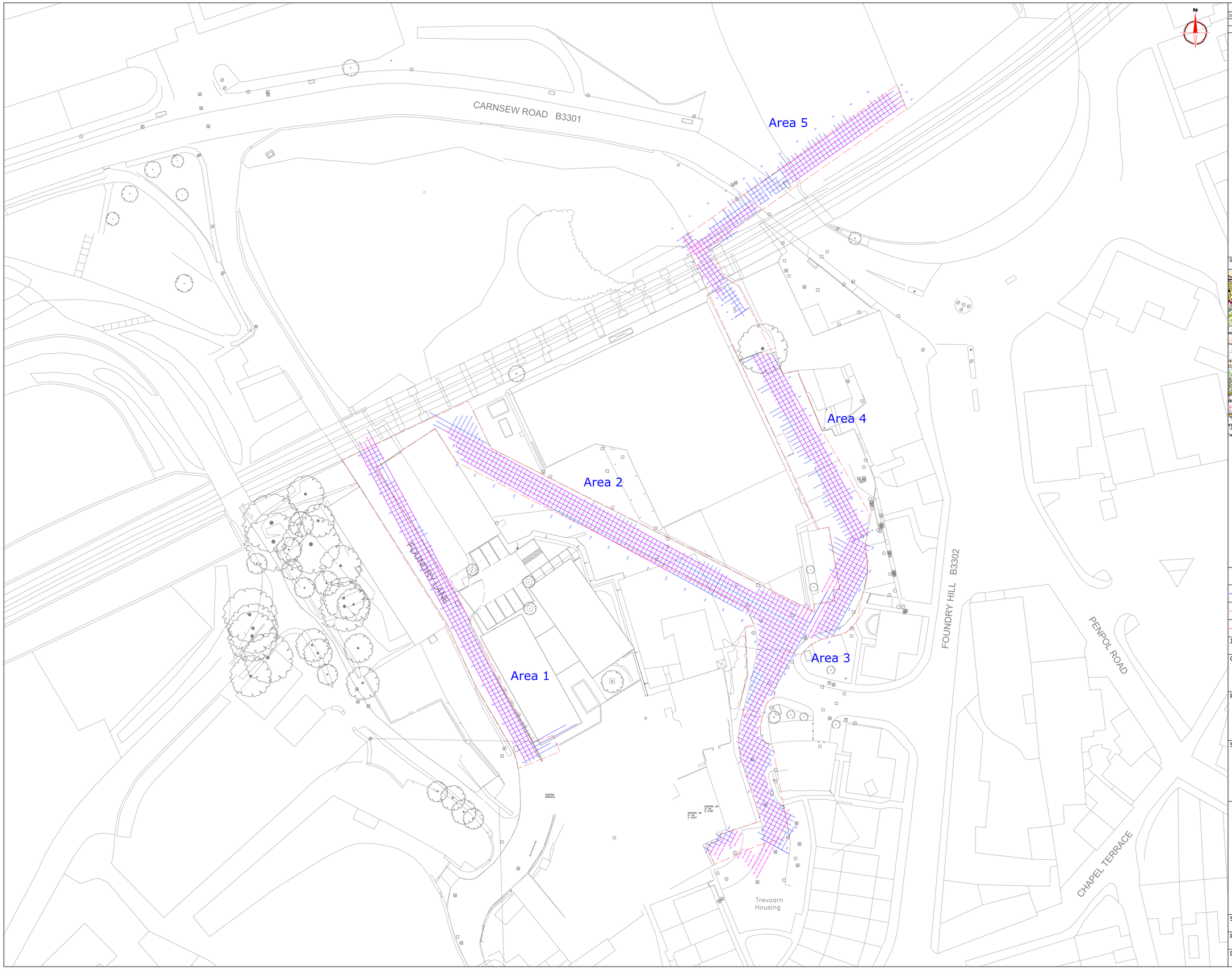
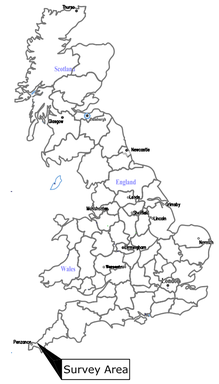


