



RAINCLOUD

BOLNEY GREEN BESS

SURFACE WATER DRAINAGE
STRATEGY

SEPTEMBER 2026



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Table of Contents

Non-Technical Summary.....	1
1 Introduction.....	2
1.1 Proposed Development.....	2
1.2 Site Location.....	2
1.3 Topography.....	3
1.4 Hydrology.....	4
1.5 Soil, Geology and Hydrogeology.....	4
2 Surface Water Drainage strategy.....	5
2.1 Drainage Hierarchy.....	5
2.2 Greenfield Calculations.....	5
2.3 Rainfall data and climate change allowances.....	6
2.4 Catchments and Impermeable Areas.....	6
2.5 Surface Water Drainage Strategy.....	7
2.6 Results.....	8
2.7 Overland and Exceedance Flows.....	8
2.8 Water Quality – Simple Index Tool.....	9
2.9 Responsibilities & Long-Term Management.....	10
2.10 Hydrocarbon / Coolant Containment.....	11
2.11 Construction Phase.....	12
3 Conclusion & recommendations.....	12
Appendix A: Site Layout.....	
Appendix B: Proposed Surface Water Drainage Strategy.....	
Appendix C: InfoDrainage Results.....	
Appendix D: West Sussex Surface Water Drainage Proforma.....	



NON-TECHNICAL SUMMARY

The revised drainage strategy adopts the same principles outlined within the previous drainage strategy. The drainage strategy will utilise swales and a detention basin to attenuate surface water before discharging to a private surface water sewer located south of the Site.

The strategy was designed to the 1 in 100-year return period plus 45% climate change event and shows no flooding within the manholes or pipe network.

Table 1: Summary of report

Element	Description	Section
Current land use	Greenfield - agricultural	1.1
Development type	Essential Infrastructure	1.1
Development Lifetime	40 years	2.3
Contributing catchment	2.593 ha	2.2
Impermeable area	2.593 ha	2.4
Infiltration possible?	No – infiltration not feasible due to clayey soils	2.1
Surface water disposal route	Discharge to a surface water sewer south of the site.	2.1
Q _{BAR}	22.4 l/s	2.2
Proposed discharge rate	22.4 l/s	2.5
Attenuation and capacity	Detention Basin 1 – 1,081.458 m ³ Detention Basin 2 – 2,650.696 m ³ Total – 3,732.154 m ³	2.5 (Appendix D)
Flow restriction	HydroBrake (or similar)	2.5
Climate change allowance	Adure and Ouse Management Catchment Central – 40 % 2070s Epoch Higher – 45 % 2070s Epoch	2.3
Water quality safeguarding	Detention basins provide sufficient water quality mitigation for the development.	2.8



1 INTRODUCTION

Raincloud Consulting Ltd ('Raincloud') has been commissioned by Envams ('the Client') to provide a Surface Water Drainage Strategy (SWDS) for the proposed Bolney Green BESS ('the Development') on land east of Wineham Lane (nearest postcode: BN5 9AZ) ('the Site').

The following report is provided to address condition 7 of the decision notice, planning application DM/21/2276.

'The development hereby permitted shall not commence unless and until details of the proposed surface water drainage and means of disposal have been submitted to and approved in writing by the local planning authority. No element of the development shall not be brought into use until all the approved drainage works have been carried out in accordance with the approved details.'

This document is also intended to meet the requirements of:

- The National Planning Policy Framework (December 2024);
- National Standards for Sustainable Drainage Systems (2025);
- CIRIA SuDS Manual (C753); and
- Mid Sussex District Plan¹

1.1 Proposed Development

The current land is agricultural and the Development is a Battery Energy Storage System (BESS) facility and associated infrastructure. The proposed layout of the Development is provided in Appendix A.

The development is classed as essential infrastructure.

1.2 Site Location

The Site is located east of Wineham Lane, Wineham, West Sussex (nearest postcode: BN5 9AZ), as shown in Figure 1.

¹ Mid Sussex District Plan. Available at: <https://www.midsussex.gov.uk/planning-building/mid-sussex-district-plan/>



Figure 1: Site location

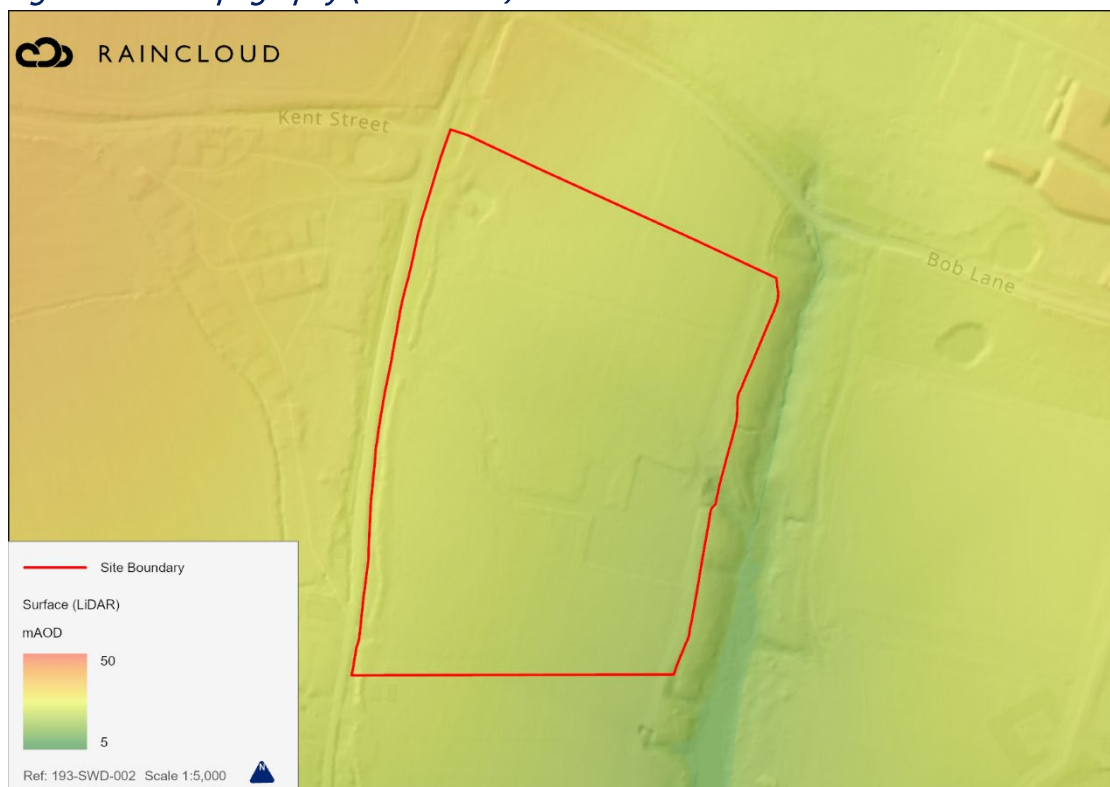


1.3 Topography

A topographical survey was undertaken by Maltby Surveys in July 2020, and highlights the Site's elevation ranges from approximately 31 metres (m) above ordnance datum (AOD) to 19 m AOD. The topographic survey is provided in Appendix B.

A visual reference of the site's elevation is provided in Figure 2 using the latest available LiDAR data (1 m resolution).

Figure 2: Site topography (LiDAR data)



1.4 Hydrology

The nearest watercourse is located approximately 30 m east of the site.

A private surface water sewer is located approximately 35 m south of the site.

1.5 Soil, Geology and Hydrogeology

Soilscapes dataset shows the underlying soils are classified as 'slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils' (soilscape 18). The drainage classification is considered to be 'impeded drainage'.

The British Geological Survey (BGS) geology viewer shows there are no superficial deposits of across the Site. The bedrock for the entire Site is mapped to be Weald Clay Formation comprised of Mudstone.

No BGS boreholes are located within the vicinity of the site (<500 m) with the same underlying geology.

2 SURFACE WATER DRAINAGE STRATEGY

2.1 Drainage Hierarchy

The drainage hierarchy, derived from the SuDS Manual, is a structured order guiding developers on how surface water run-off should be managed on a site. The key purpose of the drainage hierarchy is to prioritise the most sustainable and natural drainage solutions first, with the options further down the table becoming less sustainable. These less sustainable options should only be considered if previous options are deemed unfeasible.

Table 2 below indicates the drainage hierarchy for the Development.

Table 2: Drainage Hierarchy

SuDS Method	Description	Feasibility
Collection for re-use	No opportunity to re-use water onsite.	x
Infiltration into the ground	Infiltration is deemed unviable based on underlying geology.	x
Discharge to a watercourse	There are no watercourses on Site.	x
Discharge to a surface water sewer	There is a private surface water sewer southeast of the Site.	✓
Discharge to a combined sewer	There are no public combined sewers located within the vicinity of the Site.	x

The previous approved drainage strategy produced by Enzygo identified a private sewer with a diameter of 300 mm located approximately 30 m south of the Site. The updated surface water drainage strategy will adopt the same outfall. Details regarding the sewer is provided in the original Flood Risk Assessment / Drainage Strategy (Enzygo reference: CRM.347.007.HY.R.001.A).

Two detention basins will be used to capture runoff generated by the impermeable areas and discharge to the existing surface water sewer south of the Development.

The proposed drainage layout for the Development is provided in Appendix C.

2.2 Greenfield Calculations

Runoff from the Development shall, in principle replicate the quality and quantity of the runoff from the Site in its 'greenfield' state, as far as reasonable and practicable.

Based on a contributing area of 2.593 ha, the exiting greenfield average annual flood (Q_{BAR}) runoff from each area was calculated as 22.4 l/s, using the FEH statistical method (2025) and is shown in Table 3.



Table 3: Greenfield Run-off Rates

Return Period	Greenfield Runoff Rate ((L/s) 2.593 ha)
Q_{BAR}	22.4
1	19.1
2	19.7
30	51.6
100	71.6

2.3 Rainfall data and climate change allowances

Rainfall profiles have been derived from FEH 2022 data.

The Site is located within the Adure and Ouse Management Catchment. The Development has a lifetime of 40 years. As per the National Standards for Sustainable Drainage Systems (SuDS) the Upper End allowance 2070s has been applied, a 45 % climate change uplift. Climate change allowance for the Adure and Ouse Management Catchment have been provided in Table 4.

Table 4: Adure and Ouse Management Catchment peak rainfall allowances

Annual Exceedance Probability (AEP)	Epoch	Central Allowance (%)	Upper End Allowance (%)
3.33 %	2050s	20	35
	2070s	20	40
1 %	2050s	20	45
	2070s	25	45

An Urban creep allowance has not been applied to calculations as the Development is a commercial site *i.e.* not residential and no further hardstanding areas will be installed during the operational phase.

2.4 Catchments and Impermeable Areas

The catchments and impermeable areas of the Development are shown in Figure 3.



Figure 3: Catchments and Impermeable Areas



As a conservative approach, the gravel track within the BESS compound is assumed to be 100% impermeable to account for compaction, given it will receive the most traffic on Site. The emergency access track will only be used in rare instances and therefore is considered to be permeable. The emergency track is not included within any drainage calculations.

All contributing catchments have been assessed as impermeable.

