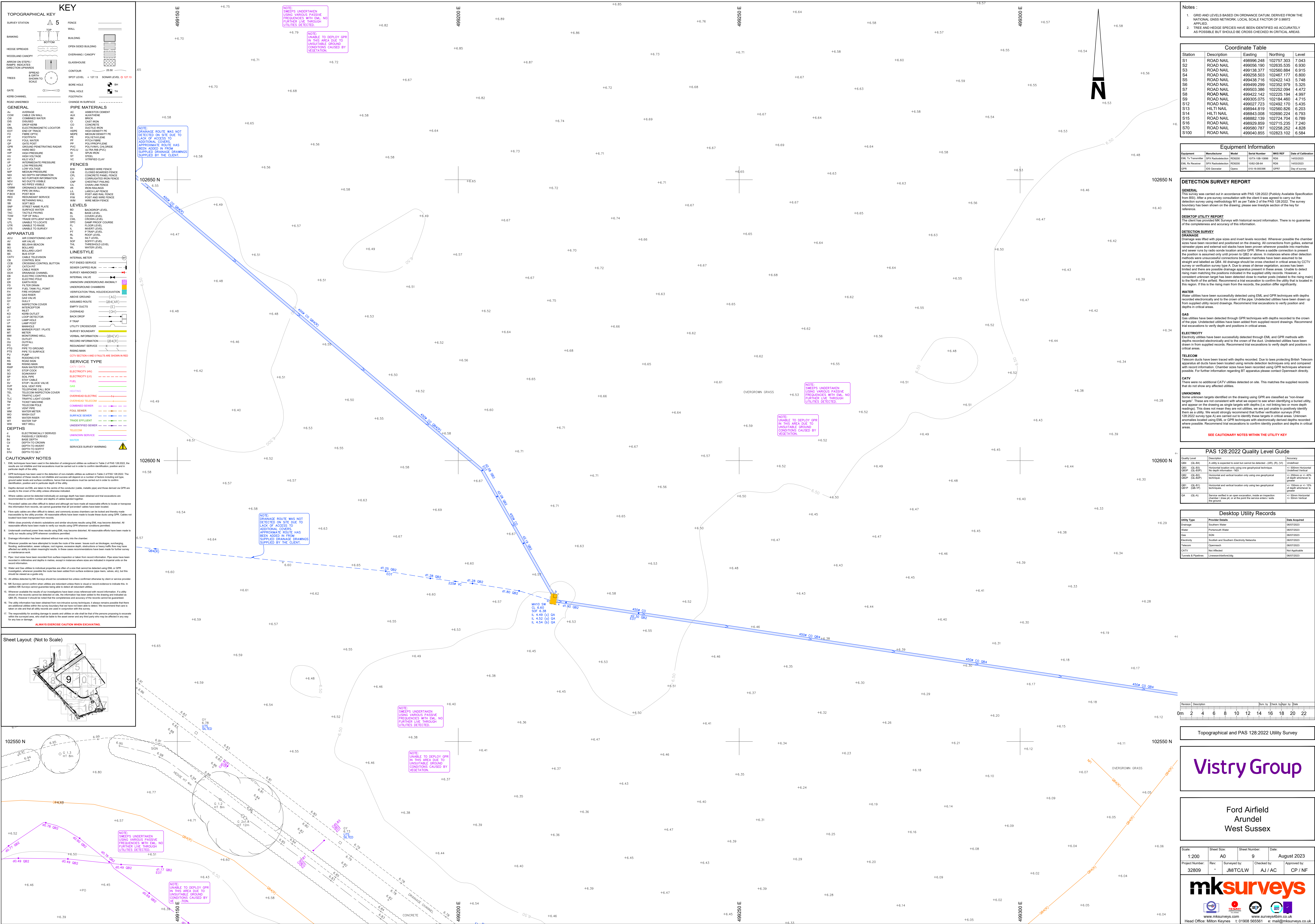
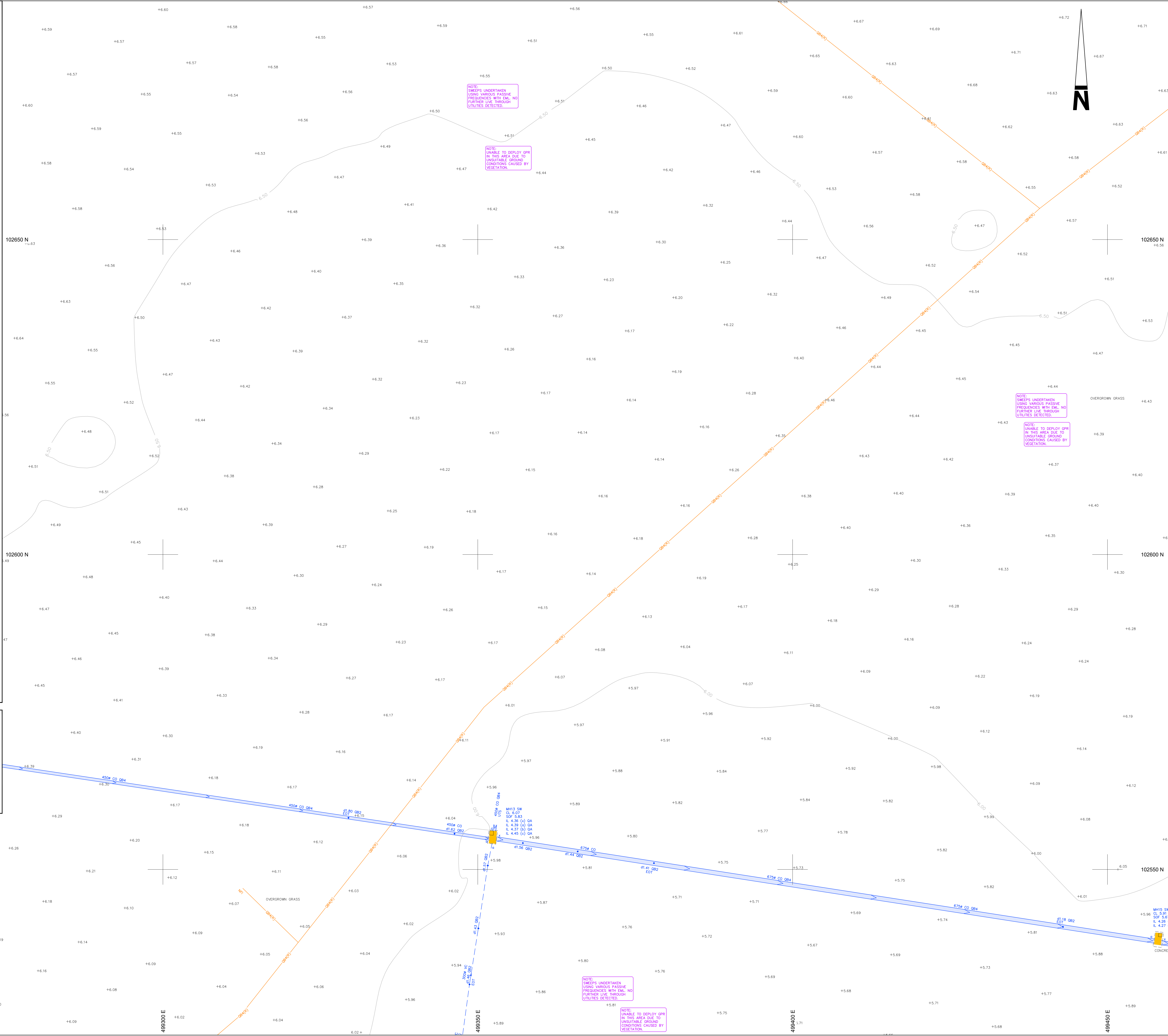