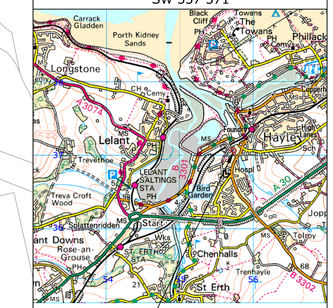
Amendments

Issue No.	Date	Description
-	-	-
		-



Site centred on NGR

SW 557 371



Survey Area

KEY

——	400MHz GPR traverse
- - -	200MHz GPR traverse
— —	Radiodetection survey area

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

SITE LOCATION AND PLOT OF SURVEYED AREAS

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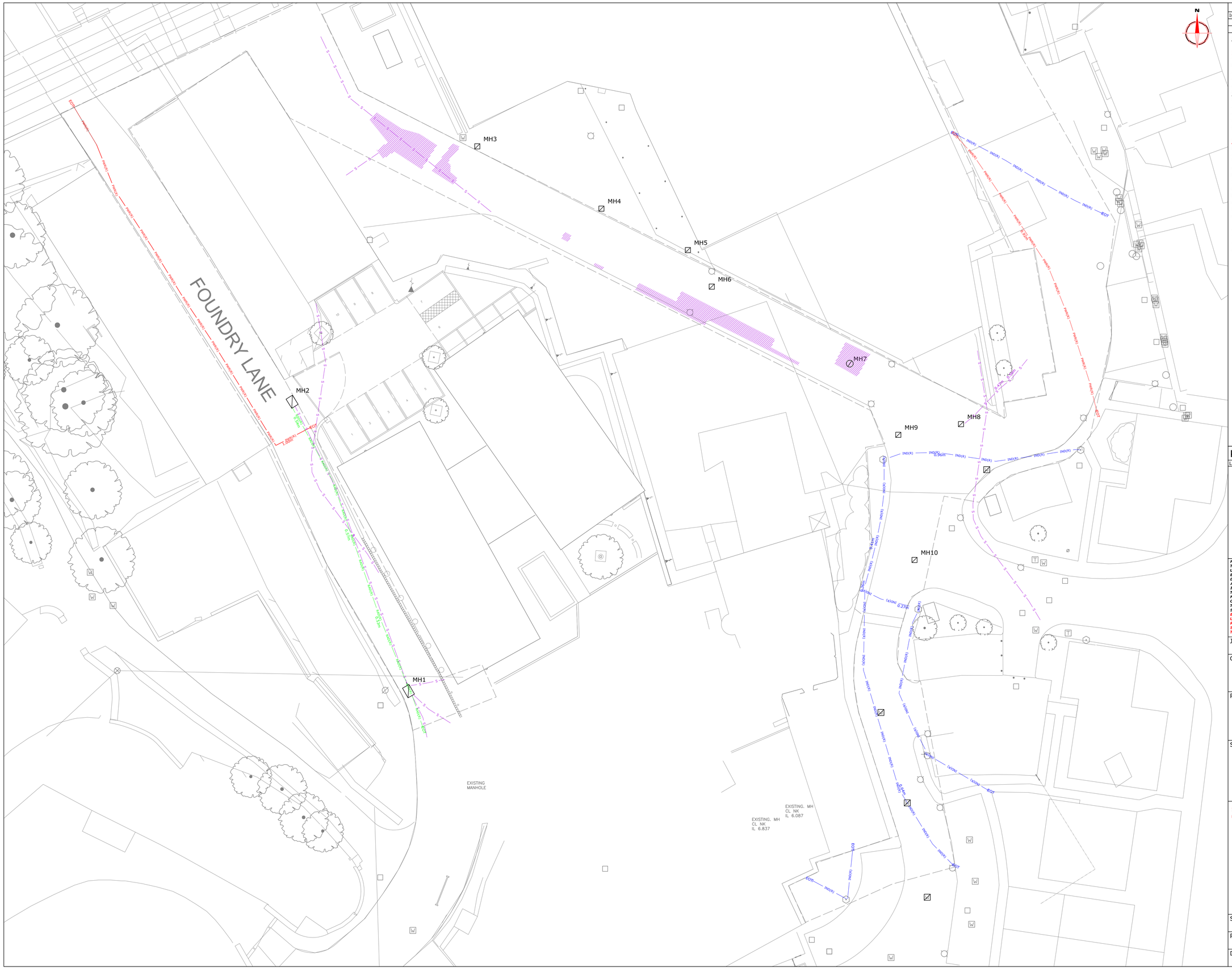
Scale 1:400 (0m 4 8 12 16 20m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
NOV 2005	HH	01



Amendments

Issue No.	Date	Description
-	-	-
		-

RADIODETECTION-RD433
Two methods:
ACTIVE: Artificially generated signals from an external source detect metallic services including water and BT. External signals can be applied by either; INDUCTION: of a radiating signal from the internal antenna to any conductors nearby.This method is used when inspection chambers are not accessible for all services, or DIRECT CONNECTION: of a 8/33/65 kHz signal via valves/inspection chambers. Rodding a sonde is an alternative method used to detect pipes where inspection chambers are present. Sometimes the directly applied signal can jump to adjacent services, allowing them to be detected.

