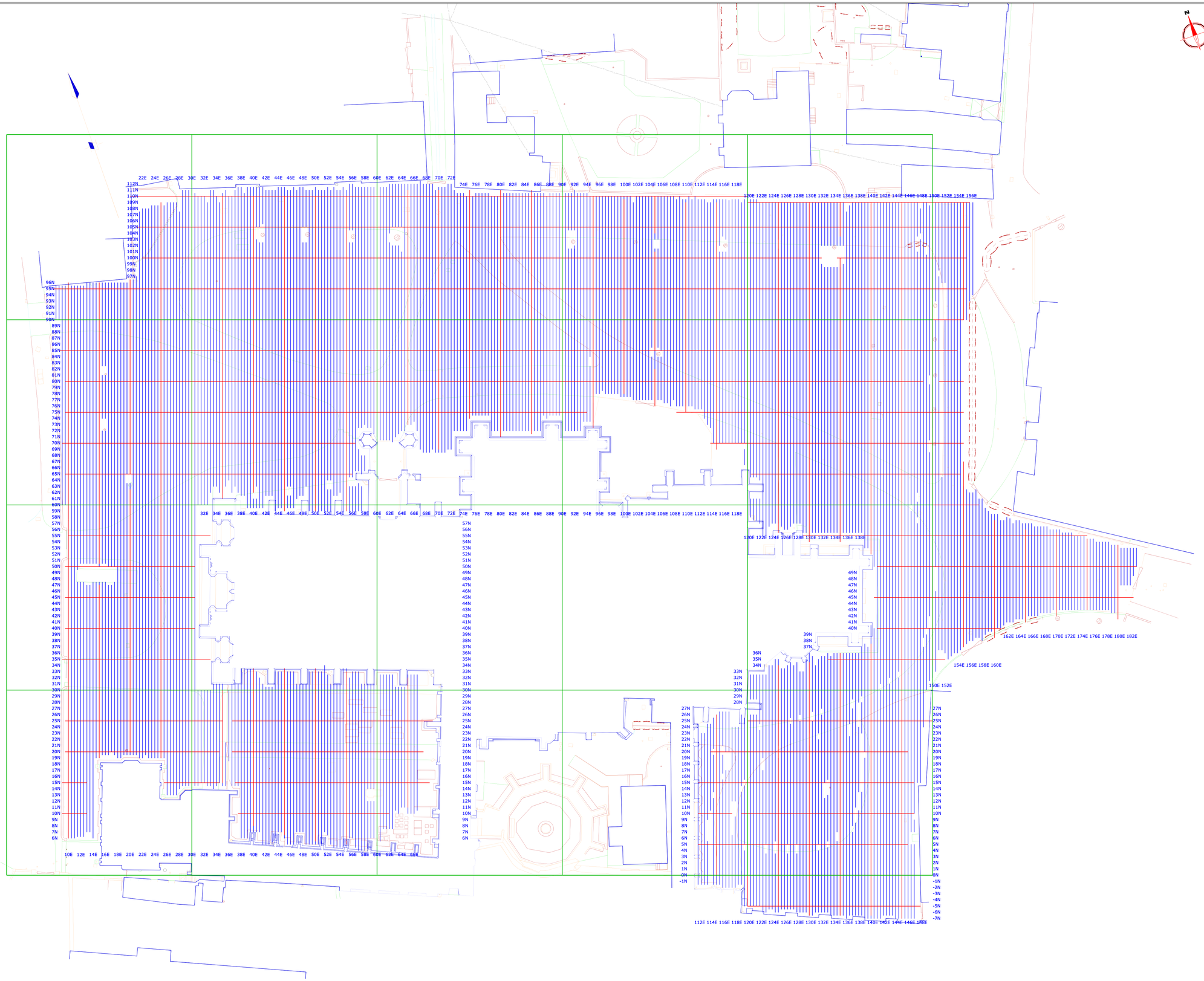
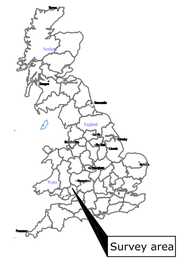


Amendments

Issue No.	Date	Description
-	-	-
		-



Site centred on NGR SO 512 398

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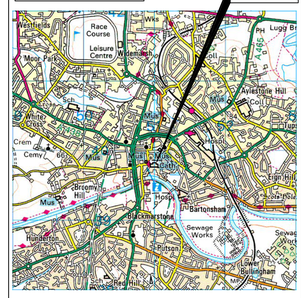
WR8 0SA

OS 100km square = SO



Gradiometer and Resistivity grid

400MHz GPR Traverse

200MHz GPR Traverse

Job No.	Survey Date
2118	MARCH 06

Client

HEREFORD CATHEDRAL

Project Title

HEREFORD CATHEDRAL CLOSE

Subject

SITE LOCATION AND SURVEY AREA

STRATASCAN™
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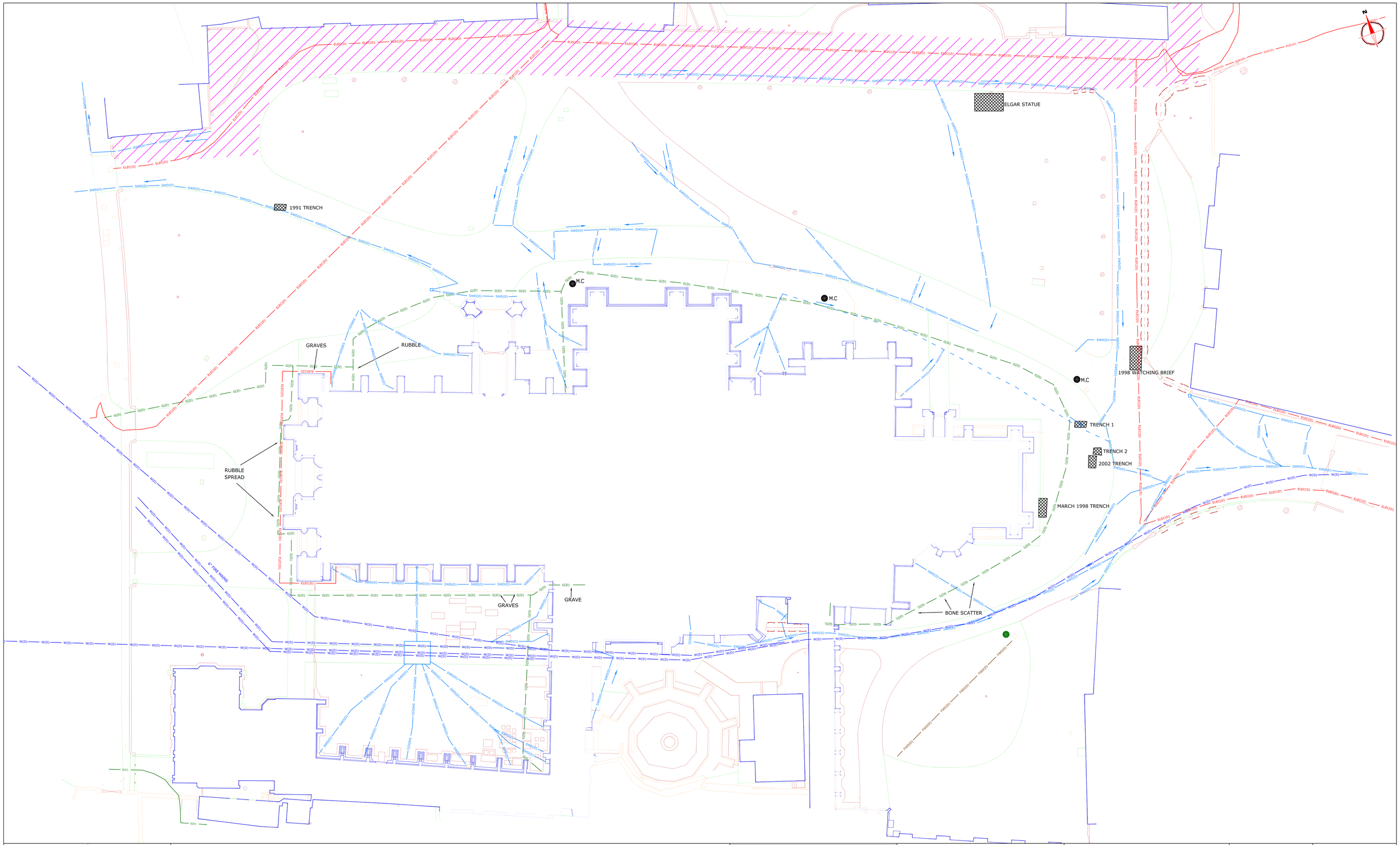
Scale 1:300 (0m 3 6 9 12 15 18)

Plot	Checked by	Issue No.
A1	PPB	01
Date	Drawn by	Figure No.
MAY 06	SH/HH	01



Amendments

Issue No.	Date	Description
	-	-
		-

KEY

- TELECOMMUNICATIONS (BT) CORRIDOR
- G — GAS
- ELEC — ELECTRIC
- W — WATER
- SWD — SURFACE WATER DRAINAGE
- FWD — FOUL WATER DRAINAGE
- (d) Service Identified from record drawings
- M.C Manhole cover

Client: HEREFORD CATHEDRAL

Project Title: HEREFORD CATHEDRAL CLOSE

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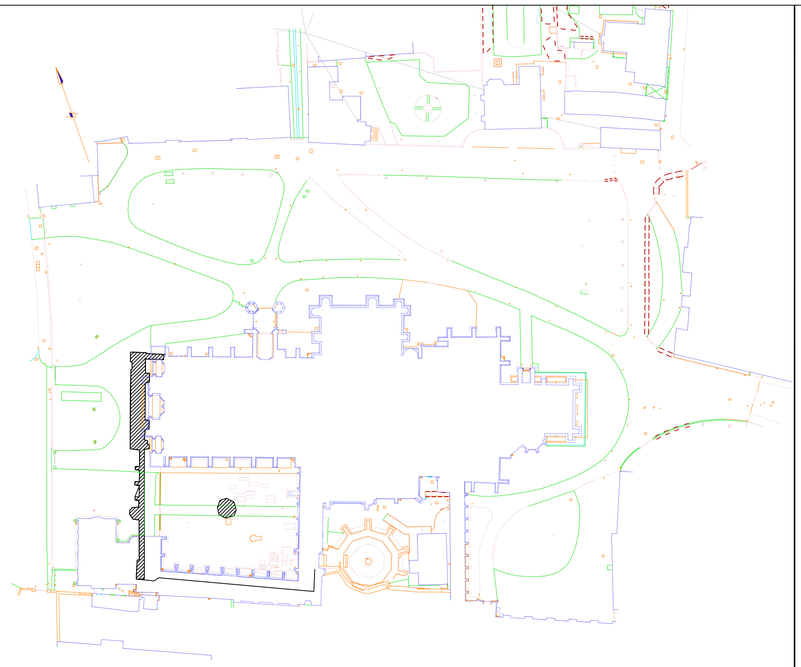
IFA REGISTERED ORGANISATION

Job No.	Survey Date
2118	MARCH 06

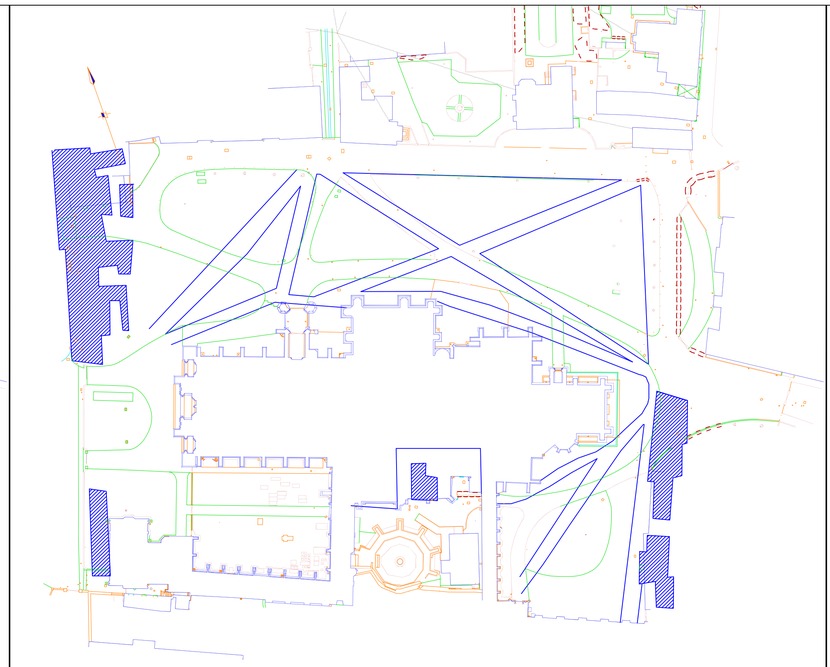
Subject: SERVICE RECORD DRAWINGS, EXCAVATIONS/WATCHING BRIEFS

Scale: 1:250 (0m 5 10 15m)

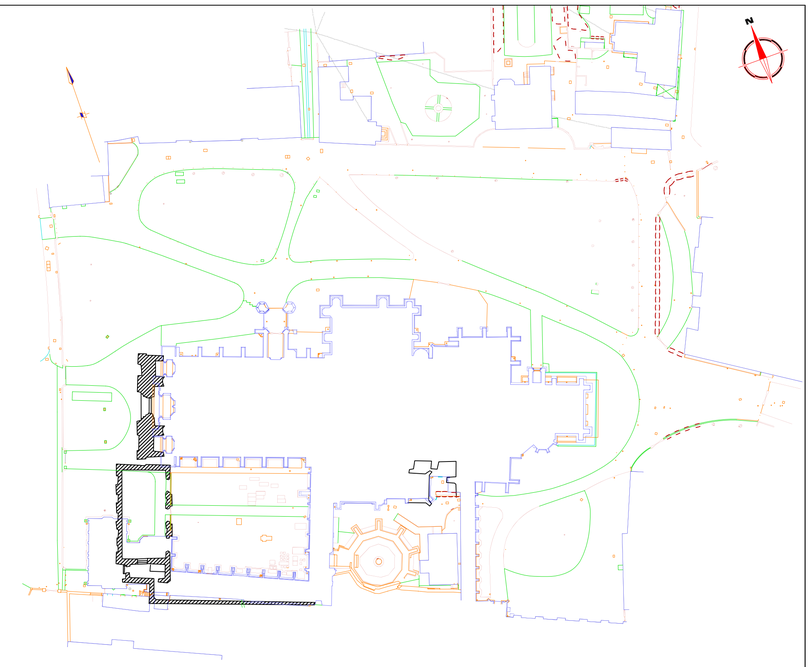
Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
MAY 06	HH	02



