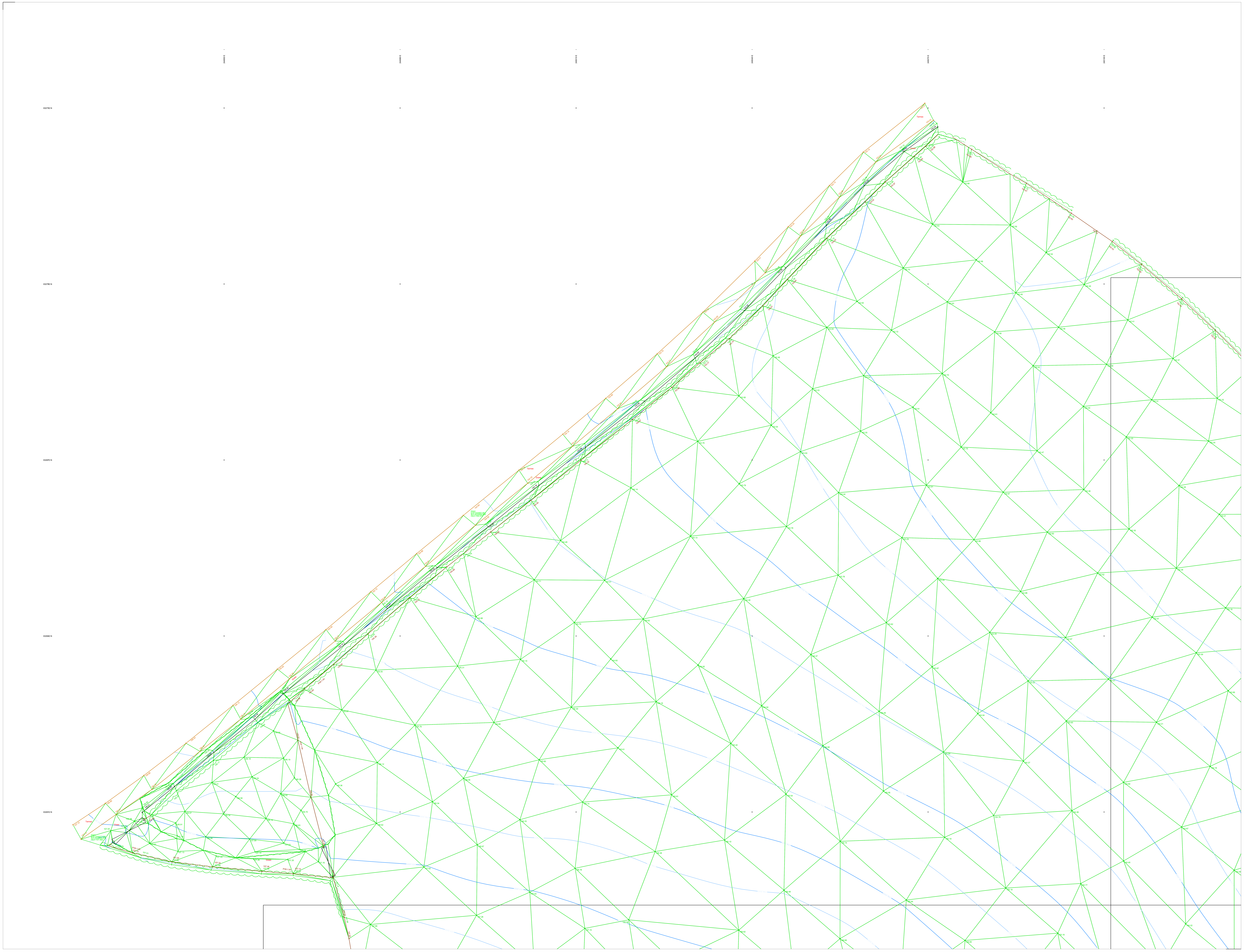

Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions. Any suspect or fluid ground, contaminates on or within the ground, should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions/contaminants, drainage, design & planning/density negotiations. Sketch proposals may be based upon enlargements of OS sheets & visual estimations of existing site features, accuracy will therefore need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND, BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

This survey has been carried out using a combination of observation and detection using electrolocation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable, method of locating buried services. ***On Heavy, built up sites 85% completeness is probably all that can be expected.*** *Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level.* ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.*** *Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	GIS	GAS INLET POINT	RWP	RAN WATER PIPE
AV	AIR VALVE	GP	GUIDE POST	Sap	SAPLING
A/R	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BB	BELISH BEACON	Grl	GRILLE COVER	Shlt	SHELTER
BdL	BED LEVEL	GV	GAS VALVE COVER	SI	SPUN IRON
BH	BOREHOLE	Hrl	HAND RAIL	SL	SOFFIT LEVEL
Bol	BOLLARD	IC	INSPECTION COVER	Slt	SILT LEVEL
BP	BOUNDARY POST	IL	INVERT LEVEL	SMP	SETTLEMENT MONITORING Pnt
B Pvg	BLOCK PAVING	I/R	IRON RAILING FENCE	SP	SIGN POST
BRck	BICYCLE RACK	KO	KERB OUTLET	SPt	SAMPLING POINT
BS	BUS STOP	Lby	LIFEBUOY	SS	STRUCTURE POINT
BT	BRITISH TELECOM COVER	Lck	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
BW	BRICK WALL	Ldr	LADDER	Stl	STILE
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gpr)	STL	STRUCTURE TOP LEVEL
CAP	CABLE WINDING MACHINE	LOS	LOSS OF SIGNAL (eml)	Stone Pvg	STONE PAVING SLABS
Cat	CATENARY LEVEL	LP	LAMP POST	STP	STAND PIPE
CATV	CABLE TV COVER	Mcy	MACHINERY	StPO	STAY POST
CB	CONTROL BOX	MH	MANHOLE	Stu	STUMP
C/B	CLOSE BOARDED FENCE	MgP	MOORING POST	StW	STAYWIRE
CD	CHAMBER DEPTH	Mkr	MARKER POST	SV	STOP VALVE
Cgd	CATTLE GRID	MP	MILE POST	SW	STONE WALL
CI	CAST IRON	MS	MILESTONE	Tac	TACTILE PAVING
CIP	CABLE INLET POINT	MU	ELECTRIC MOTOR	TBM	TEMPORARY BENCH MARK
CL	COVER LEVEL	NVP	NO VISIBLE PIPE	TBol	BOLLARD (Dept' Transport)
C/L	CHAIN LINK FENCE	NP	NAME PLATE	TCB	TELEPHONE CALL BOX
Col	COLUMN	OSA	OUTSIDE SURVEY AREA	TCP	TELEPHONE CALL POST
Conc	CONCRETE	OSBM	OS BENCH MARK	TEL	TELECOM COVER
Conc Pvg	CONCRETE PAVING	OGC	OVERGROUND CONDUIT	ThL	THRESHOLD LEVEL
CP	CATCHPIT	OHca	OVERHEAD CABLE Unidentified	TL	TRAFFIC SIGNAL POST
CpL	COPING LEVEL	OHC	OVERHEAD CONDUIT	TM	TICKET MACHINE
Cpsn	CAPSTAN	OHE	OVERHEAD ELECTRIC	ToV	TOP OF VALVE LEVEL
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
Cul	CULVERT	OHStruct	OVERHEAD STRUCTURE	Tpt	TRIAL PIT
CW	CONCRETE WALL	OHT	OVERHEAD TELECOMS	Tr	TROUGH
DI	DUCTILE IRON	P	POST	UTA	UNABLE TO ACCESS
(dilap)	DILAPIDATED	PB	POST BOX	UTL	UNABLE TO LOCATE
(dis)	DISUSED	PC	SECURITY CAMERA	UTR	UNABLE TO RAISE
DPC	DAMP PROOF COURSE	Pcg	PEDESTRIAN CROSSING	UTS	UNABLE TO SURVEY
DS	DIRECTION SIGN	PD	PIT DEPTH	UTT	UNABLE TO TRACE (utilities)
DSW	DRYSTONE WALL	P/F	PANEL FENCE	VC	VITRIFIED CLAY
EIC	ELECTRICITY COVER	PP	PETROL PUMP	VDP	VEHICLE DETECTION PAD
EL	EAVES LEVEL	P/R	POST & RAIL FENCE	VP	VENT PIPE
EOT	END OF TRACE (utility)	Psk	PENSTOCK	VW	VALVE WHEEL
EP	ELECTRICITY POLE	PV	VERTICAL PIPE	WB	WEIGH BRIDGE
ER	EARTH ROD	Pyl	PYLON	WL	WATER LEVEL
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WG	WATER GAUGE
ESW	ELECTRICITY SWITCH BOX	RE	RODDING EYE	WM	WATER METER
FB	FOOTBRIDGE	RG	RAIN GAUGE	W/M	WIRE MESH FENCE
FL	FLOOR LEVEL	RL	RIDGE LEVEL	WO	WASHOUT COVER
FFL	FINISHED FLOOR LEVEL	RMP	RESRVOIR MONITORING Pnt	WS	WIND SOCK POLE
Flgt	FLOOR LIGHT	RP	REFLECTOR POST	WSR	WATER LEVEL SENSOR
FH	FIRE HYDRANT	RS	ROAD SIGN		
FS	FLAG STAFF	RSP	RAILWAY SIGNAL POST		
G	GULLY	RW	RETAINING WALL		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM	HW	HOT WATER
BT(r)	TAKEN FROM RECORDS	HW(r)	TAKEN FROM RECORDS
CTV	CATV CABLE	O/F	OPTIC FIBRE
CTV(r)	TAKEN FROM RECORDS	O/F(r)	TAKEN FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
CTV(r)	TAKEN FROM RECORDS	OIL(r)	TAKEN FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
CW(r)	TAKEN FROM RECORDS	SW	SURFACE WATER
DUC	EMPTY DUCT	SW(r)	TAKEN FROM RECORDS
DUC(r)	TAKEN FROM RECORDS	T	TELECOMMUNICATION CABLE
EA	EARTHING FEATURE	T(r)	TAKEN FROM RECORDS
EA(r)	TAKEN FROM RECORDS	TLM	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
E(r)	TAKEN FROM RECORDS	TRA(r)	TAKEN FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
FL(r)	TAKEN FROM RECORDS	UK(r)	TAKEN FROM RECORDS
FW	FOUL WATER	VNT	VENT
FW(r)	TAKEN FROM RECORDS	VNT(r)	TAKEN FROM RECORDS
GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION: QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS SHOWN AS AN ASSUMED ROUTE.
QL-B3/p: HORIZONTAL ±500MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B2/p: HORIZONTAL ±250MM/±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1/p: HORIZONTAL ±150MM/±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES.

SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

MAKING COMPLEX EASY
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Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

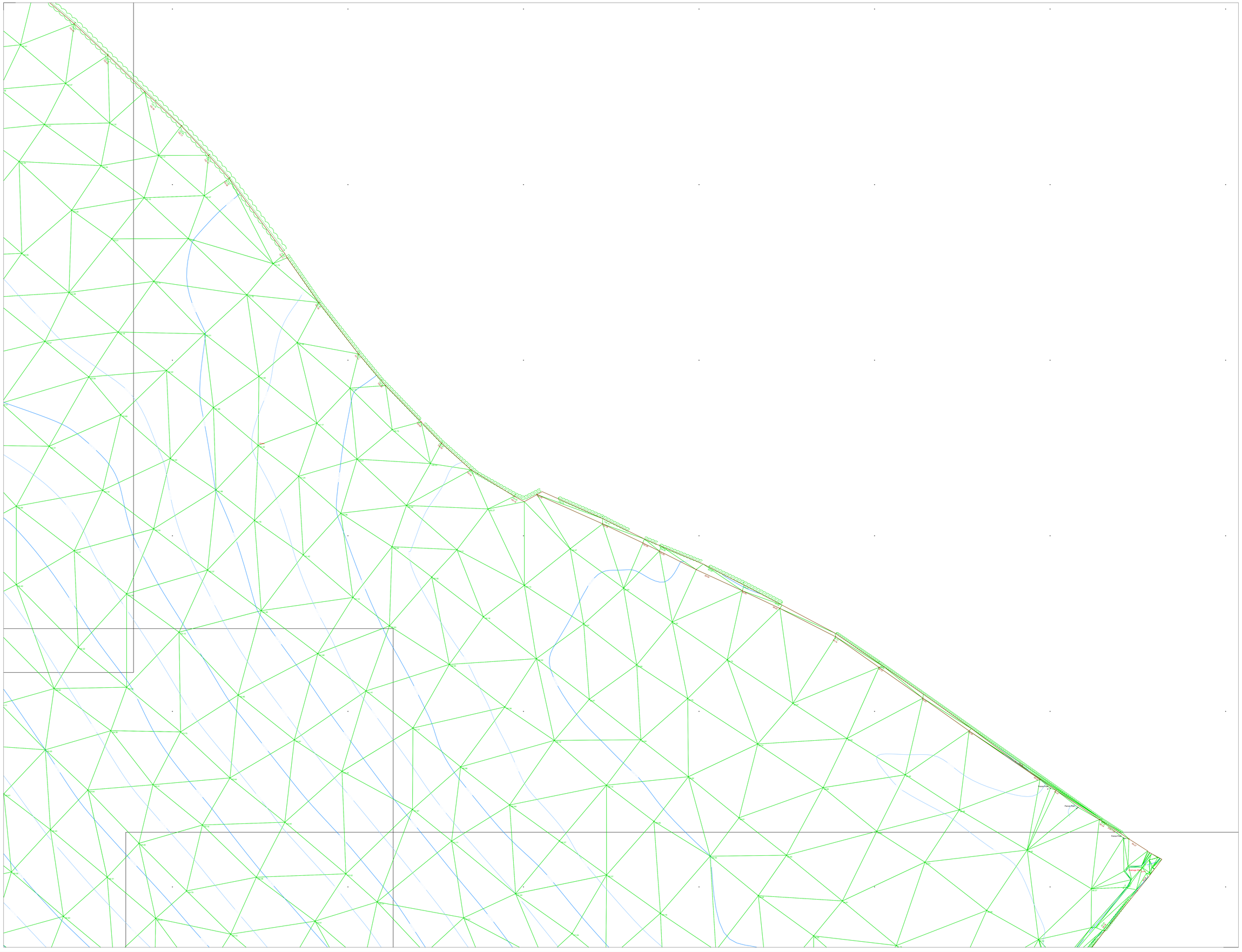
CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 1 of 9

