



Meridian Solar Farm

EN010169

Volume 6

Environmental Statement

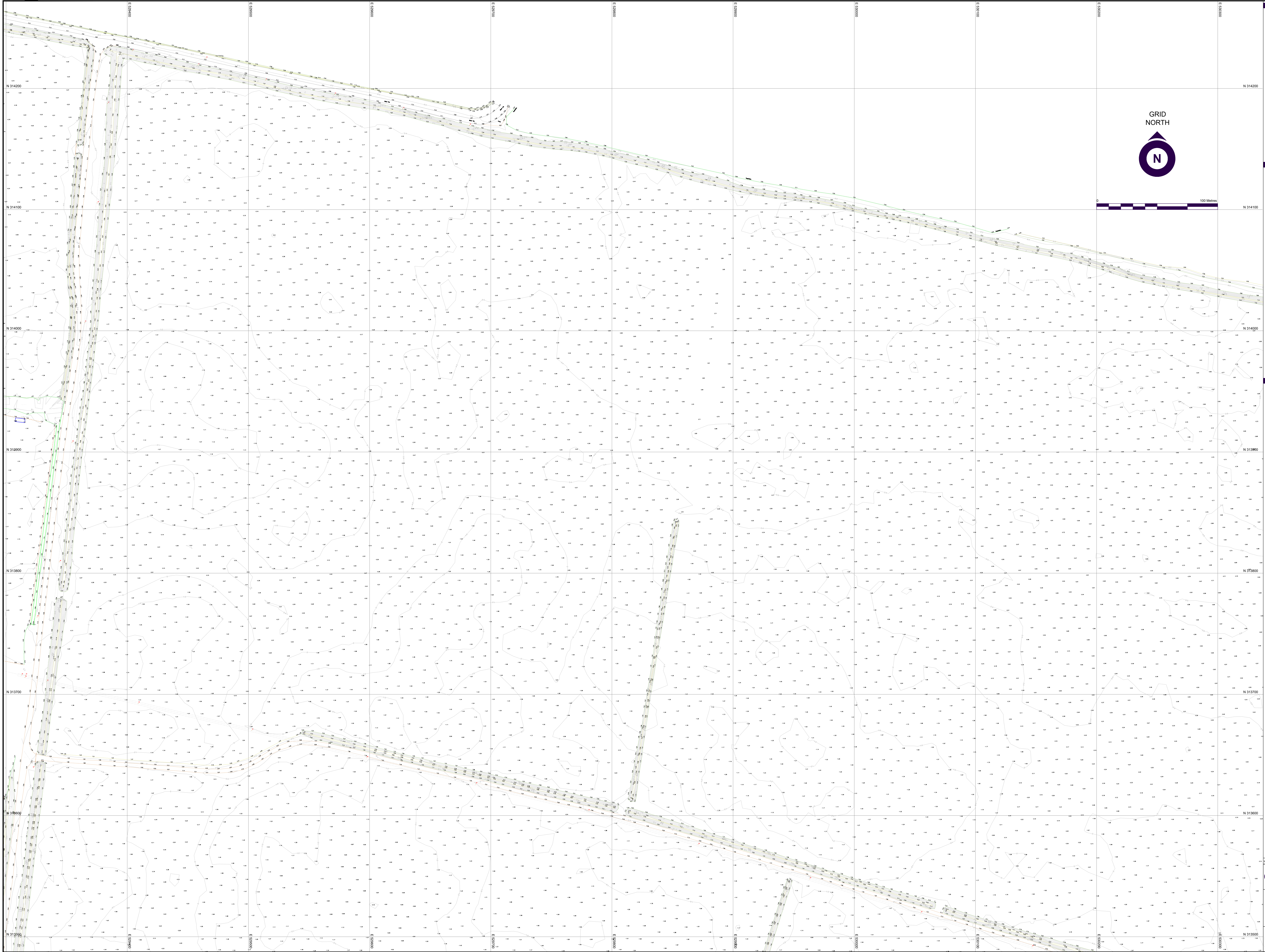
6.3 ES Appendix 11-4:
Outline Drainage Strategy
- Annex A

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications:
Prescribed Forms and Procedure)
Regulations 2009

March 2026

Annex B - Greenfield Runoff Rates



SURVEY DRAWING NOTES	A0
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L. DETAILS

HORIZONTAL

The survey is oriented to Ordance Survey Grid North and is surveyed to a plane grid. All horizontal measurements and dimensions taken from this survey will be GRID distances.

