



Solar Farm near Pallet Hill, Eden – Consultation Event

8th September 2022

The event will begin shortly.

Welcome

We would like to hear your views on our proposal for a sub 20MW solar farm.

- This presentation is taking place to inform local people and the wider community of proposals for a solar farm development on land near Pallet Hill.
- The solar farm application is being coordinated by Kronos Solar Projects.
- Your views on the proposals are important to us to inform our forthcoming planning application, which we intend to submit to Eden District Council in the near future.
- Through this consultation, we aim to explain the proposals, answer your questions and obtain your feedback on the scheme.

Climate Change



- Greenhouse gas emissions from burning fossil fuels are a global problem.
- Increasing temperatures, rising sea levels and extreme weather conditions are only some of the consequences.
- These consequences affect all parts of the world.
- The UK has committed to carbon net zero emissions by 2050.
- Increased danger of flooding of low lying land and coastal cities, more frequent heavy rainfall and violent storms are only some of the consequences for the UK.



Environmental pollution



- The production and transport of fossil fuels involve unpredictable environmental risks.
- Incidents can have major consequences on the local flora and fauna.
- This has a negative impact on the local fishery and tourist industry.
- Mankind only accepts these risks because we are heavily dependent on fossil fuels.
- The UK has the chance to become independent of these outdated, harmful energy sources.

The problem: fossil fuels

We've got a problem:

- Energy costs are annually rising and energy consumption is increasing as well.
- Fossil fuels are finite and too polluting to burn.
- Dependence on fossil resources from other countries is still rising.
- The need for alternative energy sources will increase in the coming years as demand continues to grow.



The only two solutions are:

- Reducing energy consumption by:
 - Insulation
 - Energy-efficient applications
 - Use of public transport
 - Electrical vehicles
- Changing the way energy is produced
 - Switch to sustainable, locally generated electricity, such as solar energy.

A solution: solar farms



- Solar farms are noise- and emission-free.
- No need for tillage and minimum human intervention for 40 years.
- Permanent concrete foundations in the ground are unnecessary.
- The land can recover from previous (intensive) agricultural activities, allowing the (re)establishment of plants and animals.
- Studies from other solar farms have shown a large increase in biodiversity.
- The construction period of a solar farms less than 6 months. The nuisance from noise and oncoming traffic is limited.
- All parts are completely removable and 95% of the materials are recyclable after the operating period.

Visibility, Glare & Traffic

- The upper edge of a solar panel is about 3m high.
- Existing trees and hedgerows are good visual barriers, but if necessary, additional vegetation screening will be planted.
- Cable routes to grid connections are built underground (no pylons necessary).
- Glare is not an issue as solar panels are designed to absorb as much light as possible. Solar arrays can be found along railway tracks, highways and airport runways.



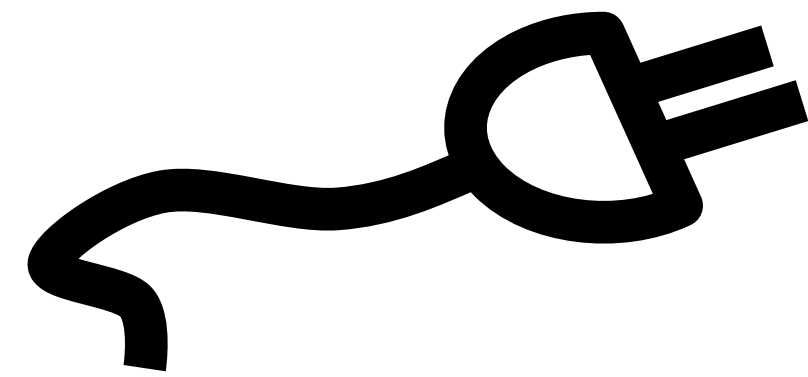
Surveys & Assessments

- Agricultural Land Classification (ALC)
 - ALC Grade 3b
- Heritage & Archaeology
 - Close to 4 scheduled monuments: potential impact on setting, mitigated through screening;
 - Close to a cluster of listed buildings: no impact on the asset;
 - Low potential for unrecorded archaeological and heritage assets;
 - In proximity of Registered Park and Garden: well screened by vegetation; no impact on the asset;
 - Overall minimal adverse effects, mitigation recommendations soon to follow
- Tree Survey
 - Tree specialist to identify root protection areas and shadow arcs
- Ecology
 - Layout designed to avoid impacts to ecology following independent survey
 - Construction restrictions to minimise ecological impact
- Landscape & Visual Impact Assessment: ongoing
- Glint & Glare: no significant impact, mitigation recommended for 1 dwelling
- Photomontages: awaiting LVIA
- Transport Statement: ongoing
- Flood Risk Assessment
 - No flood risk