MAKING COMPLEX EASY



Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at the commencement of work, and RPS must be notified of any variation to the drawings. All Statutory Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Any reference to existing trees and their root protection areas/root zones should be further investigated by the Contractor. A suitable method of foundation should be provided allowing for existing trees and their root protection areas/root zones. Any underground services shown should be further investigated by a suitable expert. Any earthwork constructions known indicate typical shapes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, health and condition by a competent Arboriculturist. Adequate protection should be provided to prevent harm from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation and detailed design. Information provided by others is to be verified by survey. Sketch proposals may be based upon enlargements of OS sheets & visual estimations. All existing site measurements, levels & positions need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

The utility services have been located using a combination of observation and detection using electromagnetic and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

*"Electronic tracing is a reliable method of locating buried services. **On Heavy, built up sites 80% successful tracing is the best that can be achieved.** On other sites, 90% or more may be achieved but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Information provided by others should be treated with caution and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	GDS	GAS INLET POINT	RWP	RAIN WATER PIPE
AC	ACCESS	GP	GUIDE POST	Sig	SIGN POST
AR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	RAIN BOARD
BCP	BICYCLE PULLON	GR	GRATE (DRAIN)	SBX	SIGN BOX
BL	BELLARD	GV	Gate Valve COVER	SCB	SPUN BOA
BM	BOREHOLE	HH	HAND HOLE	SL	SLOPE LEVEL
BO	BOLLARD	HC	HOUSE CONNECTION COVER	SP	SOIL PIPE
BP	BUSH POINT	HR	HORSE RAIL	SMP	BENCHMARK MONITORING PN
BS	BUSH SHRUBS	IL	INVERT LEVEL	SP	SOIL POINT
BRa	BICYCLE RACK	KO	KERB OUTLET	SPL	SAMPLING POINT
BT	BOLLARD TOP	LC	LIGHT COVER	SS	SOIL SAMPLE POINT
BT	BRITISH TELECOM COVER	LG	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
BWP	BUS WAIT POINT	LP	LAMP POST	STL	STEEL
BWR	BARRED WIRE FENCE	LOR	LOSS OF REFLECTION (gpr)	STL	STRUCTURE TOP LEVEL
CAB	CABINET / CONTROLPNE	LT	LIGHT TRAFFIC SIGN	STP	STOP POINT / PLAIN
CL	CATENARY LEVEL	LP	LAMP POST	STR	STAND PIPE
CPTV	CABLE TV COVER	Mcy	MACHINERY	SWD	STAY POST
CB	CLOSE BOARD FENCE	MH	MANHOLE	TB	TIMBER
CB	CLOSE BOARDED FENCE	MHP	MOORING POST	TH	STATHAME
CC	CAT CAGE	MP	MILE POST	TP	TELEGRAPH POLE
CgP	CATTLE GRID	MP	MILE POST	SW	STONE WALL
CP	CABLE POST	MP	MOORING POST	TRP	TRAFFIC PROBE
CP	CABLE PILLOT POINT	MLL	ELECTRIC MOTOR	TMM	TEMPORARY BENCH MARK
CL	CATENARY LEVEL	MP	MILE POST	TCB	TELEPHONE CABINET
CL	CHAIN LINK FENCE	MT	MAKE TILLET	TCB	TELEPHONE CABINET
CO	CLEAR OUT	NBA	NOT BEING PROBED IN AREA	TCP	TELEPHONE CALL POST
Conc	CONCRETE	OBM	OS BENCH MARK	TCL	TELEGRAM COVER
Conc Pvg	CONCRETE PAVING	OGC	OVERGROUND CONDUIT	TNL	THRESHOLD LEVEL
CP	CAT PROTECTION	OHC	OVERHEAD CONDUCTOR	TP	TELEGRAPH POLE
CL	CUTBAG LEVEL	OHC	OVERHEAD CONDUIT	TM	TOILET MOUTHE
CR	CRANE	OHC	OVERHEAD CONDUIT	TP	TELEGRAPH POLE
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CLOTHES WIRE	OHP	OVERHEAD PIPELINE	TR	TRAP
CW	CONCRETE WALL	OHT	OVERHEAD TELECOMS	TV	TRENCH
Dh	DISTILLE BEDN	P	POST	UTA	UNABLE TO ACCESS
DP	DRAIN POINT	PC	PEDESTRIAN CROSSING	UTA	UNABLE TO ACCESS
DR	DRAINS	PC	PEDESTRIAN CROSSING	UTB	UNABLE TO RAISE
DS	DIRECTION SIGN	PD	PIT DEPTH	UTT	UNABLE TO TRACE LARMAG
DS	DIRECTION SIGN	PD	PIT DEPTH	UTT	UNABLE TO TRACE
EC	ELECTRICITY COVER	PH	PETROL PUMP	VDP	VEHICLE DETECTION PNT
EC	ELECTRIC COVER	PH	PETROL PUMP	VP	VENT PIPE
EOT	END OF TRACE (utility)	PHe	PENSTICKE	VW	VALVE WHEEL
EP	EARTHING POLE	PL	PLANTING SITE	WB	WATER BOARD
EP	EARTHING POLE	Py	PYLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
ESP	ELECTRICITY SUPPLY BOX	RG	RAIN GAUGE	WM	WATER METER
F	FOOTBRIDGE	RG	RAIN GAUGE	WM	WIRE MESH FENCE
FL	FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WP	WATER POINT
FL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FH	FIRE HYDRANT	RS	ROAD SIGN	WGR	WATER LEVEL WINDOW
FH	FIRE HYDRANT	RS	ROAD SIGN		
FT	FLAG STAFF	SSD	RAILWAY SIGNAL POST		
GA	GATE	SSD	SIGNAL POST		

SURVEY EXTENTS	D=1.00m 1:500		DEPTH INFORMATION
BRITISH TELECOM		HP	HOT WATER
TRACE FROM RECORDS		TRACE FROM RECORDS	
CATV CABLE		OF	OPTIC FIBRE
TRACE FROM RECORDS		TRACE FROM RECORDS	
CCTV CABLE		OL	OIL PIPELINE
TRACE FROM RECORDS		TRACE FROM RECORDS	
COMBINED WATER		PWR	POWER FEATURE
TRACE FROM RECORDS		TRACE FROM RECORDS	
EMPTY DUCT		SW	SURFACE WATER
TRACE FROM RECORDS		TRACE FROM RECORDS	
EARTHING FEATURE		T	TELECOMMUNICATION CABLE
TRACE FROM RECORDS		TRACE FROM RECORDS	
ELECTRIC CABLE		TLM	TELEMETRY CABLE
TRACE FROM RECORDS		TRACE FROM RECORDS	
FUEL LINE		TRA	TRAFFIC SIGNALS
TRACE FROM RECORDS		TRACE FROM RECORDS	
FOUL WATER		UK	UNKNOWN SERVICE
TRACE FROM RECORDS		TRACE FROM RECORDS	
GAS		VENT	VENT
TRACE FROM RECORDS		TRACE FROM RECORDS	
GPR FEATURE		W	WATER
TRACE FROM RECORDS		TRACE FROM RECORDS	
HELIUM FEATURE		XV	HV ELECTRIC
TRACE FROM RECORDS		TRACE FROM RECORDS	
		REFERENCE TO GPR DATA IS REPORT	REFERENCE TO GPR DATA IS REPORT

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE PIPE
DETECTION: QL-B4:	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN PROVED TO EXISTS AS SHOWN AS AN ASSUMED ROUTE
QL-B3a: HORIZONTAL ±500MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE
QL-B2a: HORIZONTAL ±250MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY
QL-B1a: HORIZONTAL ±150MM±10% VERTICAL ±10%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE: QL-C:	--
DESKTOP: QL-D	--

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:
Local Grid
by GPS Observations
to the OS Active
Network (OSTN15)

Datum:
Ordnance Datum
by GPS Observations
to the OS Active
Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

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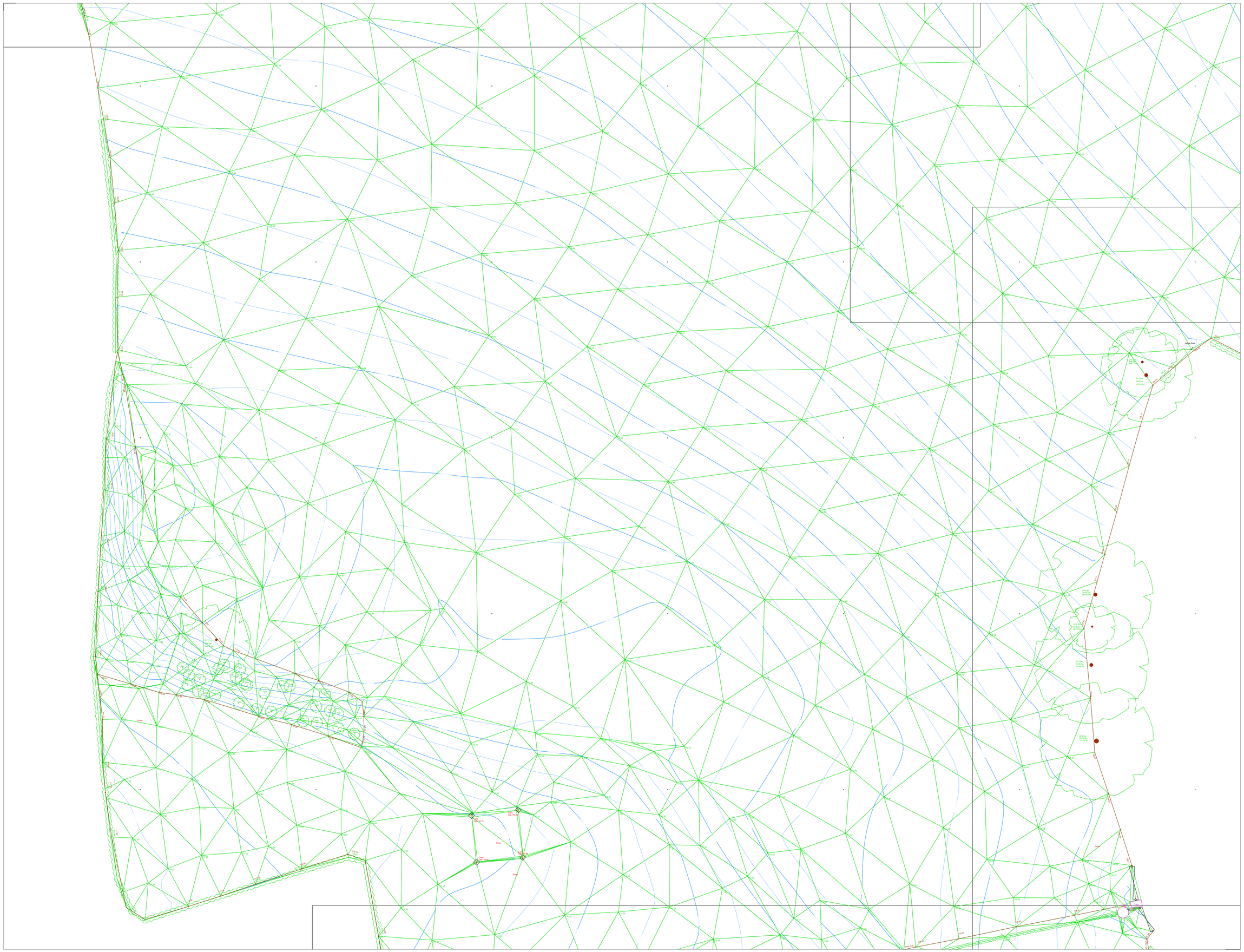
CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 2 of 9

