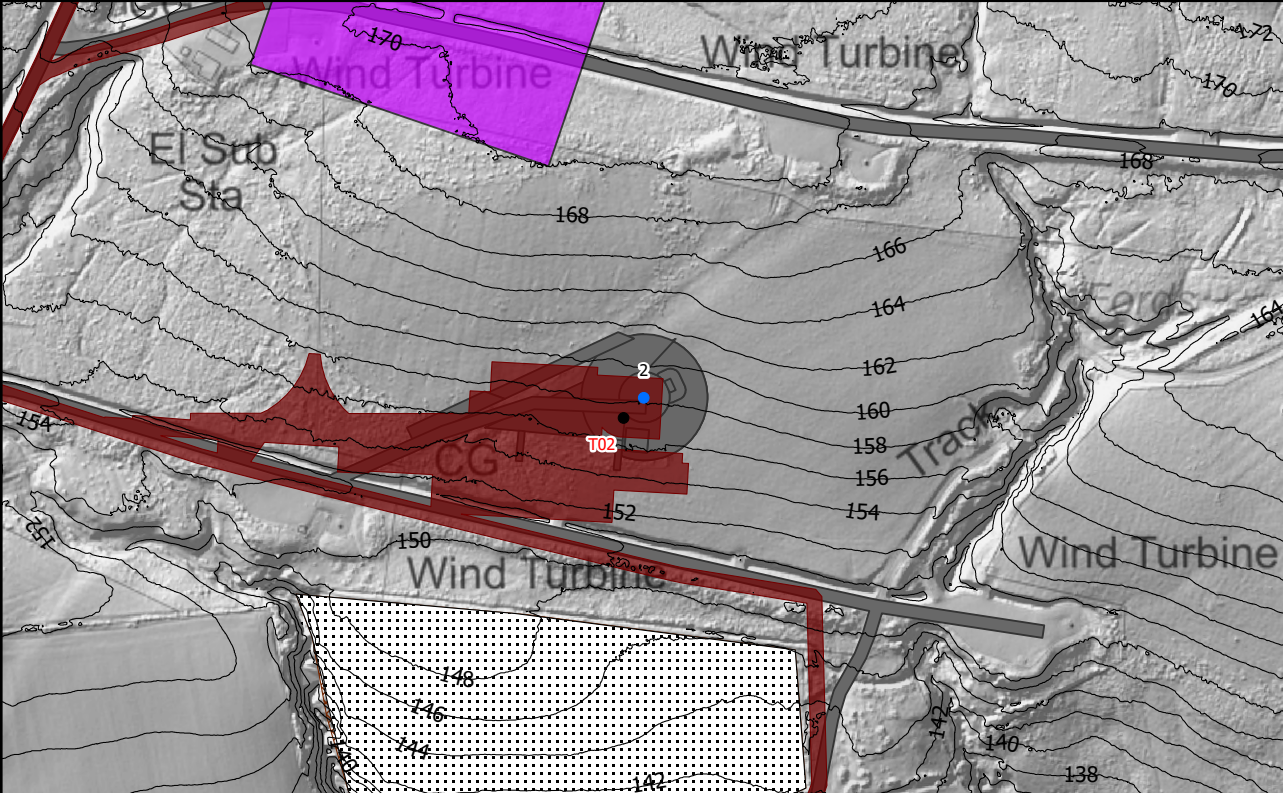
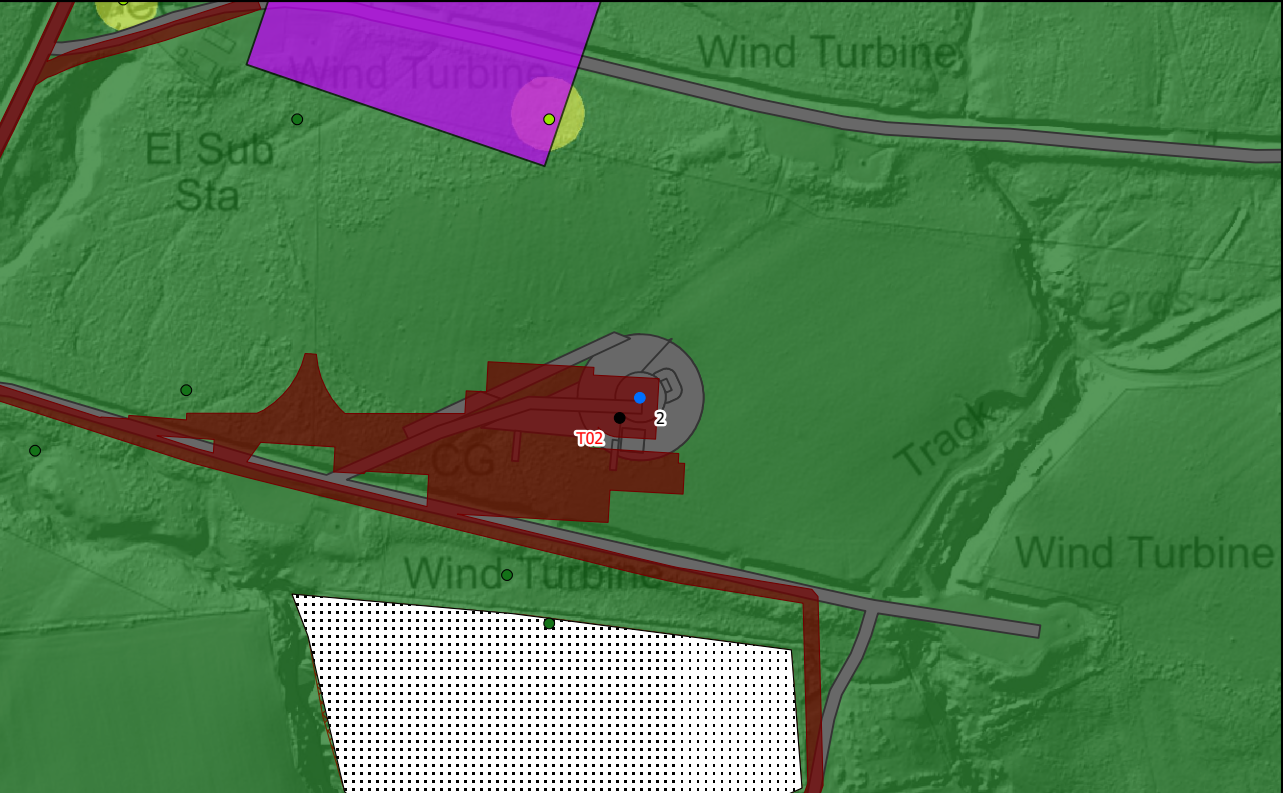