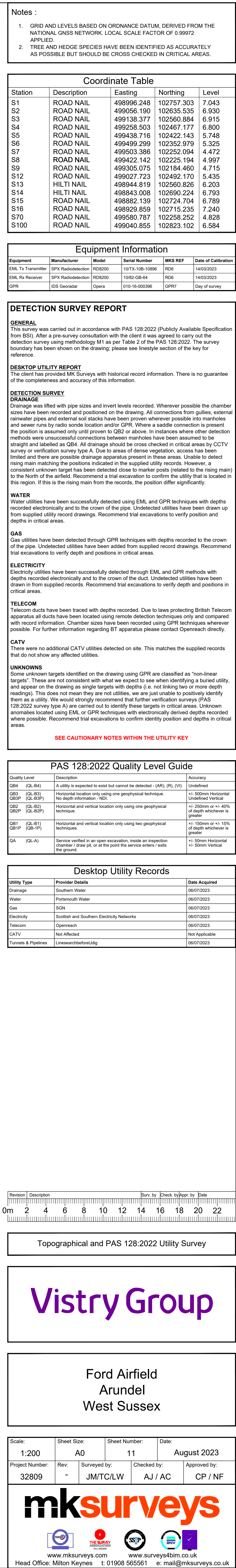
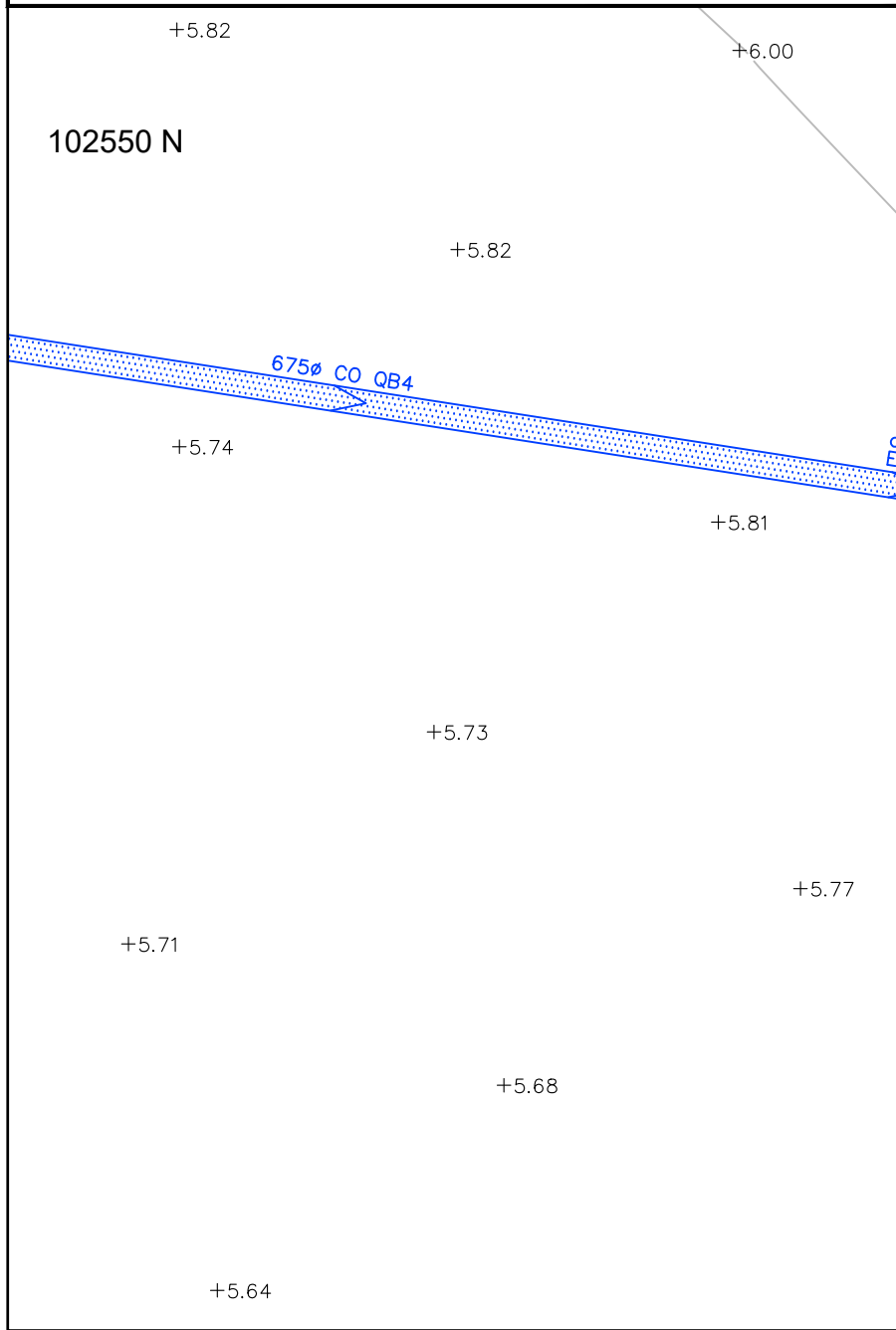