MAKING COMPLEX EASY



Notes:

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This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, investigated by the Contractor. A suitable method of foundation should be provided allowing for existing root systems and future growth. Where new trees are to be planted, ground conditions should be further investigated by a suitable expert. Any earthwork constructions known indicate typical shapes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, investigated by the Contractor. A suitable method of foundation is to be provided to accommodate the root systems and future growth. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation, planning & building regulations approval. Unless shown on a formal planning application, sketch proposals may be based upon amalgamations of OS sheets & visual admeasures. All existing site dimensions & locations shown on this drawing need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND, BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:
The utility services have been traced using a combination of observation and detection using electrocution and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition:

*"Electronic tracing is a reliable method of locating buried services. **On theory, built up sites 90% successful tracing is feasible.** Success depends on the presence of a signal. Tracing is not guaranteed but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Electronic tracing is a valuable method of locating services but it is not a complete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACD	LINEAR DRAINAGE CHANNEL	GDI	GAS INLET POINT	RWP	RAIN WATER PIPE
ACL	ACCESS COVER	GP	GUIDE POST	SAN	SAN BOX
AR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BCL	BOLLARD COLOUR	GR	GRATE / GRID	SC	SCREW COVER
BL	BELL LEVEL	GV	GAS VALVE COVER	SL	SPUN BOX
BM	BOREHOLE	HV	HAND VALVE	SL	SUPPLY LEVEL
BO	BOLLARD POST	IC	INSPECTION COVER	SP	SIGN POST
BOT	BOTTOM LEVEL	IL	INVERT LEVEL	SPM	SECTIONAL MONITORING PN
BTL	BUILDING/WALL	IN	INSPECTION	SL	SPUN BOX
BRA	BICYCLE RACK	KO	KERB OUTLET	SPL	SAMPLING POINT
BS	BUS STOP	LC	LIGHT COVER	SV	STOP VALVE COVER
BT	BRITISH TELECOM COVER	LG	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
BWF	BARBED WIRE FENCE	LP	LIGHT POST	STL	STREET LIGHT
BWR	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gen)	STL	STRUCTURE TOP LEVEL
CAB	CABINET / PEDESTAL COVER	LSB	LIGHT SIGNAL BASE	STP	STREET LIGHT PLAIN
CB	CATENARY LEVEL	LT	LAMP POST	SYC	STAND PIPE
CBTV	CABLE TV COVER	McJ	MACHINERY	SWO	STAY POST
CC	CONTROL COVER	MH	MANHOLE	TC	TRAFFIC
CF	CLOUD SCANNED FENCE	MGP	MOORING POST	TP	STATUS/PIER
CH	CHAINAGE	MJ	MITRE JOINT	TRA	TRAFFIC
CgP	CATTLE GRID	MP	MILE POST	SW	STONE WALL
CL	CABLE LEVEL	MR	MAST RADIO	TBM	TEMPORARY BENCH MARK
CP	CABLE INLET POINT	MLL	ELECTRIC MOTOR	TBM	TELEPHONE BENCH MARK
CL	CENTRE LINE	MT	MAST TELEVISION	TCB	TELEPHONE CABINET
CL	CHAIN LINK FENCE	MP	MAKE POINTS	TCB	TELEPHONE BOX / POST
CO	CLEAR OUT	NBA	NOT BELONGING TO AREA	TCL	TELEPHONE CABLE
Conc	CONCRETE	OSM	OS BENCH MARK	TEL	TIMESWITCH LEVEL
Conc Pvg	CONCRETE PAVING	OHD	OVERGROUND CONDUIT	TL	TELEPHONE LINE
CR	CURB	OHL	OVERHEAD CONDUCTOR	TP	TOILET WALPPIN
CL	CEPING LEVEL	OHC	OVERHEAD CONDUIT	TP	TELEPHONE POLE
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHP	OVERHEAD POWER LINE	TR	TRAFFIC
CW	CONCRETE WALL	OHT	OVERHEAD TELECOMS	TV	TRIANGLE
DL	DISTILLE BEIN	P	POST	UTA	UNABLE TO ACCESS
DO	DRAIN OUT	PA	PUBLIC ADDRESS	UTB	UNABLE TO BURY
DR	DRAINS	PC	SECURITY CAMERA	UTD	UNABLE TO DIGGING
DRC	DRAINAGE COVER COURSE	PG	PETROL PUMP/ORDSHAP	UTF	UNABLE TO FINDING
DS	DIRECTION SIGN	PO	PIT OPENS	UTT	UNABLE TO TRACE LARMAG
EC	ELECTRIC COVER	PP	PHONE POLE	VC	VALVE COVER
EP	ELECTRICITY COVER	PR	PETROL PUMP	VDP	VENDOR DETECTION PNT
EP	ELECTRIC POLE	PS	PUMPING STATION	VP	VENT PIPE
EOT	END OF TRACE (UBG)	PSa	PERIMETER	VW	VALVE WHEEL
EOT	END OF TRACE (PS)	PT	PUMPING TAPS	WB	WATER BOX
EW	EARTHWORKS	Py	PYLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
FB	FIBRE OPTIC CABLE BOX	RC	RAIN CATCHER	WM	WATER METER
FC	FOOTBRIDGE	RG	RAIN GAUGE	WPF	WIRE MESH FENCE
FCL	FINISHED CEILING LEVEL	RM	RAMP / RAMP	WS	WIND SOCK POLE
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FH	FIRE HYDRANT	RP	RAIL POST	WSR	WATER STATION
FH	FIRE HYDRANT	RS	ROAD SIGN		
FL	FLAG STAFF	SGO	RAILWAY SIGNAL POST		
FP	FENCE PIN	SGP	SIGNAL PIN		

SURVEY EXTENTS	D=1:50m 1:500		DEPTH INFORMATION
BRITISH TELECOM		HPT	HOT WATER
TRACED FROM RECORDS		TRACED FROM RECORDS	
CATV CABLE		OF	OPTIC FIBRE
TRACED FROM RECORDS		TRACED FROM RECORDS	
CCTV CABLE		OIL	OIL PIPELINE
TRACED FROM RECORDS		TRACED FROM RECORDS	
COMBINED WATER		PWR	POWER FEATURE
TRACED FROM RECORDS		RR	SURFACE WATER
EMPTY DUCT		RWG	
TRACED FROM RECORDS		T	TELECOMMUNICATION CABLE
EARTHING FEATURE		TLC	TRACED FROM RECORDS
TRACED FROM RECORDS		TLB	TELEMETRY CABLE
ELECTRIC CABLE		TRA	TRAFFIC SIGNALS
TRACED FROM RECORDS		TRA	TRACED FROM RECORDS
FUEL LINE		UK	UNKNOWN SERVICE
TRACED FROM RECORDS		UNG	TRACED FROM RECORDS
FOUL WATER		VNT	VENT
TRACED FROM RECORDS		VENG	TRACED FROM RECORDS
GAS		W	WATER
TRACED FROM RECORDS		WG	TRACED FROM RECORDS
GPR FEATURE		WV	HV ELECTRIC
TRACED FROM RECORDS		WVG	TRACED FROM RECORDS
HELIUM FEATURE			REFERENCE TO GPR DATA IN REPORT
TRACED FROM RECORDS			

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A(0.5) HORIZONTAL ±.5mm VERTICAL ±.25mm	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT WAS NOT DETECTED BY THE SKILLS IN ACCURATE ASSUMED ROUTE
QL-B(3) HORIZONTAL ±300MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B(2) HORIZONTAL ±300MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B(1) HORIZONTAL ±150MM±10% VERTICAL ±10%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES.
SITE RECONNAISSANCE QL-D	—
DESKTOP QL-D	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
QL-D: DESKTOP STUDY
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid: Local Grid by GPS Observations to the OS Active Network (OSTN15)

Datum: Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

MAKING COMPLEX EASY
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CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 3 of 9

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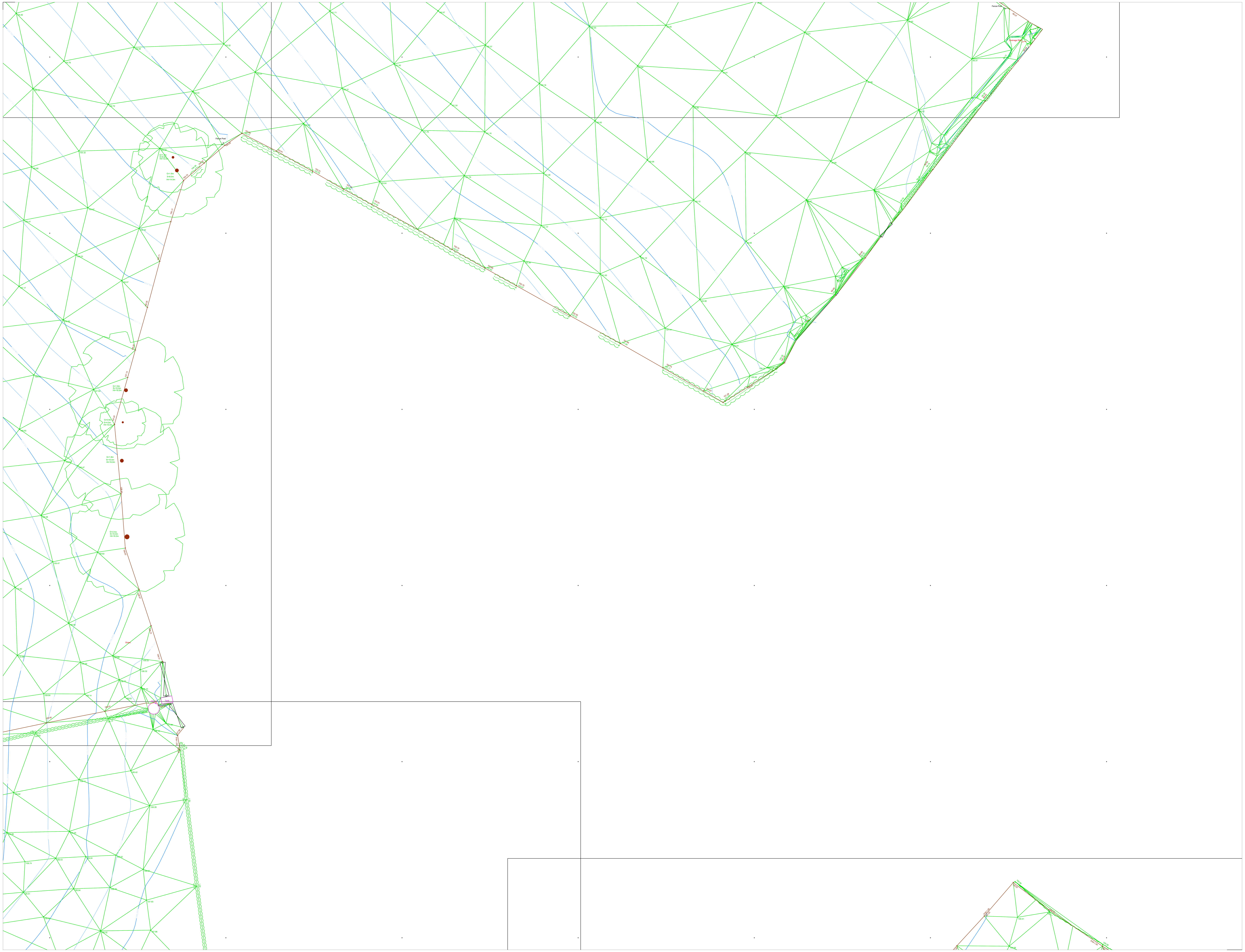

Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions. Any suspect or fluid ground, contaminates on or within the ground, should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions/contaminants, drainage, design & planning/density negotiations. Sketch proposals may be based upon enlargements of OS sheets & visual estimations of existing site features, accuracy will therefore need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

This survey has been carried out using a combination of observation and detection using electrolocation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