2.5 Surface Water Drainage Strategy

The Development has been divided into twenty-six (26 No.) contributing catchments which will be captured surface water and feed to manholes and a pipe network and discharge into the detention basins located on Site.

The first detention basin has a surface area of 1025 m², base area 455 m², volume 1081.458 m³, side slope 1:4 and a depth of 1.5 m. The second detention basin has a surface area of 1,860 m², base area 855 m², volume 2,650.696 m³, side slope 1:4 and a depth of 2 m. Full details regarding the detention basins are provided in Appendix D.

The outfall from the detention basin will be controlled via a HydroBrake (or similar device) at a manhole to a discharge rate of 22.4 l/s. The outfall will be connected to the existing surface water sewer located southeast of the Development.

The surface water drainage layout is provided in Appendix B.

The outline design parameters have been validated for a number of storm durations, including the 2160-minute event, for the 1 in 30, and 1 in 100 events plus climate change design events, and the critical event for each return period is shown in Appendix D.

2.6 Results

The critical storm for the 1 in 100-year plus 45 % climate change event is the Winter 1440-minute event and 360-minute event for both detention basins. The critical storm event results are provided in Figure 4.

Figure 4: Critical Storm Event Results – 1 in 100 Year plus 45 % Climate change

Critical Storm Per Item														
Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 100 years: +45 %; 360 mins: Winter	23.389	23.389	1.489	1.489	163.9	1070.291	0.000	0.000	21.5	780.759		1	OK
Pond (2)	FEH: 100 years: +45 %; 1440 mins: Winter	20.840	20.841	1.340	1.341	65.0	1547.938	0.000	0.000	21.8	2984.096	665	42	OK

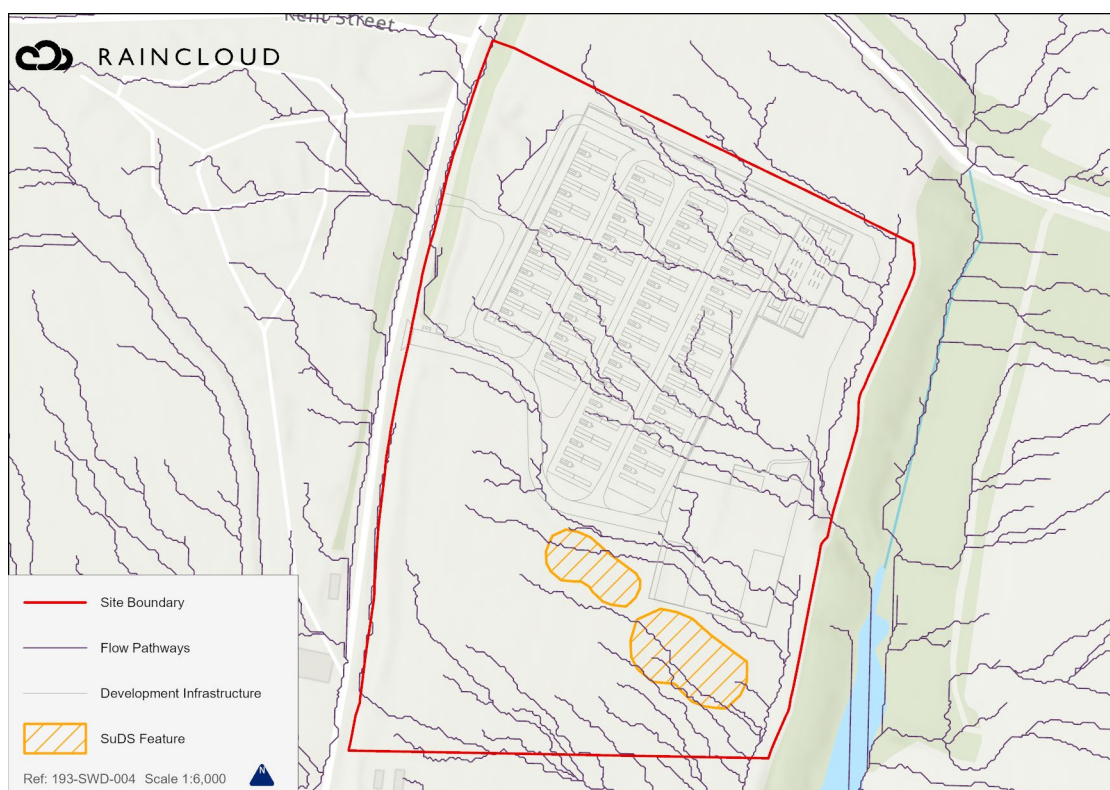
The detention basin has a half drain time of 665 minutes. Full details regarding each event and results are provided within Appendix D.

2.7 Overland and Exceedance Flows

The SuDS system has been designed to accommodate the 1 in 100 year plus 45 % climate change event. In the event the designed storm is exceeded, flows will follow the natural topography of the Site and flow to the existing land drain, as shown in Figure 5.



Figure 5: Exceedance Flow Pathway



None of the Development infrastructure or third-party developments are shown to be located within the exceedance flows. The exceedance paths following the existing topography and ultimately connect the watercourse located the east of the Site.

2.8 Water Quality – Simple Index Tool

As the Development will not be a manned facility, occasional maintenance visits will occur, and these will involve significantly less than 300 traffic movements per day. Table 26.2 Pollution hazard indices for current land use classifications of the SuDS Manual identifies that the Development has Pollution Hazard level of Low, 'non-residential car parking with infrequent changes (e.g., schools, offices) *i.e.*, <300 traffic movements / day', equating to Land Use Pollution Index outlined in Table 6.

Table 6: Pollution hazard Indices

Land use	Total Suspended Solids	Metals	Hydrocarbons
Low traffic roads (e.g. residential roads and general access roads, <300 traffic movements/day)	0.5	0.4	0.4

The detention basin and swales will be sufficient to effectively mitigate any suspended solids, metals and hydrocarbons held within surface water at the Development prior to discharging into the drain on the eastern boundary of the Site, as the Pollution Mitigation Indices for the run-off area outline in Table 7.

Table 7: Pollution mitigation indices

SuDS feature	Mitigation Indices		
	Total Suspended Solids	Metals	Hydrocarbons
Basin	0.5	0.5	0.6
Swale	0.5	0.5	0.6

As such, the treatment of the surface water run-off will meet the minimum requirements of the pollution mitigation indices outline in the SIA Tool.

2.9 Responsibilities & Long-Term Management

It will be the responsibility of the Development operator to maintain effective drainage measures and rectify drainage measures that are not functioning adequately. A nominated person will also have responsibility for reporting on the functionality of drainage measures.

Where areas remain positively drainage through the lifetime of the Development, the SuDS measures serving these areas will be checked on a regular basis. Should drainage measures require dredging or unblocking, this will be undertaken as soon as practicable by a local contractor engaged by the management company. Table 8 outlines the maintenance schedule for the proposed detention basin.

Table 8: Long-term maintenance schedule for a detention basin

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Remove litter and debris	Monthly
	Cut grass – for spillways and access routes	Monthly (during growing season), or as required
	Cut grass – meadow grass in and around basin	Half yearly (spring – before nesting season, and autumn)
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required	Monthly

	Inspect banksides, structures, pipework etc for evidence of physical damage	Monthly
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies	Monthly (for first year), then annually or as required
	Check any penstocks and other mechanical devices	Annually
	Tidy all dead growth before start of growing season	Annually
	Remove sediment from inlets, outlet and forebay	Annually (or as required)
	Manage wetland plants in outlet pool – where provided	Annually (as set out in Chapter 23)
Occasional maintenance	Reseed areas of poor vegetation growth	As required
	Prune and trim any trees and remove cuttings	Every 2 years, or as required
	Remove sediment from inlets, outlets, forebay and main basin when required	Every 5 years, or as required (likely to be minimal where effective upstream source control is provided)
Remedial actions	Repair erosion or other damage by reseeding or re-turfing	As required
	Realignment of rip-rap	As required
	Repair/rehabilitation of inlets, outlets and overflows	As required
	Relevel uneven surfaces and reinstate design levels	As required

2.10 Hydrocarbon / Coolant Containment

Bunding for aspects of the Development which require coolant or lubricants will have concrete or lined earth embankments / containment walls with 110 % capacity, similar to components of traditional substations, as shown in Figure 6.

Figure 6: Typical bunding at substations



The bunds shall have a penstock to ensure that, in the event of non-fugitive leaks, liquids can be contained / isolated from the drainage system.

2.11 Construction Phase

Given the relatively short construction phase and gently sloping site, it is not anticipated that significant amounts of sediment will be generated. The Development will adhere to a Construction Environmental Management Plan ('CEMP' – to be provided by the Construction Contractor) which will comply with the following:

- CIRIA C648 – Control of water pollution from linear construction projects²;
- CIRIA C352 – Control of water pollution from construction sites³;
- CIRIA SuDS Manual (C753)⁴; and
- CIRIA Guidance on the construction of SuDS (C768)⁵.

Measures are likely to include swales, cut-off ditches and settlement lagoons to limit the potential for sediment laden water to be transferred to the hydrological environment.

3 CONCLUSION & RECOMMENDATIONS

The Development involves the installation of approximately 2.593 ha of impermeable hardstanding at the BESS compound.

Infiltration was deemed not feasible for the Site. Discharge to a private surface water surface was deemed appropriate by the previous drainage strategy and was adopted in the revised drainage strategy.

Manholes and a pipe network will capture runoff generated from the Development and connect to a series of detention basins before discharging to the sewer outfall at the greenfield rate. The strategy was designed to the 1 in 100 critical storm, plus a 45 % uplift for climate change.

² CIRIA (2006) C648: Control of water pollution from linear construction projects: Technical Guidance [Online] Available at: <https://www.ciria.org/ProductExcerpts/C648.aspx>

³ CIRIA (2001) C532: Control of water pollution from construction sites: Guidance for consultants and contractors [Online] Available at: <https://www.ciria.org/ProductExcerpts/C532.aspx>