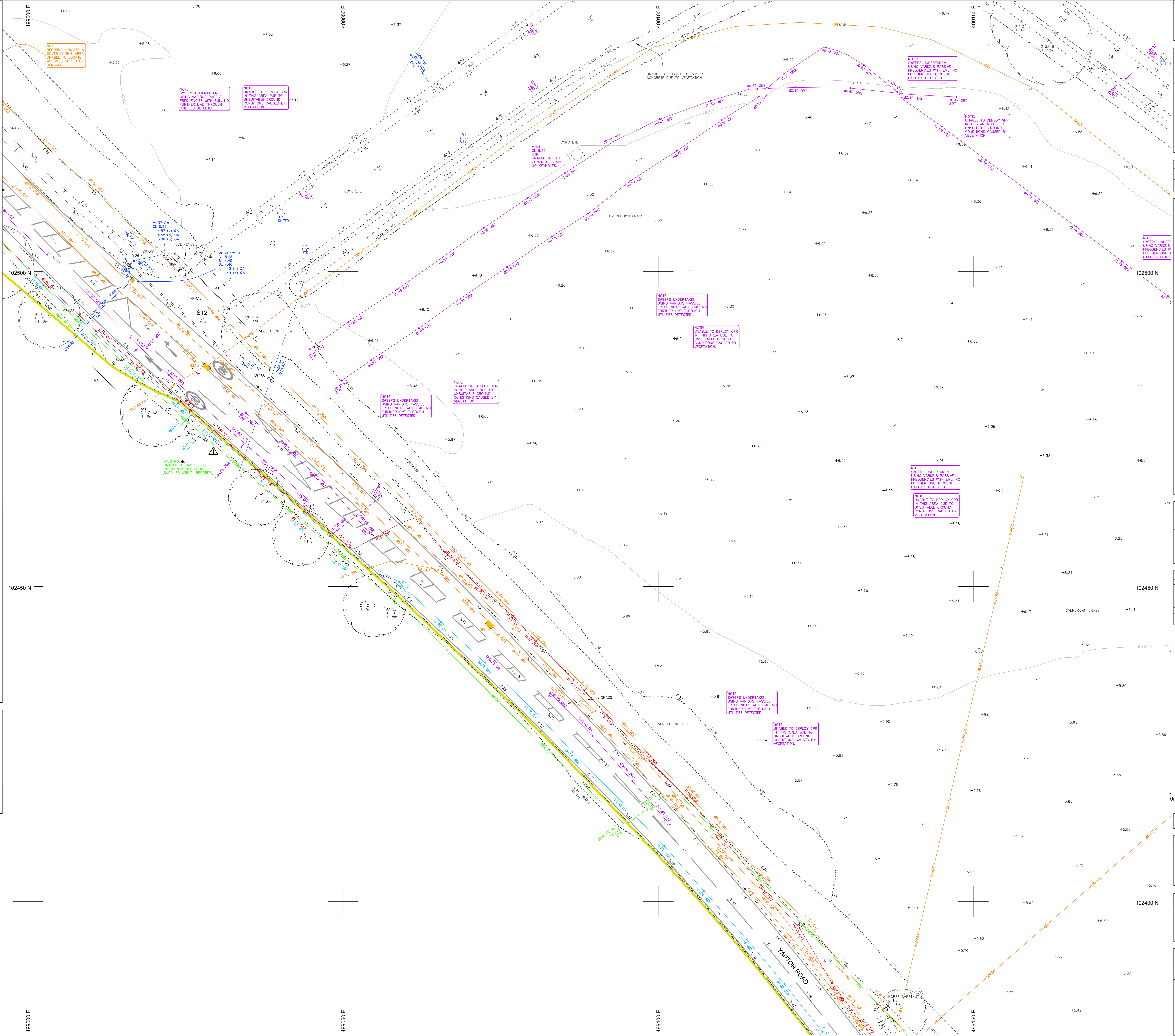
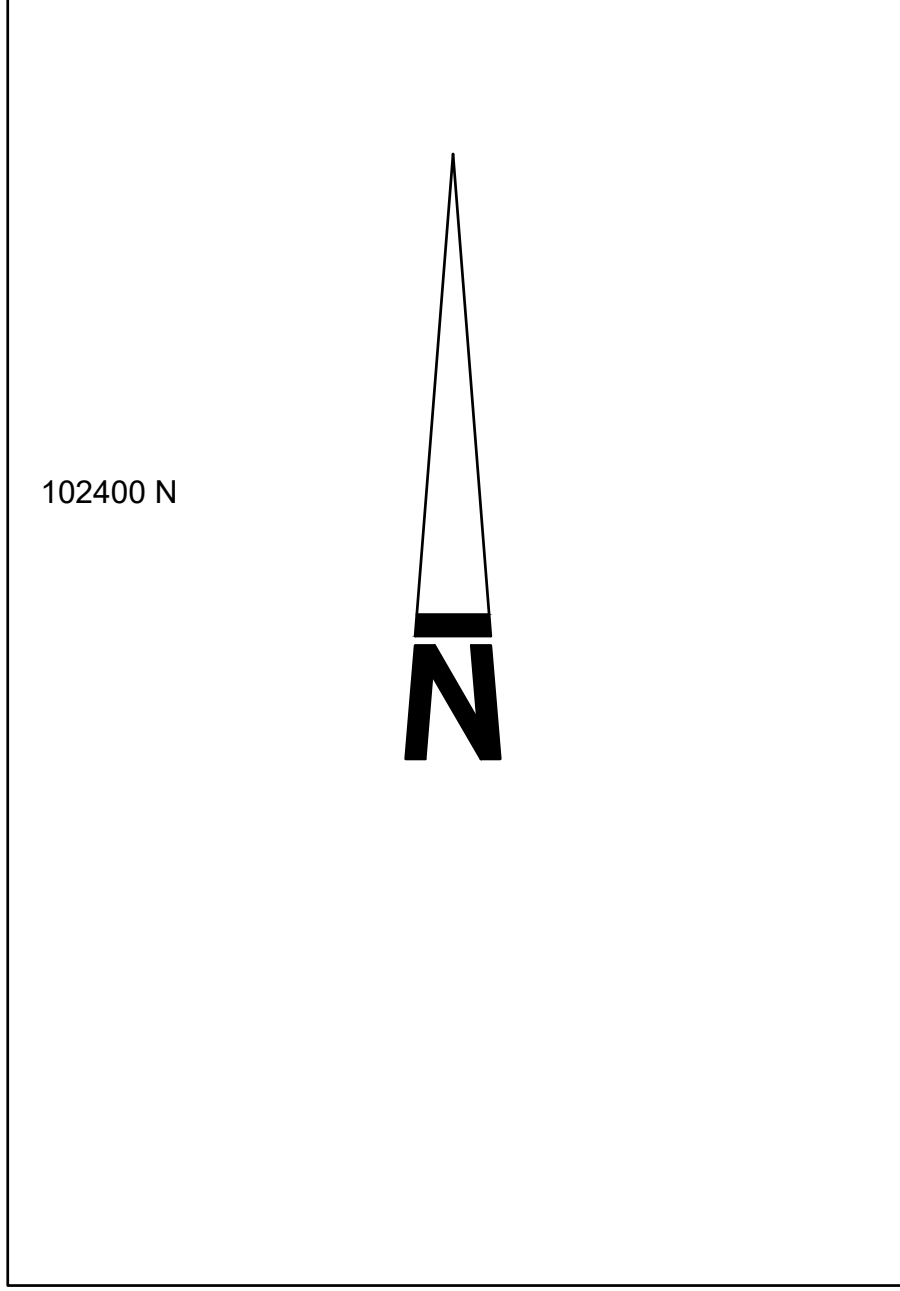