*"Electronic tracing is a reliable, method of locating buried services. **On Heavy, built up sites 85% completeness is probably all that can be expected.** Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.** Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	GIS	GAS INLET POINT	RWP	RAN WATER PIPE
AV	AIR VALVE	GP	GUIDE POST	Sap	SAPLING
A/R	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BB	BELISH BEACON	Grl	GRILLE COVER	Shlt	SHELTER
BdL	BED LEVEL	GV	GAS VALVE COVER	Si	SPUN IRON
BH	BOREHOLE	Hrl	HAND RAIL	SL	SOFFIT LEVEL
Bol	BOLLARD	IC	INSPECTION COVER	Slt	SILT LEVEL
BP	BOUNDARY POST	IL	INVERT LEVEL	SMP	SETTLEMENT MONITORING Pnt
B Pvg	BLOCK PAVING	I/R	IRON RAILING FENCE	SP	SIGN POST
BRck	BICYCLE RACK	KO	KERB OUTLET	SPt	SAMPLING POINT
BS	BUS STOP	Lby	LIFEBUOY	SS	STRUCTURE POINT
BT	BRITISH TELECOM COVER	Lck	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
BW	BRICK WALL	Ldr	LADDER	Sti	STILE
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gpr)	STL	STRUCTURE TOP LEVEL
CAP	CABLE WINDING MACHINE	LOS	LOSS OF SIGNAL (eml)	Stone Pvg	STONE PAVING SLABS
Cat	CATENARY LEVEL	LP	LAMP POST	STP	STAND PIPE
CATV	CABLE TV COVER	Mcy	MACHINERY	StPO	STAY POST
CB	CONTROL BOX	MH	MANHOLE	Stu	STUMP
C/B	CLOSE BOARDED FENCE	MgP	MOORING POST	StW	STAYWIRE
CD	CHAMBER DEPTH	Mkr	MARKER POST	SV	STOP VALVE
Cgd	CATTLE GRID	MP	MILE POST	SW	STONE WALL
Ci	CAST IRON	MS	MILESTONE	Tac	TACTILE PAVING
CIP	CABLE INLET POINT	MU	ELECTRIC MOTOR	TBM	TEMPORARY BENCH MARK
CL	COVER LEVEL	NVP	NO VISIBLE PIPE	TBol	BOLLARD (Dept' Transport)
C/L	CHAIN LINK FENCE	NP	NAME PLATE	TCB	TELEPHONE CALL BOX
Col	COLUMN	OSA	OUTSIDE SURVEY AREA	TCP	TELEPHONE CALL POST
Conc	CONCRETE	OSBM	OS BENCH MARK	TEL	TELECOM COVER
Conc Pvg	CONCRETE PAVING	OGC	OVERGROUND CONDUIT	ThL	THRESHOLD LEVEL
CP	CATCHPIT	OHca	OVERHEAD CABLE Unidentified	TL	TRAFFIC SIGNAL POST
CpL	COPING LEVEL	OHC	OVERHEAD CONDUIT	TM	TICKET MACHINE
Cpsn	CAPSTAN	OHE	OVERHEAD ELECTRIC	ToV	TOP OF VALVE LEVEL
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
Cul	CULVERT	OHStruct	OVERHEAD STRUCTURE	Tpt	TRIAL PIT
CW	CONCRETE WALL	OHT	OVERHEAD TELECOMS	Tr	TROUGH
Di	DUCTILE IRON	P	POST	UTA	UNABLE TO ACCESS
(dilap)	DILAPIDATED	PB	POST BOX	UTL	UNABLE TO LOCATE
(dis)	DISUSED	PC	SECURITY CAMERA	UTR	UNABLE TO RAISE
DPC	DAMP PROOF COURSE	Pcg	PEDESTRIAN CROSSING	UTS	UNABLE TO SURVEY
DS	DIRECTION SIGN	PD	PIT DEPTH	UTT	UNABLE TO TRACE (utilities)
DSW	DRYSTONE WALL	P/F	PANEL FENCE	VC	VITRIFIED CLAY
EIC	ELECTRICITY COVER	PP	PETROL PUMP	VDP	VEHICLE DETECTION PAD
EL	EAVES LEVEL	P/R	POST & RAIL FENCE	VP	VENT PIPE
EOT	END OF TRACE (utility)	Psk	PENSTOCK	VW	VALVE WHEEL
EP	ELECTRICITY POLE	PV	VERTICAL PIPE	WB	WEIGH BRIDGE
ER	EARTH ROD	Pyl	PYLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
ESW	ELECTRICITY SWITCH BOX	RE	RODDING EYE	WM	WATER METER
FB	FOOTBRIDGE	RG	RAIN GAUGE	W/M	WIRE MESH FENCE
FL	FLOOR LEVEL	RL	RIDGE LEVEL	WO	WASHOUT COVER
FFL	FINISHED FLOOR LEVEL	RMP	RESRVOIR MONITORING Pnt	WS	WIND SOCK POLE
Flgt	FLOOR LIGHT	RP	REFLECTOR POST	WSR	WATER LEVEL SENSOR
FH	FIRE HYDRANT	RS	ROAD SIGN		
FS	FLAG STAFF	RSP	RAILWAY SIGNAL POST		
G	GULLY	RW	RETAINING WALL		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM	HW	HOT WATER
BT(r)	TAKEN FROM RECORDS	HW(r)	TAKEN FROM RECORDS
CTV	CATV CABLE	O/F	OPTIC FIBRE
CTV(r)	TAKEN FROM RECORDS	O/F(r)	TAKEN FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
CTV(r)	TAKEN FROM RECORDS	OIL(r)	TAKEN FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
CW(r)	TAKEN FROM RECORDS	SW	SURFACE WATER
DUC	EMPTY DUCT	SW(r)	TAKEN FROM RECORDS
DUC(r)	TAKEN FROM RECORDS	T	TELECOMMUNICATION CABLE
EA	EARTHING FEATURE	T(r)	TAKEN FROM RECORDS
EA(r)	TAKEN FROM RECORDS	TLM	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
E(r)	TAKEN FROM RECORDS	TRA(r)	TAKEN FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
FL(r)	TAKEN FROM RECORDS	UK(r)	TAKEN FROM RECORDS
FW	FOUL WATER	VNT	VENT
FW(r)	TAKEN FROM RECORDS	VNT(r)	TAKEN FROM RECORDS
GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION: QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS SHOWN AS AN ASSUMED ROUTE.
QL-B3/p: HORIZONTAL ±500MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B2/p: HORIZONTAL ±250MM/±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1/p: HORIZONTAL ±150MM/±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES.
SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

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CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 4 of 9

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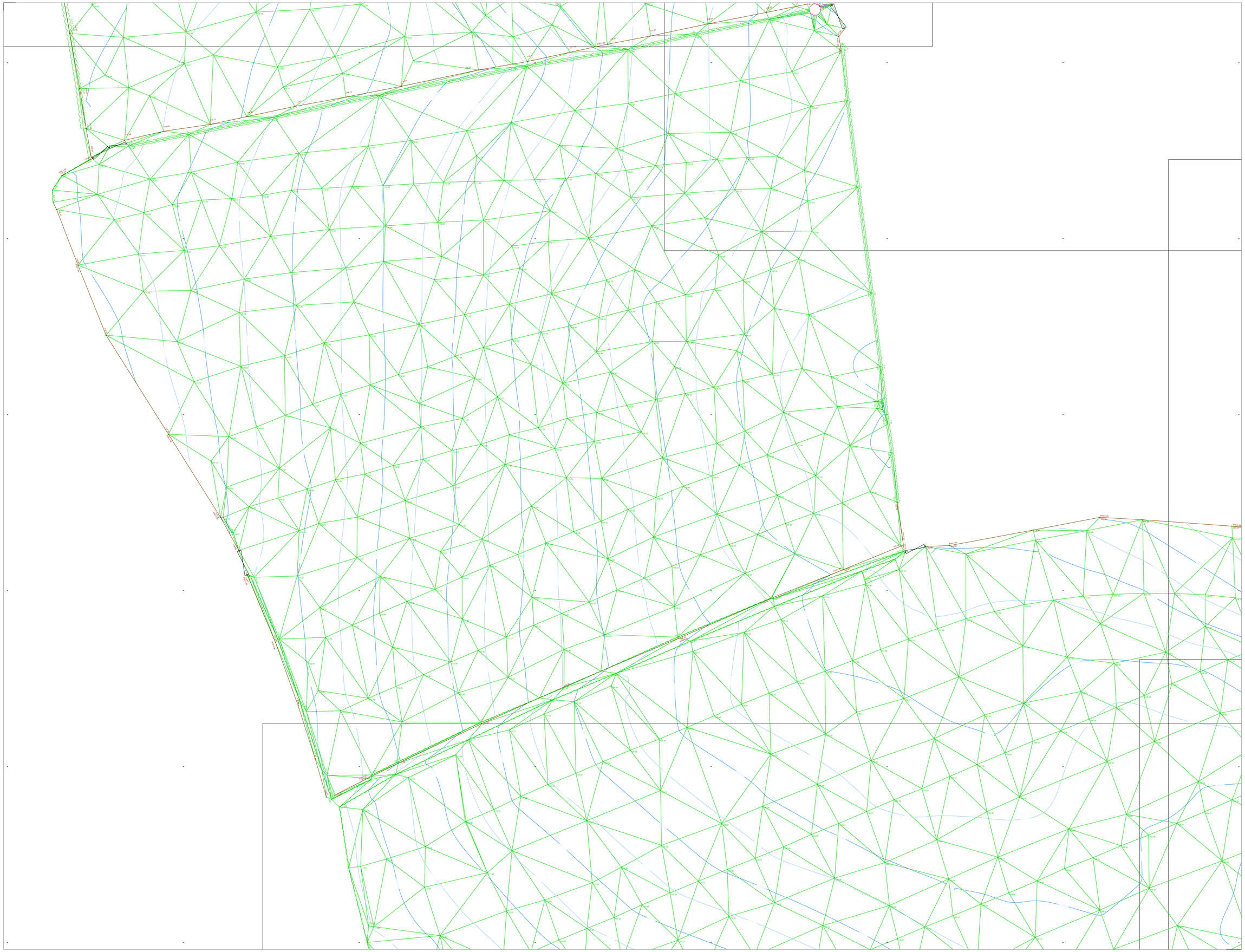

Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connections before work is put in hand. This drawing is to be read in conjunction with all relevant Statutory Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, investigated by the Contractor. A suitable method of foundation should be provided allowing for existing root systems and future growth. Any earthwork constructions shown include typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, investigated by the Contractor. A suitable method of foundation should be provided allowing for existing root systems and future growth. Any earthwork constructions shown include typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, investigated by the Contractor. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation, planning & building regulations approval. Unless shown on a formal planning application, sketch proposals may be based upon arrangements of OS details & visual estimations. All existing site dimensions & features to be checked & verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:
The utility services have been traced using a combination of observation and detection using electrocoation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