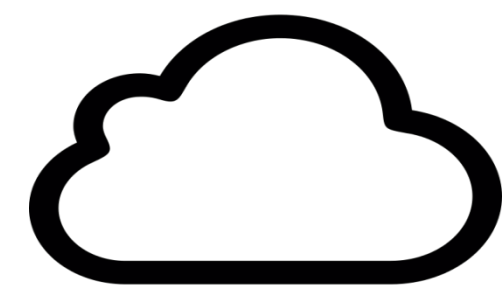
Details & Location



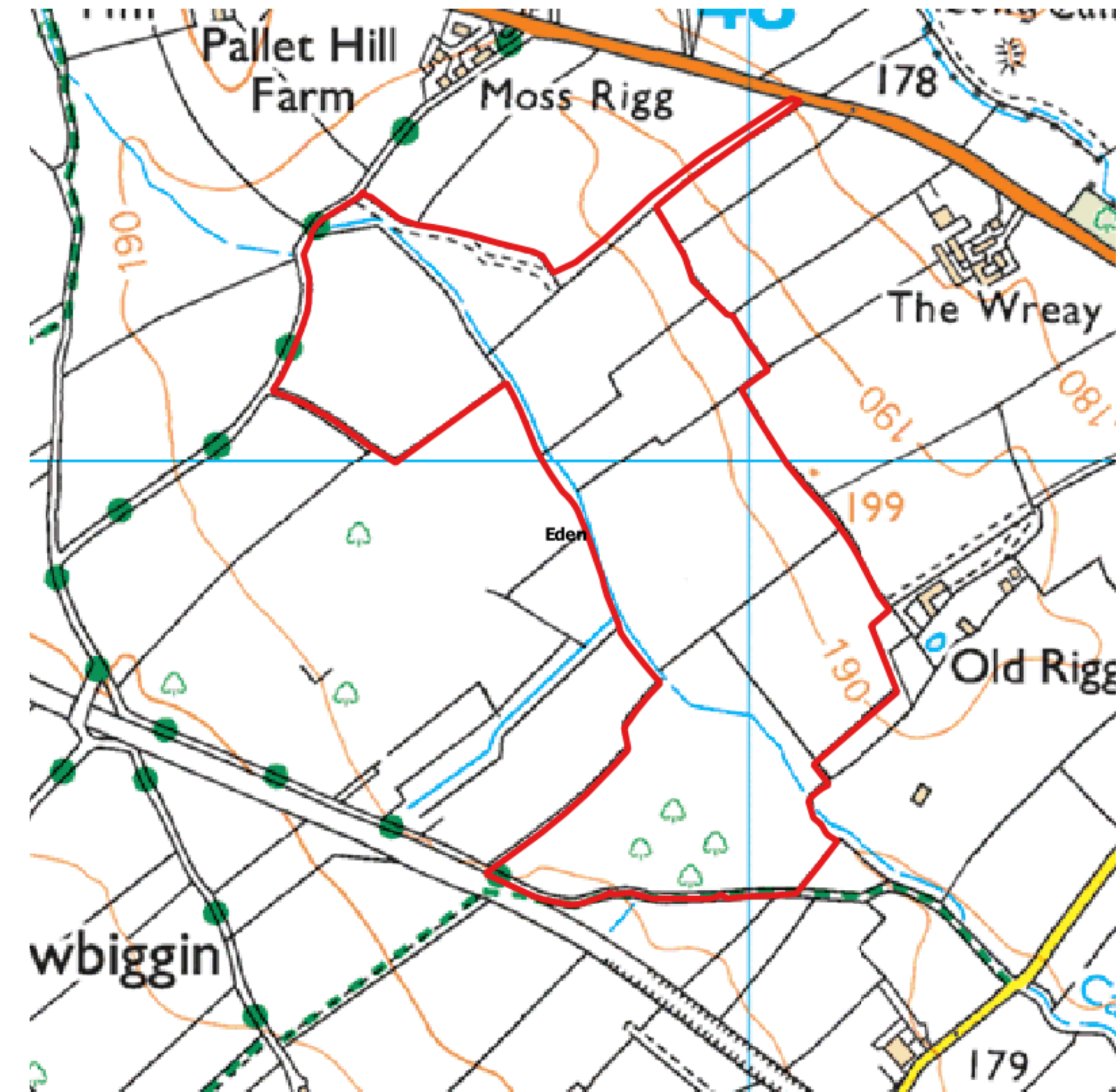
Clean energy supply for
approximately 5,060
households.