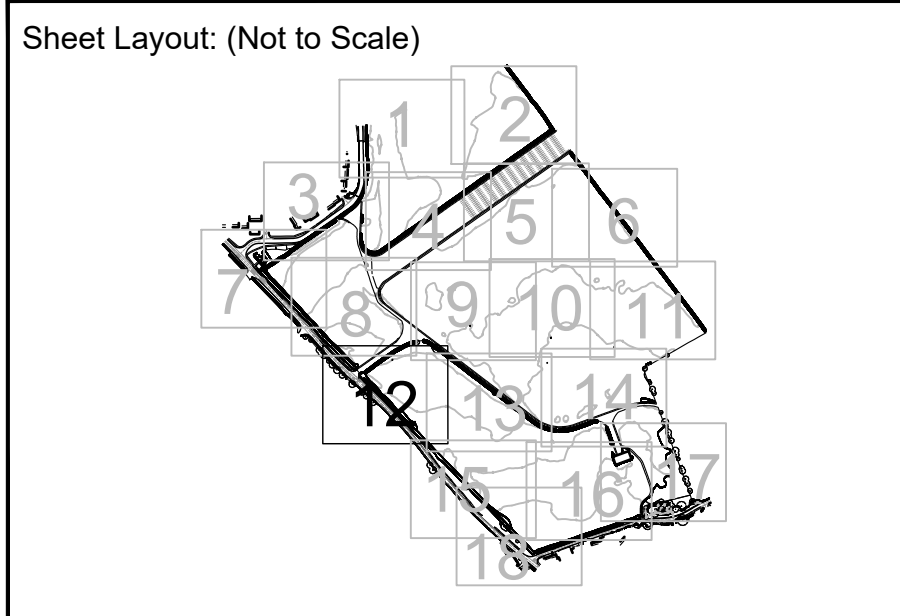
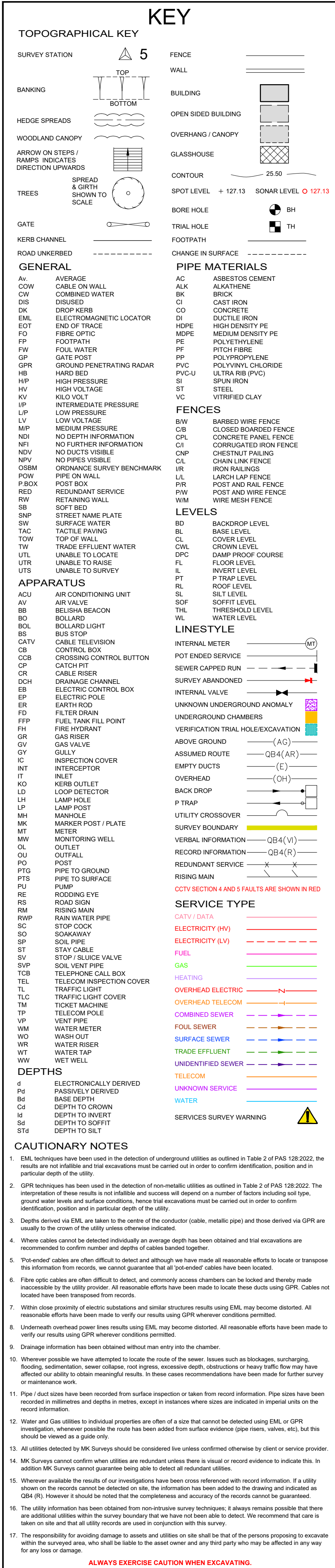




