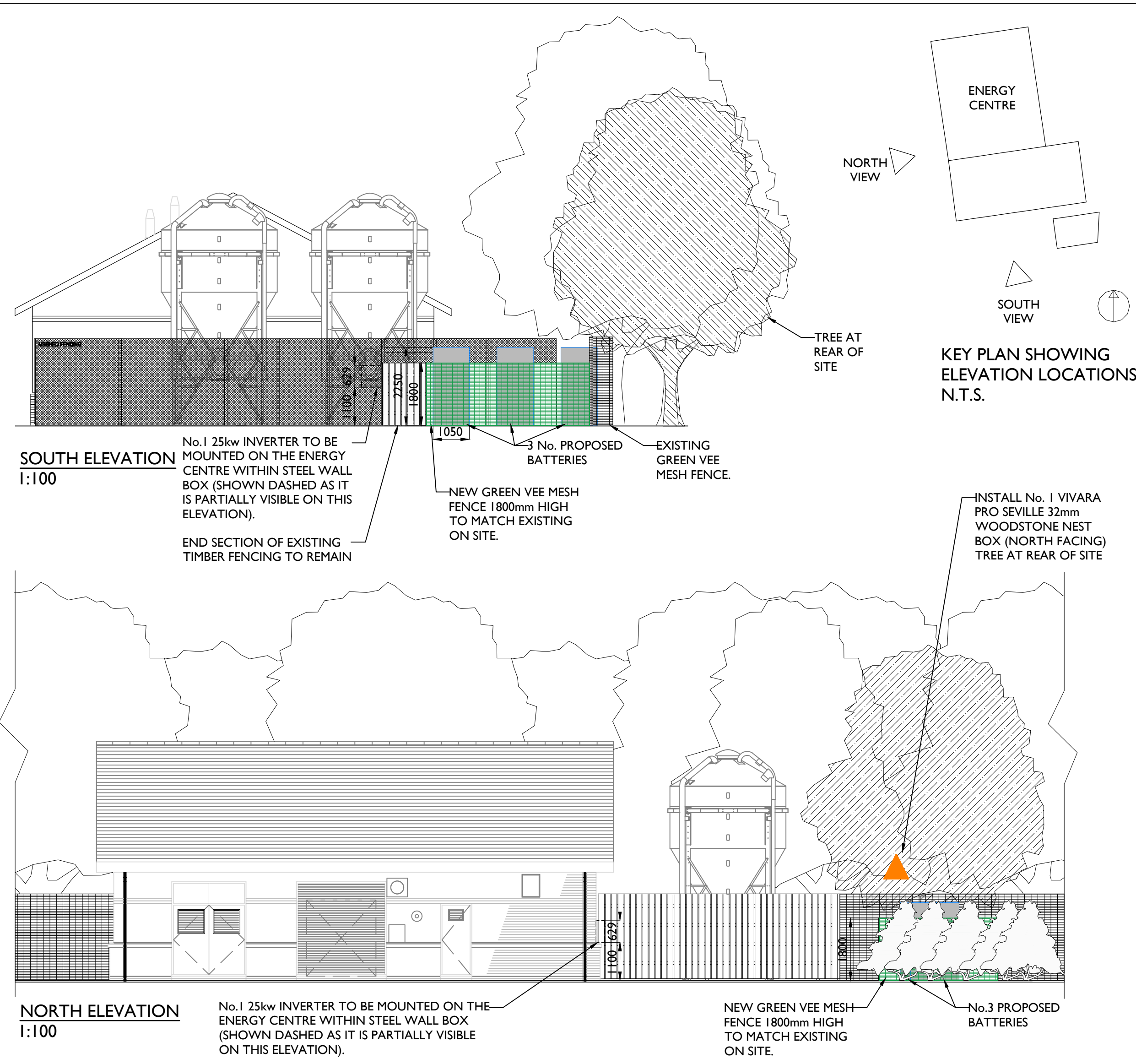