20MW peak



Avoidance of approximately
14,000 tonnes of CO₂

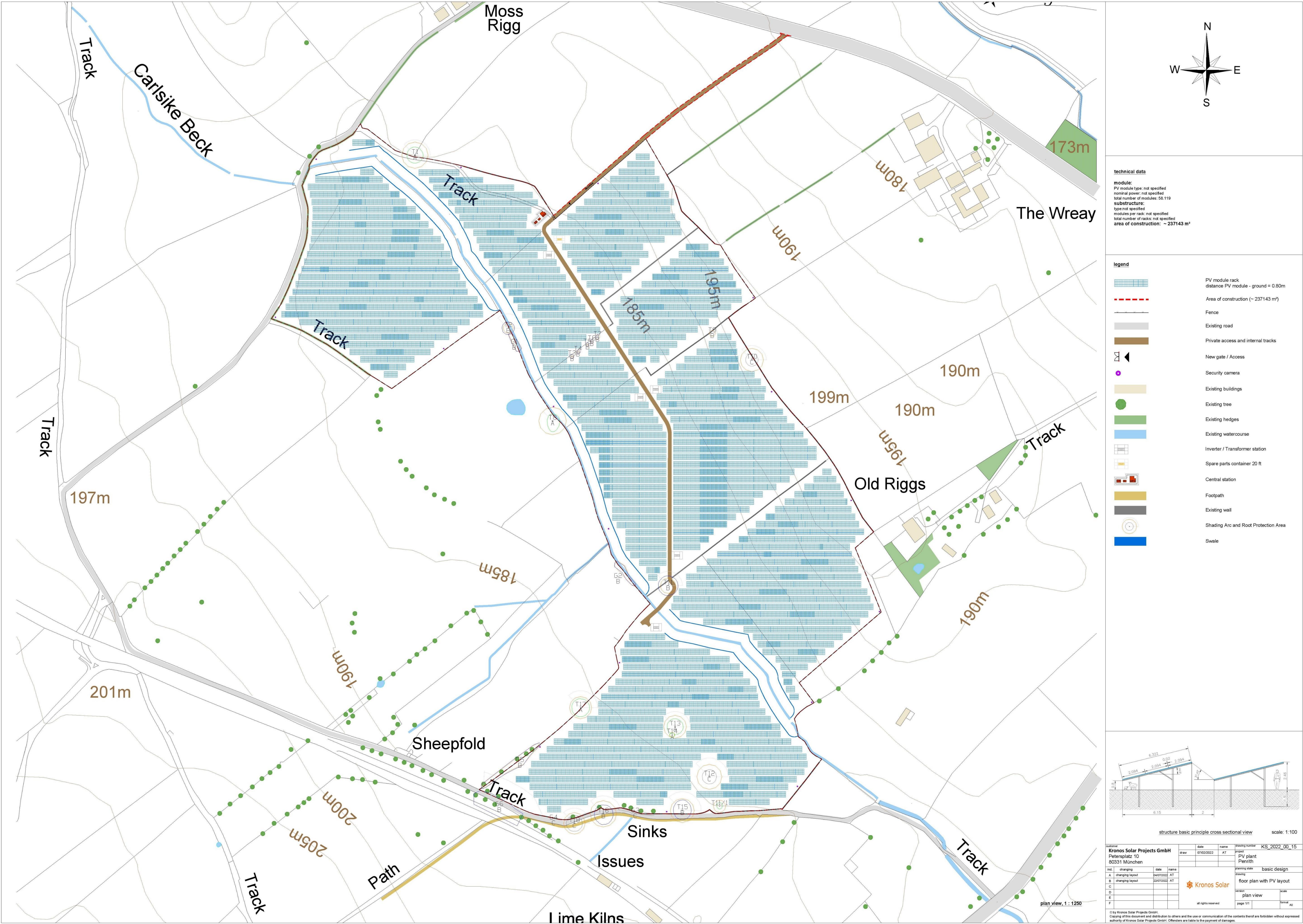


¹ Based on household yearly consumption of 3,371kWh

Why at this location?