PASSIVE: Naturally occuring signals on a conductor provide information of services present. Two modes used are either RADIO: which detects re-radiated radio energy from conductors, or POWER: Current running through a metallic service causes an electromagnetic field that can be detected. This is usually in the frequency range of 50 to 60 Hz. If no current flows through the service no electromagnetic field is created and this method cannot be used to trace the service. Radio mode depends on naturally occuring radiowaves through the survey area. If the site is particularly quiet no signal may be re-radiated by the services.

All depths are measured to the centre of the service, or to the centre of the Sonde if this is being used. The signals detected by Radio mode do not allow a depth estimate to be calculated.

KEY

LINETYPES AND ABBREVIATIONS

RAD(R)	SERVICE IDENTIFIED IN RADIO MODE
PWR(R)	SERVICE IDENTIFIED IN POWER MODE
IND(R)	SERVICE IDENTIFIED IN INDUCED MODE
S	SERVICE SCAR
	RADIODETECTION SURVEY EXTENT
EOT	END OF TRACE
0.26m	APPROXIMATE DEPTH OF COVER (m)

N.B.
THE UTILITY SURVEY INFORMATION ON THIS PLAN HAS BEEN PRODUCED USING GPR AND ELECTRO-MAGNETIC LOCATING TECHNIQUES. ALTHOUGH BEING THE MOST ACCURATE AVAILABLE, SIGNALS ARE SUSCEPTIBLE TO DISTORTION ON THE SURFACE ESPECIALLY IN CONGESTED AREAS. THERE MAY ALSO BE NON-METALLIC SERVICES AND METALLIC SERVICES PRODUCING INSUFFICIENT SIGNALS FOR ACCURATE LOCATION USING ELECTRO-MAGNETIC TECHNIQUES. WHILST GPR SHOULD DETECT BOTH METALLIC AND NON-METALLIC SERVICES, INDIVIDUAL SERVICES WITHIN CONGESTED AND COMPLEX AREAS MAY BE OBSCURED. WHILST EVERY EFFORT HAS BEEN MADE TO PRODUCE AN ACCURATE PLAN OF THE BURIED SERVICES WITHIN THE SURVEY AREA, CRUCIAL DIMENSIONS AND DEPTHS SHOULD BE CHECKED.
EXTREME CAUTION SHOULD BE TAKEN WHEN ANY EXCAVATION IS UNDERTAKEN - THE INFORMATION CONTAINED WITHIN THIS PLAN MAY NOT REPRESENT THE TOTAL NUMBER OF SERVICES CONTAINED WITHIN THE SURVEY AREA. HEALTH AND SAFETY GUIDELINES SHOULD BE FOLLOWED PRIOR TO EXCAVATION.