PAS 128:2022 Quality Level Guide			
Quality Level	Description	Assessment	Score
Q1 (GB-1)	As expected to stand on record – LARPs, PIV, PIVs	100% Accuracy	100%
Q2 (GB-2)	Horizontal location only using one geophysical technique	95% Accuracy	95%
Q3 (GB-3)	Horizontal location only using two geophysical techniques	90% Accuracy	90%
Q4 (GB-4)	Horizontal location only using three geophysical techniques	85% Accuracy	85%
Q5 (GB-5)	Horizontal and vertical location only using one geophysical technique	75% Accuracy	75%
Q6 (GB-6)	Horizontal and vertical location only using two geophysical techniques	70% Accuracy	70%
Q7 (GB-7)	Horizontal and vertical location only using three geophysical techniques	65% Accuracy	65%
Q8 (GB-8)	Service worked in an open excavation, based on inspection and/or trial pits, and/or the point to point service exists with the ground	50% Accuracy or less of depth and/or lateral is greater	50%
Q9 (GB-9)		50% Accuracy or less of depth and/or lateral is greater	50%







Notes:

- GRID AND LEVELS BASED ON ORDNANCE DATUM, DERIVED FROM THE NATIONAL GRIDNESS NETWORK. LOCAL SCALE FACTOR OF 0.99972 APPLIED.
- TREE AND HEDGE SPECIES HAVE BEEN IDENTIFIED AS ACCURATELY AS POSSIBLE BUT SHOULD BE CROSS CHECKED IN CRITICAL AREAS.

Coordinate Table				
Station	Description	Eastings	Northing	Level
S1	ROAD NAIL	489986.240	127577.303	7.043
S2	ROAD NAIL	490056.190	126385.535	6.930
S3	ROAD NAIL	498136.377	126580.884	6.915
S4	ROAD NAIL	490447.177	126407.177	6.905
S5	ROAD NAIL	498438.716	126422.148	5.748
S6	ROAD NAIL	498499.299	129235.919	5.325
S7	ROAD NAIL	490503.386	126524.594	4.472
S8	ROAD NAIL	492422.142	122252.194	4.997
S9	ROAD NAIL	490335.075	126184.460	4.715
S10	ROAD NAIL	490492.100	126492.100	4.705
S11	HILTI NAIL	498944.619	125850.820	6.203
S14	HILTI NAIL	498883.108	126090.224	6.793
S15	ROAD NAIL	498842.139	127274.704	6.789
S16	ROAD NAIL	498929.885	127157.233	7.240
S70	ROAD NAIL	495860.787	127258.252	4.828
S100	ROAD NAIL	490480.855	128283.120	6.584

Equipment Information					
Equipment	Manufacturer	Model	Serial Number	MKS REF	Date of Calibration
EMC Tx Transmitter	SPX Radiodetection	RDE6200	10/TX-105-10396	R06	14/03/2023
EMC Rx Receiver	SPX Radiodetection	RDE6200	10/R2-CB-64	R06	14/03/2023
GPR	IDS Geosolar	Opena	010-16-000098	GPR7	Day of survey

DETECTION SURVEY REPORT

GENERAL

This survey was carried out in accordance with PAS 128:2022 (Publicly Available Specification from BSI). After a pre-survey consultation with the client it was agreed to carry out the detection survey using methodology M1 as per Table 2 of the PAS 128:2022. The survey boundary has been shown on the drawing; please see linestyle section of the key for reference.