⁴ CIRIA (2015) C753: The SuDS Manual

⁵ CIRIA (2017) C768: Guidance on the construction of SuDS



Appendix A: Site Layout



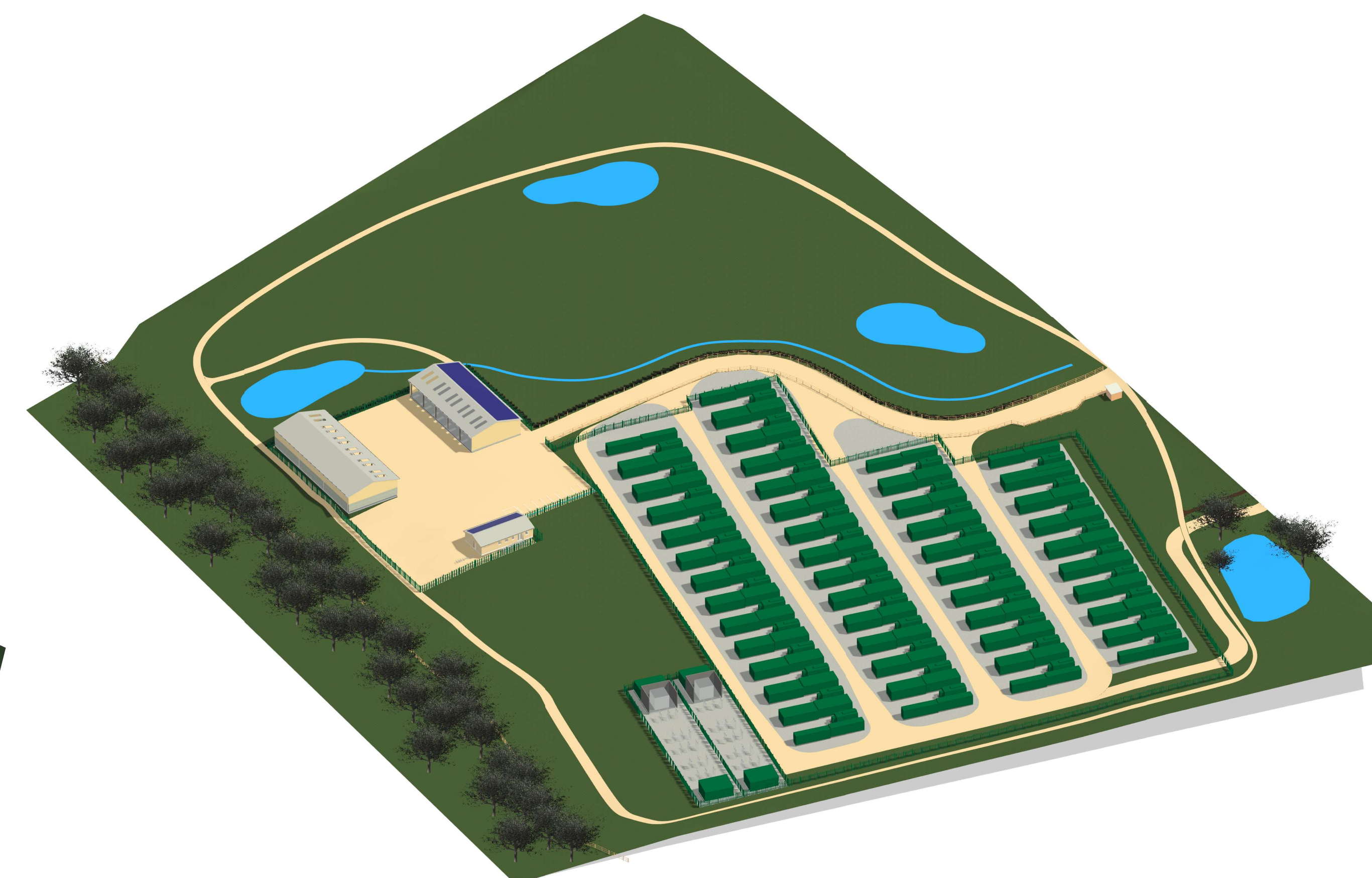


Please refer to Project Design Hazard Register for description of hazard and also further identified hazards. Also refer to other discipline drawings

Design Hazards	Hazard ID

Key Plan:

Notes:



3 3D View from NE



2 3D View from SW



1 Site Plan Proposed
1 : 500



P03	Colours revised	AptM	AptM					226
P04	Printing error corrected	AptM	AptM					227
P03	Layout Revised	AptM	AptM					248
P02	Security booth added, bund added around batteries	AptM	AptM					170
P01	Issued for Planning	AptM	AptM					116
D-INT REV	REVISION OR ISSUE	DRN	CHK					D



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Corsham, Wiltshire,
SN13 0RP.
Website www.ma24.co.uk

PROJECT:

Bolney Battery Energy
Storage Facility

	TITLE:

Site Plan - Proposed

PROJECT NO. 4020
SCALE: 1:500

DRAWN: Acl
CHECKED: Acl
APPROVED: Acl

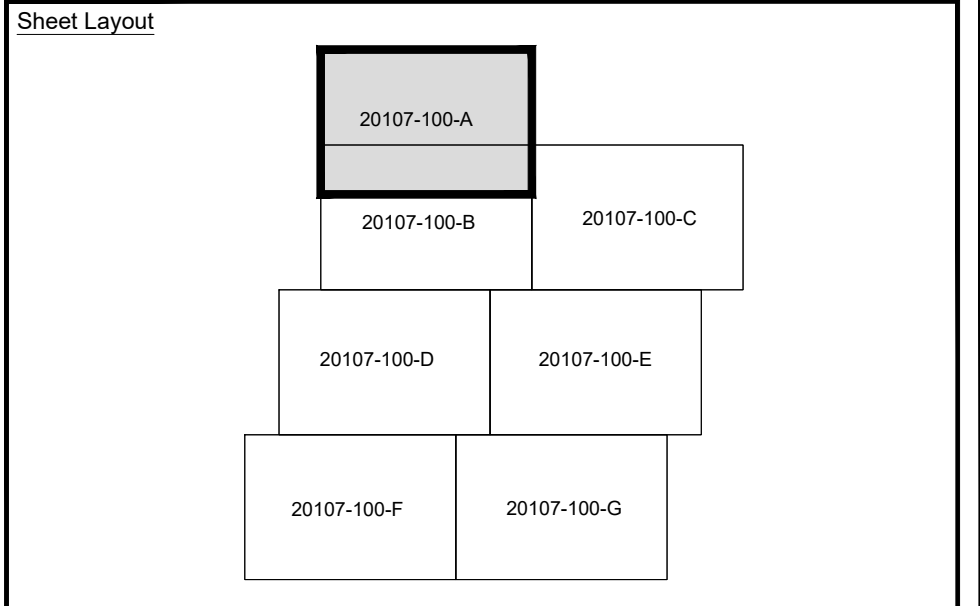
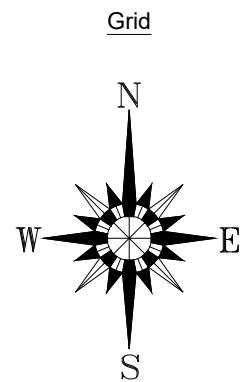
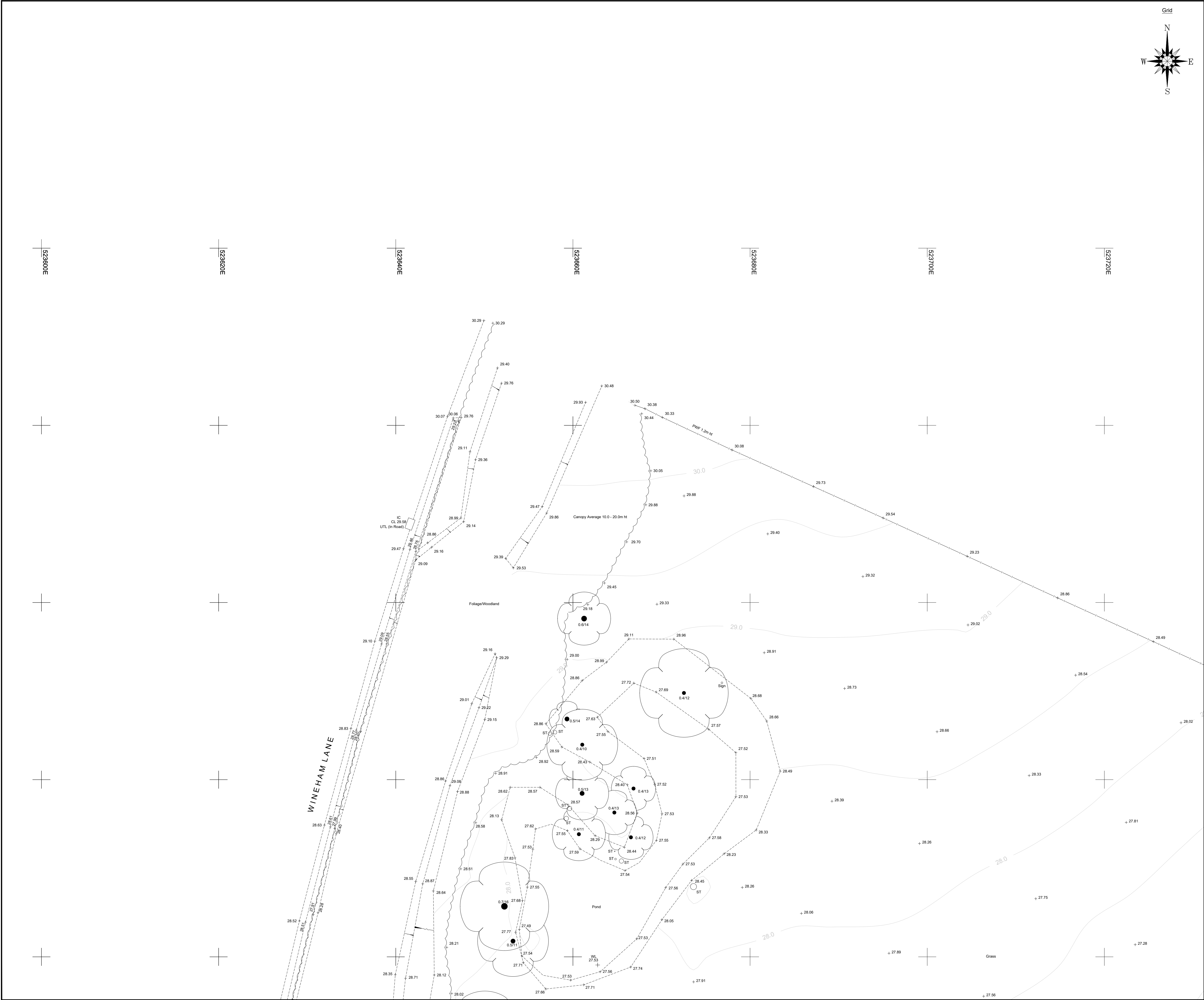
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Suitability	Revision
S04	P05

Appendix B: Topographical Survey





LEGEND

BANKING		WALL	
BUSHES & HEDGES		BUILDING	
TREES		OPEN SIDED BUILDING	
MT / ST / 0.2 / 6 Meters Height Spot, 0.2m Interval, 6m Tree		GLASS ROOFED	
NOTE:- SPREADS AND HEIGHTS ARE INDICATIVE ONLY		CONTOURS	
GATES			

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKE	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	ASH	NOTICE BOARD	NB
ARCH SPRINGER LEVEL	ASL	NAME PLATE	NP
AIR VALVE	AV	OVERHEAD WIRES	OHW
BED LEVEL	BL	PARKING METER	PM
BELISHA BEACON	BB	RIDGE LEVEL	RL
BOLLARD	B	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTMH	RODDING EYE	RE
BRICKWORK	BRWK	RETAINING WALL	RTW
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CATV	SLUICE VALVE	SV
COVER LEVEL	CL	STOP COCK	SC
CABLE MARKER	CM	SOFFIT LEVEL	SOF
COLUMN	Col	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CP	TREE STUMP	ST
EAVES LEVEL	EAV	SOIL AND VENT PIPE	SVP
ELECTRICAL COVER	ELEC	THRESHOLD LEVEL	THL
ELECTRICITY CONTROL BOX	ECB	TELEGRAPH POLE	TP
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KERB	TK
FLOWER BED	FB	TURNSTILE	TS
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO LIFT	UTL
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GAS VALVE	GV	WATER METER	WM
GULLY	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

BARBED WIRE FENCE	BWF	LARCH LAP FENCE	LLF
CORRUGATED IRON FENCE	CIF	METAL RAILING FENCE	MRF
CLOSE BOARD FENCE	CBF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	PICKET FENCE	PIF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FPO	POST AND WIRE FENCE	PWF
INTERWOVEN FENCE	IWF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV.	NOTES	DWN	DATE
A	---	---	---

Notes:
Grid and levels relate to OS GPS Active Network.
Sheet is North orientated unless stated.