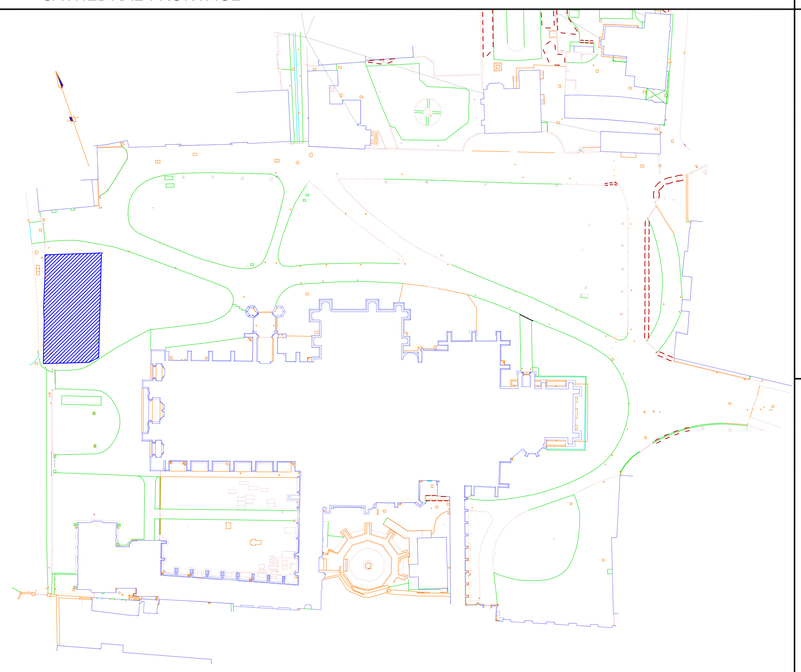
1735 CLOISTER WALL AND
CATHEDRAL FRONTAGE



1757 BUILDINGS ALONG BROAD STREET CASTLE
STREET AND PATHWAY POSITIONS

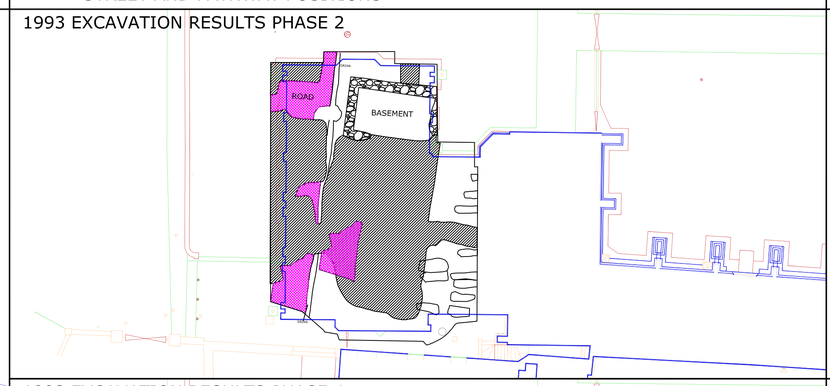


1795 CATHEDRAL FRONTAGE AND MUSIC HALL

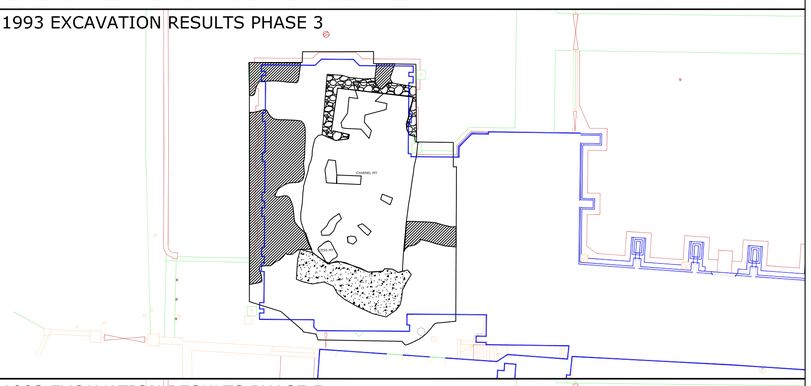


1886 BUILDINGS ALONG BROAD STREET

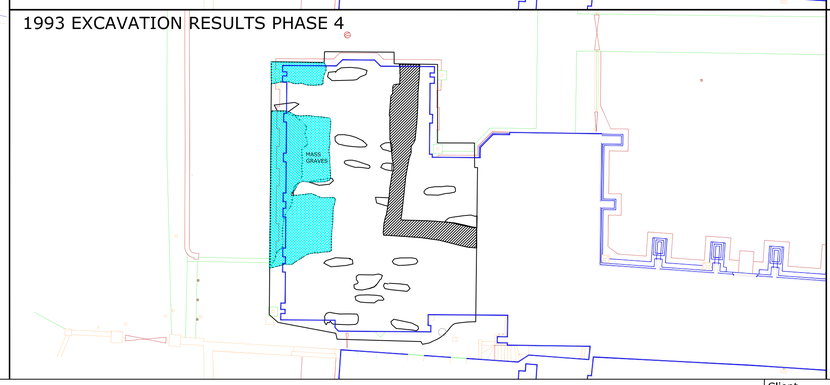
1993 EXCAVATION RESULTS PHASE 2



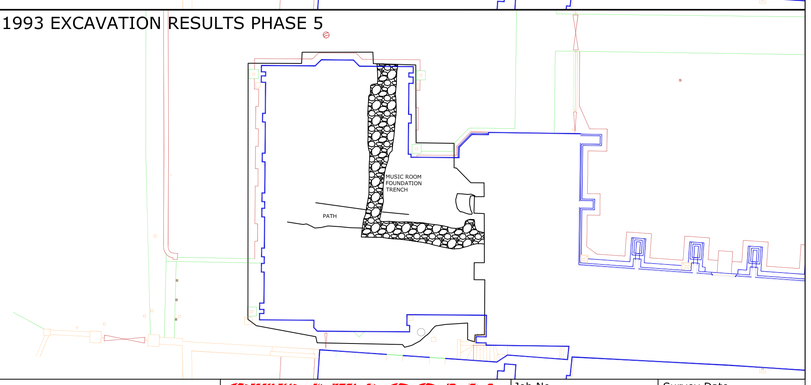
1993 EXCAVATION RESULTS PHASE 3



1993 EXCAVATION RESULTS PHASE 4



1993 EXCAVATION RESULTS PHASE 5



Amendments

Issue No.	Date	Description
	-	-
		-

1993 Excavation information taken from

A View from Hereford's Past. A report on the archaeological excavation of Hereford Cathedral Close in 1993. 1996. R Stone and N Appleton-Fox

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

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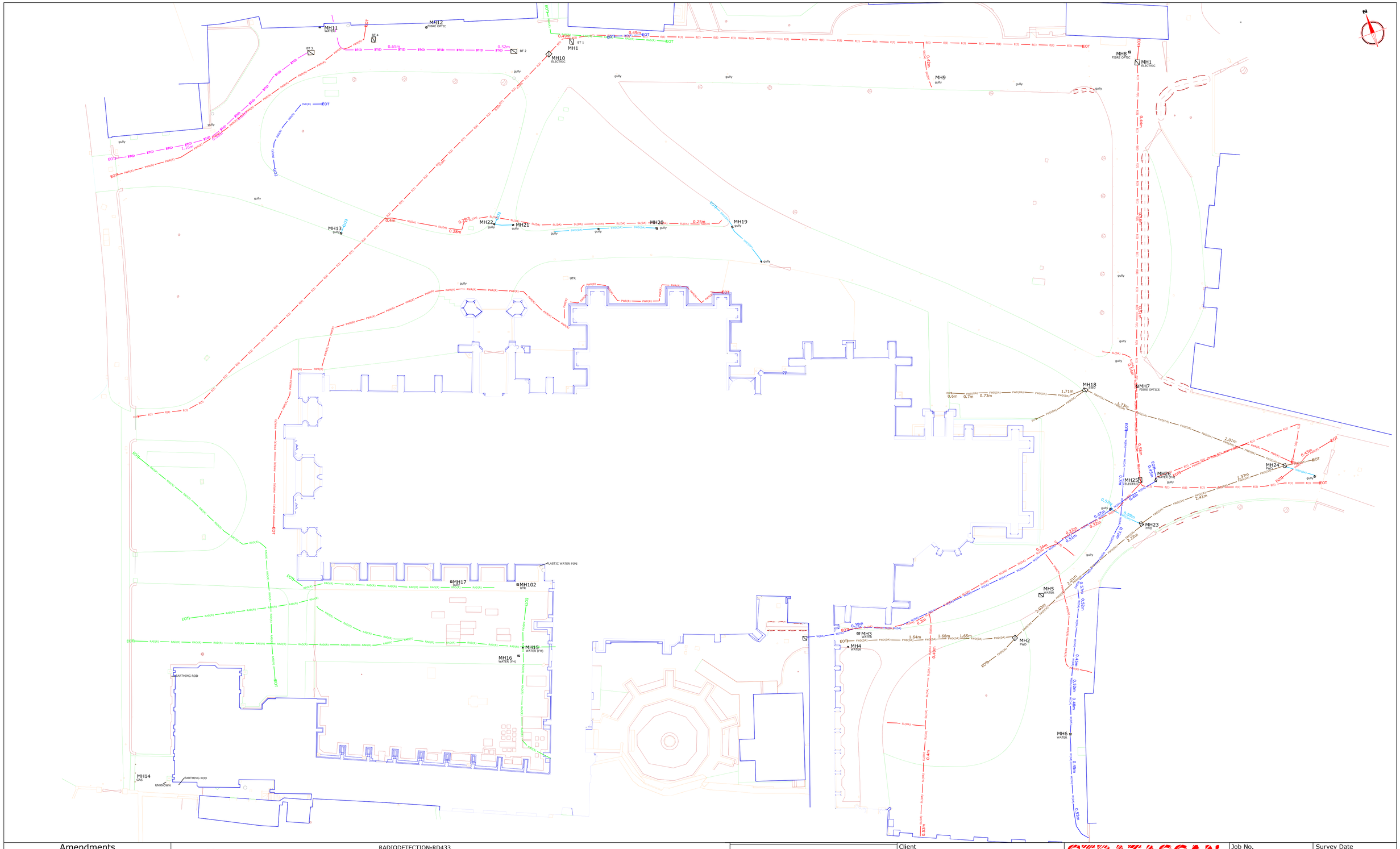
Job No. 2118 | Survey Date MARCH 06

Subject
ARCHAEOLOGICAL RECORD

Scale N/A

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
MAY 06	HH	03



Amendments

Issue No.	Date	Description
	-	-
		-

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.

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

BT (I)	TELECOMMUNICATIONS (BT) IDENTIFIED BY INDUCTION
E (I)	ELECTRIC IDENTIFIED BY INDUCTION
SL (DA)	STREET LIGHTING IDENTIFIED BY DIRECT APPLICATION
FWD (DA)	FOUL WATER DRAINAGE INDENTIFIED BY DIRECT APPLICATION
SWD (DA)	SURFACE WATER DRAINAGE INDENTIFIED BY DIRECT APPLICATION
W (DA)	WATER INDENTIFIED BY DIRECT APPLICATION
PWR (R)	SERVICE IDENTIFIED IN POWER MODE
RAD (R)	SERVICE IDENTIFIED IN RADIO MODE
IND (R)	SERVICE IDENTIFIED BY INDUCTION
0.48m	APPROXIMATE DEPTH OF SERVICE (m)
EOT	END OF TRACE

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

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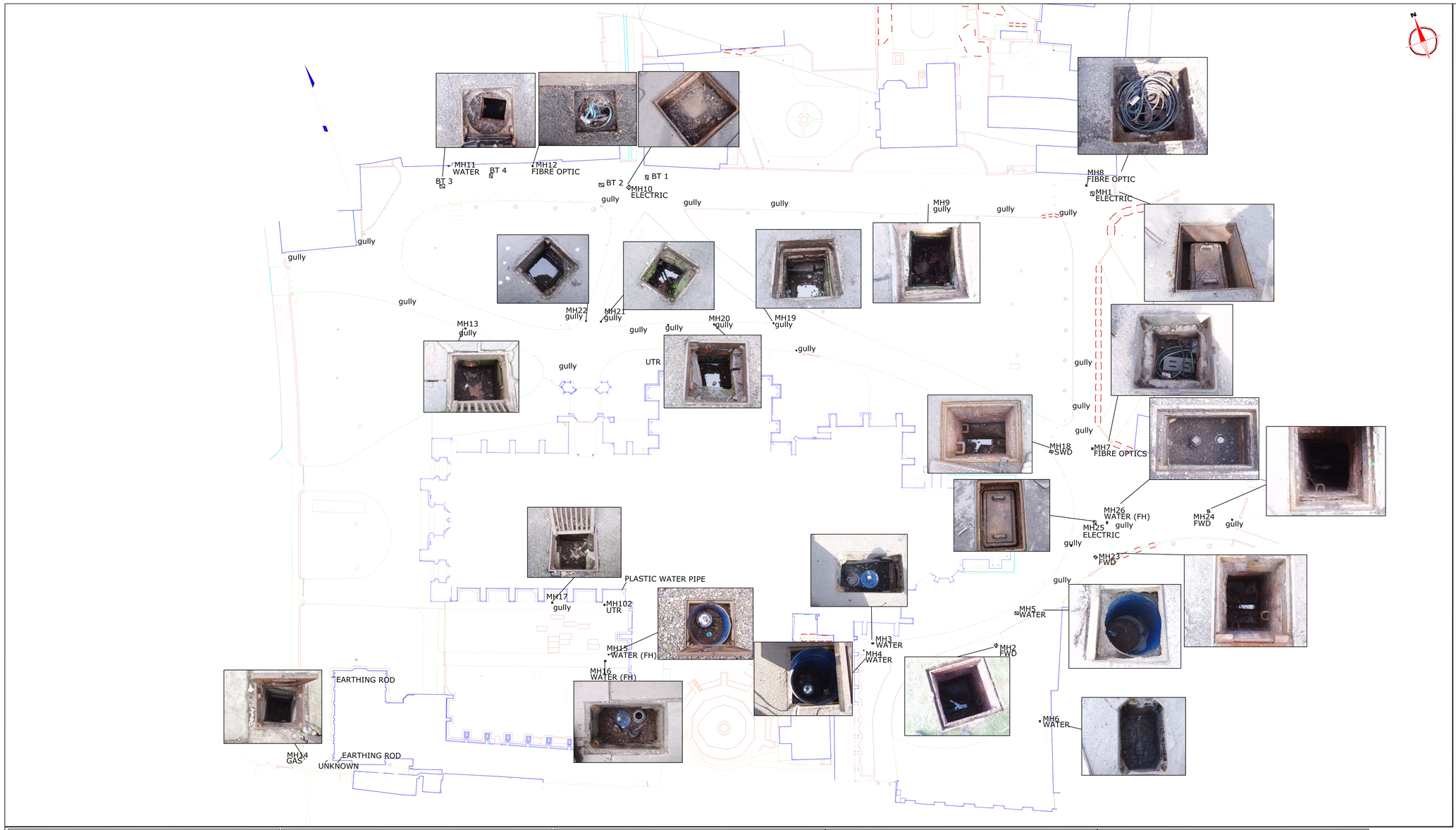
Job No. 2118	Survey Date MARCH 06
Subject: RADIODETECTION	
Scale 1:250 (0m 5 10 15m)	
Plot A1	Checked by PPB / Issue No. 01
Date MAY 06	Drawn by HH / Figure No. 04



MH/ IC Number: 19 Duty: SWD (Gully)
Cover Size: 0.250m x 0.250m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.255m x 0.255m Chamber Depth: 0.500m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.380m	0.120m	VC	-

MH/ IC Number: 20 Duty: SWD
Cover Size: 0.250m x 0.250m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.255m x 0.255m Chamber Depth: 0.600m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.200m	0.120m	VC	-

MH/ IC Number: 21 Duty: SWD
Cover Size: 0.250m x 0.250m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.255m x 0.255 Chamber Depth: 0.550m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.240m	0.120m	VC	
X	0.240m	0.140m	VC	

MH/ IC Number: 22 Duty: SWD
Cover Size: 0.250m x 0.250m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.255m x 0.255m Chamber Depth: 0.470m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.130m	0.115m	VC	-
X	0.120m	0.180m	VC	-