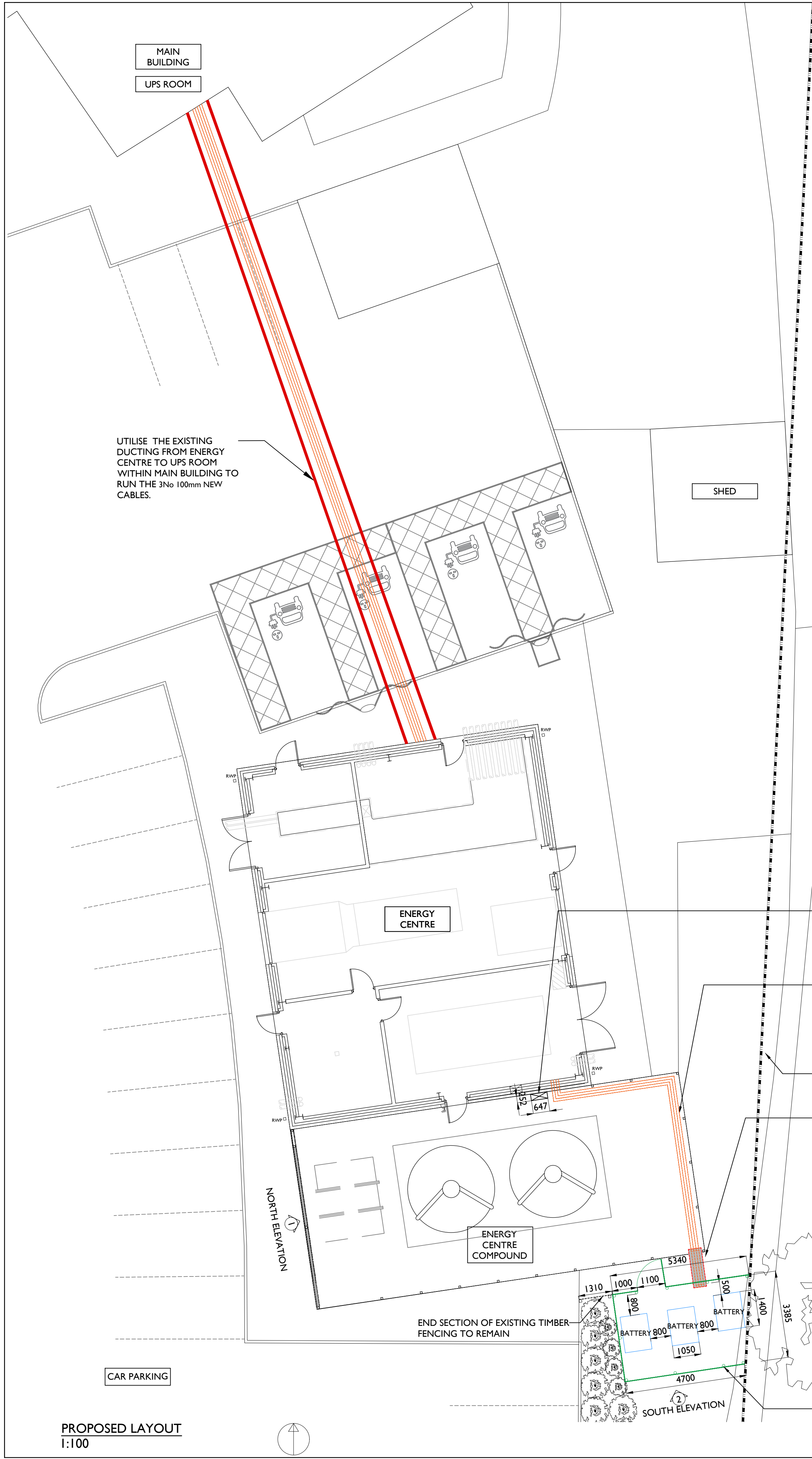