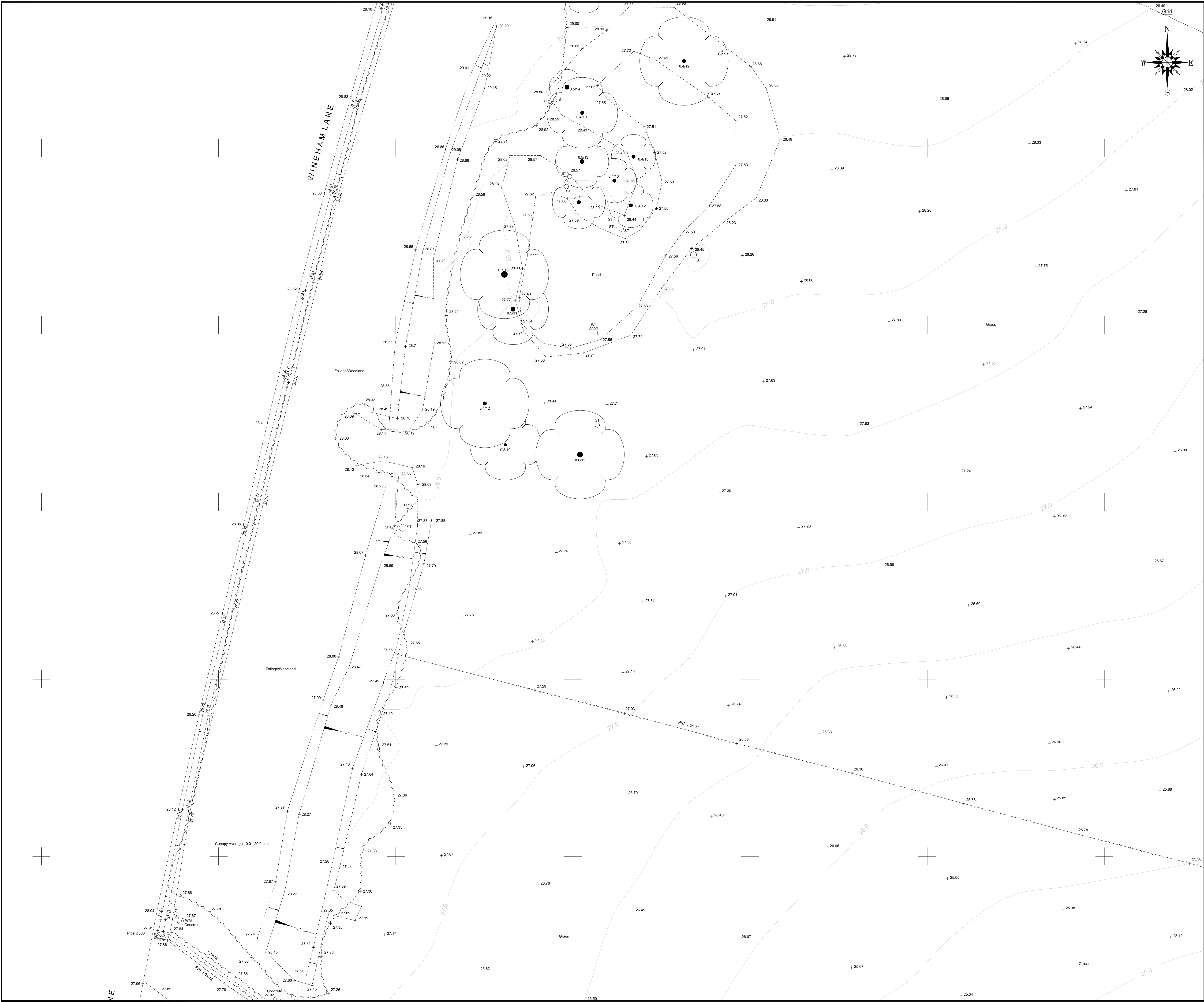
Maltby Surveys Ltd

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Wineham Lane, Wineham, Henfield, BN5 9AY

TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
20/107		20/107/100/A
Date :	July 2020	



Sheet Layout

LEGEND

BANKING
Top
Bottom

BUSHES & HEDGES
MT / 3T / 0.2 / 6

TREES
MT / 3T / 0.2 / 6

GATES
Single
Double

WALL
Width shown to scale 0.23m

BUILDING

OPEN SIDED BUILDING

GLASS ROOFED

CONTOURS
25.50

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARVER	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	ASH	NOTICE BOARD	NB
ARCH SPRINGER LEVEL	ASL	NAME PLATE	NP
AIR VALVE	AV	OVERHEAD WIRES	OHV
BED LEVEL	BL	PARKING METER	PM
BELISHA BEACON	BB	RIDGE LEVEL	RID
BOLLARD	B	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTMH	RODDING EYE	RE
BRICKWORK	BRWK	RETAINING WALL	RTW
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CATV	SLUICE VALVE	SV
COVER LEVEL	CL	STOP COCK	SC
CABLE MARKER	CM	SOFFIT LEVEL	SCF
COLUMN	Col	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CP	TREE STUMP	ST
EAVES LEVEL	EAV	SOIL AND VENT PIPE	SVP
ELECTRICAL COVER	ELEC	THRESHOLD LEVEL	THL
ELECTRICITY CONTROL BOX	ECB	TELEGRAPH POLE	TP
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TURNSTILE	TK
FLOWER BED	FB	TRAFFIC LIGHT	TL
FINISHED FLOOR LEVEL	FFL	TOP OF WALL	TW
FIRE HYDRANT	FH	UNABLE TO LIFT	UTL
FLOOR LEVEL	FL	UNABLE TO SURVEY	UTS
FLAG STAFF	FS	VENT PIPE	VP
GAS PIPE	GP	WATER METER	WM
GAS VALVE	GV	WATER LEVEL	WL
GULLY	G	WASH OUT	WO
GATE STOP	GS	WASTE PIPE	WP
INSPECTION COVER	IC	WATER TANK	WT
INVERT LEVEL	IL	WATER VALVE	WV
LAMP POST	LP		

FENCES

BARBED WIRE FENCE	BWF	LARCH LAP FENCE	LLF
CORRUGATED IRON FENCE	CIF	METAL RAILING FENCE	MRF
CLOSE BOARD FENCE	CBF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	PICKET FENCE	PIF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FPO	POST AND WIRE FENCE	PWF
INTERWOVEN FENCE	IWF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV.	NOTES	DWN	DATE
A	---	---	---

Notes:

Grid and levels relate to OS GPS Active Network.
Sheet is North orientated unless stated.

Maltby Surveys Ltd

2 QUEENS ROAD
HAYWARDS HEATH
WEST SUSSEX
RH16 1EB

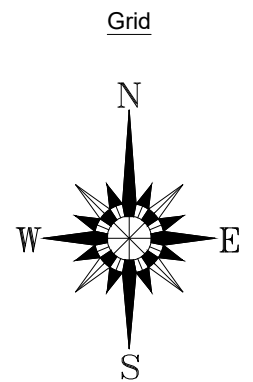
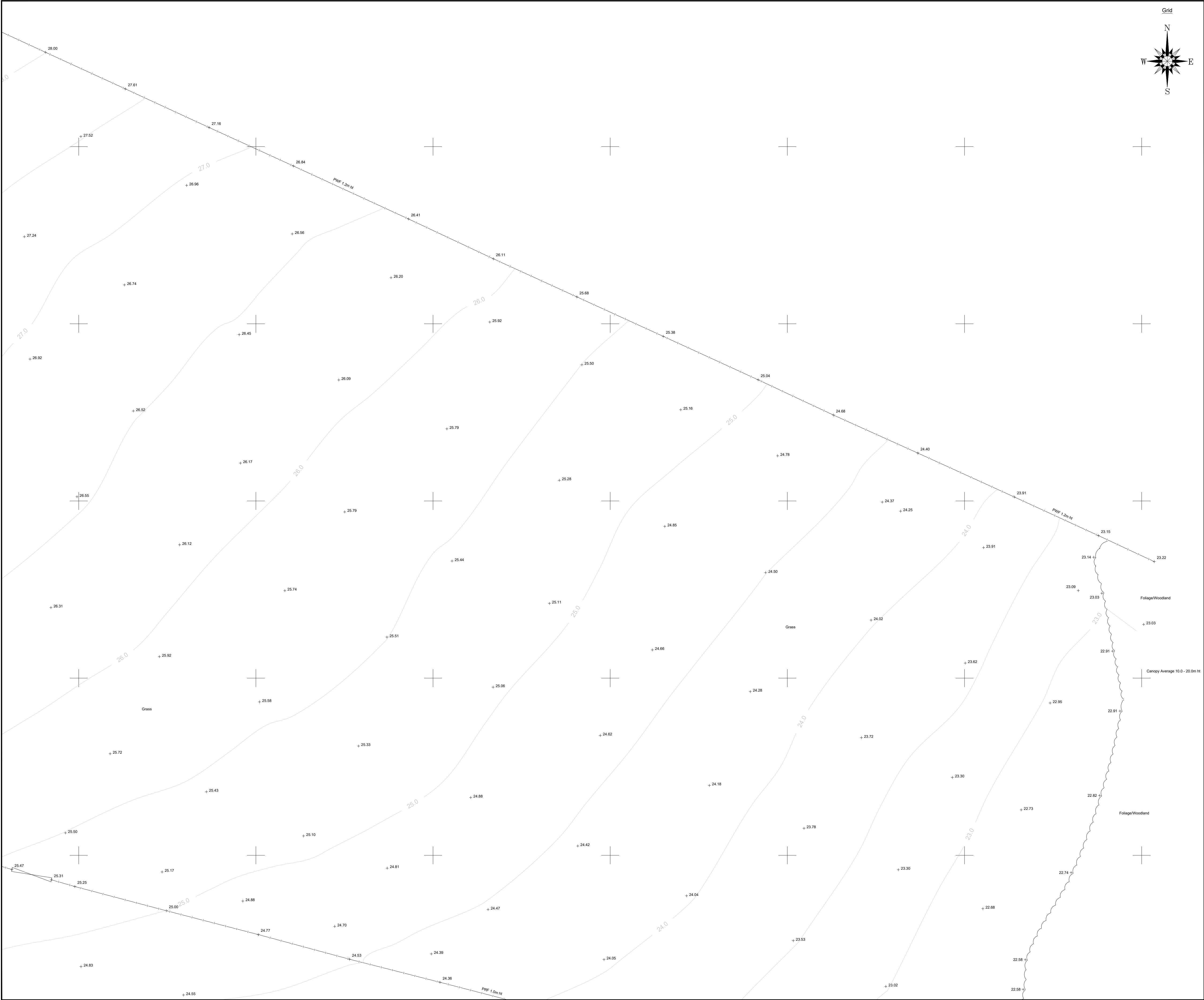
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E-Mail: mls@maltbysurveys.com
WebSite: http://www.maltbysurveys.com