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

RADIODETECTION
SOUTH

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GEOPHYSICS FOR ARCHAEOLOGY AND ENGINEERING
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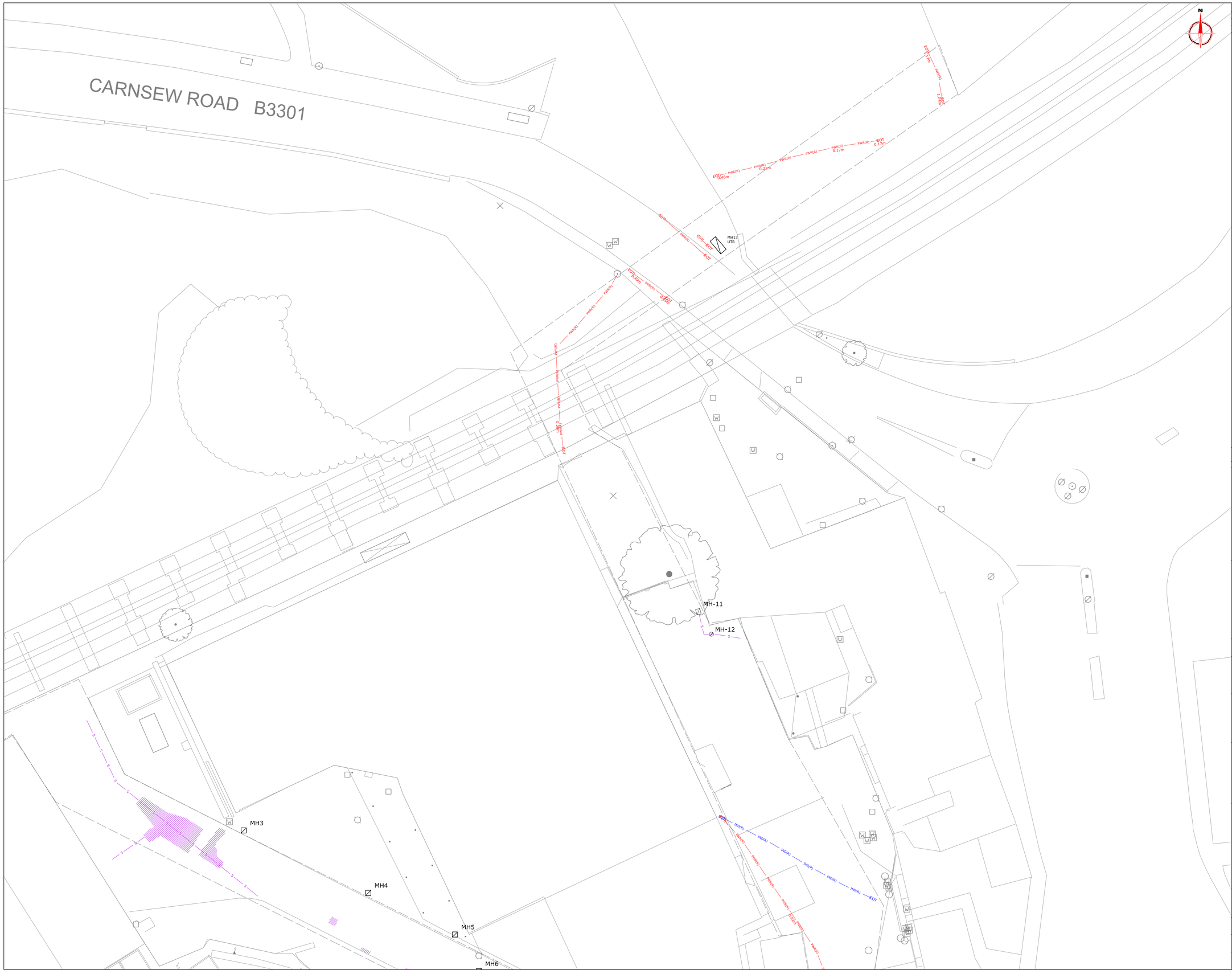
REGISTERED ORGANISATION IFA

Scale	Plot	Checked by	Issue No.
1:200 (0m 2 4 6 8 10m)	A1	PPB	01
Date	Drawn by	Figure No.	
NOV 2005	HH	02	



Amendments

Issue No.	Date	Description
-	-	-
		-

RADIODETECTION-RD433
Two methods:
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KEY

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S	SERVICE SCAR
	RADIODETECTION SURVEY EXTENT
EOT	END OF TRACE
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N.B.
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Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

RADIODETECTION
NORTH

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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
NOV 2005	HH	03

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Abstraction

	Strong Discrete
	Weak Discrete
	Strong Complex
	Weak Complex
	Point Diffraction
	Broad Crested
	Strong Planar
	Weak Planar
	Conductive Surface
	Inclined Event
0.25	Depth to top of feature (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR ABSTRACTION
400MHz SOUTH

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GEOPHYSICS FOR ARCHAEOLOGY AND ENGINEERING
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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
NOV 2005	HH	04

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Abstraction

	Strong Discrete
	Weak Discrete
	Strong Complex
	Weak Complex
	Point Diffraction
	Broad Crested
	Strong Planar
	Weak Planar
	Conductive Surface
	Inclined Event
0.25	Depth to top of feature (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR ABSTRACTION
400MHz NORTH