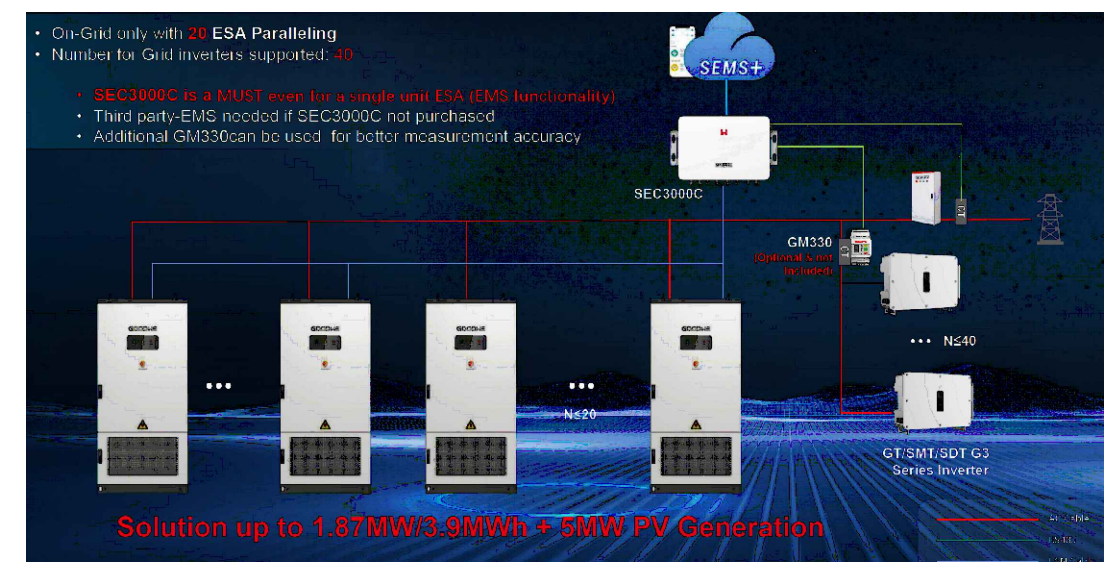
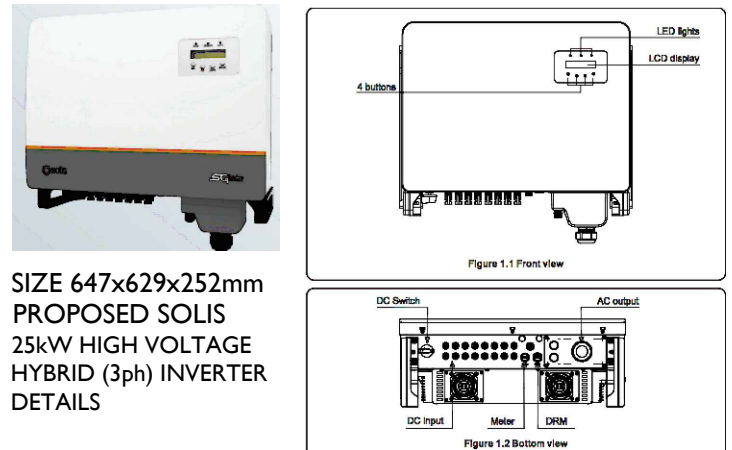
ESA 125kW/261kWh, LIQUID COOLED ESS BATTERY DETAILS