*"Electronic tracing is a reliable method of locating buried services. **On Heavy, built up sites RTI.** Electromagnetic tracing is a reliable method of locating buried services. **On Light, open sites** it is reserved but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Information from existing records is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACD	UNDER DRAINAGE CHAMBER	GDI	GAS INLET POINT	RWP	RAIN WATER PIPE
ACI	ACCESS COVER	GP	GUIDE POST	SAP	SAN PIPE
AR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BCP	BOLLARD (PLASTIC)	GR	GRATE (DRAIN)	SC	SCREW COVER
BL	BELT LEVEL	GV	GAS VALVE COVER	SL	SPUN IRON
BM	BOREHOLE	HH	HAND HOLE	SL	SUPPLY LEVEL
BO	BOLLARD	HV	HIGH VOLTAGE COVER	SP	SOIL PIPE
BP	BUSH POINT	IL	INVERT LEVEL	SPMP	SEPTICTANK MONITORING PN
BPo	BLOCKPAVING	IS	INSPECTION CHAMBER	SP	SAMPLE
BRa	BICYCLE RACK	KO	KERB OUTLET	SPI	SAMPLING POINT
BS	BUS STOP	LC	LIGHT COVER	SPL	STREET LIGHT - SINGLE
BT	BRITISH TELECOM COVER	LG	LOCK GATE	SPP	STREET PIPE - SUPPLY TAP
BW	BOUNDARY WALL	LP	LAMP POST	ST	STAKE
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gas)	STL	STRUCTURE TOP LEVEL
CAT	CATHODIC PROTECTION	LS	LIGHT SENSOR, WIRE	STP	STREET PHONE - ALARM
CL	CATENARY LEVEL	LT	LAMP TOP	STR	STAND PIPE
CMTV	CABLE TV COVER	Mcc	MACHINERY	SWO	STAY POST
CO	CLEAN OUT PIPE	MGF	METAL GATE	TA	TRAFFIC
CR	CLOSE BOARDED FENCE	MGP	MOORING POST	TBA	STATUARIE
CS	CONTROL STATION	MH	MANHOLE	TC	TRAFFIC CONE
CSF	CASTLE GRID	MP	MILE POST	SW	STONE WALL
CV	CATTLE GRID	MR	MAST RADIO	TCP	TRAFFIC CONE
DP	CABLE INLET POINT	MLL	ELECTRIC MOTOR	TMM	TEMPORARY BENCH MARK
EL	ELECTRIC LEVEL	MOP	MOTOR OPERATED	TOB	TELEPHONE OUTLET BOX
FL	CHAIN LINK FENCE	MT	MAKE TIGHT	TOE	TOE OF EMBANKMENT
FP	FIRE PLUG	NBA	NOT TO BE DISTURBED AREA	TOP	TOP OF EMBANKMENT, POST
Conc	CONCRETE	OBM	OS BENCH MARK	TS	TELEGRAPH STAY
Conc Pav	CONCRETE PAVING	OEC	OVERGROUND CONDUIT	TSL	TARMSHEILD LEVEL
CP	CAPPING	OEL	OVERHEAD ELECTRIC	TW	TRAFFIC WARDEN
CL	CUPING LEVEL	OEC	OVERHEAD CONDUIT	TLL	TOILET MIXUPIPE
CR	CRANE	OFC	OVERHEAD FIBRE OPTIC	TP	TELEGRAPH POLE
CR	CRANE - HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHL	OVERHEAD LINE (POWER)	TR	TRAP
CW	CONCRETE WALL	OHT	OVERHEAD TELECOMS	TV	TRENCH
DI	DISTILLE IRON	P	POST	UTA	UNABLE TO ACCESS
DO	DRAIN OUT	PC	PETROL CANOPY	UTC	UNABLE TO CLEAN
DRG	DRAINS	PCL	RECEIVER CAMERA	UTG	UNABLE TO ENTER
EB	ELECTRICITY BOX (COARSE	Pg	PEDESTRIAN CROSSING	UTL	UNABLE TO LOCATE
EB	DIRECTION BOX	PO	PIT OPETN	UTT	UNABLE TO TRACE (URBAN)
EC	ELECTRIC COVER	PP	PHONE POLE	VC	VALVE COVER
EC	ELECTRICITY COVER	PR	RETRIEL PUMP	VDP	VEHICLE DETECTION PN
EOC	END OF CURVE	PRa	PARKING METRE	VP	VENT PIPE
EOT	END OF TRACE (URB)	PRe	PERIMETER	VW	VALVE WHEEL
EP	ELECTRIC POLE	PS	PHONE SLAVE	WB	WATER BOARD
ER	EARTHED POLE	Py	PYLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
FB	FIBRE OPTIC BOX (BT)	RB	RAIL BUFFER STOP	WM	WATER METER
FG	FOOTBRIDGE	RG	RAIN GAUGE	WPF	WIRE MESH FENCE
FL	FLOOR LEVEL	RM	RAILWAY MARKER	WS	WATER SOLENOID
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FH	FIRE HYDRANT	RO	ROAD OUTLET	WGR	WATER LEVEL WINDOW
FHI	FIRE HYDRANT	RS	ROAD SIGN		
FL	FLAG STAFF	SGO	RAILWAY SIGNAL POST		
FP	FENCE PIN	SGP	SIGNAL PIN		

SURVEY EXTENTS ..... D=1.00m 1.00d

BT	BRITISH TELECOM	HP	HOT WATER
	TIMES FROM RECORDS		TIMES FROM RECORDS
CTV	CATV CABLE	OF	OPTIC FIBRE
	TIMES FROM RECORDS		TIMES FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
	TIMES FROM RECORDS		TIMES FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
	TIMES FROM RECORDS		SURFACE WATER
EDU	EMPTY DUCT	SWD	TIMES FROM RECORDS
	TIMES FROM RECORDS		TELECOMMUNICATION CABLE
ES	EARTHING FEATURE	TC	TIMES FROM RECORDS
	TIMES FROM RECORDS	TJB	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
	TIMES FROM RECORDS		TIMES FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
	TIMES FROM RECORDS		TIMES FROM RECORDS
FW	FOUL WATER	VAT	VENT
	TIMES FROM RECORDS		TIMES FROM RECORDS
GAS	GAS	W	WATER
	TIMES FROM RECORDS		TIMES FROM RECORDS
GFR	GFR FEATURE	HV	HV ELECTRIC
	TIMES FROM RECORDS		TIMES FROM RECORDS
Nature	HELIUM FEATURE		REFERENCE TO GPR DATA IN REPORT
	TIMES FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A(a) HORIZONTAL ±50MM VERTICAL ±25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE PIPE
DETECTION QL-B(a)	A UTILITY WHICH IS SUSPECTED TO EXIST BUT WAS NOT DETECTED BY ANY OF THE METHODS AS AN ASSUMED ROUTE
QL-B(b) HORIZONTAL ±300MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE
QL-B(c) HORIZONTAL ±300MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY
QL-B(d) HORIZONTAL ±150MM±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE: QL-C	—
DESKTOP QL-D	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
(e.g. 300mm ±40% depth)
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION.

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

MAKING COMPLEX EASY
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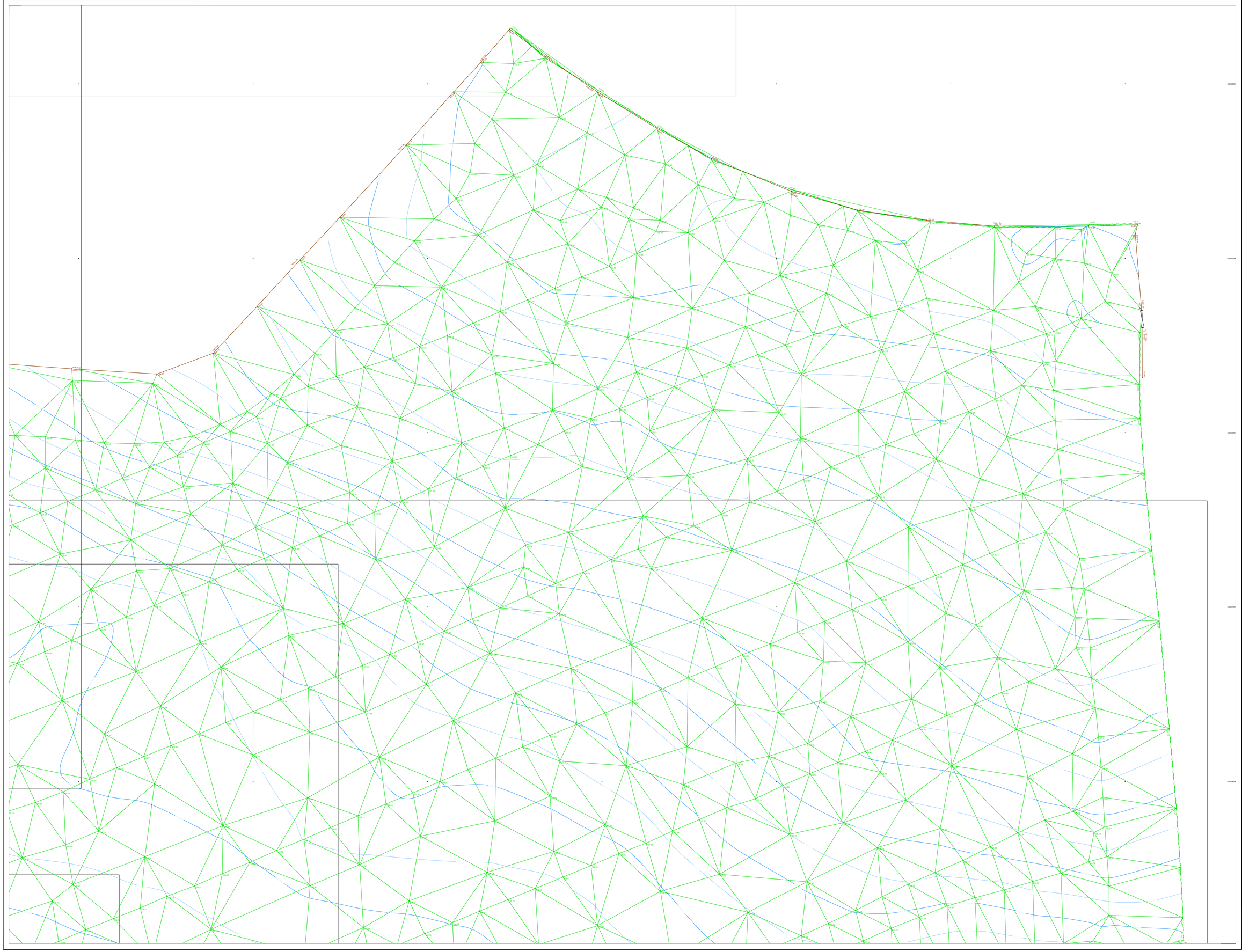
CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 5 of 9

MAKING COMPLEX EASY



Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at the commencement of the Works, and report to the Engineer any errors, omissions or discrepancies. Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Any ground conditions or contaminants shown are for general information only and should be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing trees and their root systems. Ground conditions and contaminants should be assumed to be present and investigated by a suitable expert. Any earthwork constructions known indicate typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, health and their suitability for retention in accordance with current British Standard and protected from damage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation and detailed design. Information provided by others, such as utilities information, underpinning sketch proposals may be based upon arrangements of OS sheets & visual estimatives. All existing site dimensions and levels should be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

The location of underground services is having a combination of observation and detection using electrocoarion and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable method of locating buried services. ***On theory, built up size 80%*** ***successful tracing of metallic pipes and cables.*** Success depends on the size of the pipe or cable traced but this figure will depend on the depth of the service below ground level. ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be achieved by the use of ancillary devices such as sonic generators, transponders and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed***"

Standard Abbreviations

ACO	ACO	GDR	GAS INLET POINT	RWP	RAIN WATER PIPE
ACT	LINEAR DRAINAGE CHANNEL	GP	GUIDE POST	SBd	SIGN BOARD
APR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BAR	BARRIER BOLLARD	GR	GRATED GULLY	SBR	SIGN BRIDGE
BBL	BELL-LEVEL	GV	Gate Valve Cover	SC	SPUN BOA
BH	BOREHOLE	HV	HAND RAIL	SL	SUPPT LEVEL
BM	BENCH MARK	HC	HYDRANT COVER	SP	SUPPORT
BOL	BOLLARD POST	HL	HOLE LEVEL	SPM	SECTIONBOY MONITORING PN
BTL	BUSH/TAPERED	IL	INVERT LEVEL	SP	SAMPLING POINT
BRa	BICYCLE RACK	KG	KERB OUTLET	SPt	SAMPLING POINT
BS	BUS STOP	LG	LIGHT GATE	SR	STAND PIPE - RISER
BT	BRITISH TELECOM COVER	LVA	LOCK VALVE	SS	STAND PIPE - SUPPLY TAP
BWF	BARBED WIRE FENCE	LP	LAMP POST	STL	STOP LEVEL
BWR	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gen)	STL	STRUCTURE TOP LEVEL
CAB	CABLE TV COVER	LOS	LOSS OF SIGNAL (HH)	STP	STANDARD TEST PLARN
CA	CATENARY LEVEL	LT	LAMP POST	STW	STAND WATER
CATV	CABLE TV COVER	Mcc	MACHINERY	SWO	STAY POST
CB	CATCH BASIN	MGF	MESH FENCE	TA	TRAFFIC
CLF	CLOSE BOARDED FENCE	MGP	MOTORWAY POST	TBa	STATUARIE
CL	CAT LEVEL	MH	MANHOLE	TC	TRAFFIC CONE
CgP	CASTLE GRID	MP	MILE POST	SW	STONE WALL
CH	CHAINAGE	MR	MAST RADIO	TP	TELEGRAPH POLE
CP	CABLE INLET POINT	MLL	ELECTRIC MOTOR	TBM	TEMPORARY BENCH MARK
CL	CAT LEVEL	MOT	MOTOR BOX	TCB	TELEPHONE CABINET
CL	CHAIN LINK FENCE	MT	MAST STAYS	TCB	TELEPHONE CABINET
CO	CLEAR OUT	NBA	NOT TO BE ADOPTED AREA	TCP	TELEGRAPH POLE - POINT
Conc	CONCRETE	OSM	OS BENCH MARK	TC	TELEGRAPH COVER
Conc Pvg	CONCRETE PAVING	OHD	OVERGROUND CONDUIT	TNL	TARESHOLD LEVEL
CR	CROSS	OHF	OVERHEAD FIBRE OPTIC	TP	TELEGRAPH POLE
CL	COPING LEVEL	OHC	OVERHEAD CONDUIT	TL	TOILET MACHINE
CP	CAT POINT	OHL	OVERHEAD LINE	TP	TELEGRAPH POLE
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CS	CAT SCAN	OHP	OVERHEAD PIPELINE	TR	TRAFFIC LIGHT
CW	CONCRETE WALL	OHT	OVERHEAD TELECOM	TV	TRACION
Dh	DIGITALE BEON	P	POST	UTA	UNABLE TO ACCESS
DIS	DISCHARGE	PC	PEDESTRIAN CAMERA	UTB	UNABLE TO ENABLE
DIS	DISCHARGE	Pcg	SECURITY/NAV/PASSING	UTC	UNABLE TO TRACE
DS	DIRECTION SIGN	PIT	PIT (SEPTIC)	UTT	UNABLE TO TRACE LARMAG
EB	ELECTRIC BOX	PO	PEDESTRIAN POST	VC	VALVE COVER
EC	ELECTRICITY COVER	PR	RETRIEL PILLAR	VDP	VEHICLE DETECTION PNT
EG	EARTH GRID	Pbx	PHONE BOX	VP	VENT PIPE
EOT	END OF TRACE (ARU)	Pdp	PRINSTOCK	VW	VALVE WHEEL
EP	ELECTRIC POLE	PL	PILLAR / LIFE	WB	WATER BOX
EP	EARTHED POLE	Pp	PILLOW	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
FB	FIBRE OPTIC BOX / BOX	RG	RAIN GAUGE	WMF	WIRE MESH FENCE
FG	FOOTBRIDGE	RL	RAIN GAUGE	WOF	WOODEN FENCE
FL	FLOOR LEVEL	RM	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WGB	WATER LEVEL WINDOW
FH	FIRE HYDRANT	RS	ROAD SIGN		
FH	FIRE HYDRANT	RS	RAILWAY SIGNAL POST		
FT	FLAG STAFF	SGO	SIGNAL GANTRY		