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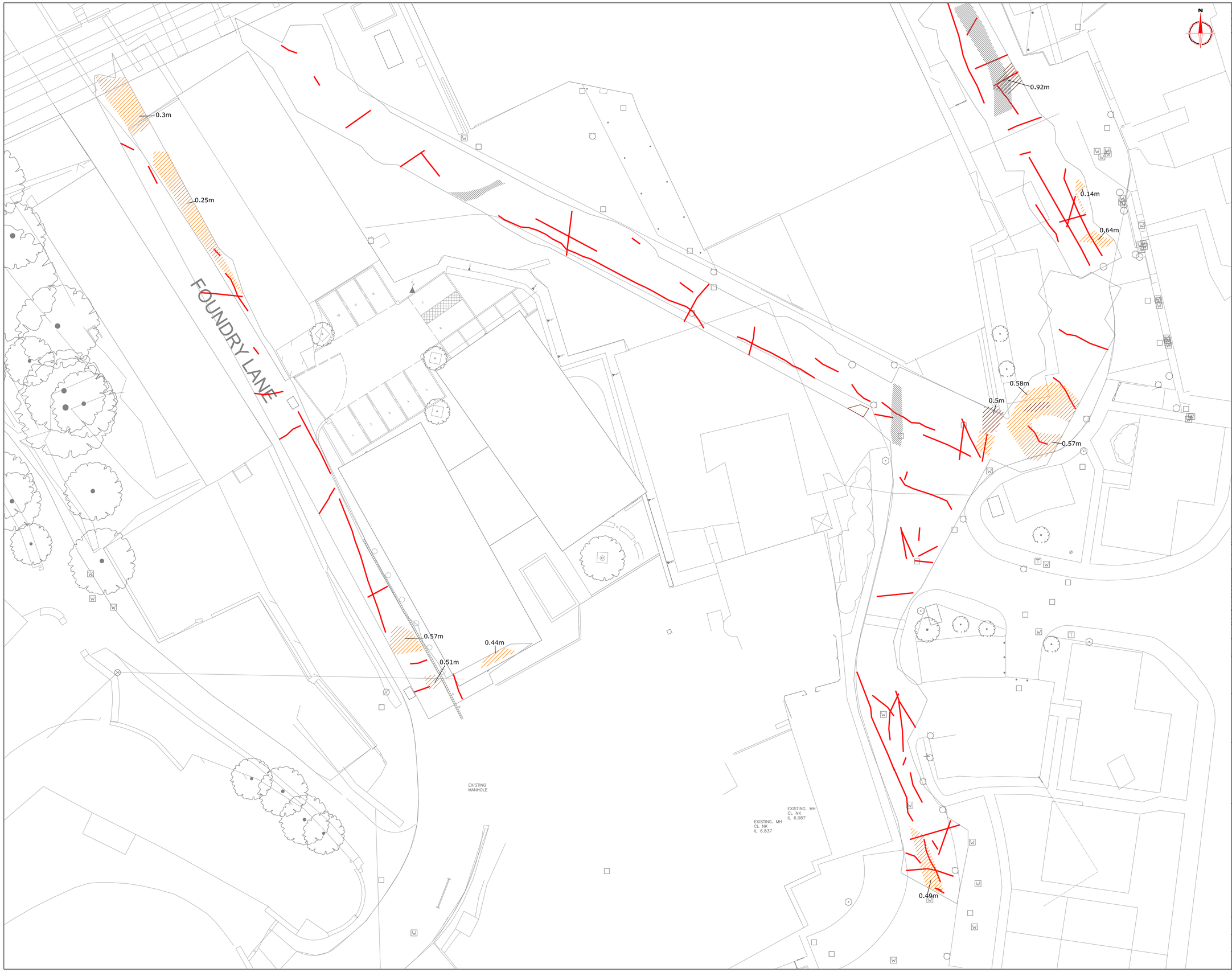
Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	HH	05



Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Interpretation

	Possible service
	Possible service trench
	Strong complex anomaly - possible structural debris of archaeological origin
	Weak complex response - area of ground disturbance of modern or archaeological origin
	Inclined event - area of ground disturbance of modern or archaeological origin
0.36m	Approximate depth to top of anomaly (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR INTERPRETATION 400MHz
SOUTH

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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	HH/NG	06

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Interpretation

	Possible service
	Possible service trench
	Strong complex anomaly - possible structural debris of archaeological origin
	Weak complex response - area of ground disturbance of modern or archaeological origin
	Inclined event - area of ground disturbance of modern or archaeological origin
	Strong discrete anomaly- possible structural remains
0.36m	Approximate depth to top of anomaly (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR INTERPRETATION 400MHz
NORTH

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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
NOV 2005	HH/NG	07

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Abstraction

	Strong Discrete
	Weak Discrete
	Strong Complex
	Weak Complex
	Point Diffraction
	Broad Crested
	Strong Planar
	Weak Planar
	Conductive Surface
	Inclined Event
0.25	Depth to top of feature (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR ABSTRACTION
200MHz SOUTH

STRATASCAN™
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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	NG	08

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Abstraction

	Strong Discrete
	Weak Discrete
	Strong Complex
	Weak Complex
	Point Diffraction
	Broad Crested
	Strong Planar
	Weak Planar
	Conductive Surface
→	Inclined Event
0.25	Depth to top of feature (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR ABSTRACTION
200MHz NORTH

STRATASCAN™
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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	NG	09

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Interpretation

	Possible service
	Possible service trench
	Strong complex anomaly - possible structural debris of archaeological origin
	Weak complex response - area of ground disturbance of modern or archaeologlcal origin
	Inclined event - area of ground disturbance of modern or archaeological origin
0.36m	Approximate depth to top of anomaly (m)

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR INTERPRETATION 200MHz
SOUTH

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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	HH/NG	10

CARNSEW ROAD B3301

0.31m
0.50m
0.34m
0.72m
0.62m
0.2m
2.11m
0.1m
2.14m
0.24m
0.04m

N

Amendments

Issue No.	Date	Description
-	-	-
		-

Radar Interpretation

	Possible service
	Possible service trench
	Strong complex anomaly - possible structural debris of archaeological origin
	Weak complex response - area of ground disturbance of modern or archaeological origin
	Inclined event - area of ground disturbance of modern or archaeological origin
0.36m	Approximate depth to top of anomaly (m)