MH/ IC Number: 23 Duty: FWD
Cover Size: Cover Material: Ductile Steel
Cover Shape: Rectangular
Comments:
Chamber Size: 0.460m x 0.570m Chamber Depth: 2.60m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	FWD	1.890m	0.70m	
B	SWD	1.870m	0.50m	
X	1.890m	0.70m	VC	

MH/ IC Number: 24 Duty: FWD
Cover Size: 0.440 x 0.540 Cover Material: Ductile Steel
Cover Shape: Rectangular
Comments:
Chamber Size: Uknown Chamber Depth: 2.200m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	1.960m	0.150m	VC	
B	1.850m	0.150m	VC	
C	0.580m	0.100m	VC	
X	2.200m	0.150m	VC	

MH/ IC Number: 25 Duty: Electric
Cover Size: 0.470m x 0.750m Cover Material: Concrete and Metal
Cover Shape: Rectangle
Comments:
Chamber Size: 0.420m x 0.750m Chamber Depth: 0.270m Chamber material: Metal

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.190m	Unknown	Metal	
X	0.190m	Unknown	Metal	

MH/ IC Number: 26 Duty: Fire Hydrant
Cover Size: 0.415m x 0.25m Cover Material: Cast Iron
Cover Shape: Rectangular
Comments:
Chamber Size: 0.380m x 0.220m Chamber Depth: 0.380m Chamber material: Brick with Cast Iron Insert

Entries/Exits	Depth to Invert	Diameter	Material	Comments

MH/ IC Number: 1 Duty: Electrical
Cover Size: 0.79m x 0.64m Cover Material: Ductile Steel
Cover Shape: Rectangle
Comments:
Chamber Size: 0.61m x 0.77m Chamber Depth: 0.54m Chamber material: Brick

Entries/Exits	Depth to crown	Diameter	Material	Comments
A	0.4m			-
				-
				-

MH/ IC Number: 2 Duty: Foul Water
Cover Size: 0.52m x 0.52m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.55m x 0.48m Chamber Depth: 1.62m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	-	0.15m	clay	-
B	-	0.15m	clay	-
X	1.54m	0.15m	clay	-

MH/ IC Number: 3 Duty: Water
Cover Size: 0.39m x 0.24m Cover Material: Ductile steel
Cover Shape: Square
Comments:
Chamber Size: 0.39m x 0.24m Chamber Depth: 0.3m Chamber material: Concrete

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.24m	0.13m	Plastic	-
X	0.2m	0.8m	Plastic	-

MH/ IC Number: 4 Duty: Water
Cover Size: 0.2m x 0.19m Cover Material: Ductile steel
Cover Shape: Rectangular
Comments:
Chamber Size: 0.2m x 0.19m Chamber Depth: 0.6m Chamber material: Concrete

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	1.46m	0.10m	Plastic	Water Metre

MH/ IC Number: 5 Duty: Water
Cover Size: 0.19m x 0.2m Cover Material: Ductile Steel
Cover Shape: Rectangular
Comments:
Chamber Size: 0.19m x 0.2m Chamber Depth: 0.43m Chamber material: plastic

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.43m	0.04m	Plastic	Water Valve

MH/ IC Number: 6 Duty: Water
Cover Size: 0.24m x 0.4m Cover Material: Ductile Steel
Cover Shape: Rectangular
Comments:
Chamber Size: 0.24m x 0.4m Chamber Depth: 0.4m Chamber material: Concrete

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.39m	0.03m	Metal	-
X	0.3m	0.04m	Metal	-

MH/ IC Number: 7 Duty: Fibre Optic
Cover Size: 0.3m x 0.3m Cover Material: Ductile Steel
Cover Shape: Square
Comments:
Chamber Size: 0.31m x 0.31m Chamber Depth: 0.32m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.2m	0.08m	Plastic	-
X	0.29m	0.01m	Cable	-
Y	0.29m	0.01m	Cable	-

MH/ IC Number: 8 Duty: Fibre Optics
Cover Size: 0.3m x 0.3m Cover Material: Ductile Steel
Cover Shape: Square
Comments:
Chamber Size: 0.31m x 0.31m Chamber Depth: 0.205m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.07m	0.01m	Cable	-

MH/ IC Number: 9 Duty: SWD
Cover Size: 0.33m x 0.26m Cover Material: Cast Iron
Cover Shape: Rectangle
Comments:
Chamber Size: 0.27m x 0.34m Chamber Depth: 0.75m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.54m	0.14m	clay	-
X	0.54m	0.14m	clay	-

MH/ IC Number: 10 Duty: Electric
Cover Size: 0.67m x 0.67m Cover Material: Ductile Steel
Cover Shape: Square
Comments:
Chamber Size: 0.6m x 0.68m Chamber Depth: 0.26m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.26m	0.38m	Metal	Electric Box
Y	0.26m	0.38m	Metal	Electric Box

MH/ IC Number: 11 Duty: Water
Cover Size: 0.19m x 0.21m Cover Material: Cast Iron
Cover Shape: Rectangle
Comments: Debris at bottom - possible valve beneath
Chamber Size: 0.192m x 0.21m Chamber Depth: 0.67m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments

MH/ IC Number: 12 Duty: Fibre Optic
Cover Size: 0.17m x 0.17m Cover Material: Plastic
Cover Shape: Square
Comments:
Chamber Size: 0.17m x 0.17m Chamber Depth: Unknown Chamber material: Plastic

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.01m	0.01m	Cable	-

MH/ IC Number: 13 Duty: SWD
Cover Size: 0.25m x 0.25m Cover Material: Cast Iron
Cover Shape: Square
Comments:
Chamber Size: 0.25m x 0.25m Chamber Depth: 0.46m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.22m	0.14m	clay	-

MH/ IC Number: 14 Duty: GAS
Cover Size: 0.14m x 0.13m Cover Material: Cast Iron
Cover Shape: Rectangle
Comments:
Chamber Size: 0.14m x 0.15m Chamber Depth: 1.19m Chamber material: Breeze Block

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.55m	0.05m	Lead	-

MH/ IC Number: 15 Duty: Water
Cover Size: 0.19m x 0.19m Cover Material: Ductile Steel
Cover Shape: Square
Comments:
Chamber Size: 0.19m x 0.19m Chamber Depth: 0.23m Chamber material: Concrete

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.15m	0.08m	Plastic	Water Metre
B	0.24m	0.035m	Plastic	Valve

MH/ IC Number: 16 Duty: Fire Hydrant
Cover Size: 0.39m x 0.24m Cover Material: Ductile Steel
Cover Shape: Rectangle
Comments:
Chamber Size: 0.39m x 0.24m Chamber Depth: 0.29m Chamber material: Breeze block

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.19m	0.14m	Plastic	-
B	0.26m	0.1m	Plastic	-

MH/ IC Number: 17 Duty: SWD
Cover Size: 0.25m x 0.25m Cover Material: Cast Iron
Cover Shape: Square
Comments: Hallow - Probably for SWD
Chamber Size: 0.25m x 0.25m Chamber Depth: 0.38m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments

MH/ IC Number: 18 Duty: FWD
Cover Size: 0.5m x 0.65m Cover Material: Ductile Steel
Cover Shape: Rectangle
Comments: Blocked unable to Sonde
Chamber Size: 0.590m x 0.460m Chamber Depth: 0.140m Chamber material: Brick

Entries/Exits	Depth to Invert	Diameter	Material	Comments
A	0.125m	0.150m	Clay	-

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

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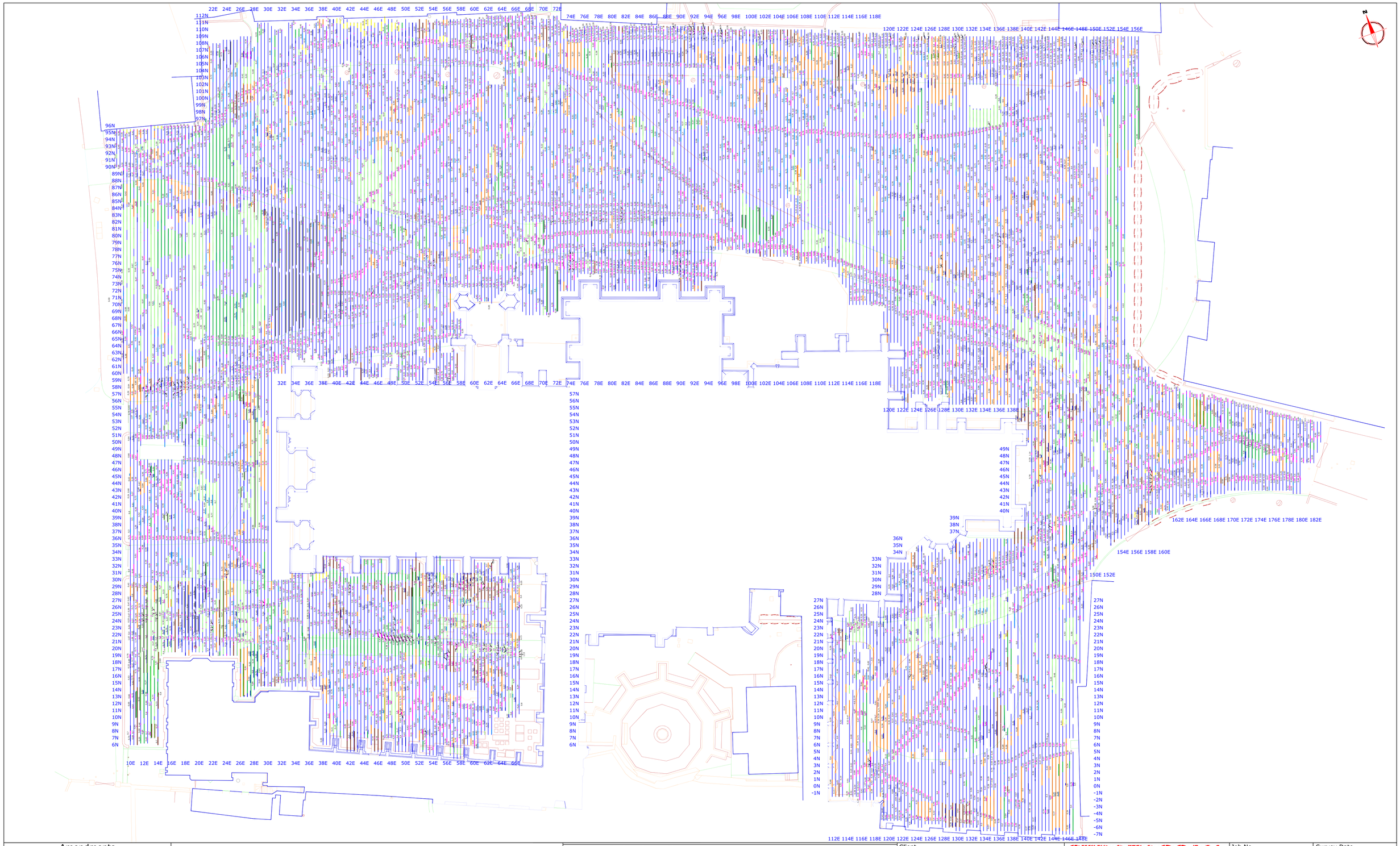
Job No. 2118
Survey Date MARCH 06
Subject
MANHOLE INSPECTION LOG
Scale 1:400
Plot A1
Checked by PPB
Issue No. 01
Date MAY 06
Drawn by HH
Figure No. 05



Amendments		
Issue No.	Date	Description
	-	-
		-

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

Client

HEREFORD CATHEDRAL

Project Title

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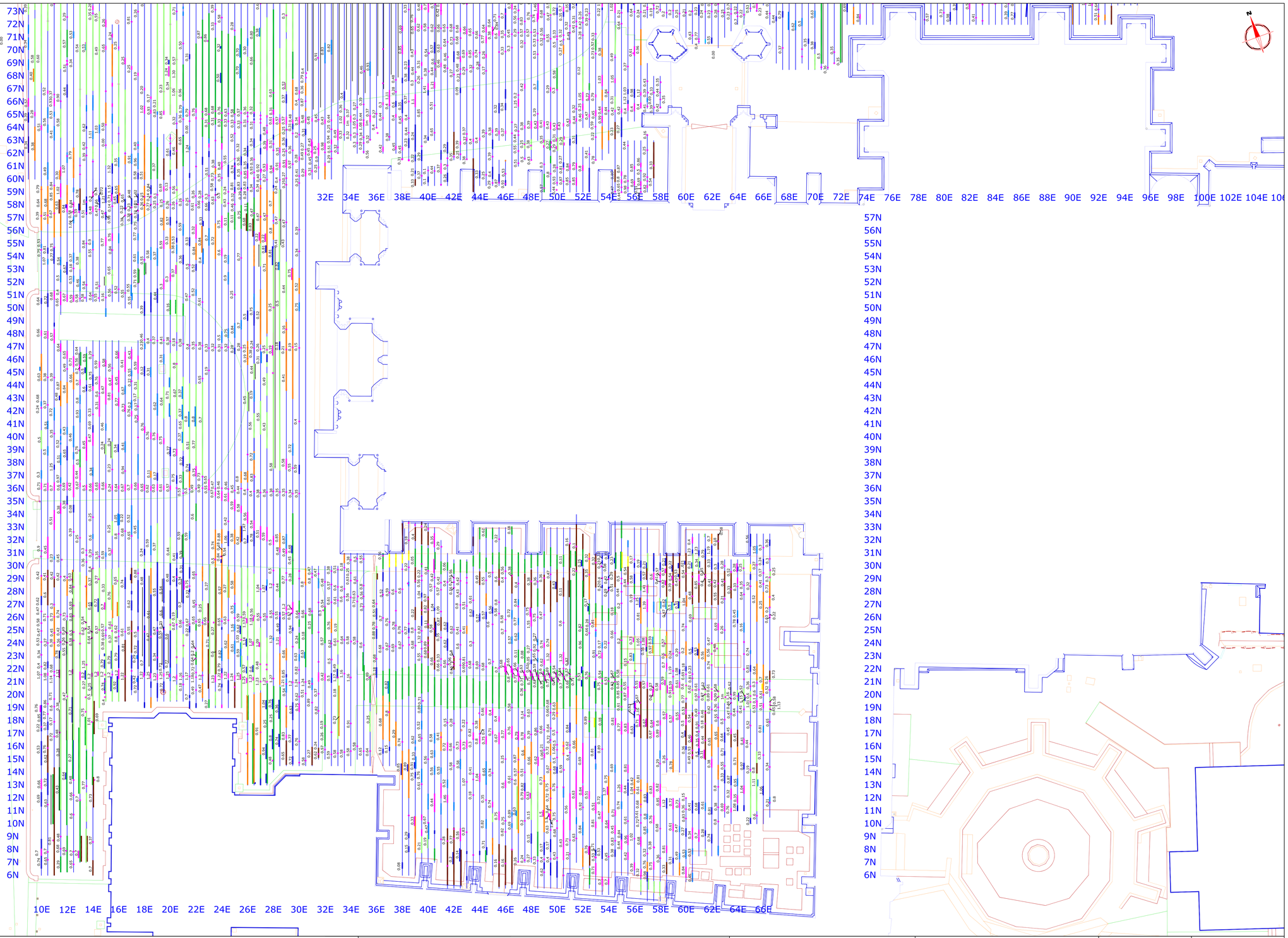
Job No.	Survey Date
2118	MARCH 06

