

DO NOT SCALE FROM THIS DRAWING – IF IN DOUBT ASK



KEY:		ABBREVIATIONS	
AR	ASSUMED ROUTE	PR	PIPE RISER
BD	BACKDROP	RE	RODING DYE
BTIC	BRITISH TELECOM CHAMBER	RWP	RAINWATER PIPE
CP	CABLE PIT	SA	SURVEY ABANDONED
CL	COVER LEVEL	SV	STOP VALVE
CR	CABLE RISER	SV	SOIL VENT PIPE
EP	ELECTRICITY POLE	TGB	TELEPHONE CALL BOX
EG	EDGE OF CANOPY	TTR	TACKEN FROM RECORDS
EOT	END OF TRACE	TP	TELEGRAPH POLE
FH	FIRE HYDRANT	UTL	UNABLE TO LIFT
G	GULLY	UTS	UNABLE TO SURVEY
GV	GAS VALVE	WL	WATER LEVEL
IC	INSPECTION CHAMBER	VP	VENT PIPE
I	INVERT LEVEL	VR	VAPOUR RECOVERY
LP	LAMP POST	WM	WATER METER
MH	MANHOLE	WO	WASH OUT VALVE
NL	NOT LOCATED		

KEY	
COM	COMMUNICATIONS CABLE
EOT	ELECTRIC CABLE
END OF TRACE	END OF TRACE
FH	FOUL DRAINAGE
PUMPING MAIN	PUMPING MAIN
SD	SURFACE DRAINAGE
SB	SURVEY BOUNDARY
TC	TELECOM CABLE
W	WATER PIPE
G	GAS PIPE
U	UNIDENTIFIED
D	DUCTING



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Rev.	Description.	Date.

**horizon**  
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PROJECT

Proposed Solar Farm  
Bloomfield Hatch Farm  
Reading  
RG7 3AD

TITLE

Concept Solar Farm  
Layout Plan

DRAWING No. 302/014-004		REV. A
DATE 09.02.22	DRAWN BY TARGETS	
CHECKED D GIBB	FOR TENDER	
SCALE 1:1250@A0	FOR APPROVAL	
	FOR CONST'N	
	AS INSTALLED	

- NOTES:
- All dimensions and details shown are provisional, and are subject to confirmation or amendment following site clearance, detailed site surveys and detailed design.
  - Solar PV array and fence line locations may be repositioned to accommodate and avoid underground services which may be encountered during site surveys or construction.
  - Subject to topographical survey results, some areas of the site may require some levelling and grading to facilitate the construction of access tracks, and the installation of the substations and associated equipment.
  - Removal of trees and undergrowth within the development boundary will be undertaken in those areas where access tracks, fencing and equipment is to be sited, or where such vegetation will cause loss of generation due to shading impacts. Vegetation shall not be unnecessarily removed from the site, and where possible shall be retained in situ in order to minimise the visual impact of the scheme on local receptors, pedestrians and the ecology of the site.
  - The conceptual design has been based upon a total installed generating capacity of 26.65MWp, comprised of 59,880 off 445Wp polycrystalline solar PV modules. Whilst the maximum installed capacity will not change, the final system capacity and module numbers may change during detailed design.
  - Solar PV modules will be mounted in landscape or portrait pitched between 10 to 20 degrees from the horizontal plane, with a maximum array height of 3550mm above the finished ground level in the immediate area.
  - The solar PV mounting frame shall use of steel frame sections and associated steel piles driven to a nominal depth of 2 metres, subject to confirmation or adjustment following geotechnical surveys and pull tests as part of the detailed design work.
  - A concrete ballasted solar PV mounting system may be used if geotechnical studies, trial installations or pull tests show that driven piles may interfere with existing buried utility services.
  - Switchgear, battery and transformer enclosures shall be finalised based upon the specific manufacturer selected as part of the detailed design, and shall be finished in green RAL6005 paint to match surrounding new fences and gate finishes.
  - New fencing will be based upon CLD Eclipse EC3.1:826005 (or similar) 1.8 metre high profiled panel finished in green RAL6005 coating and fixed to posts spaced on three metre centres. Fence posts shall be concreted into the ground to a nominal depth of 800mm in nominally 300mm diameter holes.
  - CCTV mounting columns shall be galvanized steel and shall be limited to a height of 5,000mm above the adjacent finished ground level.
  - Where required, equipment will not be installed immediately adjacent to existing utility services, and suitable separation gaps will be allowed as specified by the relevant utility provider.
  - Track ways on the site shall be covered with recycled scalplings or hardcore and brick to a nominal depth of 300mm across the width of the track.
  - Buried HV cables will be placed in trenches at a nominal depth of 800mm below the finished ground level, and shall be bedded in sand and sieved soil overlaid with high visibility marker tape.