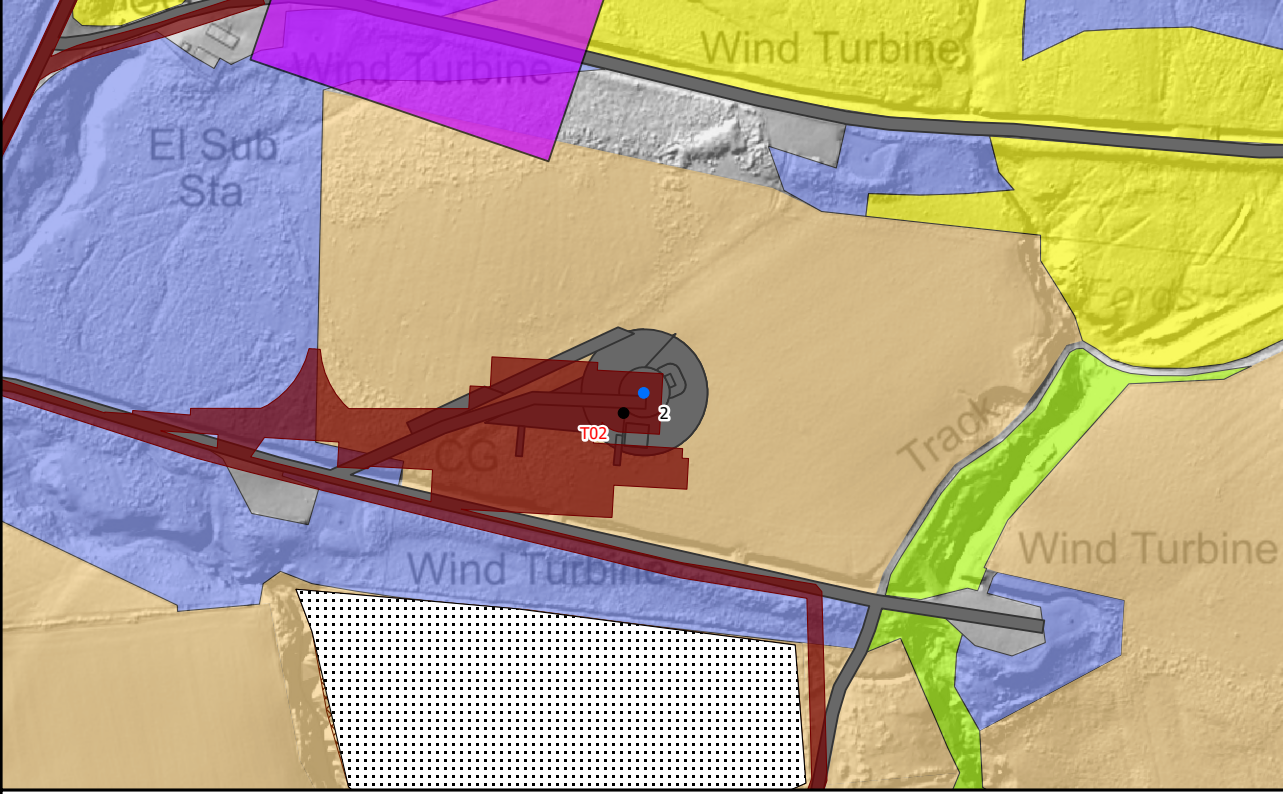
T02: Reason for Moving: The move was necessary to ensure that suitable separation distances were maintained between turbines. Where possible a minimum of three times the rotor diameter is required between turbines. The move is relatively small compared with the consented layout at a distance less than the 50m micrositing limit from the current consented location.