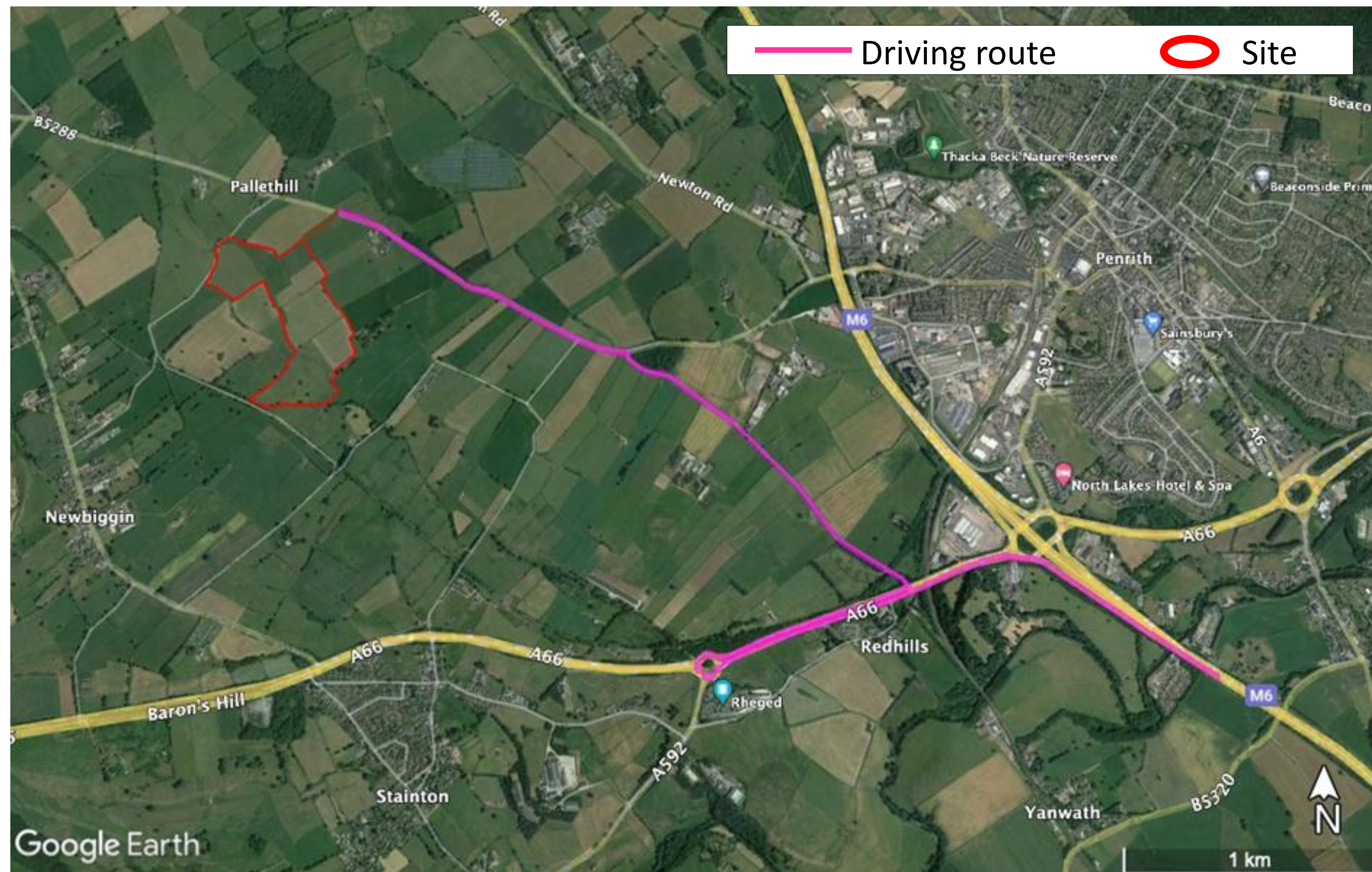
- Avoiding protected areas and areas of high agricultural value.
- Low ecological impact.
- In accordance with local policy.
- In the vicinity of a good connection to feed directly into the national electricity grid.
- The objectives of Eden District Council for renewable energy.

Layout



Construction

- The proposals will take around 6 months to build.
- During construction, construction traffic will be managed to prevent disruption to nearby villages.