SURVEYED	RP	CLIENT
DRAWN	RP	Enzygo LTD
CHECKED	RM	SCALE
		1/200 (A1 Sheet)

Wineham Lane, Wineham, Henfield, BN5 9AY

TOPOGRAPHICAL SURVEY

Job No	Rev	Drawing Number
20/107		20/107/100/B
Date :	July 2020	



Sheet Layout

20107-100-A		20107-100-C
20107-100-B		
20107-100-D	20107-100-E	
20107-100-F	20107-100-G	

LEGEND

BANKING Top Bottom	WALL Width shown to scale 0.23m
BUSHES & HEDGES	BUILDING
TREES MT / 3T / 0.2 / 6 Mature Height 3m to 6m Trunk 3m to 6m Crown 3m to 6m	OPEN SIDED BUILDING
GATES Single Double	GLASS ROOFED
CONTOURS 25.50	

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	ASH	NOTICE BOARD	NB
ARCH SPRINGER LEVEL	ASL	NAME PLATE	NP
AIR VALVE	AV	OVERHEAD WIRES	OHV
BED LEVEL	BL	PARKING METER	PM
BELISHA BEACON	BB	RIDGE LEVEL	RL
BOLLARD	B	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTMH	RODDING EYE	RE
BRICKWORK	BRWK	RETAINING WALL	RTW
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CATV	SLUICE VALVE	SV
COVER LEVEL	CL	STOP COCK	SC
CABLE MARKER	CM	SOFFIT LEVEL	SOF
COLUMN	Col	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CP	TREE STUMP	ST
EAVES LEVEL	EAV	SOIL AND VENT PIPE	SVP
ELECTRICAL COVER	ELEC	THRESHOLD LEVEL	THL
ELECTRICITY CONTROL BOX	ECB	TELEGRAPH POLE	TP
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KERB	TK
FLOWER BED	FB	TURNSTILE	TS
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO LIFT	UTL
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GAS VALVE	GV	WATER METER	WM
GULLY	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

BARBED WIRE FENCE	BWF	LARCH LAP FENCE	LLF
CORRUGATED IRON FENCE	CIF	METAL RAILING FENCE	MRF
CLOSE BOARD FENCE	CBF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	PICKET FENCE	PIF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FPO	POST AND WIRE FENCE	PWF
INTERWOVEN FENCE	IWF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV.	NOTES	DWN	DATE
A	---	---	---

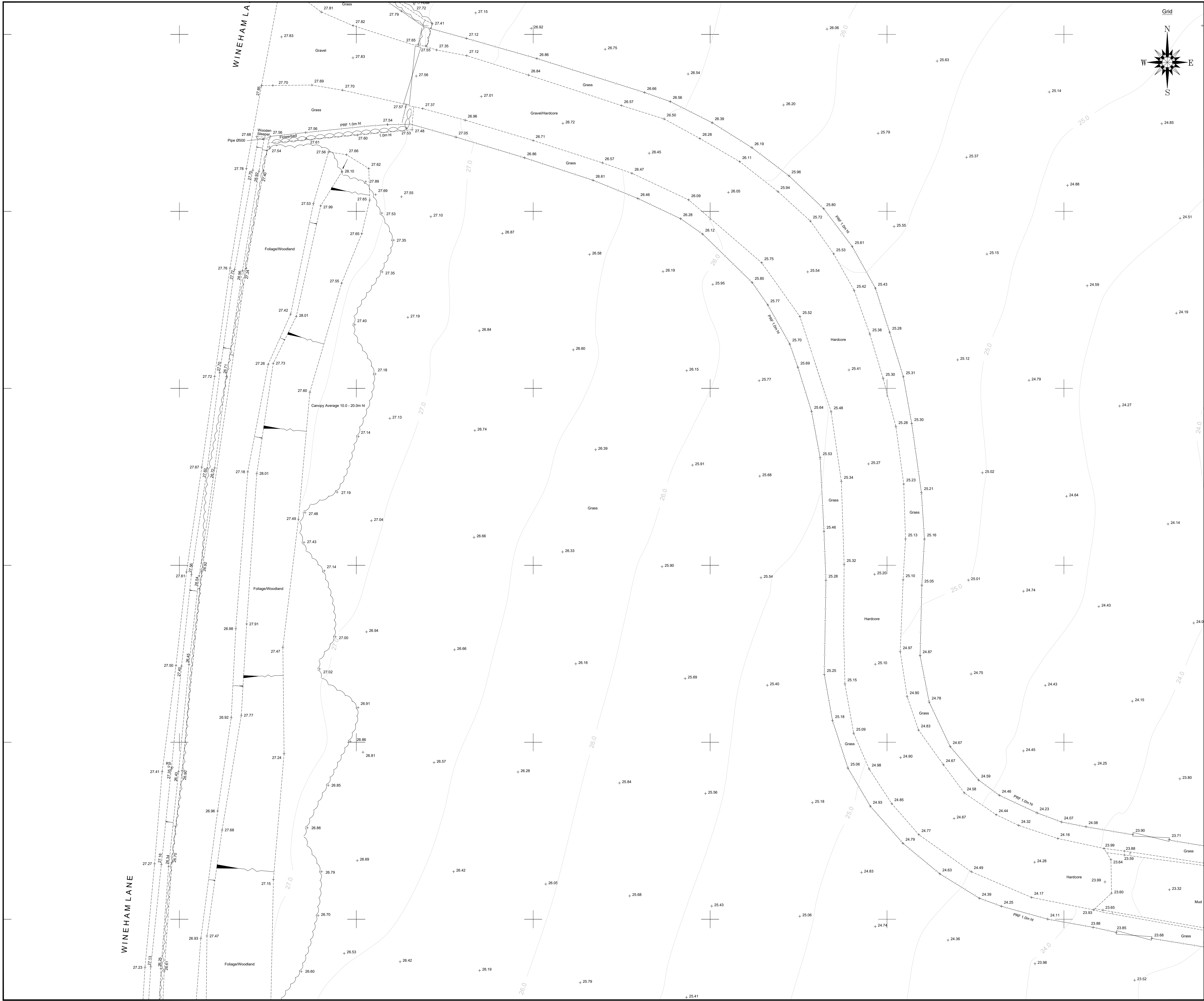
Notes:
Grid and levels relate to OS GPS Active Network.
Sheet is North orientated unless stated.

Maltby Surveys Ltd
2 QUEENS ROAD
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WebSite: http://www.maltbysurveys.com

SURVEYED	RP	CLIENT
DRAWN	RP	Enzygo LTD
CHECKED	RM	SCALE
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Wineham Lane, Wineham, Henfield, BN5 9AY

TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
20/107		20/107/100/C
Date :	July 2020	



Sheet Layout

LEGEND

BANKING: Top, Bottom

BUSHES & HEDGES: [Symbol]

TREES: MT / 3T / 0.2 / 6

GATES: Single, Double

WALL: [Symbol]

BUILDING: [Symbol]

OPEN SIDED BUILDING: [Symbol]

GLASS ROOFED: [Symbol]

CONTOURS: 25.50

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	ASH	NOTICE BOARD	NB
ARCH SPRINGER LEVEL	ASL	NAME PLATE	NP
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CABLE MARKER	CM	SOFFIT LEVEL	SCF
COLUMN	Col	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CP	TREE STUMP	ST
EAVES LEVEL	EAV	SOIL AND VENT PIPE	SV
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ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KERB	TK
FLOWER BED	FB	TURNSTILE	TS
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO LIFT	UTL
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GAS VALVE	GV	WATER METER	WM
GULLY	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

BARBED WIRE FENCE	BWF	LARCH LAP FENCE	LLF
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CHAIN LINK FENCE	CLF	PICKET FENCE	PIF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FPO	POST AND WIRE FENCE	PWF
INTERWOVEN FENCE	IWF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV. NOTES

A ---

DWN DATE

ISO 9001 REGISTERED

ISO 14001 REGISTERED

THE SURVEY ASSOCIATION

Notes:

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Maltby Surveys Ltd

2 QUEENS ROAD
HAYWARDS HEATH
WEST SUSSEX
RH16 1EB

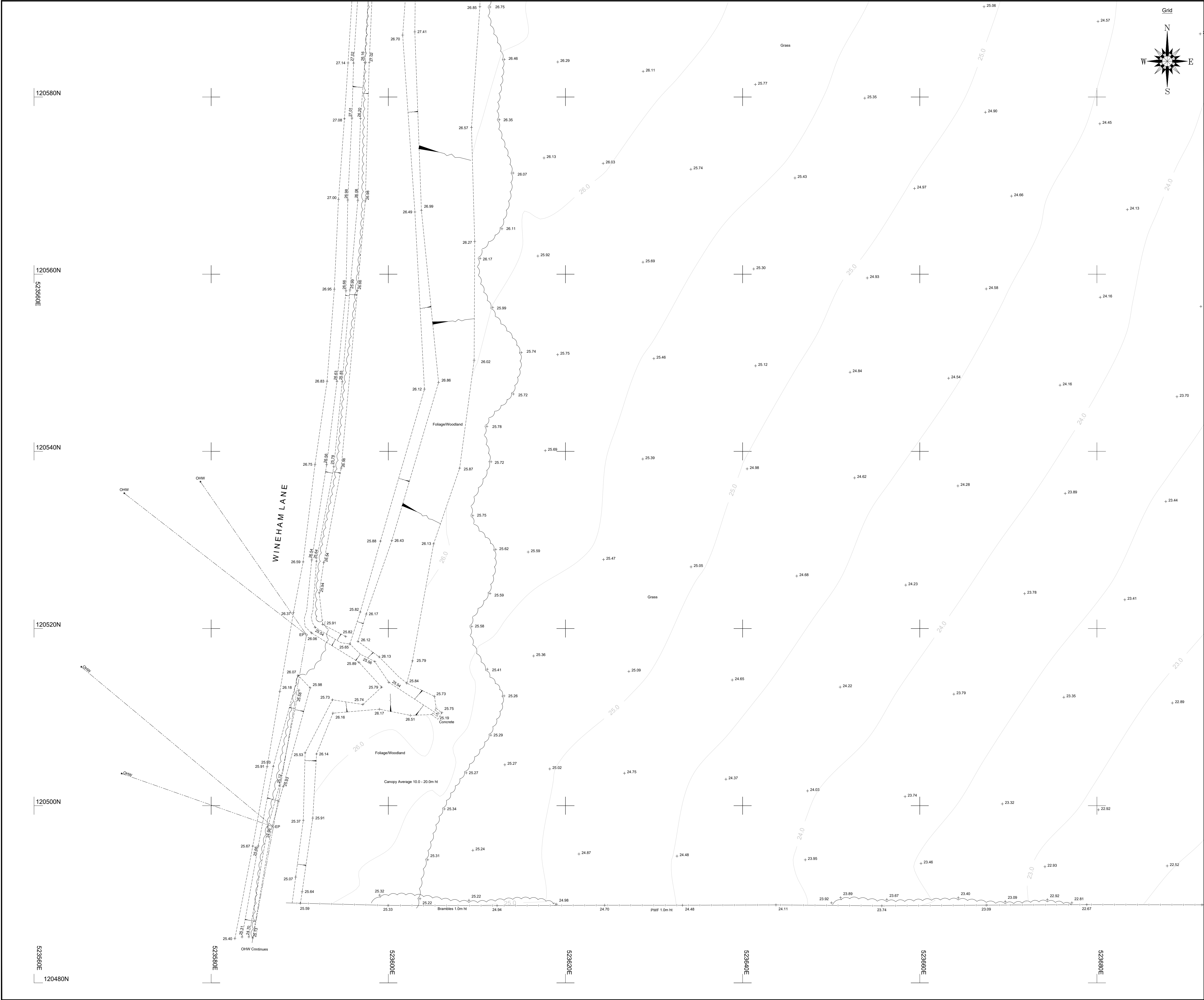
Tel: 01444 416246
Fax: 01444 417697
E-Mail: mls@maltbysurveys.com
WebSite: http://www.maltbysurveys.com