Subject

GPR ABSTRACTION 400MHz

Scale 1:250 (0m 5 10 15m)

Plot	Checked by	Issue No.
A1	PPB	01
Date	**Drawn by**	**Figure No.**
MAY 06	HH/SH	06



Amendments

Issue No.	Date	Description
	-	-
		-

Radar Abstraction

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

Client

HEREFORD CATHEDRAL

Project Title

HEREFORD CATHEDRAL CLOSE

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STRATASCAN™
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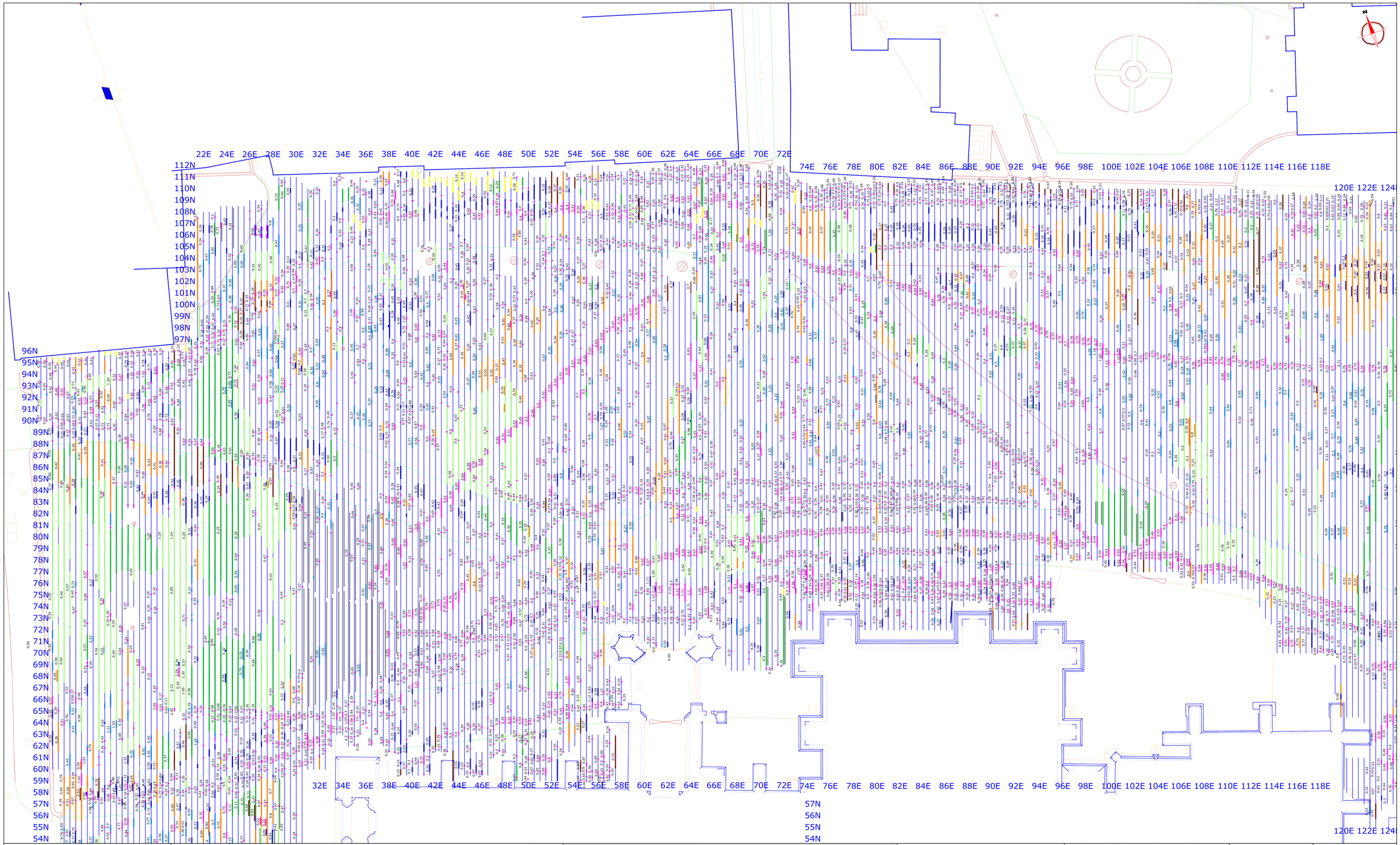
Job No.	2118
Survey Date	MARCH 06
Subject	GPR ABSTRACTION 400MHz SOUTH WEST
Scale	1:150 (0m 1 2 3 4 5 6 7 8 9m)
Plot	A1
Checked by	PPB
Issue No.	01
Date	MAY 06
Drawn by	HH/SH
Figure No.	06a



Amendments

Issue No.	Date	Description
	-	-
		-

Radar Abstraction

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

Client

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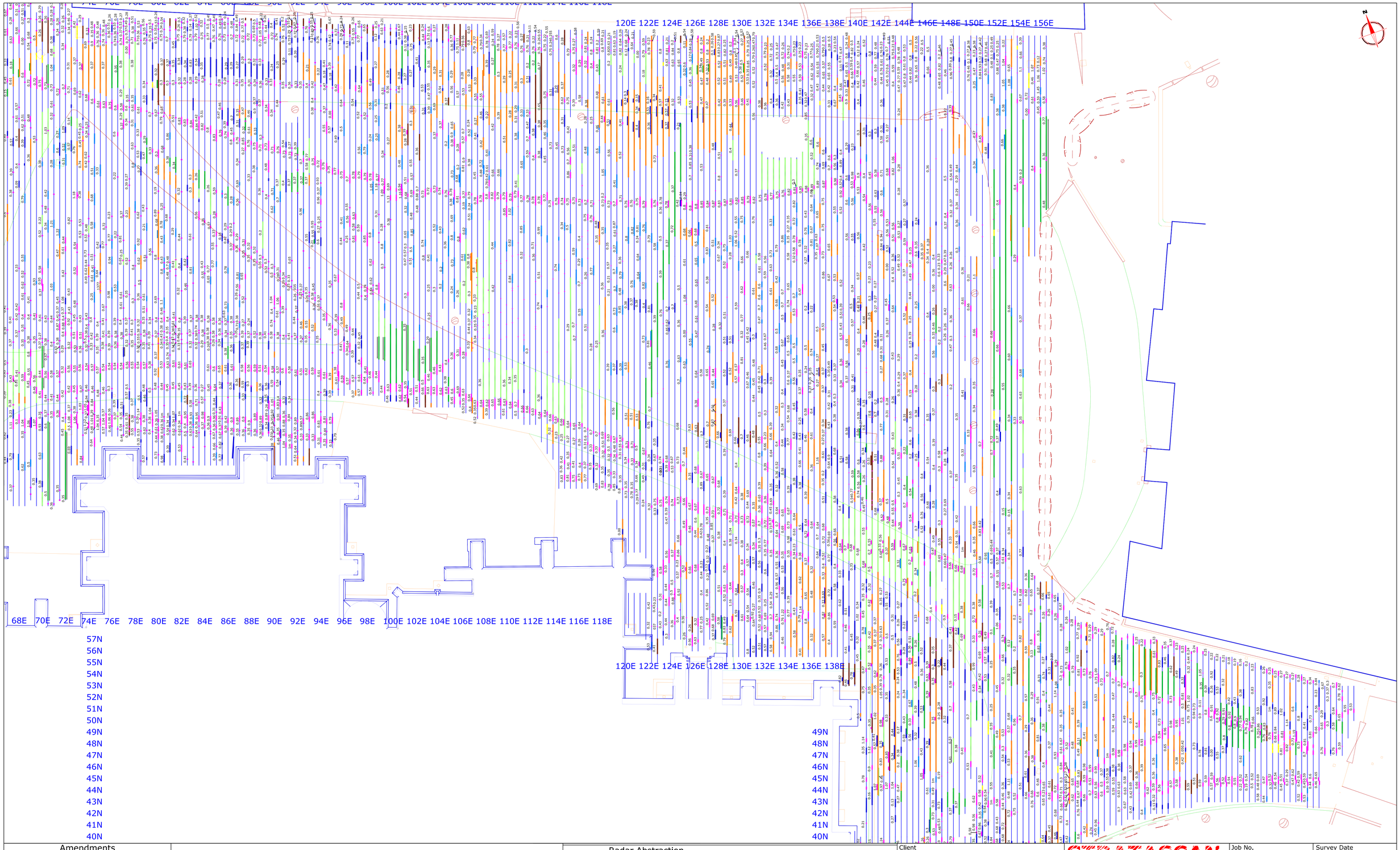
REGISTERED ORGANISATION IFA

Job No. 2118	Survey Date MARCH 06
Subject: GPR ABSTRACTION 400MHz NORTH WEST	
Scale 1:150 (0m 1 2 3 4 5 6 7 8 9m)	
Plot A1	Checked by PPB
Issue No. 01	
Date MAY 06	Drawn by HH/SH
Figure No. 06b	



Amendments

Issue No.	Date	Description
	-	-
		-

Radar Abstraction

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

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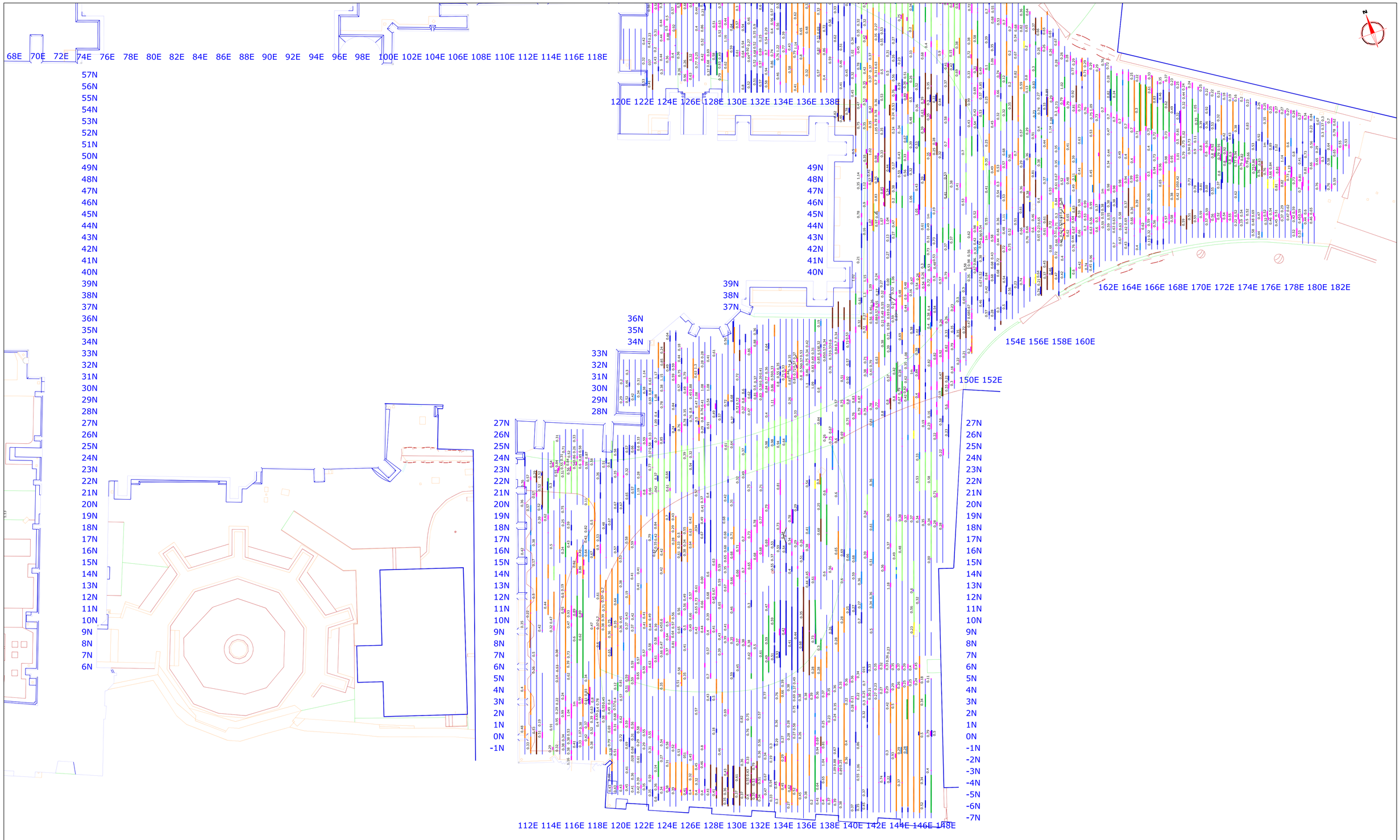
Job No.	2118
Survey Date	MARCH 06
Subject	GPR ABSTRACTION 400MHz NORTH EAST
Scale	1:150 (0m 1 2 3 4 5 6 7 8 9m)
Plot	A1
Checked by	PPB
Issue No.	01
Date	MAY 06
Drawn by	HH/SH
Figure No.	06c



Amendments

Issue No.	Date	Description
	-	-
	-	-

Radar Abstraction

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

Client
HEREFORD CATHEDRAL

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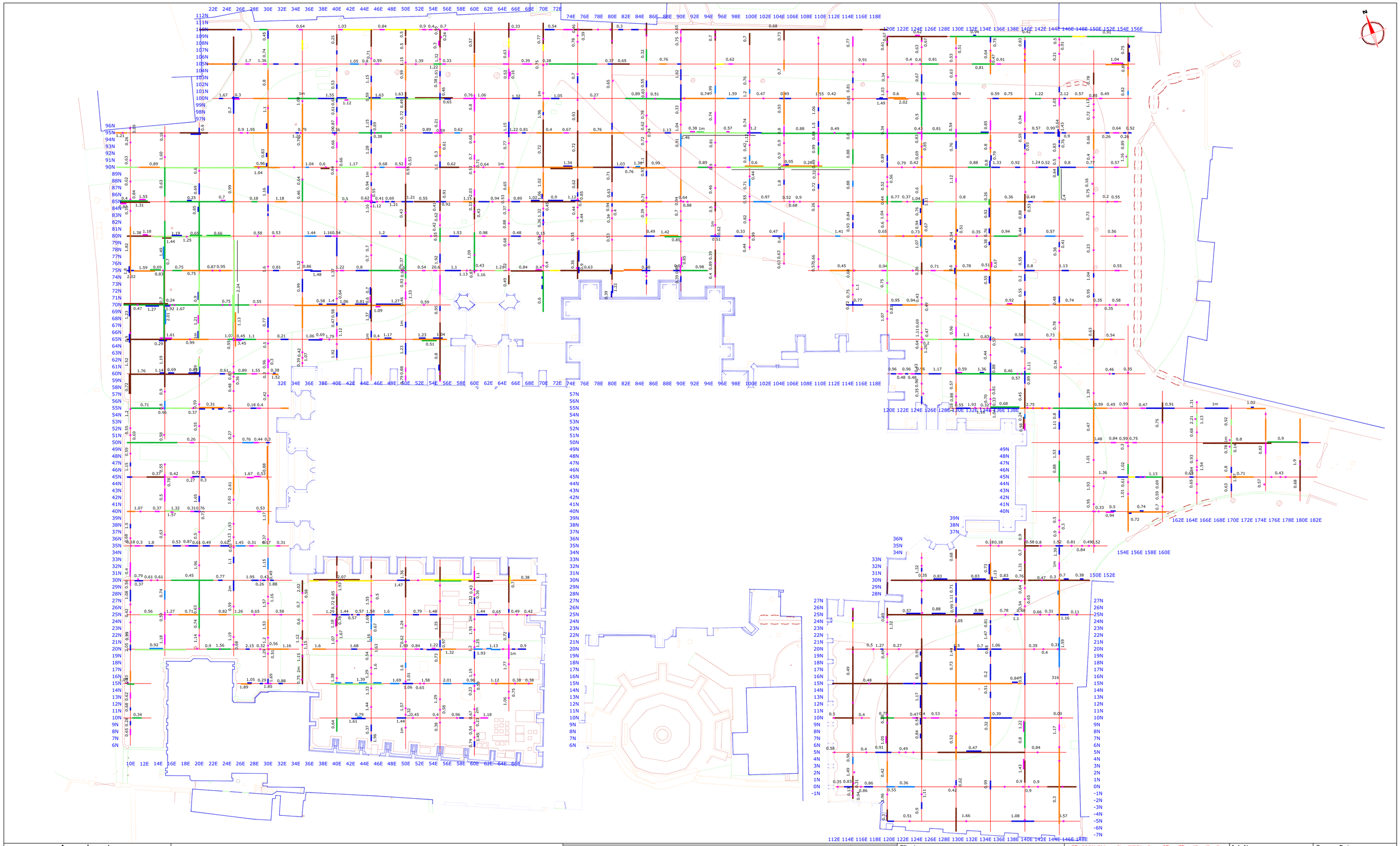
Job No. 2118	Survey Date MARCH 06
Subject: GPR ABSTRACTION 400MHz SOUTH EAST	
Scale 1:150 (0m 1 2 3 4 5 6 7 8 9m)	
Plot A1	Checked by PPB / Issue No. 01
Date MAY 06	Drawn by HH/SH / Figure No. 06d