Visualisation 1 - Before



Visualisation 1 - After



Visualisation 2 - Before



Visualisation 2 - After



Visualisation 3 - Before

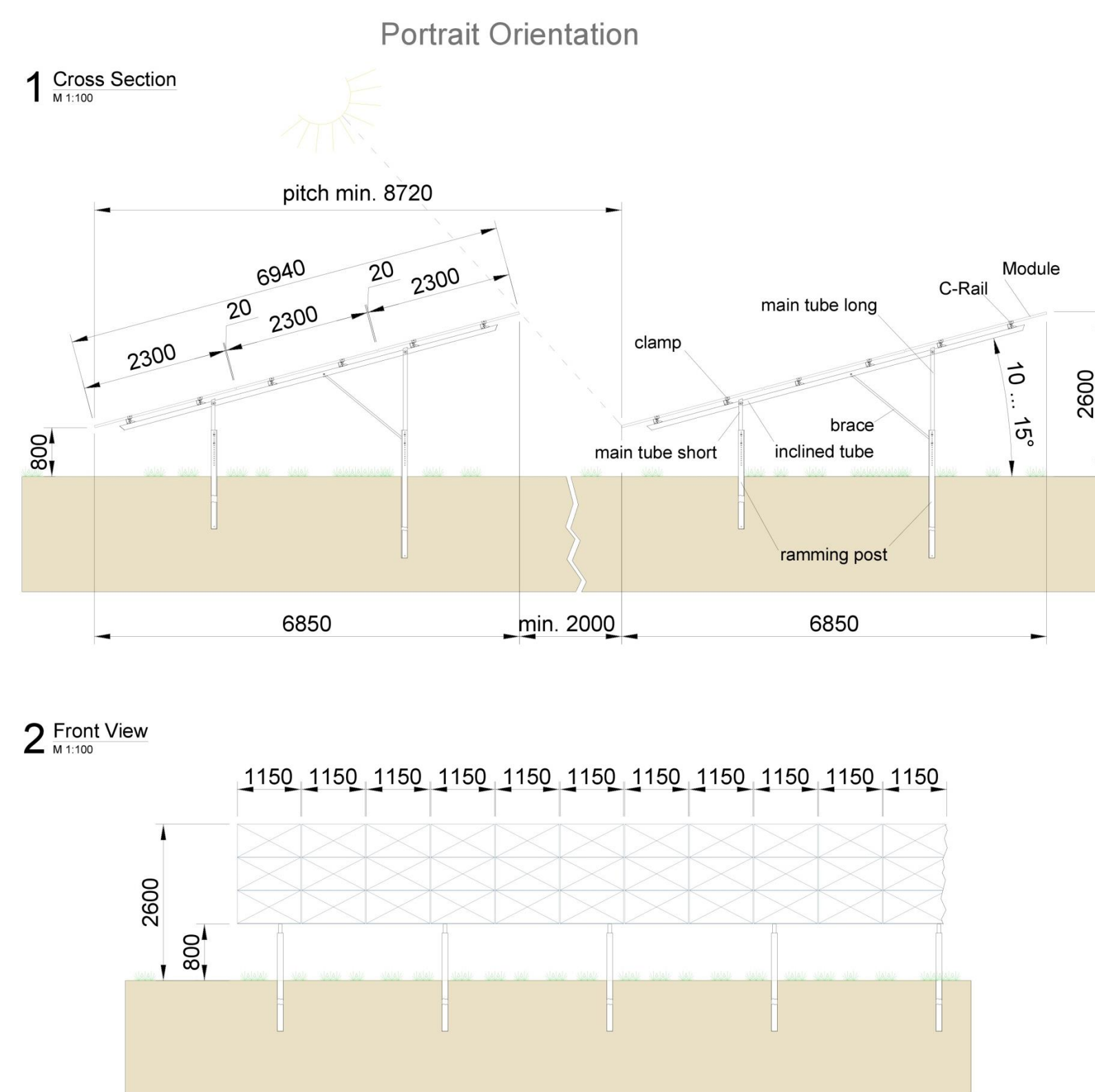