DESKTOP UTILITY REPORT
The client has provided MK Surveys with historical record information. There is no guarantee of the completeness and accuracy of this information.

DRAINAGE was surveyed with pipe sizes and invert levels recorded. Wherever possible the chamber sizes have been recorded and positioned on the drawing. All connections from gullies, external rainwater pipes and external soil stacks have been drawn wherever possible into manholes. Connections to the sewer by side drains and/or French drains have been drawn. To present the position is assumed only until proven to Q82 or Q83. Where a side drain or French drain methods were unsuccessful connections between manholes have been assumed to be straight and labelled as QB4. All drainage should be crossed checked in critical areas by CCTV survey or verification survey QB4. A due to areas of dense vegetation, access has been limited and the position of drainage apparatus present in these areas. Unable to detect rising man matches, the positions indicated in the supplied utility records. However, a consistent unknown target has been detected close to marker posts (related to the rising man) to the North of the area. Recommended a trial excavation to confirm the utility that is located in this region. If this is the rising man from the records, the position offered significantly.

WATER
Water utilities have been successfully detected using EML and GPR techniques with depths recorded electronically and to the crown of the pipe. Undetected utilities have been drawn up from supplied utility record drawings. Recommend trial excavations to verify position and depths in critical areas.

GAS
Gas utilities have been detected through GPR techniques with depths recorded to the crown of the pipe. Undetected utilities have been added from supplied record drawings. Recommend trial excavations to verify depth and positions in critical areas.

Electricity utilities have been successfully detected through EML and GPR methods with depths recorded electronically and to the crown of the duct. Undetected utilities have been drawn in from supplied records. Recommend trial excavations to verify depth and positions in critical areas.

Telecom ducts have been traced with depths recorded. Due to laws protecting British Telecom apparatus all ducts have been located using remote detection techniques only and compared with record information. Chamber sizes have been recorded using GPR techniques wherever possible. For further information regarding BT apparatus please contact Openreach directly.

CATV
There were no additional CATV utilities detected on site. This matches the supplied records that do not show any affected utilities.

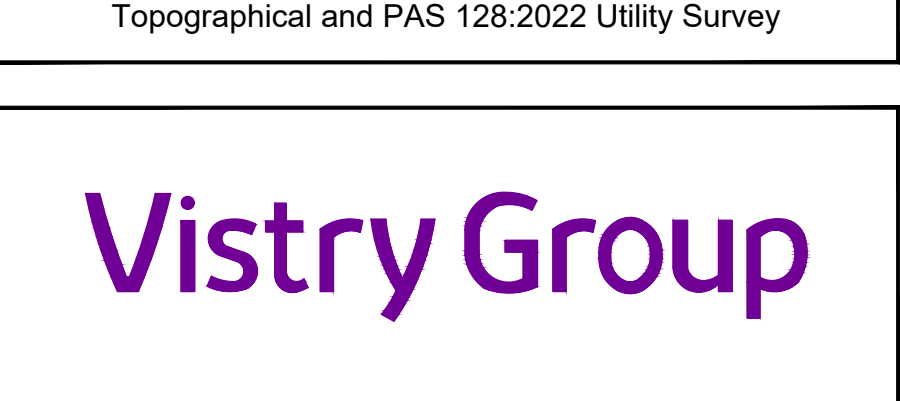
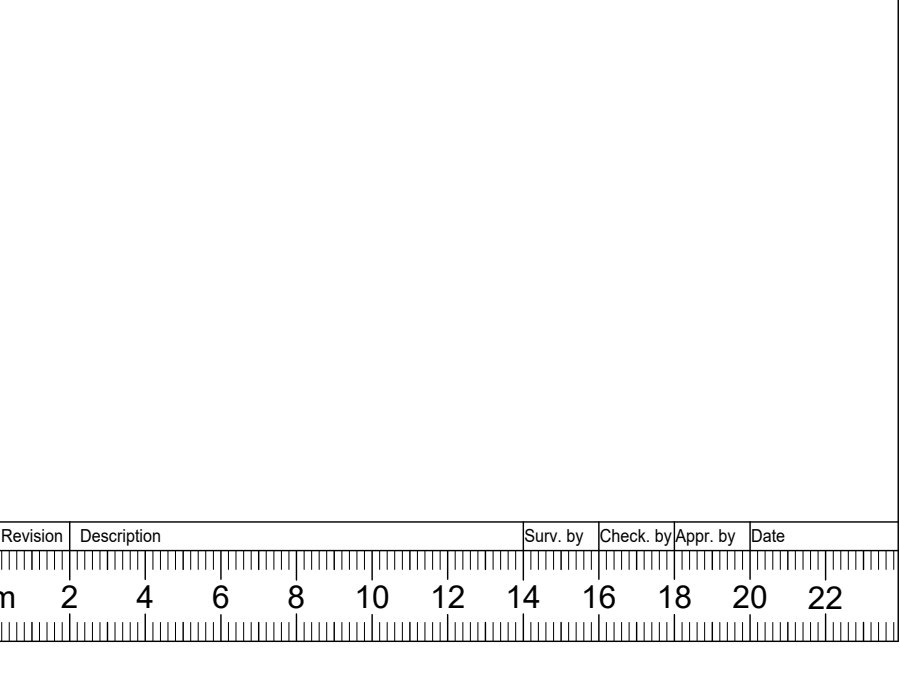
UNKNOWN