PROPOSED WELSH BATTERIES NOTES FROM SUPPLIER/INSTALLER:
THE SYSTEM CONSISTS OF No.3 BATTERIES (1050W x 2250H x 1400mm D. WEIGHT 2580Kg) TO BE INSTALLED ON THE EXISTING IN SCREED COMPOUND NEAR THE ENERGY CENTRE BUILDING, AS SHOWN. EXACT POSITION TO BE AGREED ON SITE.

ELECTRICAL DATA:
POWER: 125kW | CAPACITY: 261kWh
GRID CONNECTION: 400V AC OUTPUT
PEAK SYSTEM EFFICIENCY: 92%
OVERLOAD CAPABILITY: 1.1x CONTINUOUS; 1.2x @ 1MIN
100% UNBALANCE BETWEEN PHASES
DERATING: >45°C
MULTI-COMMUNICATION INTERFACES SUPPORTING REMOTE FIRMWARE UPGRADES
POWER: AIR-COOLED
POWER: LIQUID-COOLED
PACKS & RACK: STANDARD AEROSOL FIRE SUPPRESSION
PRE-INSTALLED WATER-BASED FIREFIGHTING INTERFACES
MODULAR ARCHITECTURE FOR FLEXIBLE CAPACITY EXPANSION AND SIMPLIFIED MAINTENANCE OPERATIONS
WIDE OPERATING TEMPERATURE RANGE: -25~+55
HIGH ENERGY DENSITY: 177.6 kWh/m²
EMC CLASS B
UL9540A CERTIFIED

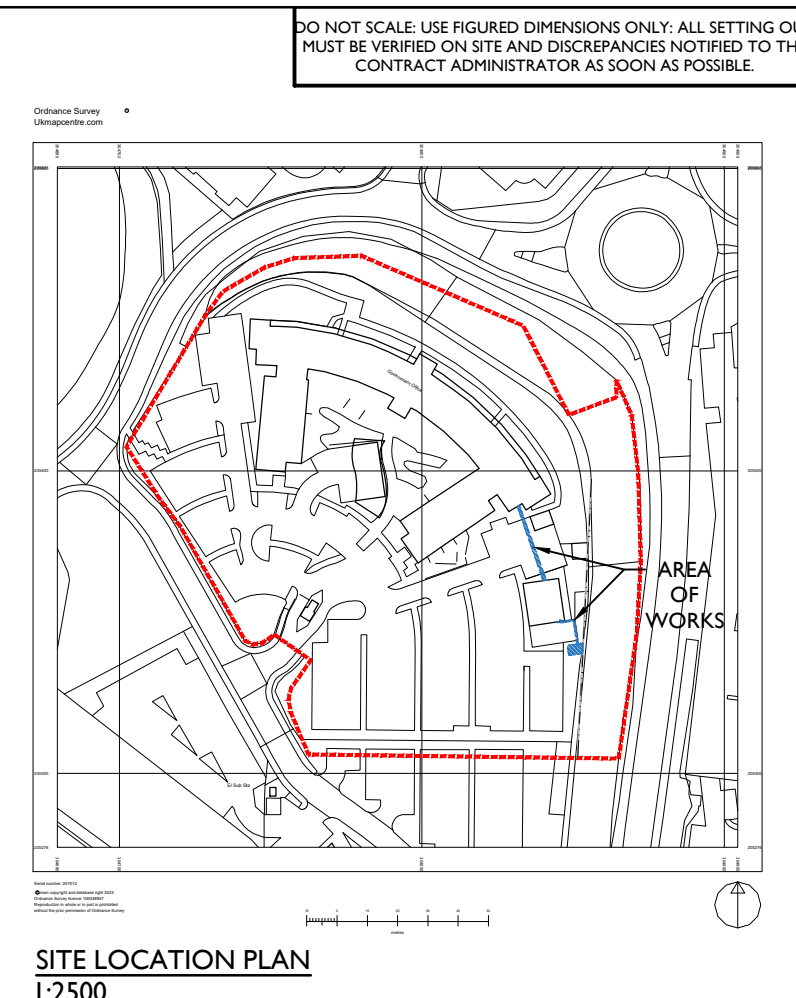
PROPOSED No.1 SOLIS 25kW HIGH VOLTAGE HYBRID (3ph) INVERTER DETAILS



ONGRID - ESS SOLUTION ESA + GRID TIED INVERTERS



NEW GREEN VEE MESH FENCE TO BE INSTALLED TO MATCH THE EXISTING DESIGN AND COLOUR SHOWN IN THE IMAGE ABOVE.