	SURVEY EXTENTS	D=1.00m 1:500	DEPTH INFORMATION
BT	BRITISH TELECOM	HWT	HOT WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
CTV	CATV CABLE	OF	OPTIC FIBRE
	TRACE FROM RECORDS		TRACE FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
	TRACE FROM RECORDS		TRACE FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
	TRACE FROM RECORDS		TRACE FROM RECORDS
	EMPTY DUCT	RWG	SURFACE WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
	EARTHING FEATURE	TC	TELECOMMUNICATION CABLE
	TRACE FROM RECORDS		TRACE FROM RECORDS
E	ELECTRIC CABLE	TLB	TELEMETRY CABLE
	TRACE FROM RECORDS	TRA	TRAFFIC SIGNALS
			TRACE FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
	TRACE FROM RECORDS		TRACE FROM RECORDS
FW	FOUL WATER	VNT	VENT
	TRACE FROM RECORDS		TRACE FROM RECORDS
GAS	GAS	W	WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
GFR	GFR FEATURE	WV	HV ELECTRIC
	TRACE FROM RECORDS		TRACE FROM RECORDS
Nature	HELIUM FEATURE		REFERENCE TO GPR DATA IN REPORT
	TRACE FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A+ HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE PIPE
DETECTION QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN PROVED TO BE PRESENT AS SHOWN AS AN ASSUMED ROUTE
QL-B3a HORIZONTAL ±300MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE
QL-B2a HORIZONTAL ±300MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1a HORIZONTAL ±150MM±10% VERTICAL ±10%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE QL-U	—
DESKTOP QL-O	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
QL-A+ ACCURACY ONLY
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

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CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 6 of 9

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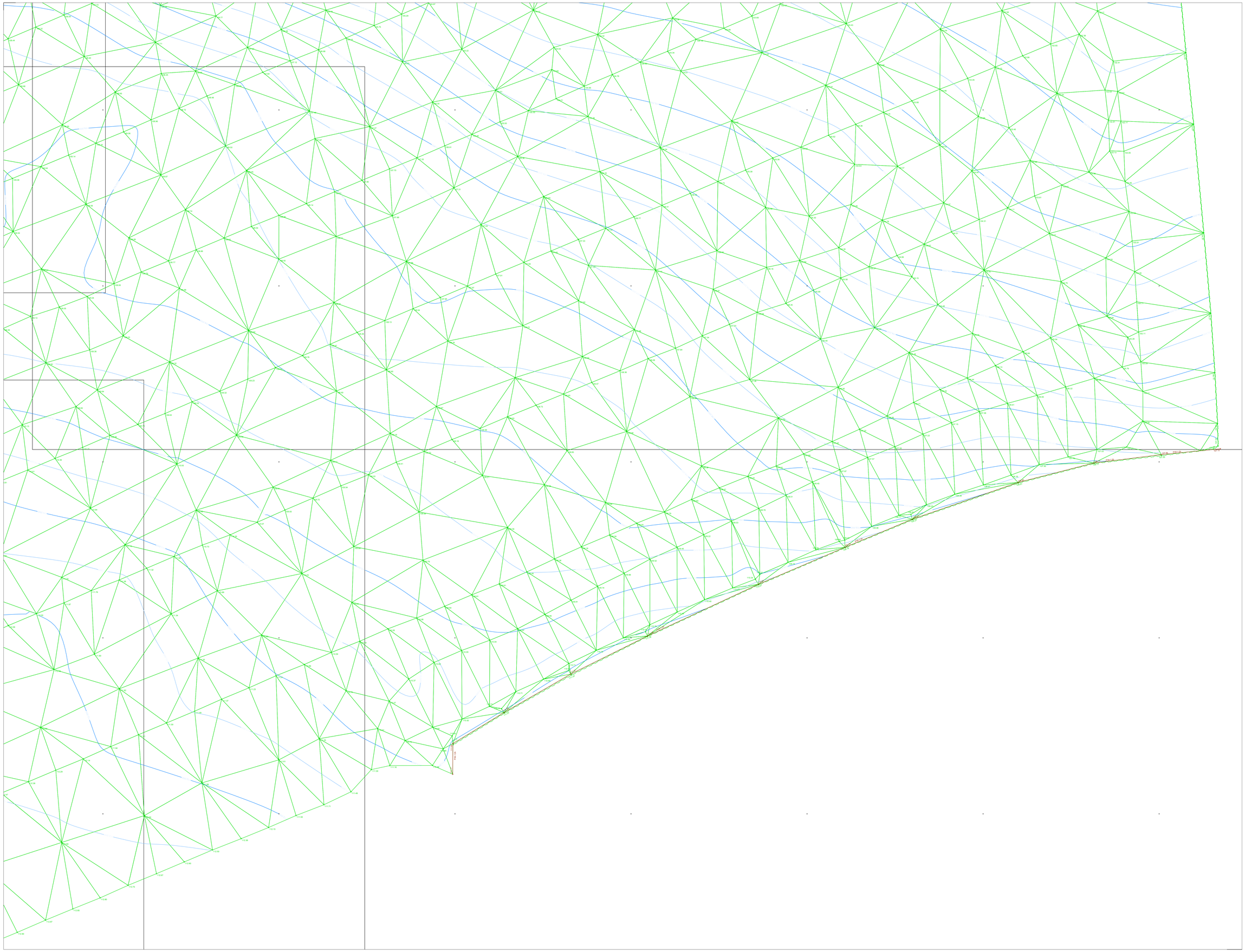

Notes:

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The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at the beginning of the work and report to RPS any discrepancies. All work to be carried out to Statutory Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Any details shown on this drawing are indicative only and should be further investigated by a suitable expert. Any foundations to be retained should be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing trees and services. Any earthwork constructions shown indicate typical shapes for guidance only & should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical shapes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety and health and appropriate tree surgery carried out prior to commencement of any work on site to remove from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation and detailed design. Information provided by others, such as utilities, topographical surveys, sketch proposals may be based upon enlargements of OS details & visual estimations. All existing site dimensions, levels and positions of services need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND, BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

Utility services have been traced using a combination of observation and detection using electrocoation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

*"Electronic tracing is a reliable method of locating buried services. **On Heavy, built up sites RFI's** (Requests for Information) **to the Client may be required** to locate services. **Tracing is not guaranteed** but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Information provided by others may be incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACD	LINEAR DRAINAGE CHANNEL	GDI	GAS INLET POINT	RWP	RAIN WATER PIPE
ACT	ACTUATOR	GP	GUIDE POST	SAN	SAN BOARD
AR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BCP	BOLLARD (PLASTIC)	GR	GRATE (DRAIN)	SC	SIGN CLEAR
BL	BELLARD	GV	GAS VALVE COVER	SL	SPUN BLOCK
BM	BOREHOLE	HY	HYRD RING	SL	SUPPLY LEVEL
BO	BOLLARD (POST)	IC	INSPECTION COVER	SM	SAMPLE
BOT	BOTTOM OF WALL	IL	INVERT LEVEL	SMP	SITE MONITORING PN
BTW	BUSH/TREE(WIDE)	IS	INSPECTION CHAMBER	SP	SPOT
BRA	BICYCLE RACK	KO	KERB OUTLET	SPL	SAMPLING POINT
BS	BUS STOP	LC	LIGHT COVER	SR	SOAKAWAY RING
BT	BRITISH TELECOM COVER	LG	LOCK GATE	ST	STREET LIGHT - SUPPLY TAP
BUS	BUSHES	LP	LAMP POST	STL	STEEL
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gpr)	STS	STRUCTURE TOP LEVEL
CAB	CABINET (ELECTRICITY)	LS	LIGHT SENSOR, WHITE	SVC	SERVICE (GAS) - SLAIRS
CAT	CATENARY LEVEL	LT	LAMP POST	SYC	SYPHON (INV)
CBTV	CABLE TV COVER	McJ	MACHINERY	SWO	STAY POST
CC	CONCRETE COVER	MH	MANHOLE	TA	TRAFFIC
CD	CLOUD SUNRISE/SETTING	MgP	MOORING POST	TCV	STOPCOCK
CH	CHAINAGE	MK	MARKER POST	TD	TRENCH
CgP	CATTLE GRID	MP	MILE POST	SW	STONE WALL
CL	CHAIN LINK	MR	MAST RADIO	TEL	TELEGRAPH POLE
CP	CABLE INLET POINT	MU	ELECTRIC MOTOR	TMM	TEMPORARY BENCH MARK
CT	CATTLE TROUGH	NP	NOTICE POST	TOB	TELEPHONE OUTLET BOX
CL	CHAIN LINK FENCE	MT	MAKE TALLER	TOS	TELEPHONE SIGNAL POST
CO	CLEAR OUT	OBB	OUTSIDE BOUNDARY AREA	TP	TELEPHONE POLE
Conc	CONCRETE	OSM	OS BENCH MARK	TSL	TELEGRAPH LEVEL
Conc Pvg	CONCRETE PAVING	OHD	OVERGROUND CONDUIT	TW	THREEWAYS (FLAT)
CR	CURB	OHE	OVERHEAD ELECTRICITY	TY	TELEGRAPH POLE
CL	CUTAWAY LEVEL	OHC	OVERHEAD CONDUIT	TBL	TOILET BOLLARD
CV	CAT'S EYE	OHF	OVERHEAD FIBRE	TP	TELEGRAPH POLE
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CLEAR WIDTH	OHL	OVERHEAD LINE/CABLE	TR	TRAFFIC LIGHT
CW	CONCRETE WALL	OHT	OVERHEAD TELECOM	TV	TRACION
DI	DISTILLE BEIN	P	POST	UTA	UNABLE TO ACCESS
DIS	DISTILLERY	PA	PUBLIC ADDRESS	UTB	UNABLE TO ENTER
DRO	DRAINPIPE	PC	SECURITY CAMERA	UTC	UNABLE TO CLIMB
DS	DIRECTION SIGN (COURSE	PG	PROTECTION GRIDIRON	UTD	UNABLE TO DIG
DS	DIRECTION SIGN	PO	PIT OPENING	UTT	UNABLE TO TRACE (URBAN)
EB	ELECTRICITY BOX	PP	POWER POLE	VP	VENT PIPE
EC	ELECTRICITY COVER	PR	RETREAL POLAR	VOP	VEHICLE DETECTION PNT
EG	EARTH GUARD	PRC	PRESSURE REDUCE	VR	VALVE RISER
EOT	END OF TRACE (URB)	PrM	PROMOTION	VW	VALVE WHEEL
EOT	END OF TRACE (FIELD)	PS	PUMPING STATION	WB	WATER BOARD
EP	EARTH POST	Py	PYLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
ESP	ELECTRICITY SUPPLY BOX	RE	RAILWAY SIGNAL	WM	WATER METER
FB	FOOTBRIDGE	RG	RAIN GAUGE	WMF	WIRE MESH FENCE
FC	FIBRE CABLE	RM	RAILWAY MARKER	WO	WATER OUTLET
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FH	FIRE HYDRANT	RO	ROAD OUTLET	WSR	WATER STATE REMOVER
FL	FIRE HYDRANT	RS	ROAD SIGN		
FT	FLAT STONY	SGO	RAILWAY SIGNAL POST		
FU	FUSE BOX	SGP	SIGNAL PIPE		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM	HPI	HOT WATER
	TRACES FROM RECORDS		TRACES FROM RECORDS
CTV	CATV CABLE	OF	OPTIC FIBRE
	TRACES FROM RECORDS		TRACES FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
	TRACES FROM RECORDS		TRACES FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
	TRACES FROM RECORDS	RC	SURFACE WATER
	EMPTY DUCT		TRACES FROM RECORDS
	TRACES FROM RECORDS	T	TELECOMMUNICATION CABLE
	EARTHING FEATURE		TRACES FROM RECORDS
		TJB	TELINETWK CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
	TRACES FROM RECORDS		TRACES FROM RECORDS
	FUEL LINE	UK	UNKNOWN SERVICE
	TRACES FROM RECORDS		TRACES FROM RECORDS
FW	FOUL WATER	VAT	VENT
	TRACES FROM RECORDS		TRACES FROM RECORDS
GAS	GAS	W	WATER
	TRACES FROM RECORDS		TRACES FROM RECORDS
GFR	GRP/FEATURE	6V	6V ELECTRIC
	TRACES FROM RECORDS		TRACES FROM RECORDS
	HELIUM FEATURE		REFERENCE TO GPR DATA IN REPORT
	TRACES FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN PROVED TO EXISTS AS AN ASSUMED ROUTE
QL-B3a HORIZONTAL ±300MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B2a HORIZONTAL ±200MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1a HORIZONTAL ±150MM±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE QL-D	—
DESKTOP QL-D	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
QL-D: DESKTOP STUDY
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	Jun 22	SM