Amendments

Issue No.	Date	Description
	-	-
		-

Radar Abstraction

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

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

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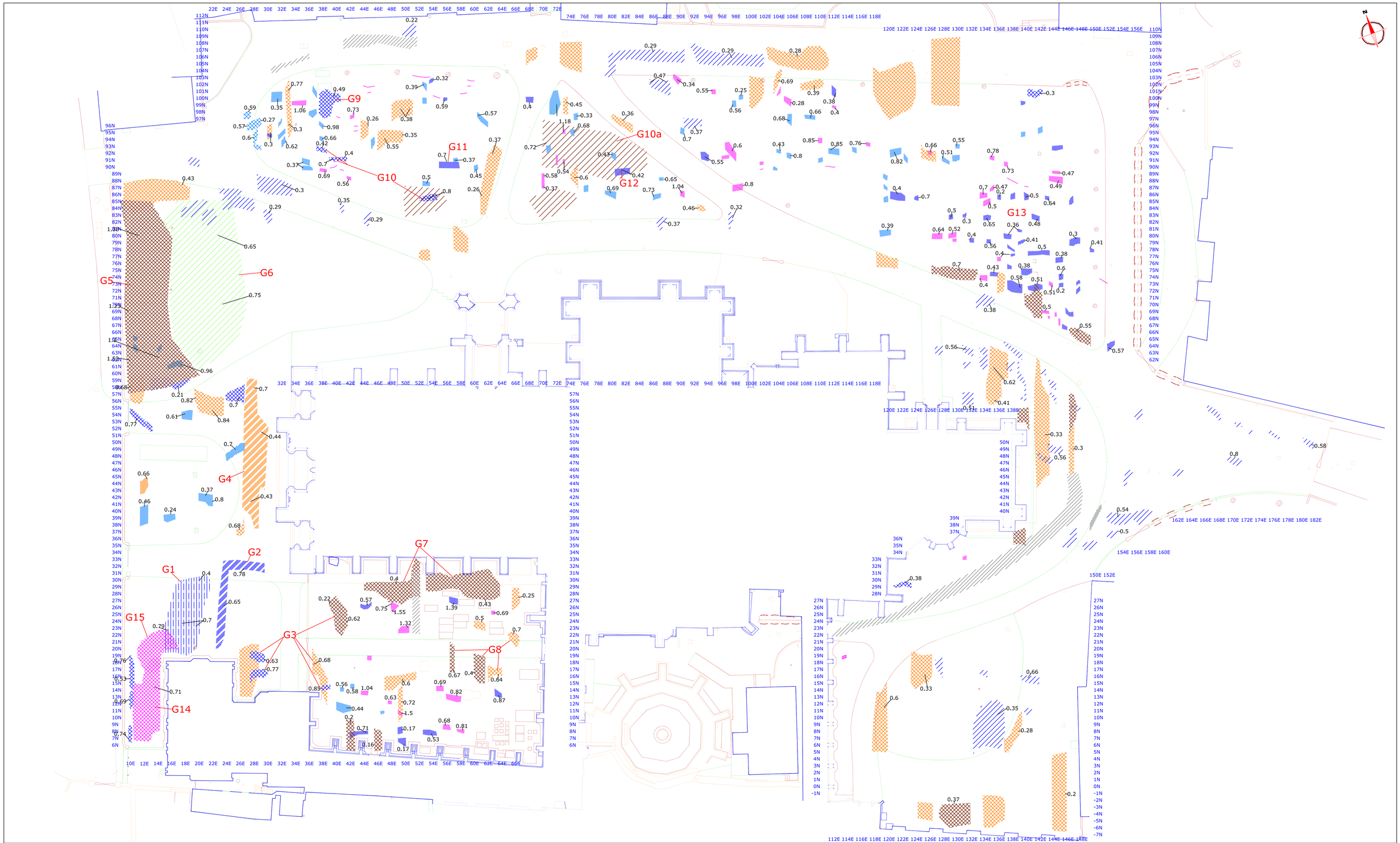
Job No. 2118		Survey Date MARCH 06	
Subject GPR ABSTRACTION 200MHz			
Scale 1:250 (0m 5 10 15m)			
Plot A1	Checked by PPB	Issue No. 01	
Date MAY 06	Drawn by HH/SH	Figure No. 07	



Amendments

Issue No.	Date	Description
	-	-
		-

Radar Interpretation

Discrete and complex responses relating to the music hall	Strong discrete anomaly - ground disturbance or structural debris of possible modern origin	0.25	Depth to top of feature (m)
Weak complex and planar responses relating to the original cathedral frontage	Strong discrete anomaly - possibly relating to burials	G1	Anomaly number
Strong discrete responses probably relating to the Saxon road	Weak discrete anomaly - possibly relating to burials		
Discrete area of high energy response identified with the timslice data - possibly relating to mass graves	Broad crested anomaly - possibly relating to burials		
Strong complex anomalies - possible structural remains and debris	Area of planar response - possibly related to landscaping and demolition activities		
Weak complex area anomaly - area of ground disturbance and/or structural debris	Complex anomlies identified within the 200MHz radar - possible area of ground disturbance at depth		
Strong discrete area anomaly - possible structural remains or debris	Possible service trench		
Weak discrete area anomaly - ground disturbance of possible modern origin	Linear anomaly or possible arcaheological origin		

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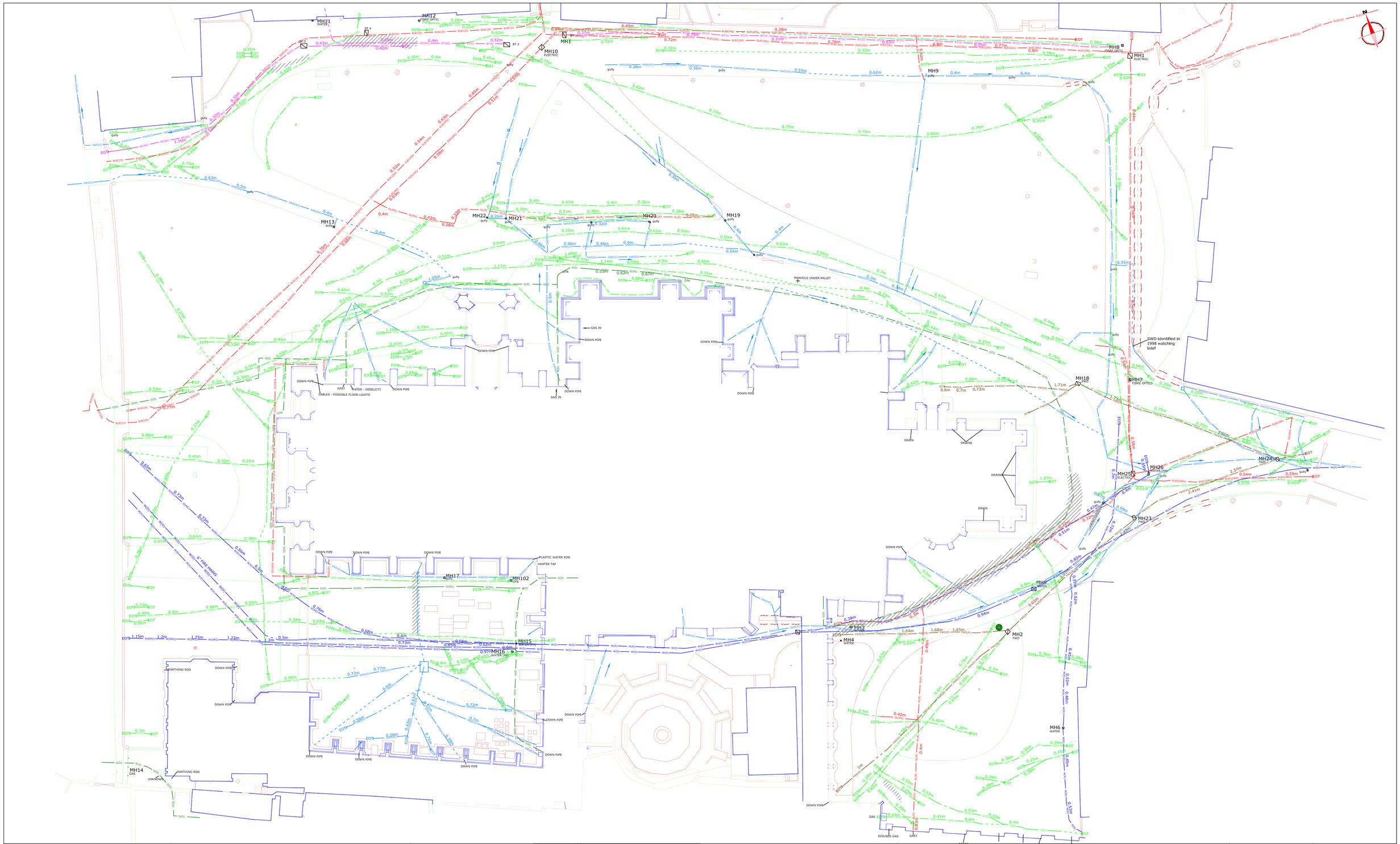
Job No. 2118	Survey Date MARCH 06	
Subject: GPR INTERPRETATION		
Scale 1:250 (0m 5 10 15m)		
Plot A1	Checked by PPB	Issue No. 01
Date MAY 06	Drawn by HH	Figure No. 08



Amendments

Issue No.	Date	Description
	-	-
		-

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.

Utility mapping Information

SWD within the Labour Abour suggests the converstion point at stone marker, this differs from that stated by the record drawing.

The SWD was unable to be sonded in many places due to the build up of silt.The lifting of the marker stone within the cloisters and the cleaning of all SWD is recommended to clearly identify the drainage

A number of Intrusive investigations may be needed to identify and confirm the postions of services found within the GPR survey

A number of services have been identified under the path in the Lady Arbour and have been attributed to water services. The 6" fire mains cannot be identified along the route of the drawing records running out of the Lady Abour and may have been placed within existing service trench

Two electric services have been identified running across the northwest of the Cathedral Close. The GPR service corresponds to that of the record drawings, whilst a parallel service has been identified through radiodetection (Intermitent evidence of this service can be seen within the GPR)

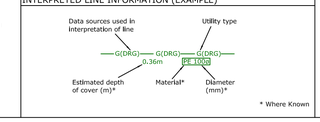
DATA SOURCE

D	RECORD DRAWING
R	RADIODETECTION
G	GPR
E	EM DATA
S	SCAN
M	MANHOLE/VALVE POSITION

MATERIAL TYPE

ST	STEEL
DI	DUCTILE IRON
CON	CONCRETE
PE	POLYETHYLENE
VC	VITRIFIED CLAY
DUCTS (P)	PLASTIC DUCT
DUCTS (VC)	VITRIFIED CLAY DUCT

INTERPRETED LINE INFORMATION (EXAMPLE)



KEY

LINETYPES AND ABBREVIATIONS

BT	TELECOMMUNICATIONS (BT)
CATV	TELECOMMUNICATIONS (CATV)
FO	TELECOMMUNICATIONS (FIBRE OPTIC)
G	GAS
HV	HIGH VOLTAGE ELECTRIC
LV	LOW VOLTAGE ELECTRIC
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
	GPR SURVEY EXTENT
	POSSIBLE SERVICE TRENCH
EOT	DIRECTION OF FLOW
	END OF TRACE
UTR	UNABLE TO RAISE
*RE	RODDING EYE/ INSPECTION CHAMBER/ MANHOLE

Client

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REGISTERED ORGANISATION IFA

Job No. 2118	Survey Date MARCH 06
Subject: UTILITY MAPPING FINAL INTERPRETATION	
Scale 1:250 (0m 5 10 15m)	
Plot A1	Checked by PPB / Issue No. 01
Date MAY 06	Drawn by HH / Figure No. 09

Amendments

Issue No.	Date	Description
-	-	
		-

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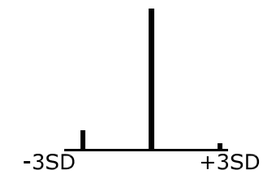
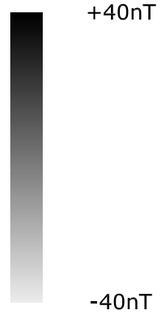
Plotting parameters

Maximum +40nT (black)
Minimum -40nT (white)





Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

PLOT OF RAW GRADIOMETER DATA

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Scale 1:500 — 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	10

Amendments		
Issue No.	Date	Description
-	-	
		-

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Plotting parameters

Maximum +500nT (red)
Minimum -500nT (blue)