Some unknown targets identified on the drawing using GPR are classified as "non-linear targets". These are not consistent with what we expect to see when identifying a buried utility, and appear on the drawing as single targets with depths (i.e. not linking two or more depth readings). This does not mean they are not utilities, we are just unable to positively identify them as a utility. We would strongly recommend that further verification surveys (PAS 128-2022 survey type A) be carried out to identify these targets in critical areas. Unknown anomalies located using EML or GPR techniques with electronically derived depths recorded where possible. Recommend trial excavations to confirm identity position and depths in critical areas.

SEE CAUTIONARY NOTES WITHIN THE UTILITY KEY

PAS 128:2022 Quality Level Guide		
Quality Level	Description	Accuracy
QB4 (QL-B4)	A utility is expected to exist but cannot be detected - [AR], [R], [V]	Uncertain
QB3 (QL-B3)	Horizontal location only using one geophysical technique	+/- 500mm Horizontal
QB2P (QL-B2P)	No depth information - [AR]	Uncertain
QB2 (QL-B2)	Horizontal and vertical location only using one geophysical technique	+/- 250mm or +/- 40% of depth whichever is greater
QB2P (QL-B2P)	Horizontal and vertical location only using two geophysical techniques	+/- 100mm or +/- 10% of depth whichever is greater
QB1P (QL-B1P)	Horizontal and vertical location only using two geophysical techniques	+/- 100mm or +/- 10% of depth whichever is greater
QA (QL-A)	Service revealed in an open excavation, inside an inspection chamber / manhole or at the point the service enters / exits the ground	+/- 50mm Horizontal +/- 50mm Vertical

Desktop Utility Records		
Utility Type	Provider Details	Date Acquired
Drainage	Southern Water	06/07/2023
Water	Portsmouth Water	06/07/2023
Gas	SGN	06/07/2023
Electricity	Scottish and Southern Electricity Networks	06/07/2023
Telecom	Openreach	06/07/2023
CATV	Not Affected	Not Applicable
Tunnels & Pipelines	Lineasearch@bentley.co.uk	06/07/2023



Ford Airfield
Arundel
West Sussex

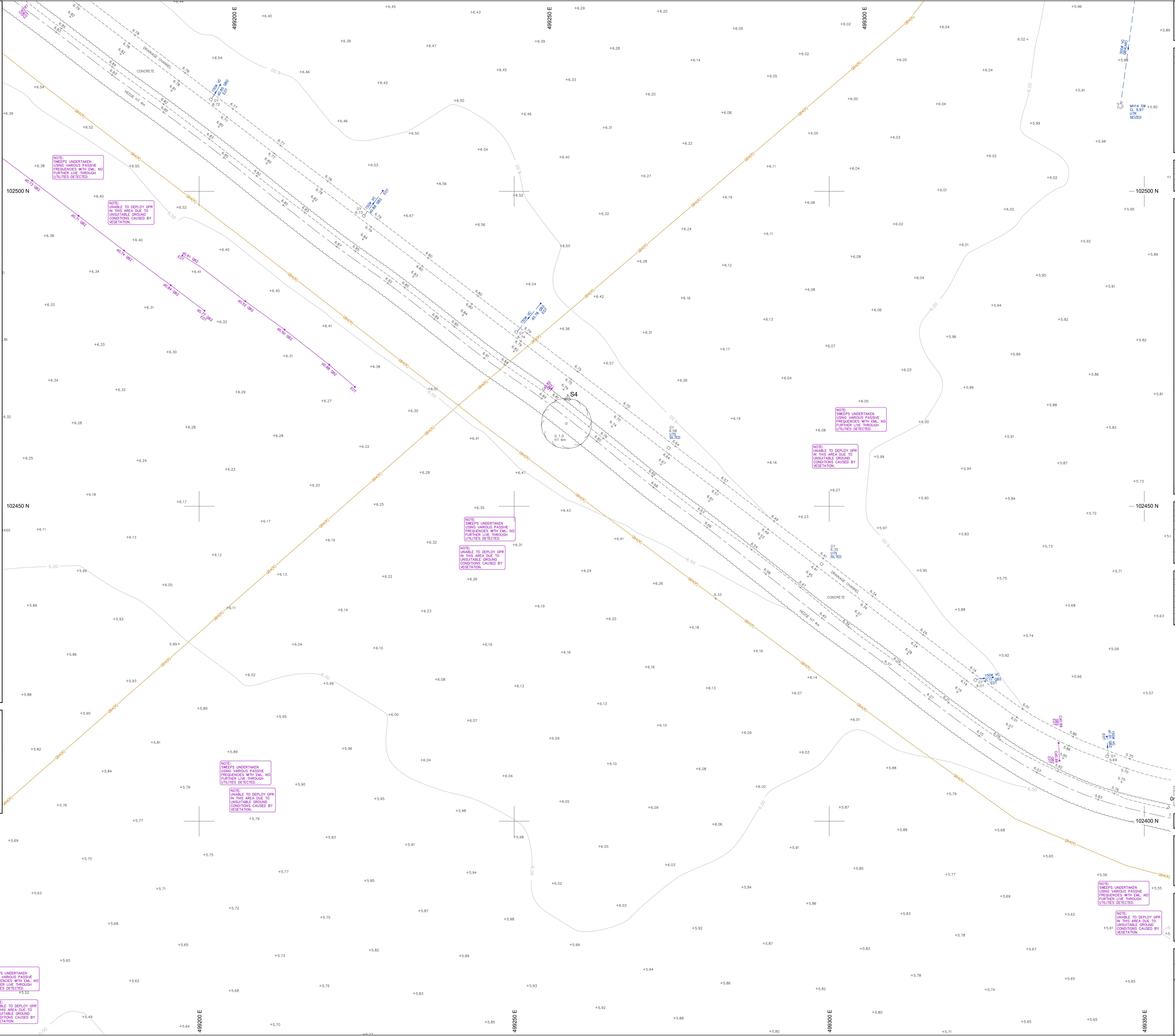
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Project Number:	Rev:	Surveyed by:	Checked by:	Approved by:
32809	-	JM/TC/LW	AJ / AC	CP / NF