MAKING COMPLEX EASY
THE SURVEY ASSOCIATION
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Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

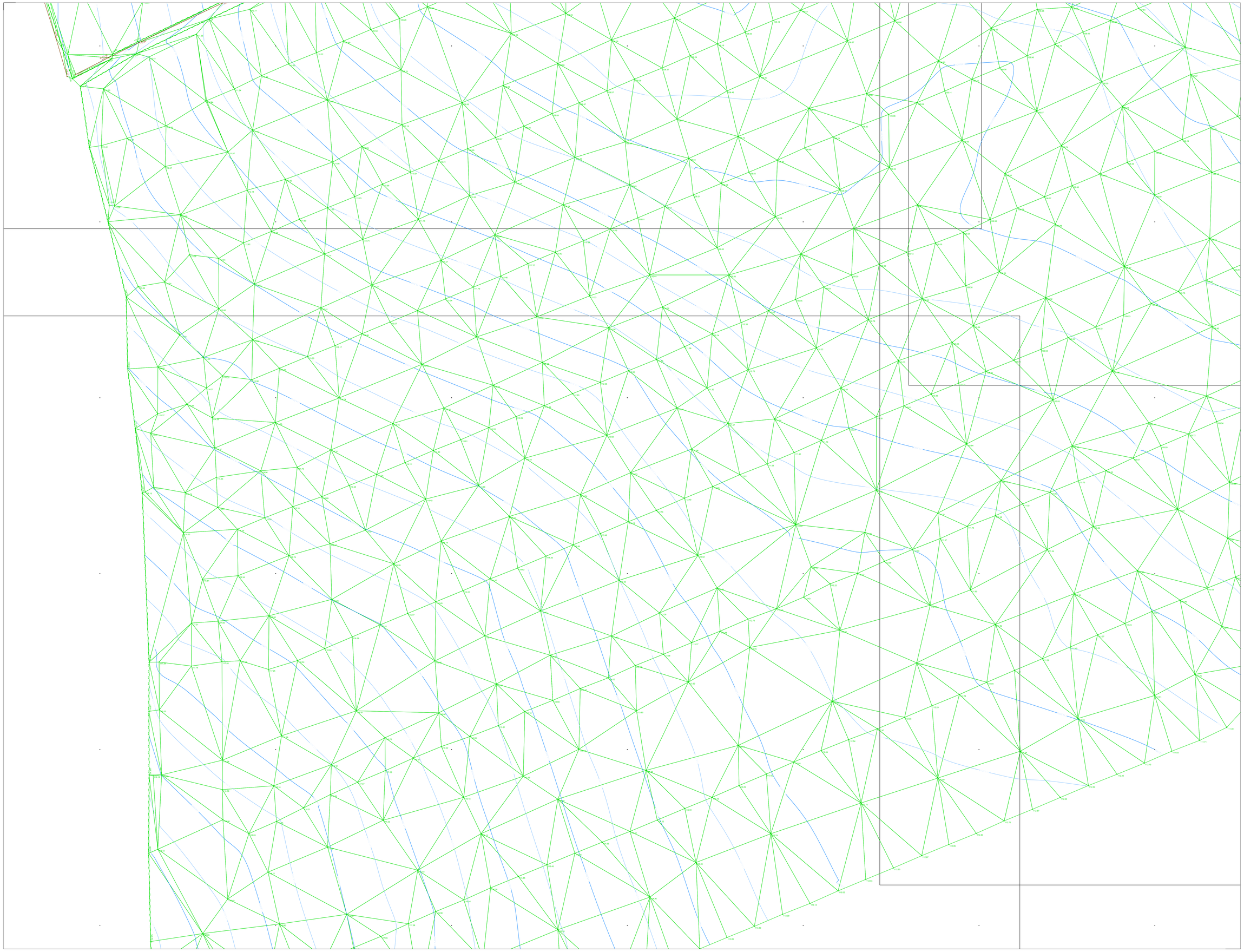
CLIENT:
David Kemmett
Project Manager
Noriker Power LTD

PROJECT:
Scot's Stability
Kilmarnock South

TITLE:
Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR2329_A	Sheet: 7 of 9

MAKING COMPLEX EASY



Notes:

© This drawing and the building works depicted are the copyright of RPS and may not be reproduced or transmitted except by written permission. No liability will be accepted for amendments made by other persons.

The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connections before work is put in hand. This drawing is to be read in conjunction with all relevant Statutory Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Unless shown on this drawing, no information on foundations or ground conditions has been investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions, trees, services and ground contaminants. Ground conditions should be investigated by a suitable expert. Any earthwork constructions known indicate typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety and health and appropriate tree protection measures put in place to prevent root damage and protection from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation and detailed design. Information provided by others, such as utilities information and topographical surveys, proposals may be based upon enlargements of OS sheets & result estimations of existing site conditions. Information provided by others need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND, BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:
Utility services have been located using a combination of observation and detection using electrocoation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

*"Electronic tracing is a reliable method of locating buried services. **On theory, built up sites 90% accuracy is achievable.** This figure will be reduced if there are obstructions at ground level. Accuracy is achieved but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Information provided by others, such as utilities information and of doubtful accuracy, it should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACD	LINEAR DRAINAGE CHANNEL	GDI	GAS INLET POINT	RWP	RAIN WATER PIPE
ACI	ACCESS COVER	GP	GUIDE POST	SAN	SAN BOARD
APR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BAS	BASKETBALL COURT	GR	GRATE (DRAIN)	SBR	SIGN BRIDGE
BCL	BELLARD	GV	GAS VALVE COVER	SC	SPUN BOLA
BH	BOREHOLE	HY	HYRD RING	SI	SUPPLY LEVEL
BI	BUILDING INLET	IC	INSPECTION COVER	SL	SOFT LEVEL
BM	BENCHMARK	IL	INVERT LEVEL	SMP	SOIL MONITORING PN
BOL	BOLLARD(PIN)	IS	INSPECTION STANCE	SP	SPOT
BPA	BICYCLE RACK	KO	KERB OUTLET	SPA	SAMPLING POINT
BS	BUS STOP	LA	LIGHT ARM	SPL	SAMPLING PLANT
BT	BRITISH TELECOM COVER	LG	LOCK GATE	ST	STANDPIPE / SUPPLY TAP
BUS	BUSHES	LP	LIGHT POLE	STA	STATION
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gpr)	STL	STRUCTURE TOP LEVEL
CAB	CABINET (TELECOM)	LT	LIGHT TRAFFIC SIGNAL	STP	STANDPIPE / SUPPLY PLANT
CAT	CATENARY LEVEL	LP	LAMP POST	STR	STAND PIPE
CBTV	CABLE TV COVER	MAC	MACHINERY	SWO	STAY POST
CC	CONCRETE COLUMN	MAN	MANHOLE	TA	TRAFFIC ARM
CD	CLOUD DIAMOND FENCE	MAP	MOTORING POST	TCV	STOPCOCK
CE	CATENARY END	MB	MAIL BOX	TEL	TELEGRAPH POLE
CGF	CASTLE GRID	MP	MILE POST	SW	STONE WALL
CH	CHAINAGE	MS	MOTOR SIGN	TFL	TRAFFIC FLOW
CIP	CABLE INLET POINT	MU	ELECTRIC MOTOR	TMM	TEMPORARY BENCH MARK
CL	CENTRE LINE	NP	NOTICE POST	TOB	TOP OF BANK / BERM
CL	CHAIN LINK FENCE	NT	NAME PLATE	TOE	TOE/BOTTOM OF SLOPE
CO	CLEANOUT	OBA	OBSERVATION AREA	TOP	TOP OF SLOPE / BANK POST
Conc	CONCRETE	OBM	OS BENCH MARK	TOL	TELEGRAPH COLUMN
Conc Pvg	CONCRETE PAVING	OED	OVERGROUND CONDUIT	TNL	TARMSHEILD LEVEL
CP	CAPPED	OEL	OVERHEAD ELECTRIC LINE	TP	TELEGRAPH POLE
CR	COPING LEVEL	OFC	OVERHEAD CONDUIT	TSL	TOILET MACHINE
CS	CRANE / HOIST	OGC	OVERHEAD GANTRY	TSP	TELEGRAPH SIGNAL POST
CS	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHL	OVERHEAD LINE	TR	TRENCH
DA	DUSTBIN BIN	OHT	OVERHEAD TELECOMS	TRA	TRACKER
DB	DOG BOWL	P	POST	UTA	UNABLE TO ACCESS
DC	DRAINED	PC	PEDESTRIAN CAMERA	UTB	UNABLE TO ENTER
DG	DRAINED GOLF COURSE	PG	DECORATIVE GRIDDING	UTC	UNABLE TO CLEAN
DI	DIRECTION SIGN	PIT	PIT (SPOT)	UTT	UNABLE TO TRACE LARMAG
DP	DOWN PIPE	PL	PLANTER (BIG)	UTV	UNABLE TO VISIT
EC	ELECTRICITY COVER	PM	PETROL PUMP	VDP	VEHICLE DETECTION PNT
EF	END OF FENCE	PMP	PUMPING STATION	VM	VALVE MARKER
ECY	END OF TRACE (cable)	PNK	PENINSTONE	VW	VALVE WHEEL
EGP	ELECTRIC GRID POST	PO	PIPE OUTLET	WA	WATER ARROW
EHB	EARTHQUIC HOLE	PV	PILLOW	WB	WATER BAUGE
EIP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
ELL	ELECTRICAL LIGHT BOLLARD	RB	RAIN WATER BUTT	WMF	WIRE MESH FENCE
FB	FOOTBRIDGE	RG	RAIN GAUGE	WMP	WIRE MESH PANEL
FCL	FINISHED CEILING LEVEL	RM	RAILWAY MARKER	WS	WIND SOCK POLE
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FG	FIRE GRID	RO	RAIN OUTLET	WSR	WATER STATE REMOVER
FH	FIRE HYDRANT	RS	ROAD SIGN		
FL	FLAG STAFF	SGI	SIGNAL GANTRY		
FP	FENCE POST	SGP	SIGNAL POST		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM TYPE FROM RECORDS	HPI	HOT WATER TYPE FROM RECORDS
CTV	CATV CABLE TYPE FROM RECORDS	OF	OPTIC FIBRE TYPE FROM RECORDS
CTV	CCTV CABLE TYPE FROM RECORDS	OIL	OIL PIPELINE TYPE FROM RECORDS
CW	COMBINED WATER TYPE FROM RECORDS	PWR	POWER FEATURE TYPE FROM RECORDS
EMD	EMPTY DUCT TYPE FROM RECORDS	RC	SURFACE WATER TYPE FROM RECORDS
ES	EARTHING FEATURE TYPE FROM RECORDS	TJB	TELEMETRY CABLE TYPE FROM RECORDS
E	ELECTRIC CABLE TYPE FROM RECORDS	TRA	TRAFFIC SIGNALS TYPE FROM RECORDS
FL	FUEL LINE TYPE FROM RECORDS	UK	UNKNOWN SERVICE TYPE FROM RECORDS
FW	FOUL WATER TYPE FROM RECORDS	VAT	VENT TYPE FROM RECORDS
GAS	GAS TYPE FROM RECORDS	W	WATER TYPE FROM RECORDS
GFR	GFR FEATURE TYPE FROM RECORDS	HV	HV ELECTRIC TYPE FROM RECORDS
HLC	HELIUM FEATURE TYPE FROM RECORDS	REFERENCE TO GPR DATA IN REPORT	REFERENCE TO GPR DATA IN REPORT