-3SD +3SD

+500nT

-500nT

Client

HEREFORD CATHEDRAL

Project Title Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

COLOUR PLOT OF RAW GRADIOMETER DATA DEMONSTATING AMPLITUDE OF POSITIVE AND NEGATIVE READINGS

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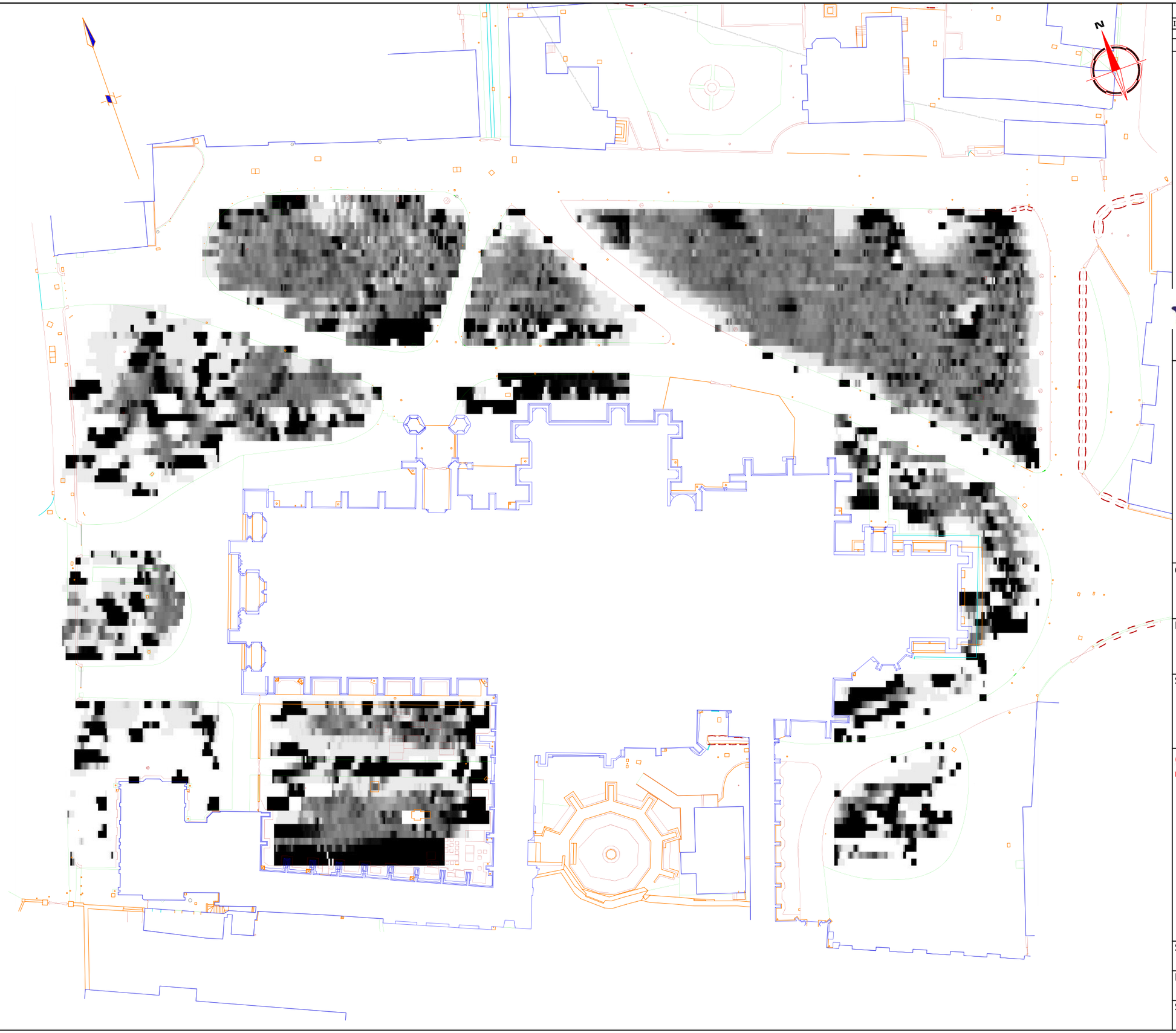
Scale 1:500

0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	11



Amendments		
Issue No.	Date	Description
-	-	
		-

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Plotting parameters

Maximum +20nT (black)
Minimum -20nT (white)

-3SD +3SD

+20nT

-20nT

Client

HEREFORD CATHEDRAL

Project Title Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

PLOT OF PROCESSED GRADIOMETER DATA

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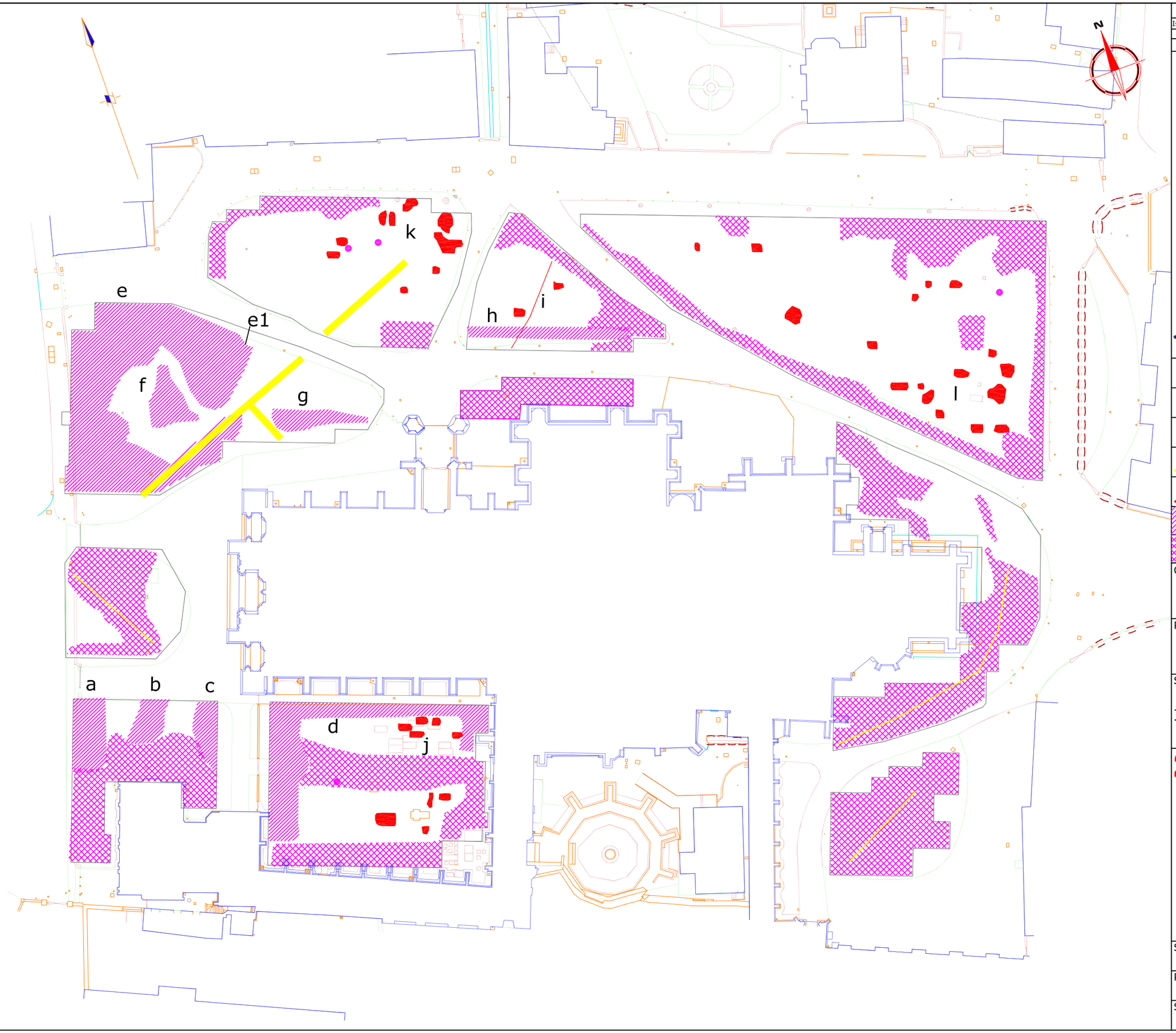
Scale 1:500 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	12



Amendments

Issue No.	Date	Description
-	-	
		-

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KEY

	Discrete positive anomaly - possible cut feature or area of discrete ground disturbance
	Positive anomaly with associated negative response - ferrous object
	Magnetic disturbance - associated with service
	Positive linear anomaly - cut feature of possible archaeological origin
	Area of magnetic disturbance - evidence of ground disturbance or structural debris
	Area of magnetic debris - caused by nearby pathways, buildings and objects of modern origin

Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

ABSTRACTION AND INTERPRETATION OF GRADIOMETER ANOMALIES

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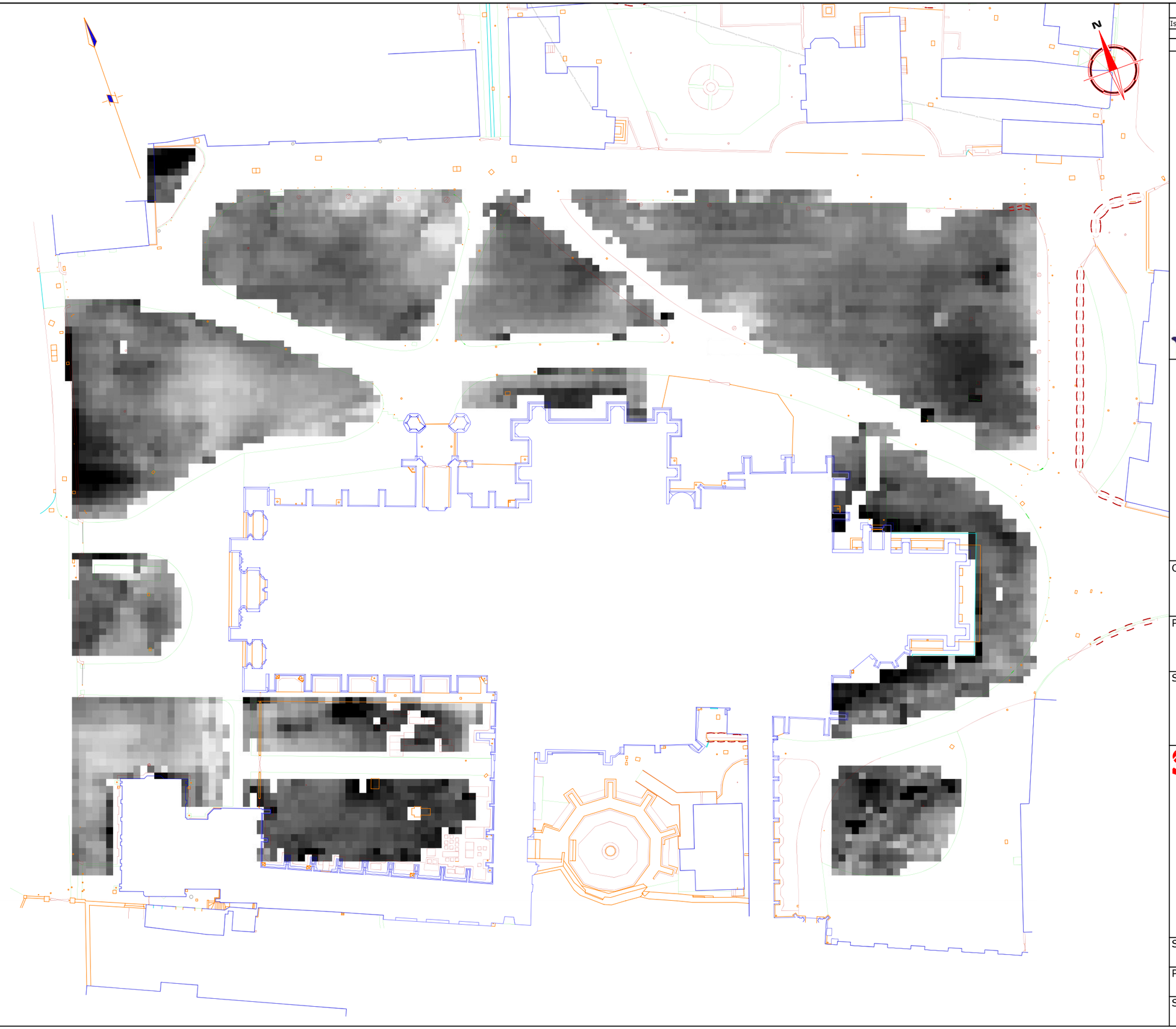
Scale 1:500 — 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	**Drawn by**	**Figure No.**
MAY 06	HH	13



Amendments

Issue No.	Date	Description
-	-	
		-

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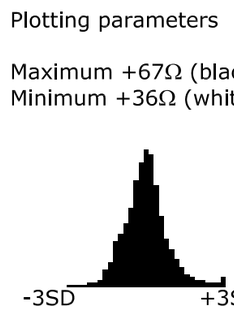
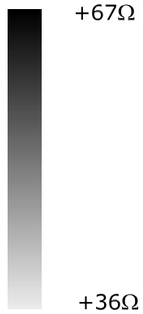
Plotting parameters

Maximum +67Ω (black)
Minimum +36Ω (white)





Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

PLOT OF RAW RESISTANCE DATA

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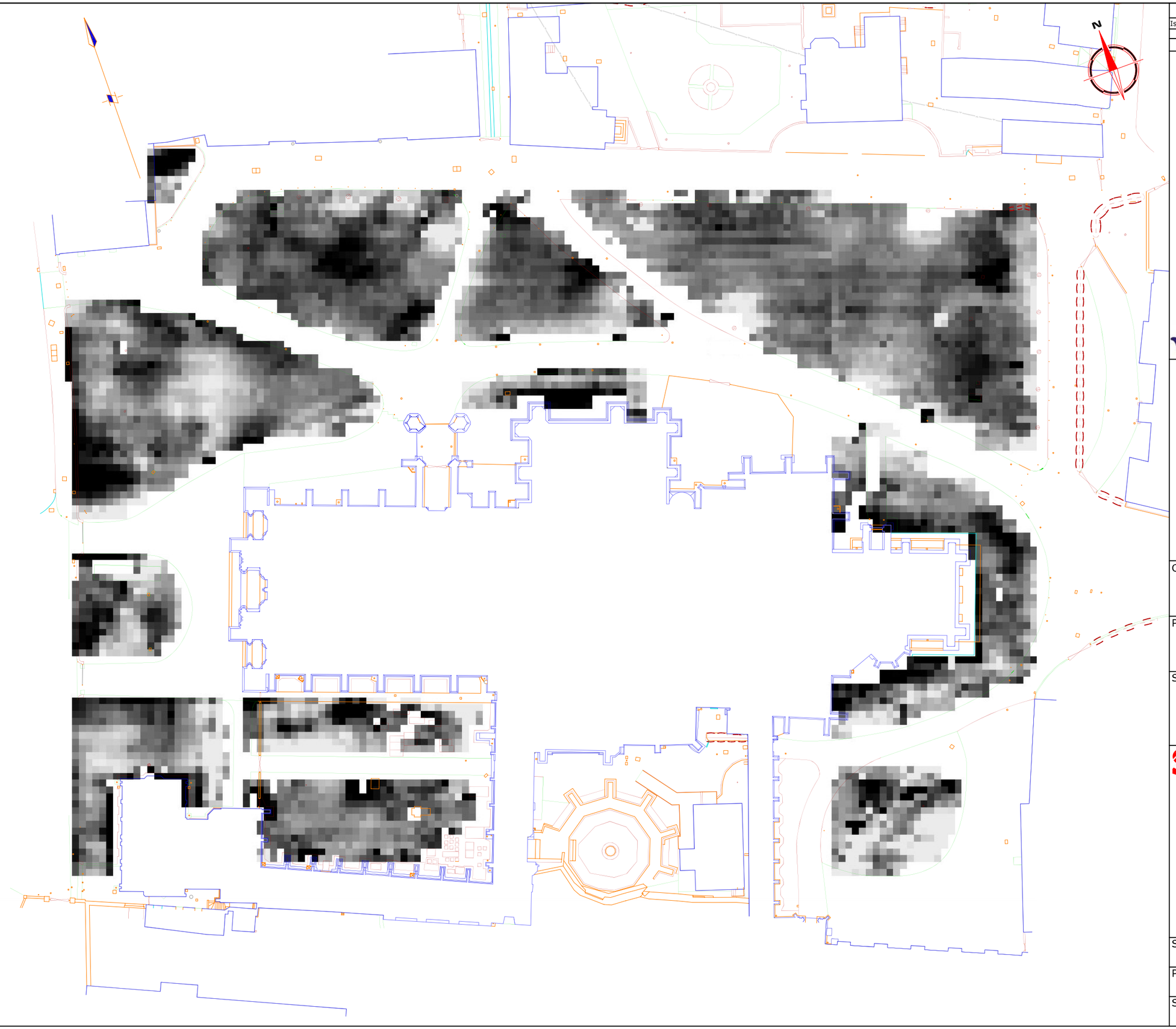
Scale 1:500 — 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	14