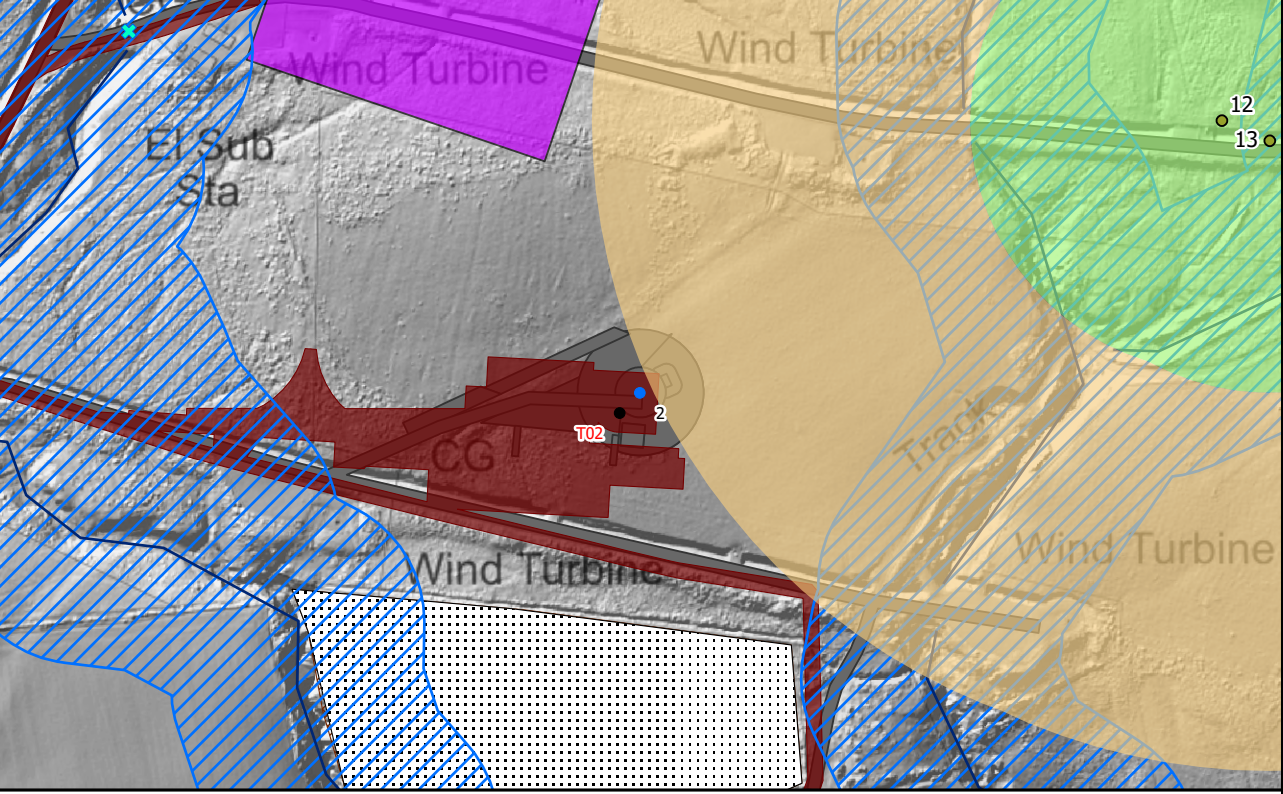
Engineering: The orientation of the hardstand has been positioned to follow the contours of the land as much as possible to reduce the required cut and fill during construction. The entry to the spur aligns with the existing spur of Tangy I/II. This track will need to be upgraded as part of the new development. The plan for turbine component deliveries is to drive directly onto the hardstand in a forward direction. A small unloaded turning head will be integrated into the hardstand features to allow for delivery vehicles to turn and leave the site. The distance back to the main windfarm spine road is further than what would be acceptable to the delivery companies, therefore the turning head is a necessary feature for this location.