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DRAWN	RP	Enzygo LTD
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TOPOGRAPHICAL SURVEY

Job No	Rev	Drawing Number
20/107		20/107/100/D
Date	July 2020	



Sheet Layout

LEGEND

BANKING: Top, Bottom

BUSHES & HEDGES: [Symbol]

TREES: MT / 3T / 0.2 / 6

GATES: Single, Double

WALL: [Symbol]

BUILDING: [Symbol]

OPEN SIDED BUILDING: [Symbol]

GLASS ROOFED: [Symbol]

CONTOURS: 25.50

NOTE:- SPREADS AND HEIGHTS ARE INDICATIVE ONLY

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
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FLOOR LEVEL	FL	UNABLE TO SURVEY	UTS
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INSPECTION COVER	IC	WATER TANK	WT
INVERT LEVEL	IL	WATER VALVE	WV
LAMP POST	LP		

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REV.	NOTES	DWN	DATE
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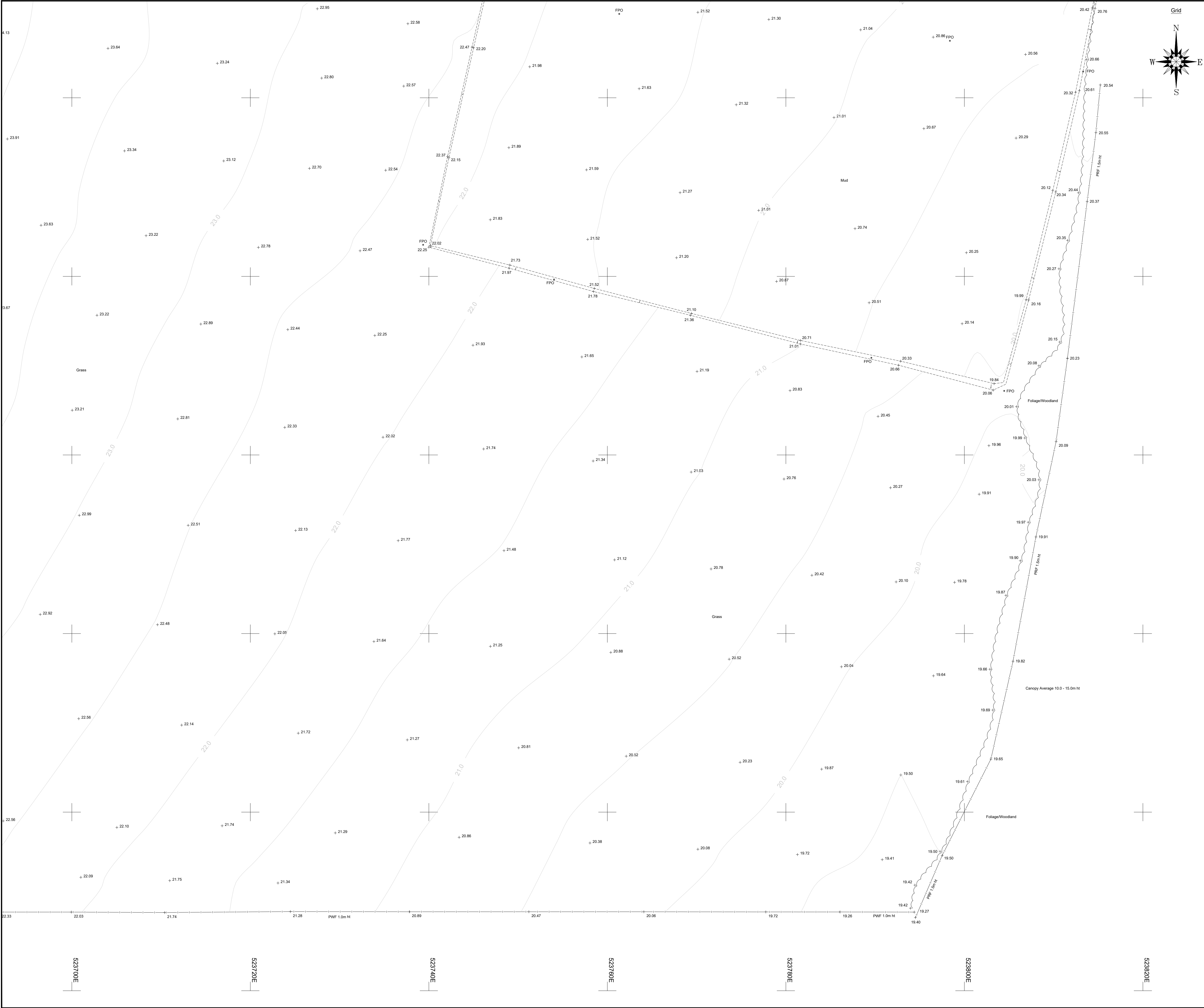
SURVEYED	RP	CLIENT
DRAWN	RP	Enzygo LTD
CHECKED	RM	SCALE
		1/200 (A1 Sheet)

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TOPOGRAPHICAL SURVEY

Job No	Rev	Drawing Number
20/107		20/107/100/F

Date : July 2020



Sheet Layout

20107-100-A

20107-100-B

20107-100-C

20107-100-D

20107-100-E

20107-100-F

20107-100-G

LEGEND

BANKING

Top

Bottom

BUSHES & HEDGES

TREES

MT / 3T / 0.2 / 6

Metres Height / No. of Trunks / Spread / 20 Year Height

GATES

Single

Double

WALL

Width shown to scale

0.25m

BUILDING

OPEN SIDED BUILDING

GLASS ROOFED

CONTOURS

25.00

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MKR
ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	ASH	NOTICE BOARD	NB
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GULLY	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

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FENCE POST	FPO	POST AND WIRE FENCE	PWF
INTERWOVEN FENCE	IWF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV.	NOTES	DWN	DATE
A	---	---	--/--

Notes:

Grid and levels relate to OS GPS Active Network.
Sheet is North orientated unless stated.

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DRAWN	RP	Enzygo LTD
CHECKED	RM	SCALE
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TOPOGRAPHICAL SURVEY

Job No	Rev	Drawing Number
20/107		20/107/100/G
Date : July 2020		

Appendix C: Drainage Layout



BOLNEY GREEN BESS

Wineham Lane, Wineham, West Sussex,
BN5 9HA

- LEGEND:
- InfoDrainage Catchments
 - SuDS Feature
 - Pipe Network
 - Manhole
 - Headwall



CLIENT:

Elements Green

PROJECT No.:	SCALE:	DATE:
193	1:750 @A3	29/09/2025
DRAWN BY:	CHECKED BY:	APPROVED BY:
EL	LN	LN
DRAWING NAME:	DRAWING No.:	VERSION:
193-BolneyGreen-DRA02	193-02	v2-0

- Notes:
- This drawing has been produced by Raincloud for the client and should not be used for anything outside of its intended purpose.
 - Do not use this drawing to scale from.
 - Drawing to be used for planning purposes only.
 - Raincloud do not take any liability for the misuse of this drawing.
 - Design based on site layout dated 02/09/2026.
 - Gravel within the compound to be Type 2 or 3 sub-base material suitable to allow runoff to migrate towards the perforated collector pipes across the site.
 - All measurements are in metres unless stated otherwise.
 - All SuDS features are sized to store a 1% AEP plus 45% climate change event.

Appendix D: InfoDrainage Parameters and Results



Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 30

Type : Catchment Area

Area (ha)	0.18
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 5

Type : Catchment Area

Area (ha)	0.141
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 27

Type : Catchment Area

Area (ha)	0.088
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 25

Type : Catchment Area

Area (ha)	0.069
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 21

Type : Catchment Area

Area (ha)	0.073
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 17

Type : Catchment Area

Area (ha)	0.07
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 13

Type : Catchment Area

Area (ha)	0.071
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 9

Type : Catchment Area

Area (ha)	0.073
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 4

Type : Catchment Area

Area (ha)	0.097
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 26

Type : Catchment Area

Area (ha)	0.066
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 24

Type : Catchment Area

Area (ha)	0.064
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 20

Type : Catchment Area

Area (ha)	0.068
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 16

Type : Catchment Area

Area (ha)	0.065
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 12

Type : Catchment Area

Area (ha)	0.066
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 8

Type : Catchment Area

Area (ha)	0.068
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 3

Type : Catchment Area

Area (ha)	0.09
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment Area 2

Type : Catchment Area

Area (ha)	0.09
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 7

Type : Catchment Area

Area (ha)	0.067
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 11

Type : Catchment Area

Area (ha)	0.066
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 15

Type : Catchment Area

Area (ha)	0.065
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 19

Type : Catchment Area

Area (ha)	0.066
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area 1

Type : Catchment Area

Area (ha)	0.089
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 6

Type : Catchment Area

Area (ha)	0.064
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 10

Type : Catchment Area

Area (ha)	0.064
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 14

Type : Catchment Area

Area (ha)	0.064
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 18

Type : Catchment Area

Area (ha)	0.062
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 31

Type : Catchment Area

Area (ha)	0.237
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 29

Type : Catchment Area

Area (ha)	0.055
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Catchment 22

Type : Catchment Area

Area (ha)	0.058
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 23

Type : Catchment Area

Area (ha)	0.127
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment 28

Type : Catchment Area

Area (ha)	0.072
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Stormwater Controls Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Pond

Type : Pond

Dimensions

Exceedance Level (m)	23.400
Depth (m)	1.500
Base Level (m)	21.900
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.019
Total Volume (m³)	1081.458

Depth (m)	Area (m²)	Volume (m³)
0.000	455.00	0.000
1.500	1025.00	1081.458

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (22)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (8)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (34)
Outlet Type	Orifice
Diameter (m)	0.110
Coefficient of Discharge	0.600
Invert Level (m)	21.900

Advanced

Perimeter	Circular
Length (m)	50.042
Friction Scheme	Manning's n
n	0.035

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Stormwater Controls Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Pond (2)

Type : Pond

Dimensions

Exceedance Level (m)	21.500
Depth (m)	2.000
Base Level (m)	19.500
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.917
Total Volume (m³)	2650.696

Depth (m)	Area (m²)	Volume (m³)
0.000	855.00	0.000
2.000	1859.98	2650.696

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (27)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (29)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (34)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (35)
Outlet Type	Orifice
Diameter (m)	0.110
Coefficient of Discharge	0.600
Invert Level (m)	19.500