Amendments

Issue No.	Date	Description
-	-	
		-

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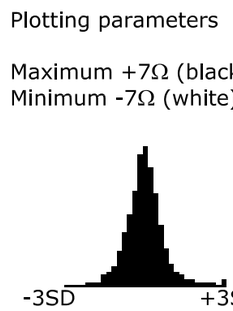
Plotting parameters

Maximum +7Ω (black)
Minimum -7Ω (white)



Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY -
HEREFORD CATHEDRAL CLOSE

Subject

PLOT OF PROCESSED
RESISTANCE DATA

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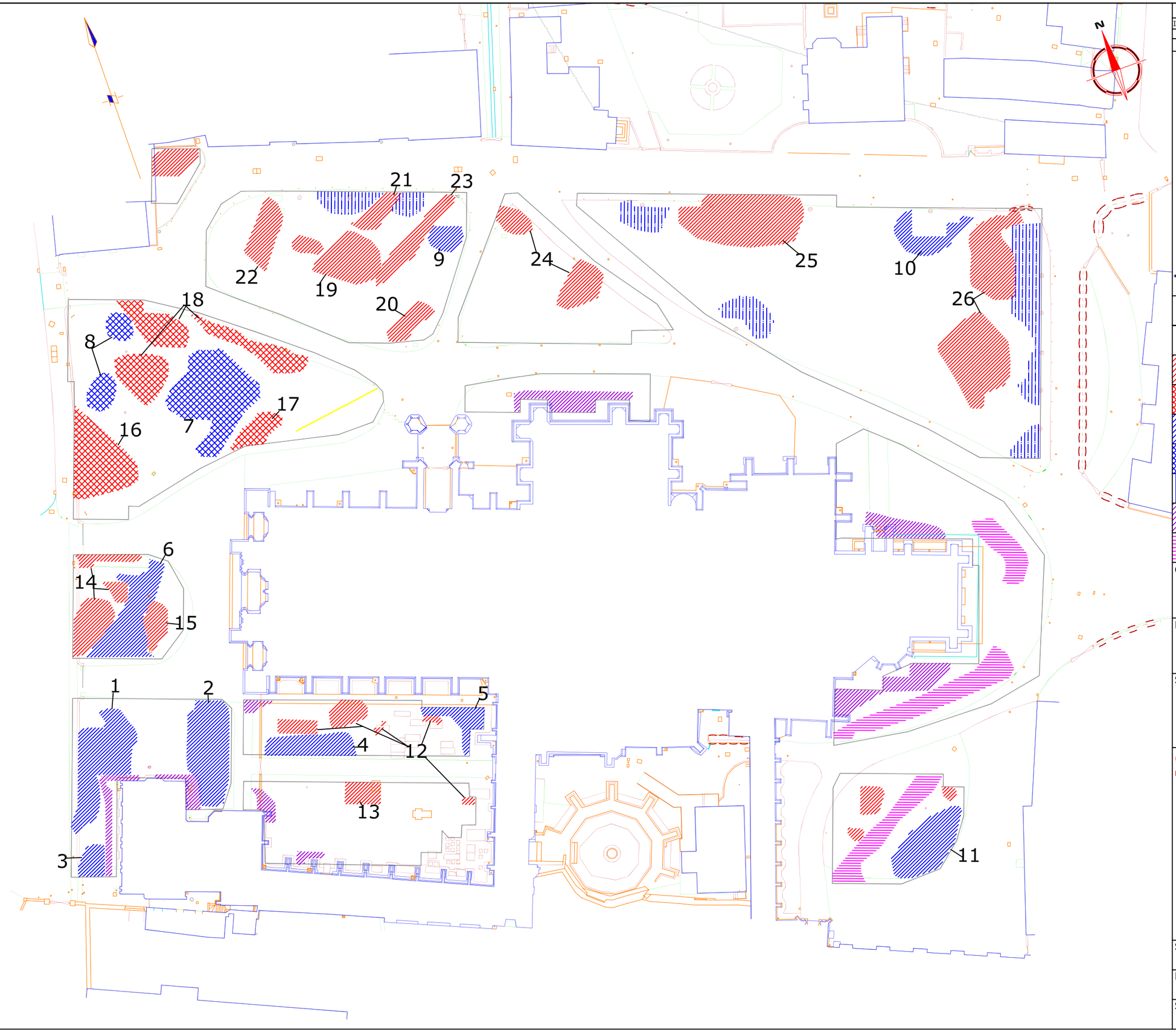
Scale 1:500

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	**Drawn by**	**Figure No.**
MAY 06	HH	15



Amendments

Issue No.	Date	Description
-	-	
		-

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KEY

- Low resistance linear anomaly - possibly associated with a service
- High resistance area anomaly - possible areas of structural debris
- High resistance area anomaly - possible areas of structural debris and landscaping activties
- Low resistance area anomaly - possible cut features of archaeological origin
- Low resistance area anomaly - cut features possibly associated with demolition and landscaping activities
- Low resistance area anomaly - possibly associated with the nearby trees
- High resistance area anomalies associated with nearby buildings
- Possible service trench

Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

ABSTRACTION AND INTERPRETATION OF RESISTANCE ANOMALIES

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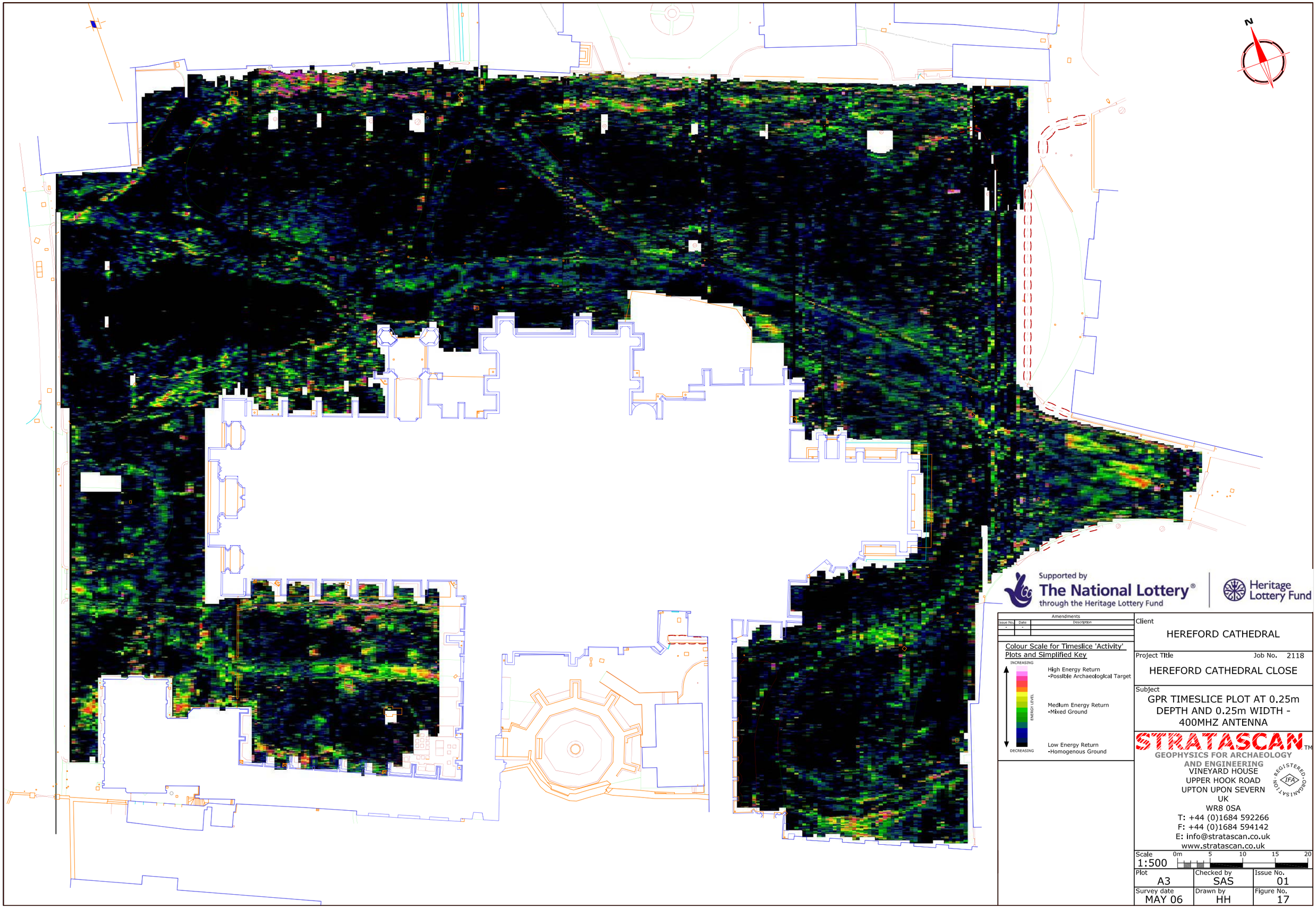
Scale 1:500 — 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	16



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Amendments

Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 0.25m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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IFA REGISTERED ORGANISATION

Scale	Plot	Checked by	Issue No.
1:500 (0m 5 10 15 20)	A3	SAS	01
Survey date	Drawn by	Figure No.	
MAY 06	HH	17	

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Amendments

Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 0.45m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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Scale 1:500 (0m 5 10 15 20)

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	18

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Amendments

Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 0.6m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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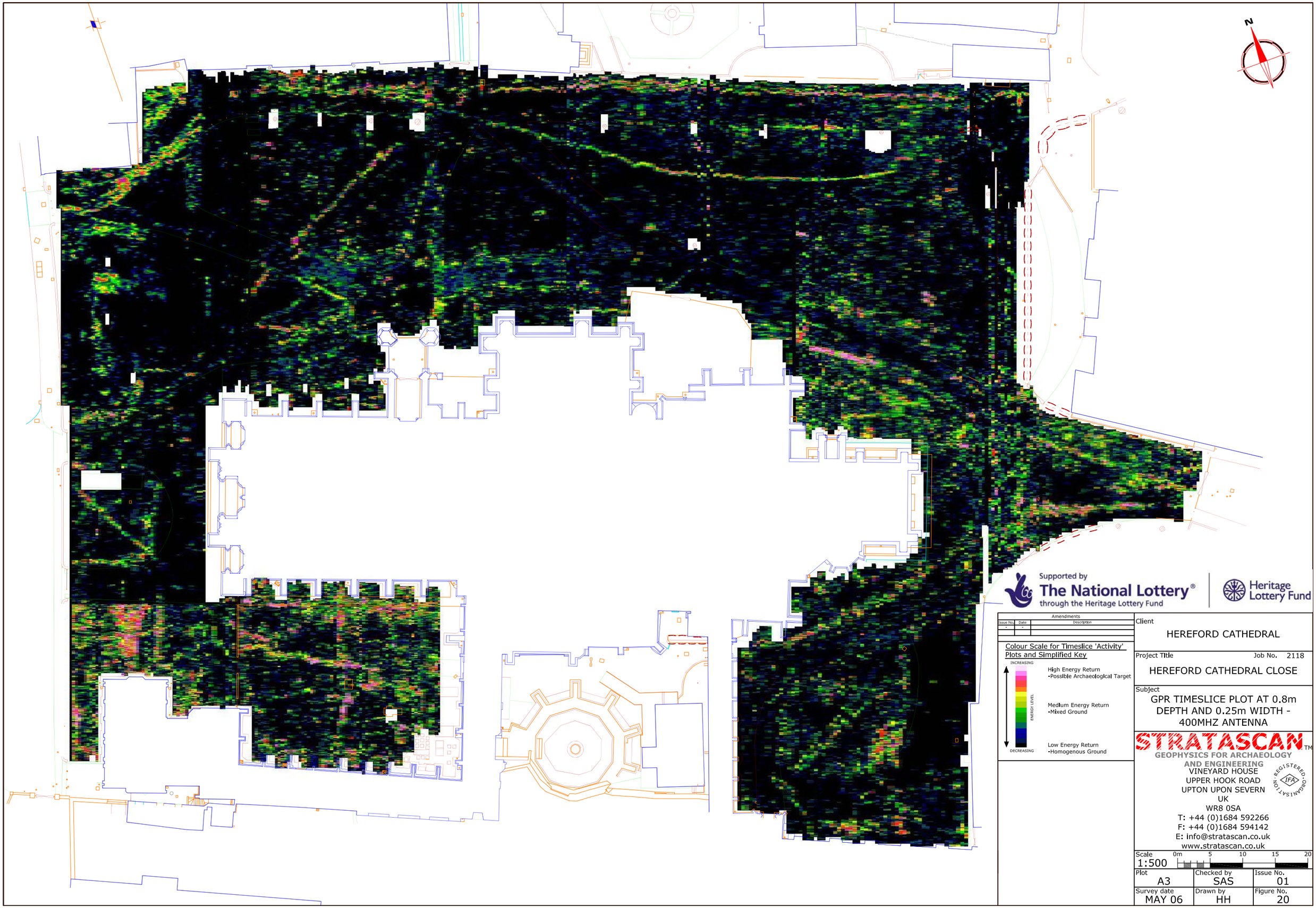
Scale 1:500 (0m 5 10 15 20)

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	19



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Amendments		
Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 0.8m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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Scale 1:500 — 0m 5 10 15 20