Job No. 2081

Survey Date NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

GPR INTERPRETATION 200MHz
NORTH

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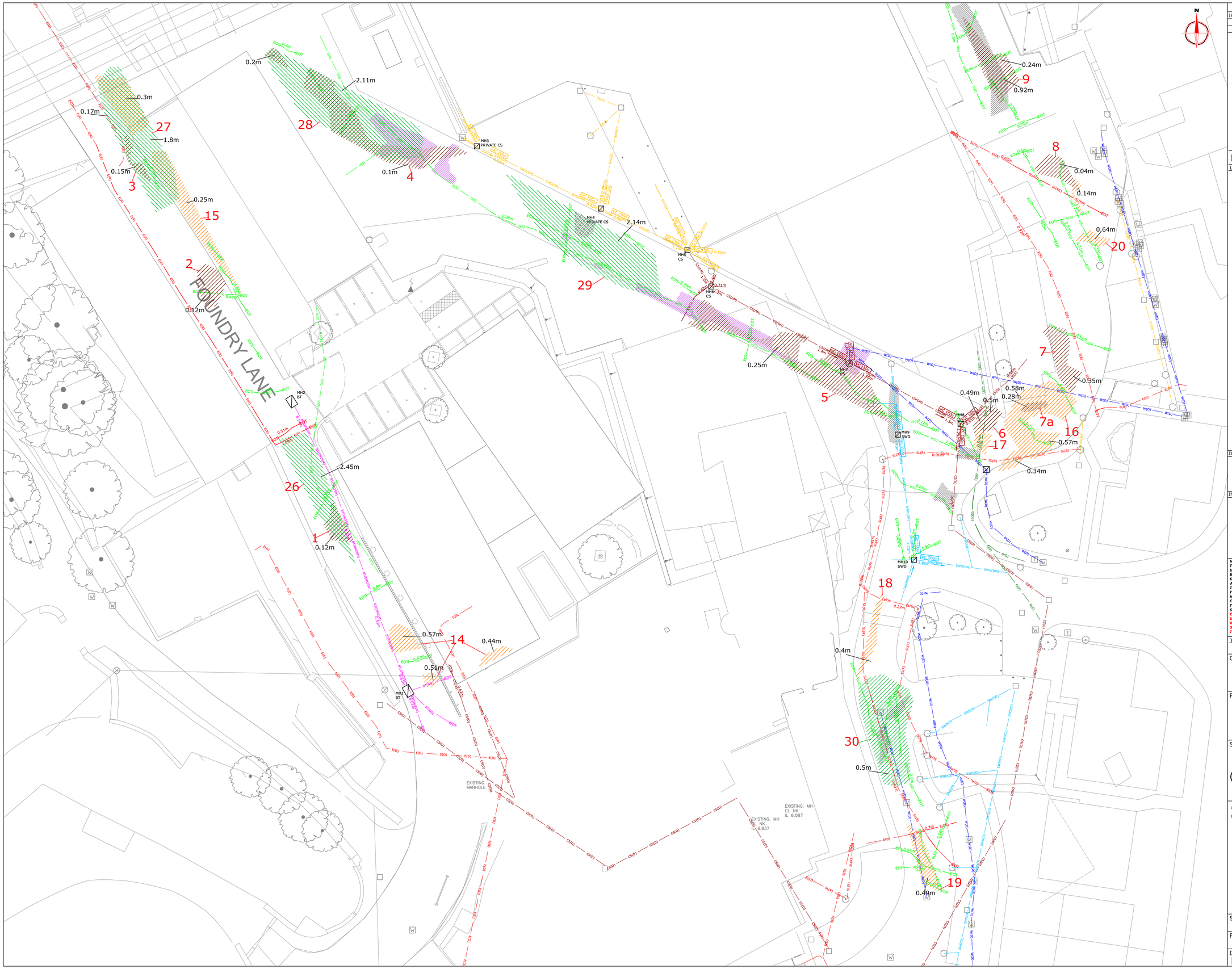
Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	HH/NG	11