mksurveys

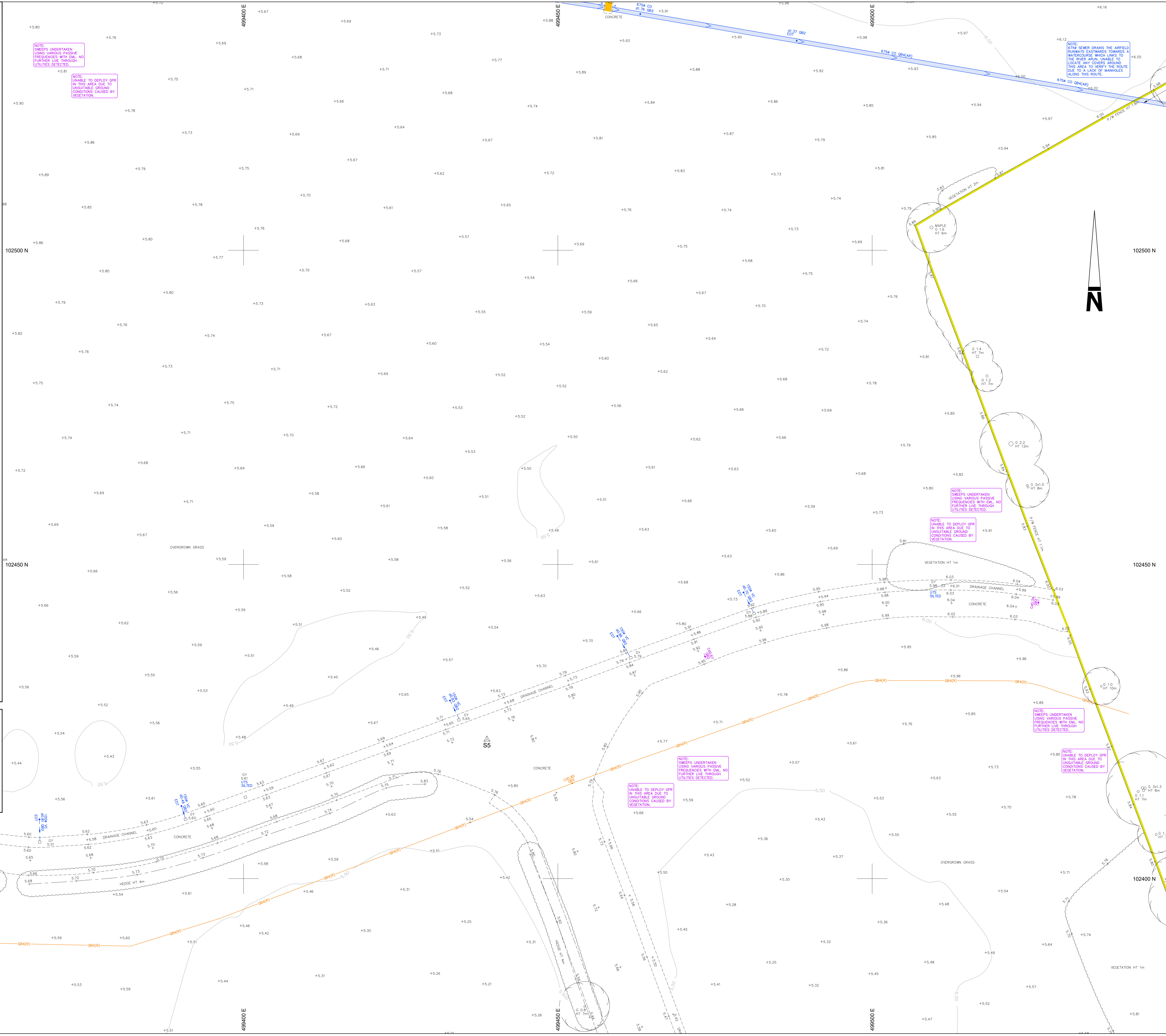
   

www.mksurveys.com www.surveys4bim.co.uk

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