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	20

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Amendments		
Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 1m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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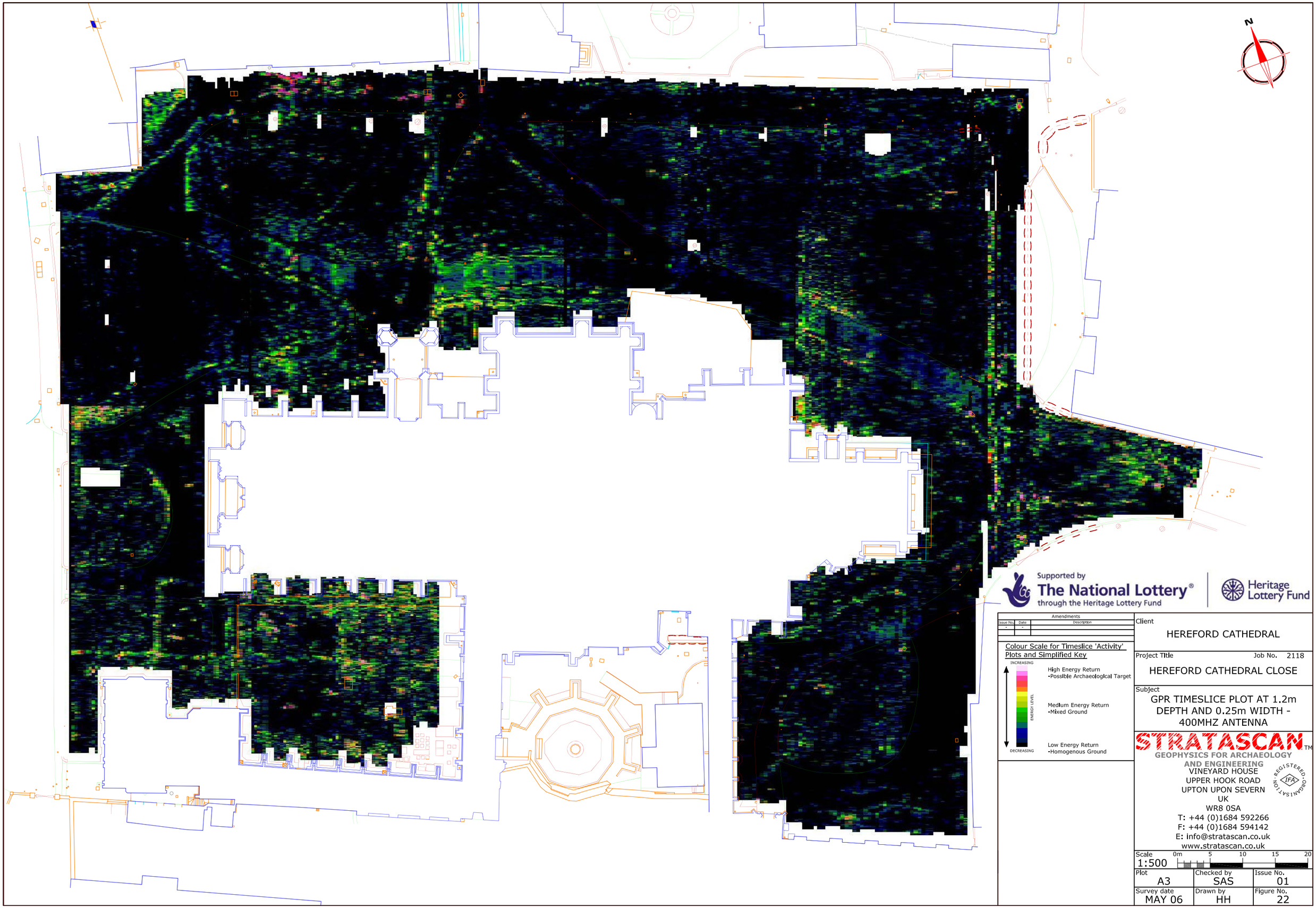
Scale 1:500 0m 5 10 15 20

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	21



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Amendments		
Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING — ENERGY LEVEL — DECREASING

- High Energy Return -Possible Archaeological Target
- Medium Energy Return -Mixed Ground
- Low Energy Return -Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title — Job No. 2118
HEREFORD CATHEDRAL CLOSE

Subject
GPR TIMESLICE PLOT AT 1.2m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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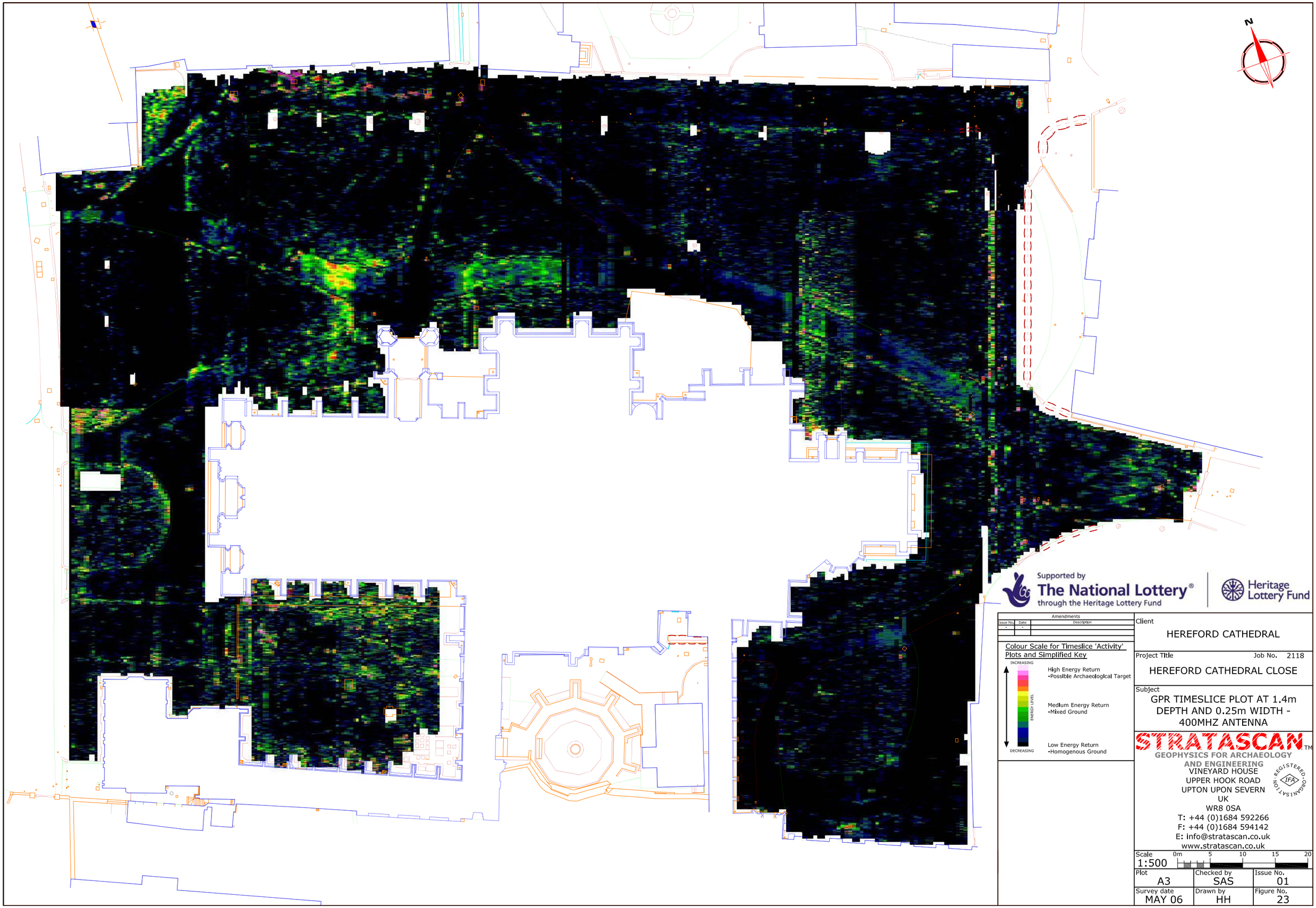
Scale 1:500 — 0m 5 10 15 20

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	22



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Amendments		
Issue No.	Date	Description
-	-	

Colour Scale for Timeslice 'Activity' Plots and Simplified Key

INCREASING

ENERGY LEVEL

DECREASING

High Energy Return
-Possible Archaeological Target

Medium Energy Return
-Mixed Ground

Low Energy Return
-Homogenous Ground

Client
HEREFORD CATHEDRAL

Project Title
HEREFORD CATHEDRAL CLOSE

Job No. 2118

Subject
GPR TIMESLICE PLOT AT 1.4m DEPTH AND 0.25m WIDTH - 400MHZ ANTENNA

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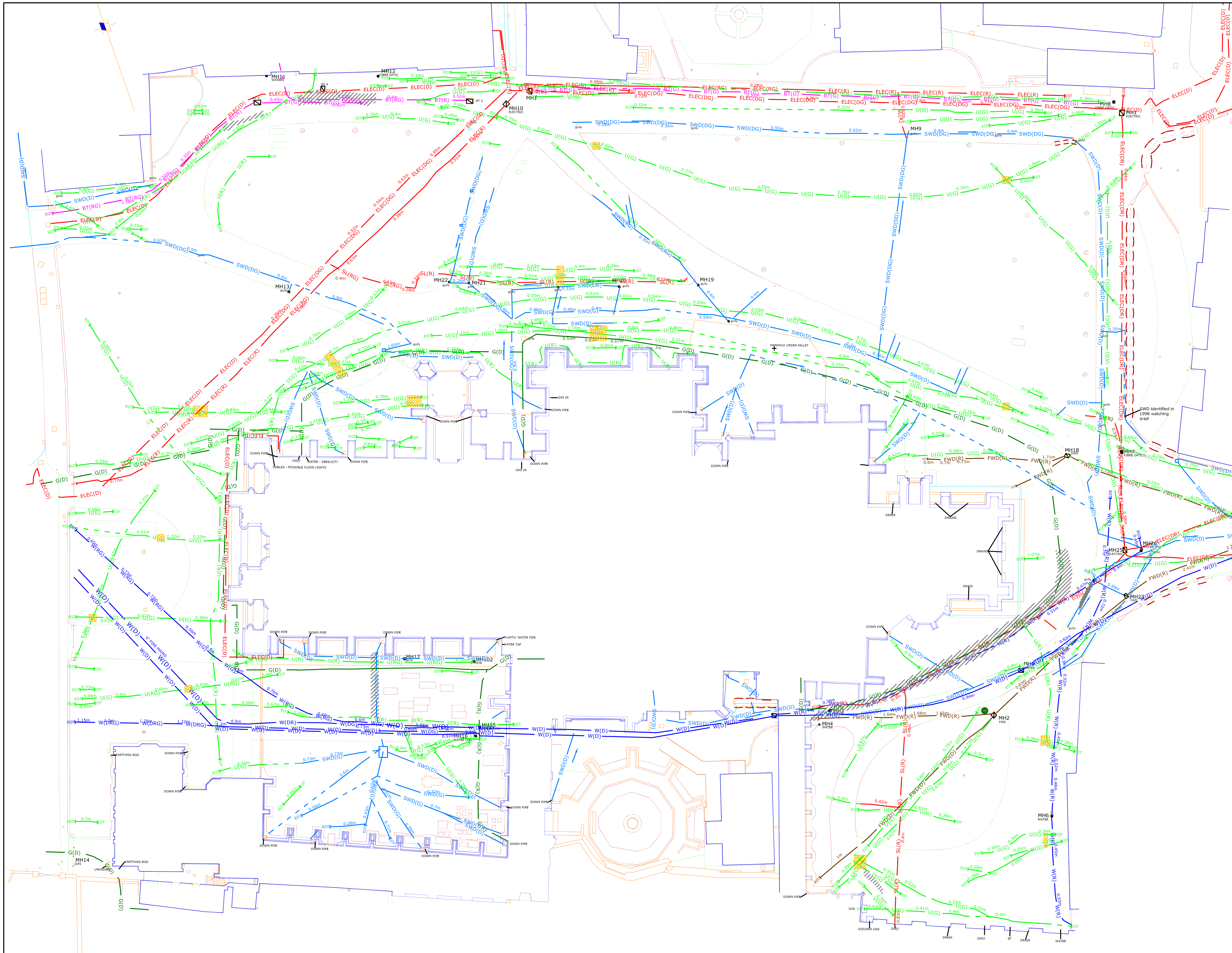
Scale	Plot	Checked by	Issue No.
1:500 (0m 5 10 15 20)	A3	SAS	01
Survey date	Drawn by	Figure No.	
MAY 06	HH	23	



Amendments		
Issue No.	Date	Description
-	-	
		-

KEY

Suggested position for intrusive investigation

Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

SUGGESTED POSITIONS FOR INTRUSIVE INVESTIGATION

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Scale 1:500 — 0m 5 10 15 20 25m

Plot	Checked by	Issue No.
A3	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	24

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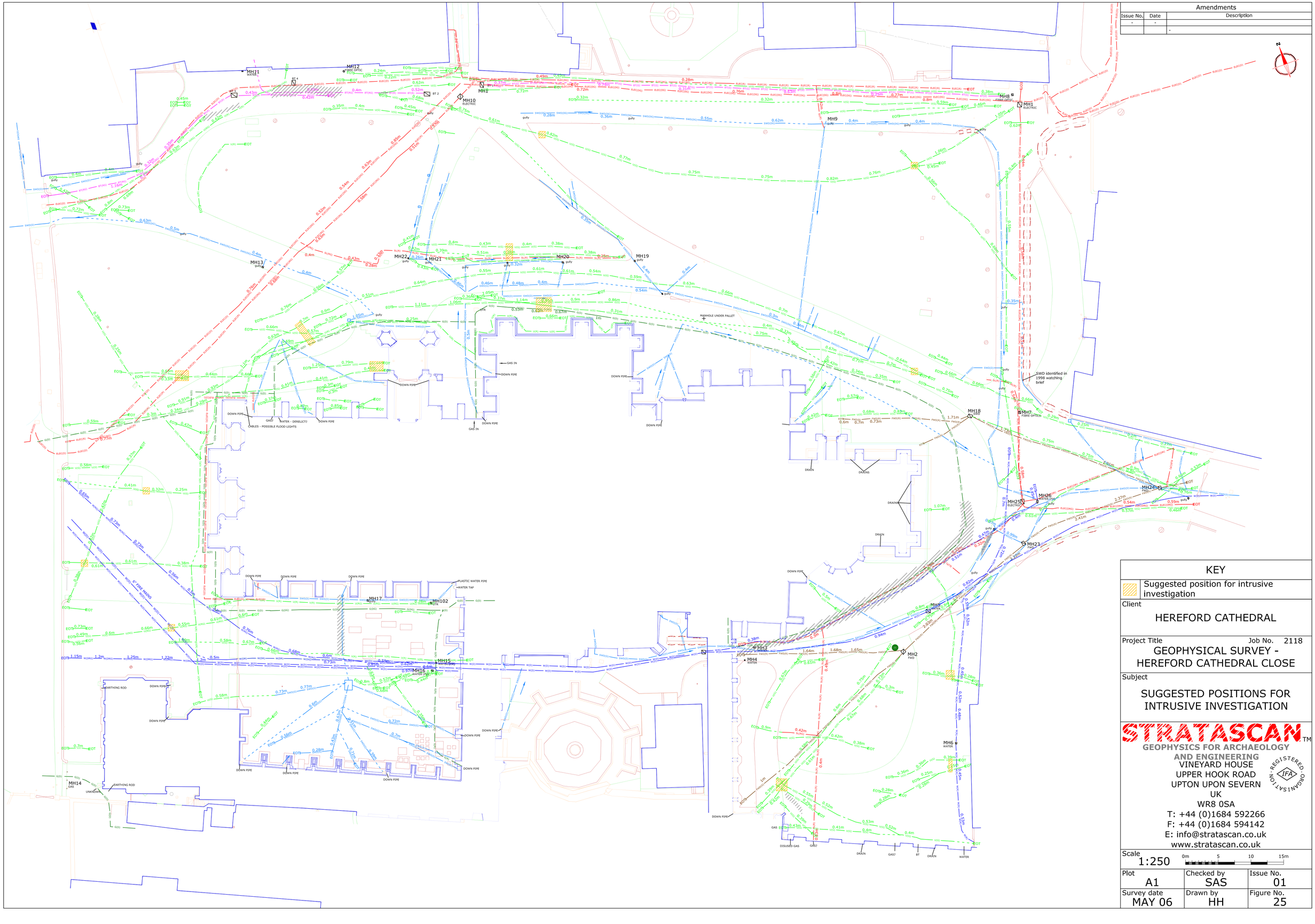

Amendments		
Issue No.	Date	Description
-	-	
		-

KEY

Suggested position for intrusive investigation

Client

HEREFORD CATHEDRAL

Project Title — Job No. 2118

GEOPHYSICAL SURVEY - HEREFORD CATHEDRAL CLOSE

Subject

SUGGESTED POSITIONS FOR INTRUSIVE INVESTIGATION

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Scale 1:250 (0m 5 10 15m)

Plot	Checked by	Issue No.
A1	SAS	01
Survey date	Drawn by	Figure No.
MAY 06	HH	25