Amendments

Issue No.	Date	Description
-	-	-
		-

KEY

LINETYPES AND ABBREVIATIONS

BT	TELECOMMUNICATIONS (BT)
CATV	TELECOMMUNICATIONS (CATV)
FO	TELECOMMUNICATIONS (FIBRE OPTIC)
G	GAS
E	ELECTRIC
SL	STREET LIGHTING
W	WATER
FH	FIRE HYDRANT
SWD	SURFACE WATER DRAINAGE
SWD	SURFACE WATER DRAINAGE (PRIVATE)
FWD	FOUL SEWER
FWD	FOUL SEWER (PRIVATE)
CS	COMBINED SEWER
	COMBINED SEWER (PRIVATE)
	FOUL SEWER (RISING MAIN)
DUCT	DUCT (UNOCCUPIED)
U	UNKNOWN
	SERVICE SCAR
	RADIODETECTION SURVEY EXTENT
	POSSIBLE SERVICE TRENCH
	Strong complex anomaly - possible structural debris of modern or archaeological origin
	Weak complex anomaly - areas of ground disturbance of modern or archaeological origin
	Inclined event - areas of ground disturbance of modern or archaeological origin
	Strong discrete anomaly - possible structural remains
17	GPR anomaly
	DIRECTION OF FLOW
EOT	END OF TRACE
UTR	UNABLE TO RAISE
RE	RODDING EYE/ INSPECTION CHAMBER/ MANHOLE

DATA SOURCE		MATERIAL TYPE	
D	RECORD DRAWING	ST	STEEL
R	RADIODETECTION	DI	DUCTILE IRON
G	GPR	CON	CONCRETE
E	EM DATA	PE	POLYETHYLENE
S	SCAR	VC	VITRIFIED CLAY
M	MANHOLE/VALVE POSITION	DUCTS (P)	PLASTIC DUCT
		DUCTS (VC)	VITRIFIED CLAY DUCT

INTERPRETED LINE INFORMATION (EXAMPLE)

N.B.
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Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

FINAL INTERPRETATION (GPR AND RADIODETECTION) SOUTH

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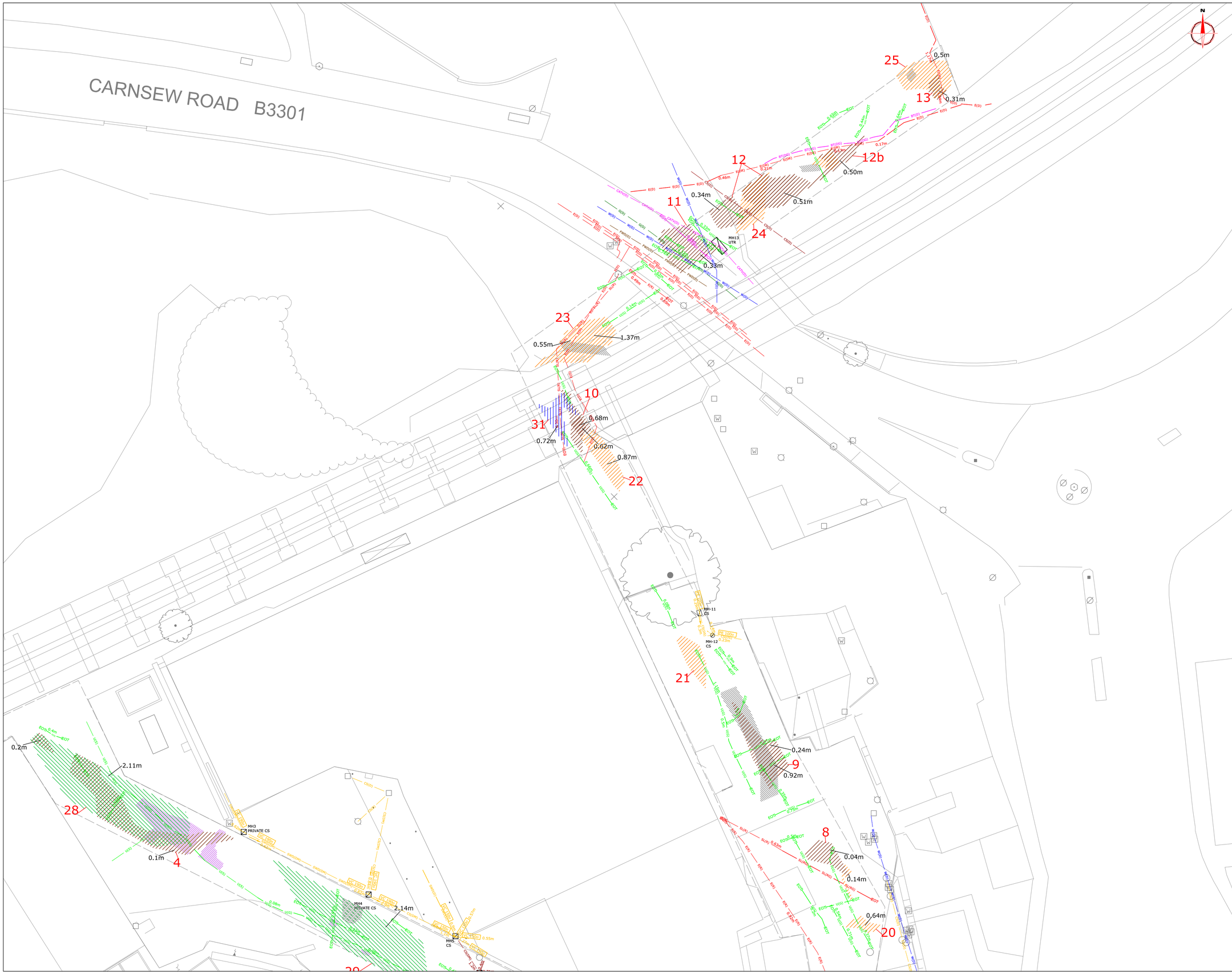
Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
NOV 2005	HH	12