Geology Impacts: The larger hardstand required the platform to be rotated clockwise. All proposed infrastructure within current consented 50m micrositing buffers. All proposed infrastructure in similar shallow peat depths. The unloaded turning head is located in an area of very shallow to zero peat.



Ecology Impacts: The new location for the infrastructure sits within the same NVC areas as the consented development. The track length to the turbine remains similar to that of the consented layout. The infrastructure will be located in predominantly MG7, Mire with the spur crossing existing wind farm track and some M23 Mire. This is inline with the consented layout, albeit with an increased footprint.



Hydrology Impacts: The platform and the majority of the ancillary features are positioned outside of the 50m water course buffers. The infrastructure within the water course buffer builds on existing track and water course crossings that are used on the operational Tangy I/II windfarm. The turbine has been positioned to be outside of the Private Water Supply (PWS) 13 and 12, however works (including excavation) for hardstand is within 250m risk buffer. PWS 12 is no longer in use and fed the existing wind farm. PWS 13 is in use and feeds the properties to the south of the windfarm.

Legend

Site Boundary

Consented Turbines

Revised Turbine Locations

Consented Permanent Met Mast Location

Revised Permanent Met Mast Locations

Consented Operations Building

Consented Construction Compound

Consented Layout

Proposed Varied Layout

Borrow Pit Search Area

Borrow Pit Working Area

Engineering

2m Contours

Geology

Peat Depth (m)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

>4

Peat Depth (m)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

>4

Ecology

NVC

M23

MG7

U4

W23

Hydrology

Water Crossing

Identified Private Water Supply

Watercourse (OS Vector)

Watercourse 50m Buffer

Groundwater Supply Source Buffer (as per LUPS31)

100m

250m

Scale 1:3,000 @ A3

0

80

N

Figure 2.12b
Infrastructure Design Review
- Turbine 02