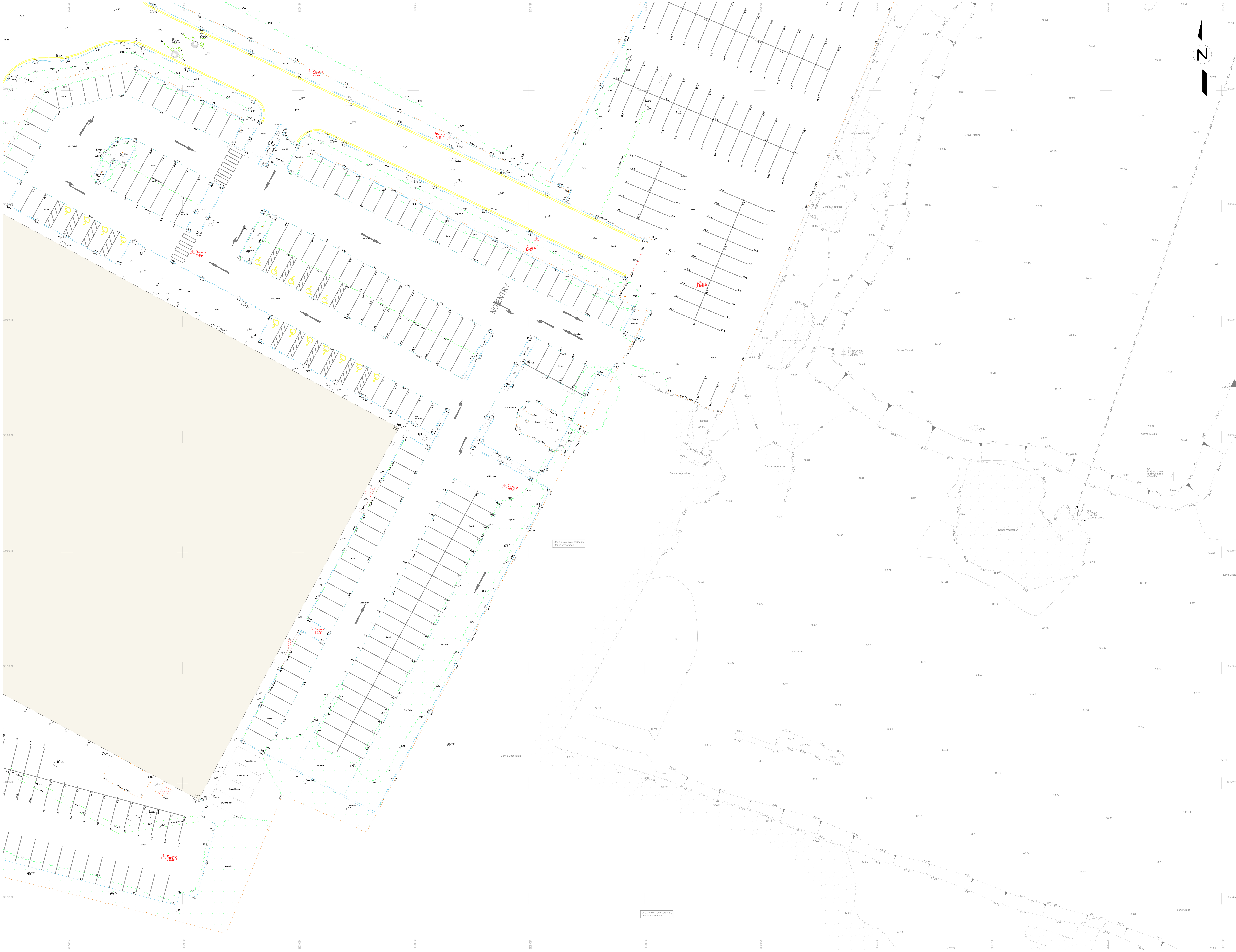
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Drawn:	WM		
Checked:	KHH/KW		
Job No:	SUMO-28484-2 & 29308	Sheet: 04	Rev: A



UTILITY LEGEND

BT	British Telecom	G	Gas Pipe
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CCTV	Closed Circuit Television	GPR	Possible Service (PAS only)
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Assumed Route Service highlighted yellow (Example BT) — BT

NOT COMMISSIONED

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PAS128 SURVEYS

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Title:

2D Topographic Survey

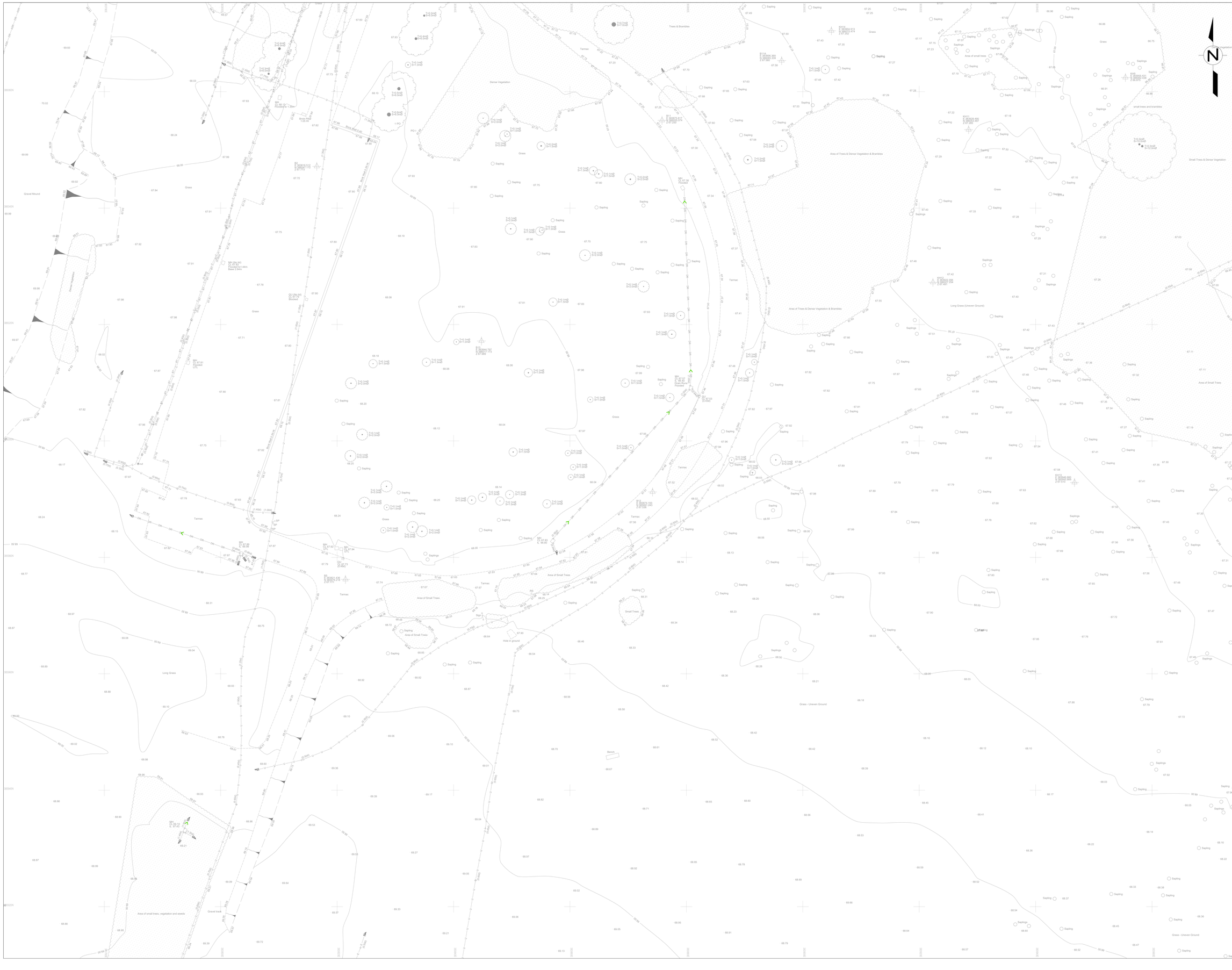
Client:

Hale Architecture Ltd

Project:

Atlas Business Park Area, Atlas Park, Wythenshawe

Date:	23/07/26	Postcode:	M22 5PR
Surveyed:	KHH/KW	Scale: 1:200 (A0 Sheet)	
Drawn:	WM		
Checked:	KHH/KW		
Job No: SUMO-28484-2 & 29308		Sheet: 05	Rev: A



UTILITY LEGEND

BT	British Telecom	GP	Gas Pipe
CATV	Cable Television	UGP	Unknown GPR Target
CCTV	Closed Circuit Television	PSP	Possible Service (PAS only)
UD	Unidentified Duct	HP	High Pressure Gas
OS	Unidentified Service	HV	High Voltage Cable
CW	Combined Water	WS	Buffered Service Route
FW	Foul Water	OP	Oil Pipeline
SW	Storm Water	RI	Street Lighting
EK	Earth	TC	Traffic Controls
E	Electric Cable	US	Unknown Service
ED	Empty Duct	UC	Unknown Cable
FO	Fibre Optic	UP	Unknown Pipeline
FH	Fire Hydrant Main	WM	Water Main
FUEL	Fuel Pipeline		