Visualisation 3 - After

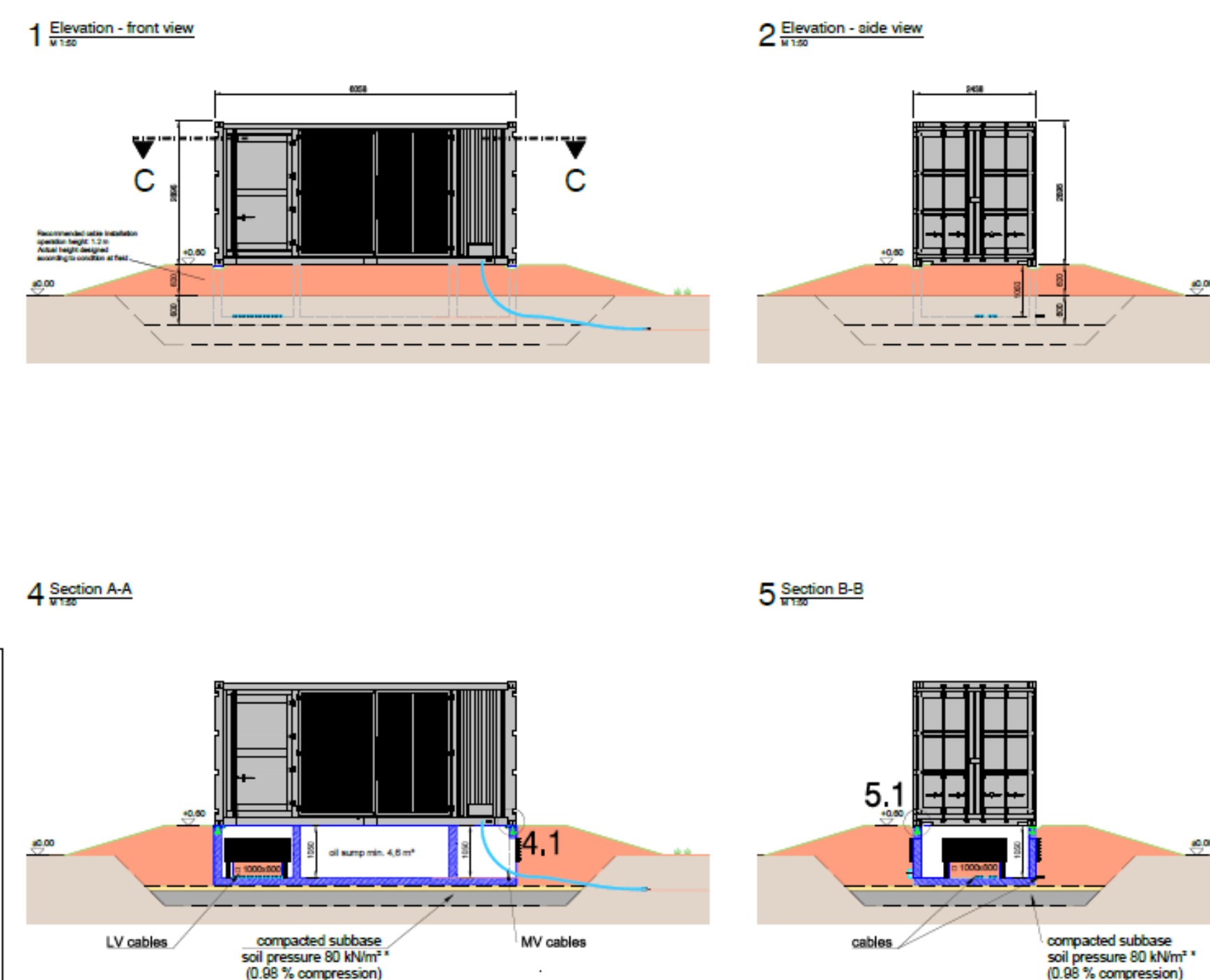


Technical Drawings

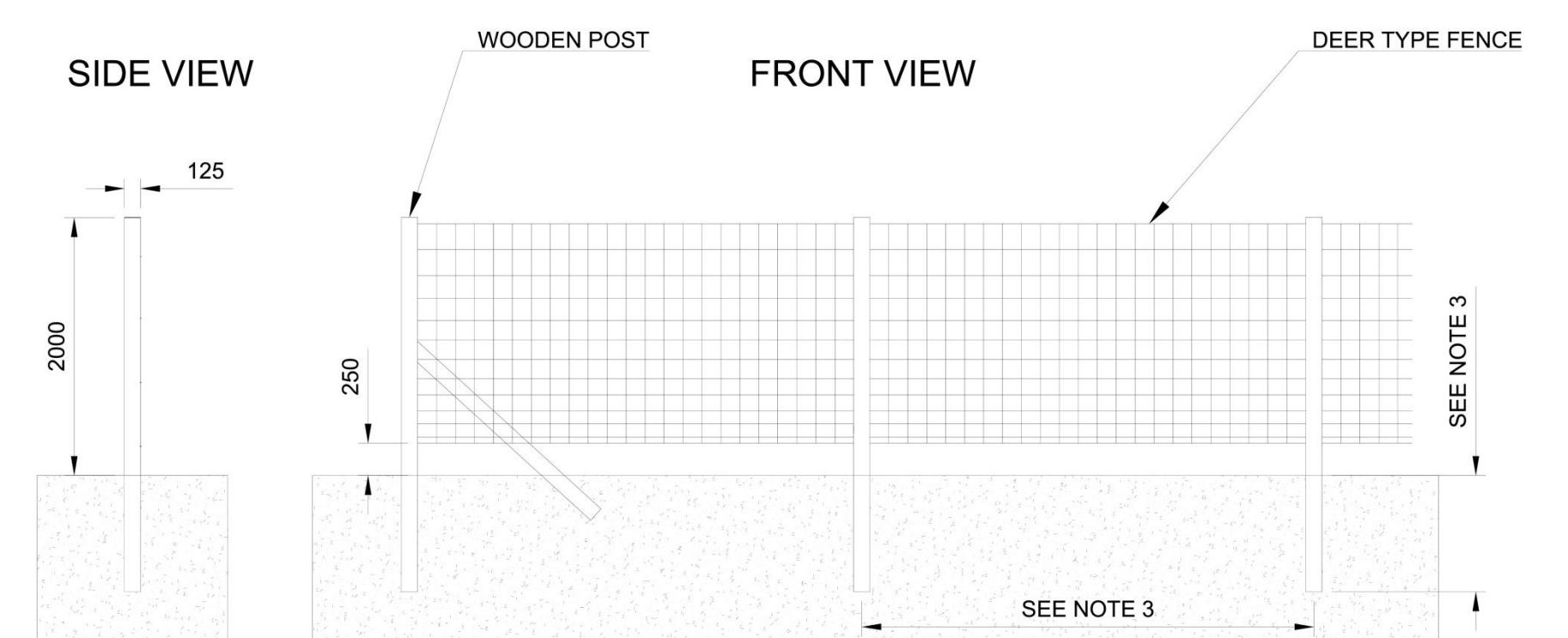
Typical Substructure



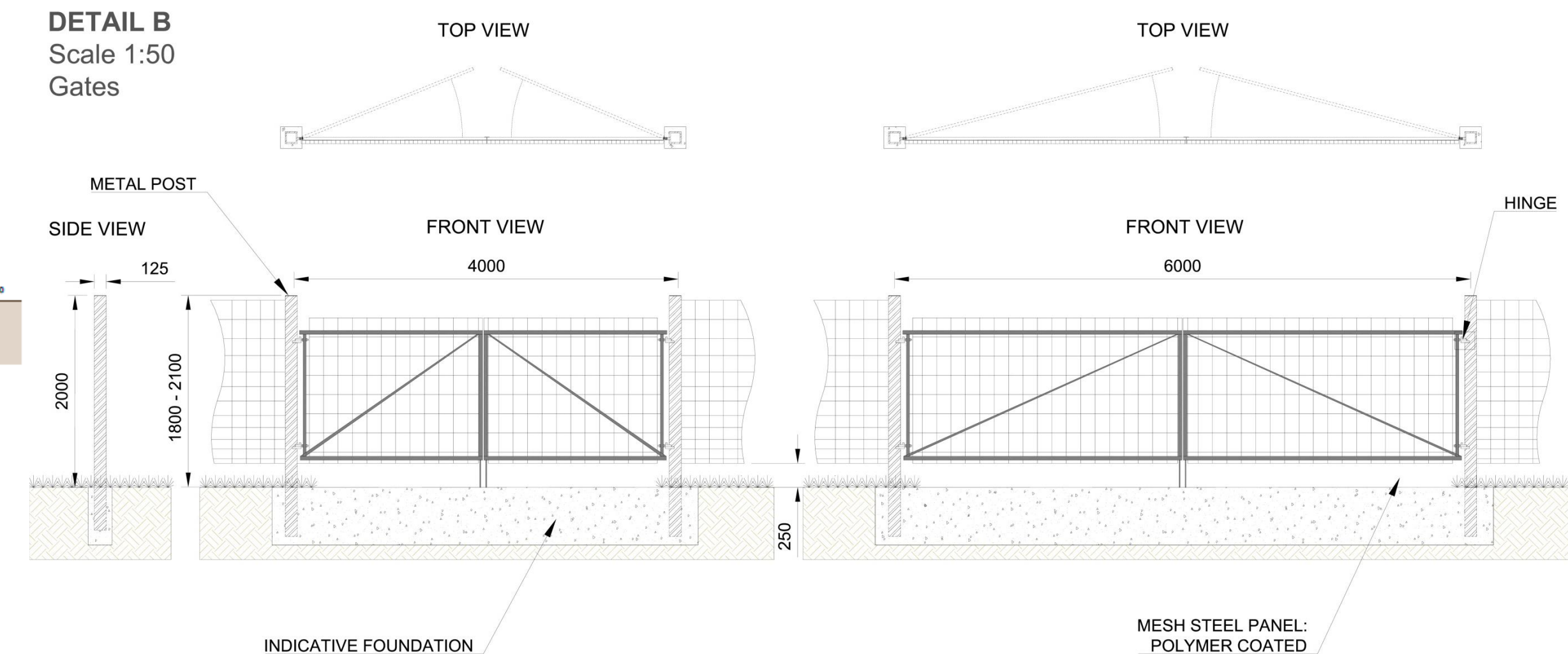
Transformer Station



DETAIL A
Scale 1:50
Fence



DETAIL B
Scale 1:50
Gates



- The technical drawings shown here are general representations of the structures often used in solar farms.