Advanced

Perimeter	Circular
Length (m)	63.831
Friction Scheme	Manning's n
n	0.035

Project: Bolney Green BESS	Date: 30/10/2026			 
	Designed by: EL	Checked by: LN	Approved By: LN	
Report Title: Rainfall Analysis Criteria	Company Address: www.raincloud-consulting.co.uk			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall		
FEH		Type: FEH
Site Location	GB 523800 120400 TQ 23800 20400	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	0.000
100.0	45.000
30.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880
2160	4320

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Inflows Summary Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment 30	FEH: 100 years: +45 %: 15 mins: Summer	0.18	149.3	65.019
Catchment 5	FEH: 100 years: +45 %: 15 mins: Summer	0.14	117.2	51.064
Catchment 27	FEH: 100 years: +45 %: 15 mins: Summer	0.09	73.2	31.865
Catchment 25	FEH: 100 years: +45 %: 15 mins: Winter	0.07	45.0	20.877
Catchment 21	FEH: 100 years: +45 %: 15 mins: Summer	0.07	60.6	26.401
Catchment 17	FEH: 100 years: +45 %: 15 mins: Summer	0.07	58.1	25.289
Catchment 13	FEH: 100 years: +45 %: 15 mins: Summer	0.07	58.7	25.559
Catchment 9	FEH: 100 years: +45 %: 15 mins: Summer	0.07	60.6	26.389
Catchment 4	FEH: 100 years: +45 %: 15 mins: Summer	0.10	80.4	35.036
Catchment 26	FEH: 100 years: +45 %: 15 mins: Summer	0.07	55.0	23.968
Catchment 24	FEH: 100 years: +45 %: 15 mins: Summer	0.06	53.2	23.158
Catchment 20	FEH: 100 years: +45 %: 15 mins: Summer	0.07	56.4	24.546
Catchment 16	FEH: 100 years: +45 %: 15 mins: Summer	0.06	54.0	23.512
Catchment 12	FEH: 100 years: +45 %: 15 mins: Summer	0.07	54.6	23.767
Catchment 8	FEH: 100 years: +45 %: 15 mins: Summer	0.07	56.5	24.627

Project: Bolney Green BESS		Date: 30/10/2026			
		Designed by: EL	Checked by: LN		Approved By: LN
Report Details: Type: Inflows Summary Storm Phase: 20260928		Company Address: www.raincloud-consulting.co.uk			

Catchment 3	FEH: 100 years: +45 %: 15 mins: Summer	0.09	74.5	32.449
Catchment Area 2	FEH: 100 years: +45 %: 15 mins: Summer	0.09	75.2	32.761
Catchment 7	FEH: 100 years: +45 %: 15 mins: Summer	0.07	55.7	24.255
Catchment 11	FEH: 100 years: +45 %: 15 mins: Summer	0.07	54.7	23.821
Catchment 15	FEH: 100 years: +45 %: 15 mins: Summer	0.06	53.6	23.359
Catchment 19	FEH: 100 years: +45 %: 15 mins: Winter	0.07	43.3	20.109
Catchment Area 1	FEH: 100 years: +45 %: 15 mins: Summer	0.09	74.3	32.371
Catchment 6	FEH: 100 years: +45 %: 15 mins: Summer	0.06	53.6	23.341
Catchment 10	FEH: 100 years: +45 %: 15 mins: Summer	0.06	53.5	23.320
Catchment 14	FEH: 100 years: +45 %: 15 mins: Summer	0.06	53.4	23.269
Catchment 18	FEH: 100 years: +45 %: 15 mins: Summer	0.06	51.6	22.490
Catchment 31	FEH: 100 years: +45 %: 15 mins: Summer	0.24	196.7	85.677
Catchment 29	FEH: 100 years: +45 %: 15 mins: Summer	0.06	45.8	19.955
Catchment 22	FEH: 100 years: +45 %: 15 mins: Summer	0.06	48.5	21.114
Catchment 23	FEH: 100 years: +45 %: 15 mins: Summer	0.13	105.3	45.849
Catchment 28	FEH: 100 years: +45 %: 15 mins: Summer	0.07	59.8	26.048

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Junctions Summary Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		







Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Manhole (26)	FEH: 100 years: +0 %: 15 mins: Summer	18.97 5	17.75 0	17.812	0.062	12.4	0.000	0.000	12.4	12.996	OK
Manhole (23)	FEH: 100 years: +0 %: 15 mins: Summer	24.10 0	23.50 0	23.684	0.184	80.8	0.208	0.000	79.6	35.215	OK
Manhole (21)	FEH: 100 years: +0 %: 15 mins: Summer	22.94 0	21.74 0	22.127	0.387	294.0	0.438	0.000	283.6	143.467	OK
Manhole (20)	FEH: 100 years: +0 %: 15 mins: Summer	23.10 0	21.90 0	22.345	0.445	276.1	0.504	0.000	264.5	130.689	OK
Manhole (19)	FEH: 100 years: +0 %: 15 mins: Summer	23.40 0	22.20 0	22.523	0.323	241.4	0.366	0.000	234.4	112.504	OK
Manhole (18)	FEH: 100 years: +0 %: 15 mins: Summer	24.22 0	22.72 0	22.964	0.244	174.4	0.275	0.000	168.7	77.527	OK
Manhole (17)	FEH: 100 years: +0 %: 15 mins: Summer	24.59 0	23.39 0	23.548	0.158	135.0	0.179	0.000	132.6	59.358	OK
Manhole (16)	FEH: 100 years: +0 %: 15 mins: Summer	24.12 0	22.32 0	22.604	0.284	287.5	0.322	0.000	281.2	137.480	OK
Manhole (15)	FEH: 100 years: +0 %: 15 mins: Summer	23.93 0	22.43 0	22.825	0.395	255.1	0.446	0.000	246.2	120.844	OK
Manhole (14)	FEH: 100 years: +0 %: 15 mins: Summer	23.83 0	22.63 0	22.983	0.353	225.6	0.399	0.000	217.2	104.766	OK
Manhole (13)	FEH: 100 years: +0 %: 15 mins: Summer	23.80 0	22.90 0	23.183	0.283	194.7	0.320	0.000	188.9	88.817	OK
Manhole (12)	FEH: 100 years: +0 %: 15 mins: Summer	24.23 0	23.63 0	23.800	0.170	159.2	0.192	0.000	155.9	71.920	OK
Manhole (11)	FEH: 100 years: +0 %: 15 mins: Summer	24.72 0	24.12 0	24.289	0.169	124.8	0.191	0.000	122.0	55.728	OK
Manhole (9)	FEH: 100 years: +0 %: 15 mins: Summer	21.52 0	20.32 0	20.719	0.399	355.1	0.452	0.000	335.7	179.091	OK
Manhole (8)	FEH: 100 years: +0 %: 15 mins: Summer	24.92 0	23.92 0	24.213	0.293	183.7	0.331	0.000	173.1	84.096	OK
Manhole (7)	FEH: 100 years: +0 %: 15 mins: Summer	25.60 0	25.00 0	25.173	0.173	124.8	0.196	0.000	121.7	55.711	OK
Manhole (6)	FEH: 100 years: +0 %: 15 mins: Summer	26.05 0	25.45 0	25.592	0.142	89.4	0.160	0.000	87.1	39.301	OK
Manhole (5)	FEH: 100 years: +0 %: 15 mins: Summer	26.50 0	25.90 0	26.004	0.104	51.9	0.118	0.000	51.0	22.593	OK
Manhole (4)	FEH: 100 years: +0 %: 15 mins: Summer	25.92 0	24.92 0	25.117	0.197	215.7	0.223	0.000	210.4	100.518	OK
Manhole (3)	FEH: 100 years: +0 %: 15 mins: Summer	26.10 0	25.20 0	25.441	0.241	186.5	0.273	0.000	182.3	85.976	OK

Project: Bolney Green BESS		Date: 30/10/2026			 	
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Report Details: Type: Junctions Summary Storm Phase: 20260928		Company Address: www.raincloud-consulting.co.uk				

Manhole (2)	FEH: 100 years: +0 %: 15 mins: Summer	26.45 0	25.85 0	26.044	0.194	122.1	0.219	0.000	118.4	54.465	OK
Manhole (27)	FEH: 100 years: +0 %: 15 mins: Summer	20.60 0	19.10 0	19.339	0.239	12.4	0.270	0.000	12.4	13.242	Surcharged
Manhole (1)	FEH: 100 years: +0 %: 15 mins: Summer	26.94 0	26.34 0	26.475	0.135	87.4	0.153	0.000	85.2	38.403	OK
Manhole	FEH: 100 years: +0 %: 15 mins: Summer	27.41 0	26.81 0	26.912	0.102	51.2	0.115	0.000	50.5	22.324	OK
Manhole (28)	FEH: 100 years: +0 %: 15 mins: Summer	22.96 0	21.46 0	21.754	0.294	365.7	0.332	0.000	355.1	179.017	OK
Manhole (29)	FEH: 100 years: +0 %: 15 mins: Summer	23.87 0	22.37 0	22.705	0.335	209.2	0.379	0.000	201.3	95.113	OK
Manhole (30)	FEH: 100 years: +0 %: 15 mins: Summer	25.15 0	24.55 0	24.692	0.142	89.5	0.161	0.000	87.2	39.348	OK
Manhole (31)	FEH: 100 years: +0 %: 15 mins: Summer	25.58 0	24.98 0	25.085	0.105	51.4	0.119	0.000	50.5	22.380	OK
Manhole (32)	FEH: 100 years: +0 %: 15 mins: Summer	26.14 0	25.54 0	25.755	0.215	155.2	0.244	0.000	150.9	70.488	OK
Manhole (33)	FEH: 100 years: +0 %: 15 mins: Summer	25.16 0	24.56 0	24.734	0.174	158.7	0.197	0.000	155.3	71.806	OK
Manhole (34)	FEH: 100 years: +0 %: 15 mins: Summer	21.03 0	19.83 0	20.170	0.340	335.7	0.384	0.000	326.7	179.123	OK
Manhole (36)	FEH: 100 years: +0 %: 15 mins: Summer	25.08 5	23.54 2	23.899	0.356	456.1	0.403	0.000	430.8	216.098	OK
Manhole (10)	FEH: 100 years: +0 %: 15 mins: Summer	24.45 0	22.95 0	23.245	0.295	430.8	0.334	0.000	424.9	216.025	OK
Manhole (35)	FEH: 100 years: +0 %: 15 mins: Summer	21.60 0	21.00 0	21.161	0.161	102.9	0.182	0.000	100.6	44.823	OK
Manhole (37)	FEH: 100 years: +0 %: 15 mins: Summer	21.03 0	20.43 0	20.638	0.208	236.3	0.235	0.000	231.6	104.014	OK

Project: Bolney Green BESS		Date: 30/10/2026			 
		Designed by: EL	Checked by: LN	Approved By: LN	
Report Details: Type: Stormwater Controls Summary Storm Phase: 20260928		Company Address: www.raincloud-consulting.co.uk			



Critical Storm Per Item: Rank By: Max. DS Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH: 100 years: +45 %: 360 mins: Winter	23.389	23.389	1.489	1.489	163.9	1070.291	0.000	0.000	21.5	780.759	1.033	OK
Pond (2)	FEH: 100 years: +45 %: 1440 mins: Winter	20.840	20.841	1.340	1.341	65.0	1547.938	0.000	0.000	21.8	2984.096	41.603	OK