If required, full Ordnance Survey co-ordinates can be calculated by scaling the survey distance by the following factor:

Scale Factor = 0.9997866

This is derived using Trimble Business Center software Local UTM Settings calculations. The control has been established by tying into the active Ordnance Survey control network at GSG338.

The co-ordinate system used for the primary control is OSGB36; this has been calculated from the datum height of the Ordnance Survey datum parameters.

For this particular project, the TRIMBLE VRS NOW network has been used with observations taken on Tuesday 19/04/2024.

Manufacturers quoted accuracy is typically ±10 – 20 mm in plan and ±20 – 30 mm in height. As the survey is a long-term monitoring exercise, it is vital that any systematic errors or biases that could cause degradation in the final results are identified and whenever possible corrected. It is therefore essential to ensure all work is carried out to strict standards to maintain the highest accuracy possible. Accuracy requirements can be supplied if 'first observations' are requested.

Mean wave directions (MSD).

As the survey is not associated with fixed infrastructure there is no level of this site

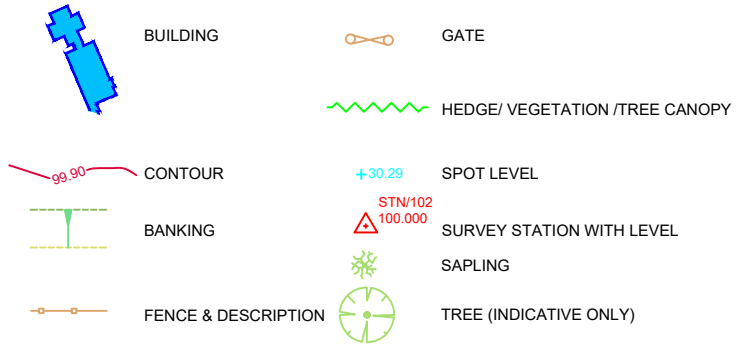
DATUM:

3. This drawing is to be read in conjunction with all other relevant drawings.

4. Check scale bar and grid before taking non-figured dimensions from this drawing. If there is any doubt please the Contact Carter Jonas measured surveys team.

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LEGEND



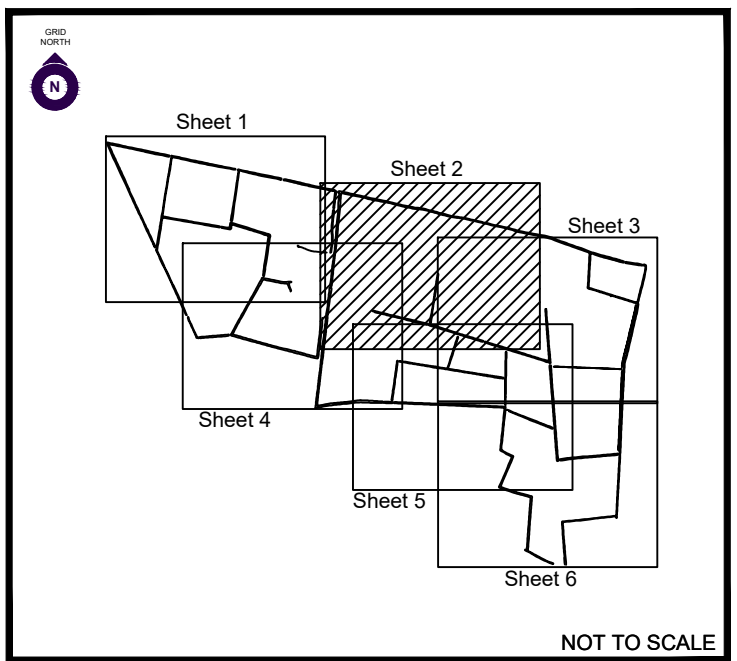
FENCE TYPE ABBREVIATIONS

B/W	Barbed wire	He	Heries
C/P	Chestnut Palling	IR	Iron Palling
C/B	Close Boarded	P/W	Post and Wale
C1	Corrugated iron	PN	Post and nail
	Cable Link	PC	POST AND CHAIN
C/Ba	Coast Barrier	P/Wa	POST AND BARBED WIRE
C/Pa	Concrete Panel	S/S	STEEL SECURITY
E/L	Electric	W/M	WIRE MESH
H/D	Hoarding		

SURVEY PLAN ABBREVIATIONS

[illegible]

SHEET LAYOUT



TREE NOTES:

A. MB = Num* TREE WITH MULTIPLE BOLES AND NUMBER OF.
B. DIAMETER OF TRUNK MEASURED AT APPROXIMATELY 1.5M ABOVE GROUND

- C. TREE HEIGHTS ARE APPROXIMATE 10% TO 20% OF CANOPY ESTIMATED FROM THE GROUND LEVEL.