Assumed Route Service highlighted yellow (Example BT)

AREA	Contained Survey Area	UTS	Unable to Survey
AREA	Previous Survey Area	UTT	Unable to Trace (Services)
AREA	GPR Data Collection Area	UVT	Unable to Visually Inspect (Within Cover)
(0.60d)	Water Level At Top of Service	WL	Water Level (Within Cover)
(+0.65d)	Approximate Depth to Top of Service	UD	Unable to Trace (Due to Blockage)
(NDA)	No Depth Available	UL	Unable to Trace Further
4.70.00	Invert Level (Drainage)	EOT	End of Trace
PE	Polyethylene Pipe Material	UT	Unable to Trace
UTL	Unable to Lift (Cover)	UC	Unable to Trace (Capped Port)

Anomalous Ground — Unable to Survey

NON-SURVEY LEGEND

PAS128 SURVEYS

(0.65d 82P) - 0.65d = Depth in metres, 82 = Quality Level, P = Pixel processed GPR

Key to Quality Levels	
Quality Level	Definition
D	Undefined (Data, desktop records search)
B4	Suspected to exist, not detected by GPR or EML
B3	Horizontal position located by one technique only
B2	Horizontal and vertical position located by one technique only
B1	Horizontal and vertical position located by multiple techniques
A	Horizontal and vertical position verified by trial excavation

ABBREVIATIONS

ACU	Air Conditioning Unit	FL	Fixed Light	SIG	Service in Ground
BB	Bolitho Beacon	GV	Gas Valve	SP	Sign Post
B	Bollard	GU	Gully	SC	Stop Cock
BH	Borehole	IC	Inspection Chamber	SV	Stuice Valve
CAB	Cabinet	LB	Lighting Bollard	TP	Telegraph Pole
CL	Cover Level	LP	Lamp Post	TL	Traffic Light
CPS	Concrete Paving Slabs	LIG	Light in Ground	TM	Ticket Machine
CTV	Cable Television	MH	Manhole Cover	VP	Vent Pipe
EVCP	Charging Point	MKR	Marker Post	UV	Unknown Valve
DP	Down Pipe	PB	Post Box	WP	Waste Pipe
EP	Electric Pole	PM	Phone Mast	WM	Water Meter
ER	Earth Rod	PI	Post	WV	Water Valve
FFL	Finished Floor Level	RE	Rodding Eye		
FP	Feeder Pillar	RS	Road Sign		
FH	Fire Hydrant	RWP	Rain Water Pipe		

TOPOGRAPHIC LEGEND

Building	Embankment Slope	
Bank Bottom	Fence	
Bank Top	Heras Fence	ARP
Canopy	Kerb Channel	
Concrete	Kerb Top	
Cover with Chamber Extents	Levels	+ 10.00
Crash Barrier	Overhead Service	
Drainage Channel	Tree	
Drop Kerb	Wall	
Edge Detail		

GENERAL NOTES

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

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.

Where logic indicates a utility exists but which cannot be positively confirmed with the technology, an assumed route (ASR) is recorded. All assumed service routes (ASR) have been highlighted with a background yellow colour for visual enhancement.

GPR is utilised across the site in all accessible areas where ground conditions, obstructions allow. Areas of dense vegetation, unclear areas, marsh land, steep banks etc. will not be covered by GPR.

Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the utility/feature and should not be taken as exact, as this could be the surround to the service rather than the service itself. Where depth information from the technology is unclear, depth is not shown.

Warranty

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 SUMO uses will not be greater than two metres.

Sheet Layout

Sheet 01	Sheet 02	Sheet 03
Sheet 04	Sheet 05	Sheet 06

Rev	Notes	Drawn	Date
Notes:	Survey is referenced to OS Grid and Level Datum. Previous Sumo Survey SOR018000 has been inserted into this model for reference.		
A	Drainage notes and partial info added.	WM	11/08/26
A	Title blocks amended.	WM	11/08/26

SUMO Services Ltd
8 Hayward Business Centre
New Lane
Havant
Hampshire
PO9 2NL

TEL:0845 456 1104

www.sumoservices.com

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SUMO-28484-2 & 29308	06	A