Amendments

Issue No.	Date	Description
-	-	-
		-

KEY

LINETYPES AND ABBREVIATIONS

BT	TELECOMMUNICATIONS (BT)
CATV	TELECOMMUNICATIONS (CATV)
FO	TELECOMMUNICATIONS (FIBRE OPTIC)
G	GAS
E	ELECTRIC
SL	STREET LIGHTING
W	WATER
FH	FIRE HYDRANT
SWD	SURFACE WATER DRAINAGE
SWD	SURFACE WATER DRAINAGE (PRIVATE)
FWD	FOUL SEWER
FWD	FOUL SEWER (PRIVATE)
CS	COMBINED SEWER
	COMBINED SEWER (PRIVATE)
	FOUL SEWER (RISING MAIN)
DUCT	DUCT (UNOCCUPIED)
U	UNKNOWN
	SERVICE SCAR
	RADIODETECTION SURVEY EXTENT
	POSSIBLE SERVICE TRENCH
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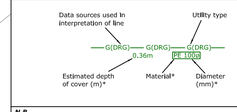
	Strong discrete anomaly - possible structural remains
17	GPR anomaly
	DIRECTION OF FLOW
EOT	END OF TRACE
UTR	UNABLE TO RAISE
∘ RE	RODDING EYE/ INSPECTION CHAMBER/ MANHOLE

DATA SOURCE		MATERIAL TYPE	
D	RECORD DRAWING	ST	STEEL
R	RADIODETECTION	DI	DUCTILE IRON
G	GPR	CON	CONCRETE
E	EM DATA	PE	POLYETHYLENE
S	SCAR	VC	VITRIFIED CLAY
M	MANHOLE/VALVE POSITION	DUCTS (P)	PLASTIC DUCT
		DUCTS (VC)	VITRIFIED CLAY DUCT

INTERPRETED LINE INFORMATION (EXAMPLE)



N.B.
THE UTILITY SURVEY INFORMATION ON THIS PLAN HAS BEEN PRODUCED USING GPR AND ELECTRO-MAGNETIC LOCATING TECHNIQUES. ALTHOUGH BEING THE MOST ACCURATE AVAILABLE, SIGNALS ARE SUSCEPTIBLE TO DISTORTION ON THE SURFACE ESPECIALLY IN CONGESTED AREAS. THERE MAY ALSO BE NON-METALLIC SERVICES AND METALLIC SERVICES PRODUCING INSUFFICIENT SIGNALS FOR ACCURATE LOCATION USING ELECTRO-MAGNETIC TECHNIQUES. WHILST GPR SHOULD DETECT BOTH METALLIC AND NON-METALLIC SERVICES, INDIVIDUAL SERVICES WITHIN CONGESTED AND COMPLEX AREAS MAY BE OBSCURED. WHILST EVERY EFFORT HAS BEEN MADE TO PRODUCE AN ACCURATE PLAN OF THE BURIED SERVICES WITHIN THE SURVEY AREA, CRUCIAL DIMENSIONS AND DEPTHS SHOULD BE CHECKED.
EXTREME CAUTION SHOULD BE TAKEN WHEN ANY EXCAVATION IS UNDERTAKEN - THE INFORMATION CONTAINED WITHIN THIS PLAN MAY NOT REPRESENT THE TOTAL NUMBER OF SERVICES CONTAINED WITHIN THE SURVEY AREA. HEALTH AND SAFETY GUIDELINES SHOULD BE FOLLOWED PRIOR TO EXCAVATION.

Job No.	Survey Date
2081	NOV 2005

Client

PELL FRISCHMANN

Project Title

HARVEY'S FOUNDRY
HAYLE, CORNWALL

Subject

FINAL INTERPRETATION (GPR AND RADIODETECTION) NORTH

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Scale 1:200 (0m 2 4 6 8 10m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
NOV 2005	HH	13