GENERAL

A. OTHER CHAMBERS OR VOIDS BELOW GROUND LEVEL. THEREFORE ANY DETAILS RELATING TO DEPTHS, DIMENSIONS ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH NOT RECORDED ON THIS DRAWING.

B. THE CONTRACTOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND LEVELS BEFORE WORK STARTS.

C. BURIED SERVICES SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL NOT BE GUARANTEED. UNDER NO CIRCUMSTANCES SHOULD CONTRACTOR UNDERTAKE SUITABLE VALIDATION WORK AND TAKE PARTICULAR CARE DURING EXCAVATION WORK. SAFE DIGGING PRACTICES SHOULD BE FOLLOWED.

D. DIMENSIONS AND LEVELS INDICATED ON THIS DRAWING ARE TO BE USED TO GUIDE THE CONTRACTOR. DIMENSIONS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS, THEN CARTER JONAS SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.

E. IT IS IMPORTANT TO NOTE THAT THE SAME ACCURACIES IMPLIED BY THE PLOTTING OF THE DATA ARE TO BE MAINTAINED THROUGHOUT THE DRAWING AND LOGS.

F. EVERY EFFORT IS MADE TO IDENTIFY ALL VISIBLE ABOVE GROUND FEATURES. HOWEVER, IT SHOULD BE BORNE IN MIND THAT THERE MAY BE ITEMS OBSCURED

G. VISIBLE FEATURES IN THE VICINITY OF THE BOUNDARIES, AS SHOWN ON THIS SURVEY, MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP. H. UNLESS OTHERWISE INDICATED FEATURES SHOWN USING LINE STYLES OR HATCHINGS ARE INDICATIVE ONLY, SUCH AS: ROAD MARKINGS, HEDGE CENTRELINES, BRICK HATCHING AND GLAZING DETAIL.					
02	27/05/2024	ADDITIONAL TOPO AREA ADDED		JH	MJ
ISSUE	DATE	DESCRIPTION		DRAWN	CHECKED

Carter Jonas 12 Waterside Way, Bedford Road,
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T: 01604 606228
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Client : DOWNING LLP
Project : MERIDIAN SOLAR AREA 4 AND 5

Title : TOPOGRAPHICAL SURVEY

Scale: 1:1000@A0 Date:19/04/2024
 Drawn by: DP Surveyed by :DP
 Checked by: M.J Dwg no:10078875-24-04-02 Iss02

A0

1. **HORIZONTAL GRID**

The survey is orientated to Ordnance Survey Grid North and is surveyed to a plane grid. All horizontal measurements and dimensions taken from this survey will be GRIDNORTH distances.

If required, full Ordnance Survey co-ordinates can be calculated by locating the survey area on the OS grid and using the following formulae:

Eastings 19183.832 Dimensions 31470.120 using the following scale factor value

Local Scale factor 0.99978505

This is derived using Trimble Business Center software Local Set Settings calculations.

The control has been established by linking the above Ordnance Survey control network as follows:

The co-ordinate system used for the primary control is OSG83/03, this has been calculated from the Ordnance Survey datum of 1948.

For this particular project, the TRIMBLE VRS NOW! network has been used with observations taken on the following datums: 1880/2004

Manufacturers control accuracy is typically 10MS ± 10 – 20 mm in plan and 30 – 20 mm in height. The accuracy of the control depends upon the type, quality, condition, age, stability and other conditions that could cause degradation to the final solutions, for 'surface' control and wherever possible, control points should be set up on open sky with good satellite geometry to ensure the best and most accurate accuracy. Accuracy reports can be supplied if the client observations are required.

Mean sea level correction (MSL),

Mean sea level correction (MSL) and tide gauge data have not been applied due to the low level of this site

Altitudes for the control have been calculated from GPS derived heights and converted to Ordnance heights (Ordnance Datum Newlyn - ODN) using OSGM15 transformation parameters.