LARGE ENTRANCE
No. 1 VIVARA PRO SEVILLE 32mm WOODSTONE NEST BOX

PROPOSED BIRD BOXES NOTES:
BIRD BOXES:

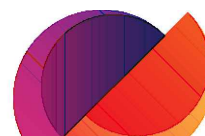
THE VIVARA PRO SEVILLE 32MM WOODSTONE NEST BOX HAS THE FOLLOWING SPECIFICATIONS:
MATERIAL: MADE FROM A MIX OF CONCRETE AND WOOD FIBRES, ENSURING DURABILITY AND PROTECTION AGAINST PREDATORS.
ENTRANCE SIZE: 32MM ENTRANCE HOLE, SUITABLE FOR SMALL CAVITY-NESTING BIRDS LIKE GREAT TITS, PIED FLYCATCHERS, AND TREE SPARROWS.
INSULATION: PROVIDES EXCELLENT INSULATION, MAINTAINING A CONSISTENT INTERNAL TEMPERATURE FOR THE BREEDING SEASON.
DURABILITY: GUARANTEED FOR 10 YEARS, MAKING IT RESISTANT TO ROT AND DETERIORATION.

MATERIAL: WOODSTONE
COLOUR: GREEN/WHITE
OUTER DIMENSIONS: 210 X 305 X 190MM
INTERNAL DIMENSIONS: 120 X 240 X 120MM
ENTRANCE HOLE: 32MM
WEIGHT: APPROXIMATELY 6KG
SPECIES GROUP: SONGBIRDS

- BIRD BOXES MUST BE INSTALLED ON MATURE BROADLEAF TREES ALONG THE PROPERTY BOUNDARY (AS SHOWN INDICATIVELY IN SITE PLAN)

- TREES MUST BE CHECKED ON SITE AND BIRD BOXES MUST BE INSTALLED IN THE CLOSEST SUITABLE TREE TO THE TREES INDICATED IN SITE PLAN.

- BIRD BOXES MUST BE SITUATED BETWEEN 1.5m & 3m ABOVE THE GROUND, ENSURING A CLEAR FLIGHT PATH TO THE ENTRANCE HOLE WHICH MUST BE UNOBSTRUCTED BY FOLIAGE. BOXES MUST BE ANGLED TO FACE EITHER HORIZONTALLY OR ANGLED SLIGHTLY DOWNWARDS, TO ENSURE RAINWATER DOES NOT ACCUMULATE IN THE BOX.
ADDITIONALLY, THE BOXES MUST BE PLACED BETWEEN A NORTHERN AND EASTERN AXIS, AVOIDING STRONG SUNLIGHT AND THE PREVAILING WIND/RAIN. (AS SHOWN IN SITE PLAN)

A	29.07.26	JH	BIRD BOX DETAILS ADDED TO DRAWING IN RELATION TO PLANNING VISIT TO SITE. INFORMATION ADDED WITH REGARD TO PREFERRED TREE TO INSTALL LOCAL TO COMPOUND AREA	
REV	DATE	MADE BY	NOTES	
CLIENT NAME			DRAWING STATUS	
WELSH GOVERNMENT			PLANNING	
PROJECT NAME			 Technical Facilities Management Caron House, 3 Oak Tree Court, Mulberry Drive, Cardiff Gate Business Park, Cardiff, CF23 8RS. Tel: (029) 2073 6900 Fax: (029) 2073 9255 www.mitie.com	
INSTALLATION OF BATTERY BACKUP (2026-27) AT RHYD Y CAR, MERTHYR TYDFIL, CF481UZ				
DRAWING TITLE			PROJECT No.	
PROPOSED LOCATION FOR DUCTING AND BATTERY EQUIPMENT			WG1323	
DRAWN BY	CHECKED BY	APPROVED BY	DATE	SCALE @ A1
GQ	JH	KB	JUNE 2026	AS SHOWN
			DRAWING No.	REV
			AL03	A

M:\PROJECTS\WG\WG1323\CAD\ARCH