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Connections Summary Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





Critical Storm Per Item: Rank By: Max. Velocity

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole	Manhole (1)	27.410	26.935	0.148	32.376	1.6	0.16	73.2	OK
Pipe (1)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (1)	Manhole (2)	26.940	26.510	0.210	55.701	1.7	0.26	123.6	OK
Pipe (2)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (2)	Manhole (32)	26.450	26.099	0.264	78.997	1.8	0.46	171.8	OK
Pipe (3)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (3)	Manhole (4)	26.100	25.510	0.279	124.706	2.6	0.65	264.8	OK
Pipe (4)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (5)	Manhole (6)	26.500	26.029	0.153	32.765	1.5	0.16	74.0	OK
Pipe (5)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (6)	Manhole (7)	26.050	25.628	0.198	56.999	1.9	0.28	126.4	OK
Pipe (6)	FEH: 100 years: +45 %: 15 mins: Winter	Pipe	Manhole (7)	Manhole (33)	25.600	25.210	0.206	80.800	2.3	0.36	166.8	OK
Pipe (7)	FEH: 100 years: +45 %: 30 mins: Winter	Pipe	Manhole (8)	Manhole (36)	24.920	24.218	0.334	166.587	1.4	0.7	180.6	OK
Pipe (9)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (11)	Manhole (12)	24.720	24.332	0.205	80.812	2.5	0.37	177.3	OK
Pipe (10)	FEH: 100 years: +45 %: 30 mins: Winter	Pipe	Manhole (12)	Manhole (13)	24.230	23.795	0.220	139.887	2.0	0.26	151.6	OK
Pipe (11)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (13)	Manhole (14)	23.800	23.741	0.450	128.894	1.7	0.74	270.1	Flood Risk
Pipe (12)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (14)	Manhole (15)	23.830	23.512	0.450	151.439	2.0	1.02	315.7	Surcharged
Pipe (13)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (15)	Manhole (16)	23.930	23.189	0.450	172.574	2.3	1.62	365.7	Surcharged
Pipe (14)	FEH: 100 years: +45 %: 30 mins: Summer	Pipe	Manhole (17)	Manhole (18)	24.590	23.547	0.198	115.404	2.0	0.24	133.3	OK

Project: Bolney Green BESS				Date: 30/10/2026						
				Designed by:	Checked by:	Approved By:				
				EL	LN	LN				
Report Details: Type: Connections Summary Storm Phase: 20260928				Company Address: www.raincloud-consulting.co.uk						

Pipe (15)	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Manhole (18)	Manhole (29)	24.220	22.964	0.289	77.527	1.6	0.41	168.7	OK
Pipe (16)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (19)	Manhole (20)	23.400	23.218	0.450	163.516	1.8	0.78	290.6	Flood Risk
Pipe (17)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (20)	Manhole (21)	23.100	22.942	0.450	189.715	2.0	1.15	324.6	Flood Risk
Pipe (18)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (21)	Manhole (28)	22.940	22.623	0.450	208.325	2.5	1.13	345.2	Surcharged
Pipe (19)	FEH: 100 years: +45 %: 15 mins: Winter	Pipe	Manhole (23)	Manhole (17)	24.100	23.721	0.201	51.069	1.6	0.41	109.6	OK
Pipe (21)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (9)	Manhole (34)	21.520	21.157	0.450	260.041	2.7	1.19	437.3	Surcharged
Pipe (30)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (35)	Manhole (37)	21.600	21.202	0.233	65.004	1.8	0.37	146.0	OK
Pipe (35)	FEH: 100 years: +45 %: 1440 mins: Winter	Pipe	Pond (2)	Manhole (27)	21.500	20.839	0.125	2973.910	1.8	1.15	21.8	Surcharged
Pipe (8)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (16)	Pond	24.120	22.728	0.450	195.445	2.8	0.78	408.3	OK
Pipe (28)	FEH: 100 years: +45 %: 1440 mins: Winter	Pipe	Manhole (27)	Manhole (26)	20.600	19.534	0.085	2973.180	1.7	0.37	21.8	Surcharged
Pipe (34)	FEH: 100 years: +45 %: 240 mins: Winter	Pipe	Pond	Pond (2)	23.400	23.366	0.100	524.050	2.7	1	21.6	Surcharged
Pipe (29)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (37)	Pond (2)	21.030	20.694	0.243	150.800	4.2	0.5	335.9	OK
Pipe (15) (1)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (29)	Manhole (19)	23.870	23.431	0.450	138.193	1.6	0.91	259.4	Surcharged
Pipe (2) (1)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (32)	Manhole (3)	26.140	25.820	0.295	102.238	2.0	0.53	219.0	OK
Pipe (6) (1)	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Manhole (33)	Manhole (8)	25.160	24.734	0.234	71.806	1.8	0.26	155.3	OK
Pipe (25)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (31)	Manhole (30)	25.580	25.110	0.154	32.452	1.5	0.17	73.3	OK
Pipe (31)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (30)	Manhole (11)	25.150	24.728	0.195	57.062	1.9	0.28	126.6	OK

Project: Bolney Green BESS		Date: 30/10/2026			 	
		Designed by: EL	Checked by: LN	Approved By: LN		
Report Details: Type: Connections Summary Storm Phase: 20260928		Company Address: www.raincloud-consulting.co.uk				

Pipe (32)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Manhole (28)	Manhole (9)	22.960	22.140	0.450	259.877	2.8	0.83	446.6	Surcharged
Pipe (27)	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Manhole (34)	Pond (2)	21.030	20.170	0.251	179.123	3.6	0.77	326.7	OK
Pipe (22)	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Manhole (10)	Pond	24.450	23.245	0.354	216.025	4.1	0.59	424.9	OK
Pipe (33)	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Manhole (4)	Manhole (36)	25.920	25.117	0.277	100.518	2.1	0.4	210.4	OK
Pipe (20)	FEH: 100 years: +45 %: 30 mins: Summer	Pipe	Manhole (36)	Manhole (10)	25.085	23.935	0.334	420.616	3.8	0.82	486.1	OK

Project: Bolney Green BESS	Date: 30/10/2026		
	Designed by: EL	Checked by: LN	Approved By: LN
Report Details: Type: Phase Management Storm Phase: 20260928	Company Address: www.raincloud-consulting.co.uk		





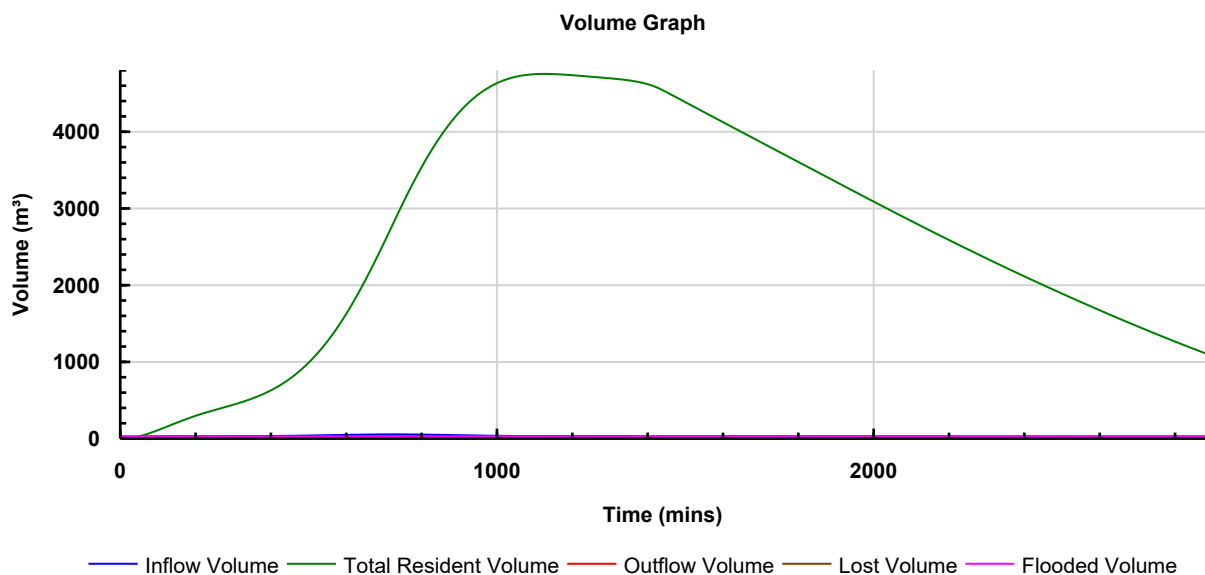
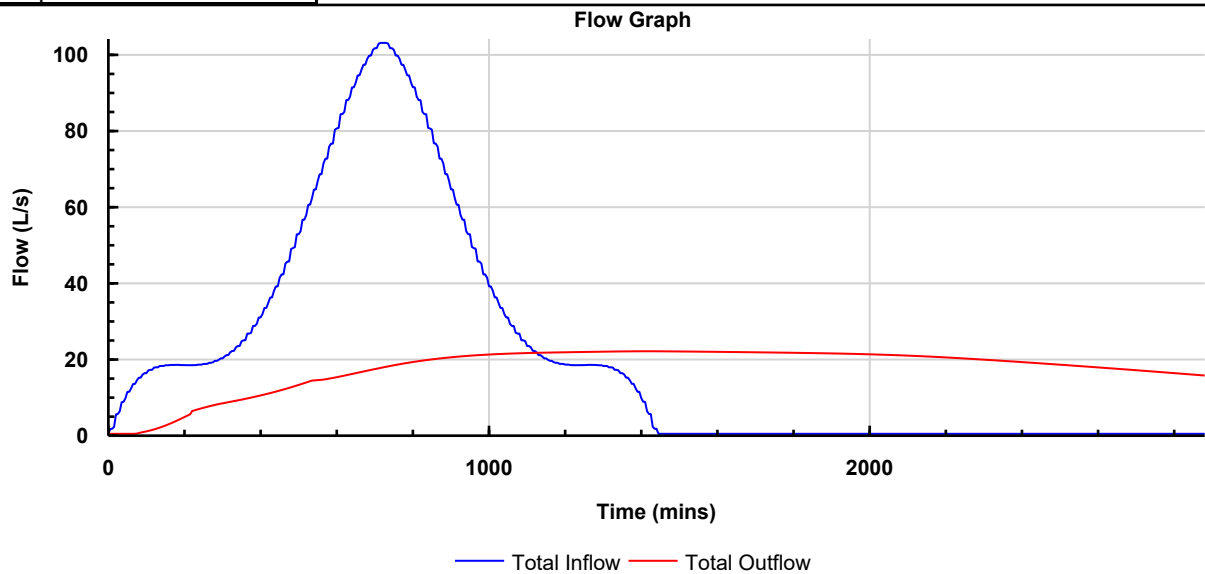
20260928

FEH: 100 years: Increase Rainfall (%): +45: 1440 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Manhole (26)			21.8	2973.180
TOTAL	103.1	3523.428	21.8	2973.180

Graphs





RAINCLOUD



FLOOD RISK



SuDS



WATER QUALITY



EIA

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