- This drawing is to be read in conjunction with all other relevant drawings.
- Check scale bar and grid before taking non-figured dimensions from this drawing.
- If there is any doubt please the Contact Carter Jonas measured surveys team.
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BUILDING
 GATE
 HEDGE/VEGETATION/TREE CANOPY
 CONTOUR
 BANKING
 FENCE & DESCRIPTION
 SPOT LEVEL
 SURVEY STATION WITH LEVEL
 SAMPLING
 TREE (INDICATIVE ONLY)

[illegible]

- D. MS = "None" TO MANY WITH MULTIPLE BOLES AND NUMBER OF.
- B. DIAMETER OF TRUNK MEASURED AT APPROXIMATELY 1.5M ABOVE GROUND TRUNK READ IS DIAMETER OF CANOPY AND ARE INDICATIVE ONLY REPRESENTING A GENERALIZED CANOPY SIZE. TREE BOLES MAY NOT BE LOCATED
- C. TREE HEIGHTS ARE APPROXIMATE ONLY TO TOP OF CANOPY ESTIMATED FROM GROUND LEVEL.
- D. TREE TYPES HAVE NOT BEEN IDENTIFIED BY AN ARBORICULTURAL CONSULTANT AND HAVE THEREFORE OFTEN BEEN ASSIGNED THE GENERAL FAMILY OR COLLOQUIAL TREE NAMES RATHER THAN THEIR FULL INDIVIDUAL SPECIES NAMES
- E. ATTENTION SHOULD BE PAID TO THE ORIGINAL TOPOGRAPHICAL BRIEF AS TO WHAT TREES HAVE ACTUALLY BEEN SCHEDULED. I.E. THOSE TREES LARGER THAN DIAMETER "X" OR ONLY TREES WITHIN THE IMMEDIATE SURVEY LIMITS. (THIS IS NAMEDLY THE CASE UNLESS OTHERWISE SPECIFIED AS INCLUDING "OFF SITE TREES").

[illegible]

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T: 01604 608228
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Project : MERIDIAN SOLAR, AREA 4 AND 5

Title : TOPOGRAPHICAL SURVEY

Scale: 1:1000@A0 Date:19/04/2024

Drawn by: DP Surveyed by :DP

DETAILS

TAL GRID

All measurements to Ordnance Survey Grid North are surveyed to a plane grid. All settlements and directions taken from this survey will be GROUND distance.

The Ordnance Survey coordinates can be calculated by scaling the survey to coincide with localities:

832 Northings 1470 Easings for the following scale factor value
for 1:999766

using Trimble Business Center software Local Site Settings calculation to establish the heighting in the fixed Ordnance Survey control network as the datum used for the primary control is OSGD83; this has been converted from the OSGD83 transformation parameters.

The project name, TRIMBLE RV NOW, network has been used with observations recorded at 1 Hz.

A projected coordinate system is applied: RMS 1950 - 20 mm in plan and -30 mm in height, from between Barmston depending upon day, satellite geometry and other factors may result in slight variations in the actual solution; and whenever applicable, Central Zone have used an open sky star satellite geometry so as to ensure maximum accuracy. Accuracy reports can be supplied for all observations required.

Corrections (MAD) to the above data therefore not been applied due to the level of this is the best available.

control have been calculated from GPS derived heights and converted to heights (Ordnance Datum Newlyn - ODN) using CGS2015 transformation

BUILDING		GATE
		HEDGE/VEGETATION/TREE CANOPY
CONTOUR	+30.20 	SPOT LEVEL
DRAINAGE		SURVEY STATION WITH LEVEL
		SAMPLING
PLANTING & DESCRIPTION		TREE (INDICATIVE ONLY)

TYPE ABBREVIATIONS

and wire	Ho	Horis
out Pailing	UR	Iron Railing
Scaffolded	PW	Post and Wire
galled Iron	NR	Post and nail
Link	PC	POST AND CHAIN
Barrier	PBw	POST AND BARBED WIRE
into Panel	S/S	STEEL SECURITY
ic	WM	WIRE MESH

[illegible]

SHEET LAYOUT

TABLE 1
EFFECTS OF MULTIPLE ROLES AND NUMBER OF
CHILDREN ON THE PARENTS' PERCEPTIONS OF
THEIR CHILDREN'S PROBLEMS AND
PROBLEMS OF THE CHILDREN
(*N* = 100)

WORK SHALL BE MADE FOR SUB SURFACE ENTRY INTO MANHOLES OR
DUG OR VOIDS BELOW GROUND LEVEL. THEREFORE ANY DETAILS
DEPTH, SIZES ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH
APPROXIMATE ONLY.
FOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND
WORK STARTS.

AS SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL
OF UNKNOWN CONDITION, CONTRACTORS SHOULD UNDERTAKE
ATION WORK AND TAKE PARTICULAR CARE DURING EXCAVATION

NOTED PRIOR TO CONSTRUCTION ON SITE.

TO NOTE THAT THE SAME ACCURACIES IMPLIED BY THE PLOTTING ARE APPLICABLE TO DIGITAL DATA SUPPLIED FOR CAD.

IS MADE TO IDENTIFY ALL VISIBLE ABOVE GROUND FEATURES. SHOULD BE BORNE IN MIND THAT THERE MAY BE ITEMS OBSCURED BY SURVEY.