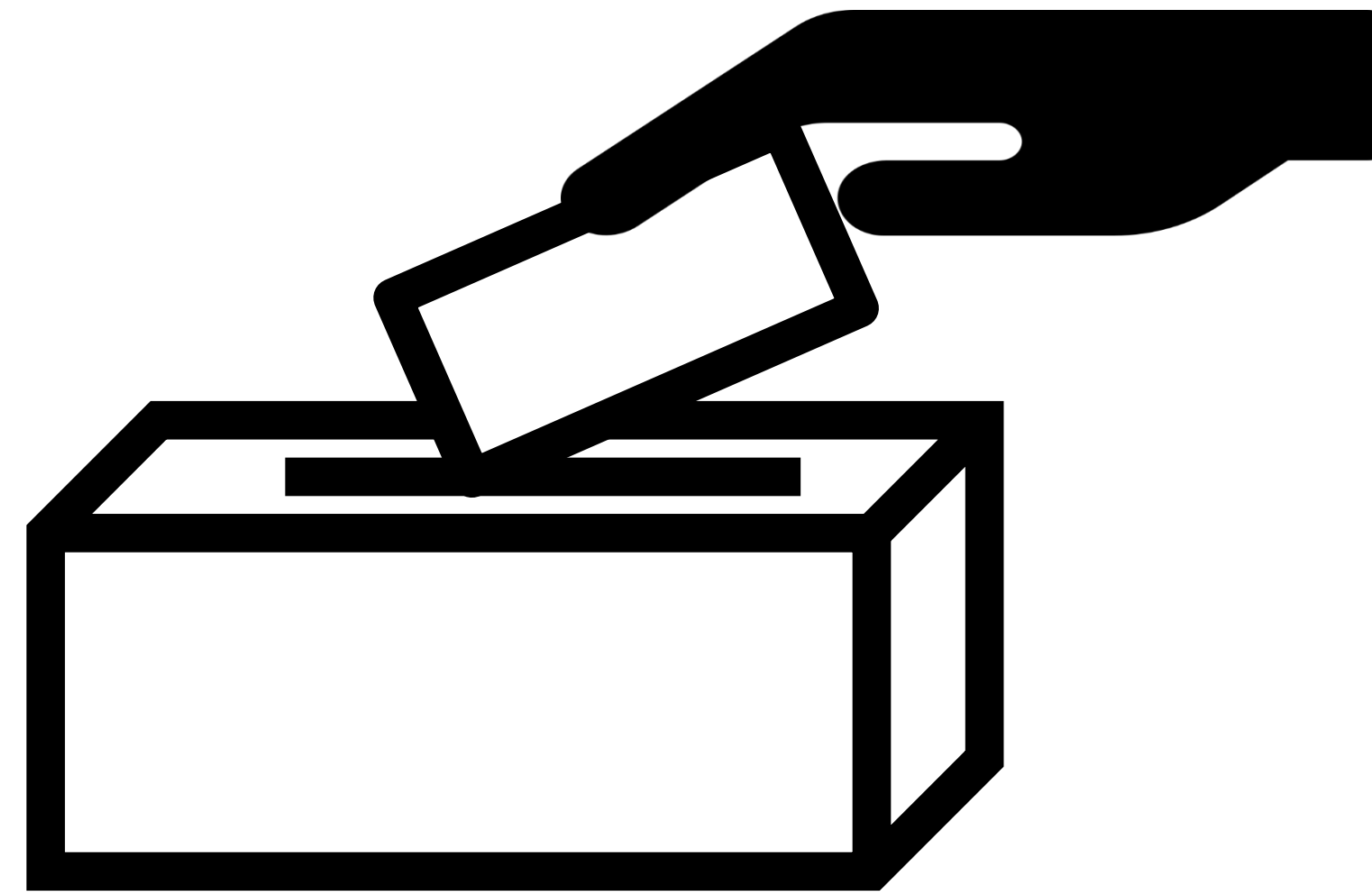
Wild Flower Mix



Grazing With Sheep



What happens next?



All responses from today's consultation will be carefully considered, and we welcome all feedback. Our intention is to examine all comments received and record them as part of our consultation process prior to submitting an application to Eden District Council.

You can respond by using the form on our website: <https://pallet-hill-solar-farm.co.uk/>

All comments are gratefully received.

Thank you very much for attending. We trust that you found the exhibition informative and beneficial.



Thank You!

Any Questions?