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A HORIZONTAL ±50MM VERTICAL ±25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE PIPE
DETECTION QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT WAS NOT DETECTED BY ANY OF THE METHODS IN AN ASSIGNED ROUTE
QL-B3 HORIZONTAL ±300MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE
QL-B2 HORIZONTAL ±300MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY
QL-B1 HORIZONTAL ±150MM±10% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE QL-D	—
DESKTOP QL-D	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
F = FIXED PROCEDURE
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid:	Datum:
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
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CLIENT:

David Kemmett
Project Manager
Noriker Power LTD

PROJECT:

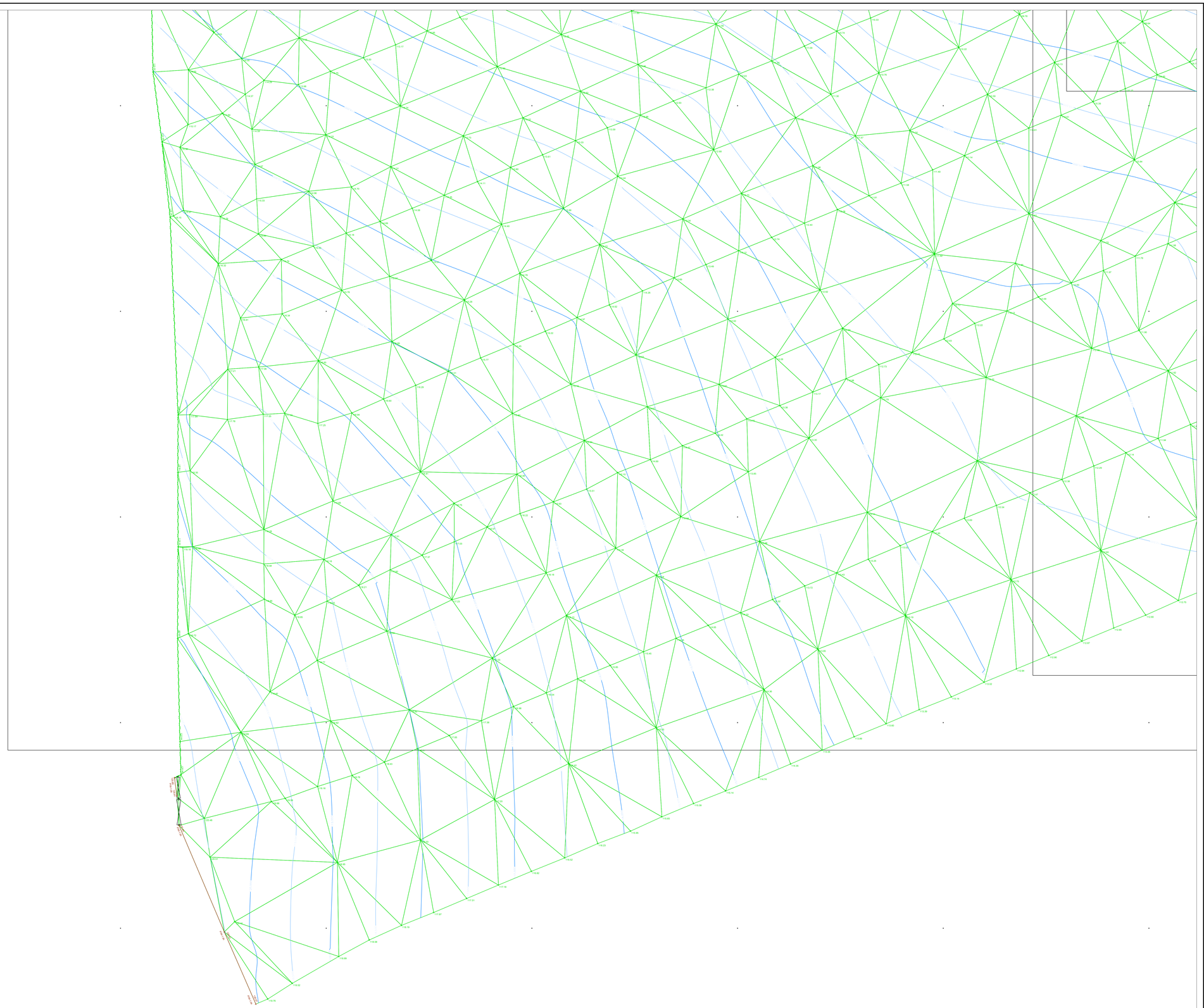
Scot's Stability
Kilmarnock South

TITLE:

Topographic Survey

Drawn: SM	Checked: JS
Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 8 of 9

MAKING COMPLEX EASY



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This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Any reference to existing trees, their condition and their suitability for retention should be further investigated by the Contractor. A suitable method of foundation should be provided allowing for existing and proposed trees. Any reference to underground services should be treated as approximate and should be investigated by a suitable expert. Any earthwork constructions shown indicate typical shapes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety, health and suitability for their proposed use. Adjacent trees may require root barrier protection to prevent damage from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation and design. Dimensions and measurements are to be checked on site and subsequent amendments to proposals may be based upon arrangements of GA sheets & visual estimations. All existing site dimensions and measurements need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

The following has been prepared using a combination of observation and detection using electrocoation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material: an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition:

*"Electronic tracing or a similar method of locating buried services. **On Heavy, built up sites 80% completeness is feasible. On less built up sites completeness may be as low as 50%.** Accuracy achieved but this figure will depend on the depth of the service below ground level. **Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be impossible. Information from records may be incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"***

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	GS	GAS INLET POINT	RWP	RAIN WATER PIPE
AP	ACCESS POINT	GP	GUIDE POST	SB	SIGN BOARD
APR	ASSUMED ROUTE	GPR	GROUND PROBING RADAR	SB	SIGN BOARD
BB	BILLBOARD/SIGN	GT	GAS TAP/VALVE	SC	SPOT HEIGHT
BL	BELLARD	GV	Gate/Valve Cover	SL	SPUN INCH
BH	BOREHOLE	HH	HANG RAIL	SL	SUPPLY LEVEL
BO	BOLLARD	HC	HOT WATER STOPCOCK COVER	SP	SOIL PIPE
BP	BUS DEPARTURE POST	HL	HOT WATER LEVEL	SMP	SELF MONITORING MONITORING PN
BPole	BUS/LIGHT/ARRIVAL	IL	INVERT LEVEL	SP	SOIL PIPE
BRack	BICYCLE RACK	KO	KERB OUTLET	SPL	SAMPLING POINT
BS	BUS STOP	LG	LIGHT GATE	SS	SANITARY STOPCOCK
BT	BRITISH TELECOM COVER	LW	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
BW	BUS WAITING	LP	LAMP POST	STL	STEEL
BWF	BARBED WIRE FENCE	LOR	LOSS OF REFLECTION (gen)	STL	STRUCTURE TOP LEVEL
CAB	CABLE TV/TELEPHONE	LP	LIGHT POLE/ PIPE	STL	STRUCTURE TOP LEVEL
CAT	CATENARY LEVEL	LT	LAMP POST	STP	STAND PIPE
CATV	CABLE TV COVER	Mcy	MACHINERY	SWO	STAY POST
CB	CATCH BASIN	MH	MANHOLE	TB	TELEBOX
CB	CLOSE BOARDED FENCE	MgP	MOORING POST	TC	STATIONARE
CC	CONCRETE COVER	MP	MILE POST	TC	TRAFFIC CONE
CgP	CASTLE GRID	MP	MILE POST	SW	STONE WALL
CH	CHAINAGE	MS	MOTOR SPIN	TBM	TEMPORARY BENCH MARK
CP	CABLE INLET POINT	MU	ELECTRIC MOTOR	TBM	TEMPORARY BENCH MARK
CL	CENTRE LINE	MV	MOTOR VALVE	TCB	TELEPHONE CABINET
CL	CHAIN LINK FENCE	NP	NAME PLATE	TCB	TELEPHONE CABINET
Conc	CONCRETE	OBH	OVERHEAD BRIDGE AREA	TCP	TEMPORARY CONTROL POST
Conc	CONCRETE	OSM	FD BENCH MARK	TEL	TELEGRAPH POLE
Conc Pvg	CONCRETE PAVING	OGO	OVERGROUND CONDUIT	TNL	TARESHOLD LEVEL
CP	CAP	OHC	OVERHEAD CONDUIT	TP	TELEPHONE POLE
CL	CUPING LEVEL	OHC	OVERHEAD CONDUIT	TM	TOILET MACHINE
CR	CRANE	OHL	OVERHEAD LINE	TP	TELEPHONE POLE
CR	CRANE / HOIST	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHP	OVERHEAD PIPELINE	TR	TRAP
CW	CONCRETE WALL	OHT	OVERHEAD TELECOM	TR	TRENCH
DL	DISTILLE BEON	P	POST	UTA	UNABLE TO ACCESS
DP	DRAIN POINT	PC	PEDESTRIAN CAMERA	UTA	UNABLE TO ACCESS
DRG	DRAINS	PG	REGISTRATION CROSSING	UTL	UNABLE TO TRACE
DS	DIRECTION SIGN	PO	PIT OPENING	UTT	UNABLE TO TRACE LARMAG
DS	DIRECTION SIGN	PO	PIT OPENING	UV	UNDERVALVE
EC	ELECTRICITY COVER	PP	PETROL PUMP	UDP	VEHICLE DETECTION PNT
EC	EDGE OF CROWN	PP	PETROL PUMP	VC	VALVE COVER
EOT	END OF TRACE (utility)	PW	PERIMETER	VW	VALVE WHEEL
EP	EARTHING POLE	PY	PELICAN PUFFIN	WB	WATER BOARD
EP	EARTHING POLE	Py	PILLON	WG	WATER GAUGE
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WL	WATER LEVEL
FB	FIBRE OPTIC BOX / BOX	RB	RAIL BUFFER	WM	WATER METER
FC	FOOTBRIDGE	RG	RAIN GAUGE	WPF	WIRE MESH FENCE
FL	FLOOR LEVEL	RM	RAILWAY MARKER	WS	WATER SPRINKLER
FFL	FINISHED FLOOR LEVEL	RMP	RESERVOIR MONITORING PN	WS	WIND SOCK POLE
FH	FIRE HYDRANT	RP	RAILWAY POST	WSR	WATER LEVEL SENSOR
FH	FIRE HYDRANT	RS	ROAD SIGN		
FL	FLAG STAFF	SGO	RAILWAY SIGNAL POST		
FP	FENCE PIN	SGO	SIGNAL POST		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM	HPI	HOT WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
CTV	CATV CABLE	OF	OPTIC FIBRE
	TRACE FROM RECORDS		TRACE FROM RECORDS
CTY	CCTV CABLE	OIL	OIL PIPELINE
	TRACE FROM RECORDS		TRACE FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
	TRACE FROM RECORDS		TRACE FROM RECORDS
	EMPTY DUCT	RC	SURFACE WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
	EARTHING FEATURE	TC	TELECOMMUNICATION CABLE
	TRACE FROM RECORDS		TRACE FROM RECORDS
E	ELECTRIC CABLE	TLR	TELEMETRY CABLE
	TRACE FROM RECORDS	TRA	TRAFFIC SIGNALS
			TRACE FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
	TRACE FROM RECORDS		TRACE FROM RECORDS
FW	FOUL WATER	VAT	VENT
	TRACE FROM RECORDS		TRACE FROM RECORDS
GAS	GAS	W	WATER
	TRACE FROM RECORDS		TRACE FROM RECORDS
GPR	GPR FEATURE	WV	1kV ELECTRIC
	TRACE FROM RECORDS		TRACE FROM RECORDS
	HELIUM FEATURE		REFERENCE TO GPR DATA IN REPORT
	TRACE FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION QL-A1 HORIZONTAL ± 30MM VERTICAL ± 20MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE PIPE
DETECTION QL-B4 HORIZONTAL ±30MM	A UTILITY WHICH IS SUSPECTED TO EXIST BUT WAS NOT DETECTED BY ANY OF THE METHODS AN ASSUMED ROUTE HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE
QL-B3 HORIZONTAL ±30MM±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY
QL-B2 HORIZONTAL ±15MM±10% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES
SITE RECONNAISSANCE QL-D	—
DESKTOP QL-D	—

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

N

Grid	Datum
Local Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

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A	ORIGINAL ISSUE	Jun 22	SM

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Project Manager
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Kilmarnock South

TITLE:
Topographic Survey

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Date: June 2022	Scale: 1:200 @ A0
Drg No: UAR3329_A	Sheet: 9 of 9

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