FEATURES IN THE VICINITY OF THE BOUNDARIES, AS SHOWN ON THIS MAP, DO NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.

FEATURES INDICATED BY THE FOLLOWING LINE STYLES OR PATTERNS ARE INDICATIVE ONLY, SUCH AS: ROAD MARKINGS, HEDGE OR FENCE, HATCHING AND GLAZING DETAIL.

ADDITIONAL TOPO AREA ADDED	JH	MU
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MERIDIAN SOLAR, AREA 4 AND 5

00@A0 Date: 19/04/2024

r: MJ Dwg no: J0078875-24-04-04_Iss02

A0

The survey is coordinated by Ordnance Survey (OS) North and will be a ground to ground, all horizontal measurements and dimensions. Since this survey will be surveyed to the nearest millimetre, the following accuracy can be calculated by scaling the survey area by the site contour to co-ordinates:

OS 100 000 000 Northings = 1:473 122 (rounded)

Local Scale factor: 1.9997689

This is derived using: Trimble Business Center software Local Site Settings calculations. This control has been established by joining into the active Ordnance Survey control network as follows:

The coordinate system used for the primary control is OSGB36; this has been calculated from ETRS89 using the OSTN02 transformation now.

For the particular project, the TRIMBLE VRS NOW network has been used with observations taken on the following datum: 10604204.

Manufacturers supplied accuracy is typically: 10 mm – 20 mm in day, and 20 – 30 mm in height. These figures are based on a number of factors including: day, satellite geometry and other conditions that could cause degradation to the final accuracy. For safety control and wherever possible, the survey will be carried out using an open sky to the good of satellite geometry so as to maintain the highest possible accuracy. Accuracy records can be supplied if final observations are required.

Mean sea level correction (MSL)

Measure to be disregarded and have therefore not been applied, due to the low quality of the required data.

Altitudes for the control have been calculated from GPS derived heights and converted to Ordnance heights (Ordnance Datum Newlyn - ODN) using OSGM15 transformation parameters.

This drawing is to be read in conjunction with all other relevant drawings.

Check scale bar and grid before taking non-figure dimensions from this drawing.

If there is any doubt please the Contact Clerk Jonas measured surveys team.

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	BUILDING		GATE
	CONTOUR		HEDGE / VEGETATION / TREE CANOPY
	BANKING		SPOT LEVEL
	FENCE & DESCRIPTION		SURVEY STATION WITH LEVEL
			SAPLING
			TREE (NONCATIVE ONLY)

FENCE TYPE ABBREVIATIONS			
B/W	Barbed wire	Ho	Horns
CP	Chestnut Paling	UR	Iron Railing
CB	Corse Boarded	P/W	Post and Wire
CA	Computed from	PR	Post and rail
CL	Chain Link	PC	POST AND CHAIN
CBa	Cash Barrier	PBw	POCKET AND BARBED WIRE
CPa	Concrete Panel	S/S	STEEL SECURITY
EL	Electric	WM	WIRE MESH

[illegible]

A. DIAMETER TREE WITH MULTIPLE HOLES AND NUMBER OF HOLES
B. NUMBER OF TRUNK MEASURED AT APPROXIMATELY 1.5M ABOVE GROUND
C. TREE READ IS DIAMETER OF CANOPY AND ARE INDICATIVE ONLY REPRESENTING A GENERALISED CANOPY SIZE. TREE HOLES MAY NOT BE LOCATED
D. DISTANCE TO THE CANOPY
E. TREE HEIGHTS ARE APPROXIMATE ONLY TO TOP OF CANOPY ESTIMATED FROM GROUND LEVEL
F. THE TREE TYPES HAVE NOT BEEN IDENTIFIED BY AN ARBORICULTURAL CONSULTANT AND HAVE THEREFORE OFTEN BEEN ASSIGNED THE GENERAL FAMILY OR COLLOQUIAL TREE NAMES RATHER THAN THEIR FULL INDIVIDUAL SCIENTIFIC NAMES
G. ATTENTION SHOULD BE PAID TO THE ORIGINAL TOPOGRAPHICAL BRIEF AS TO WHAT TREES HAVE ACTUALLY BEEN SCHEDULED; I.E. THOSE TREES LARGER THAN DIAMETER 'X' OR ONLY TREES WITHIN THE IMMEDIATE SURVEY LIMITS. THIS IS NORMALLY THE CASE UNLESS OTHERWISE SPECIFIED AS INCLUDING 'OFF SITE TREES'.

[illegible]

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