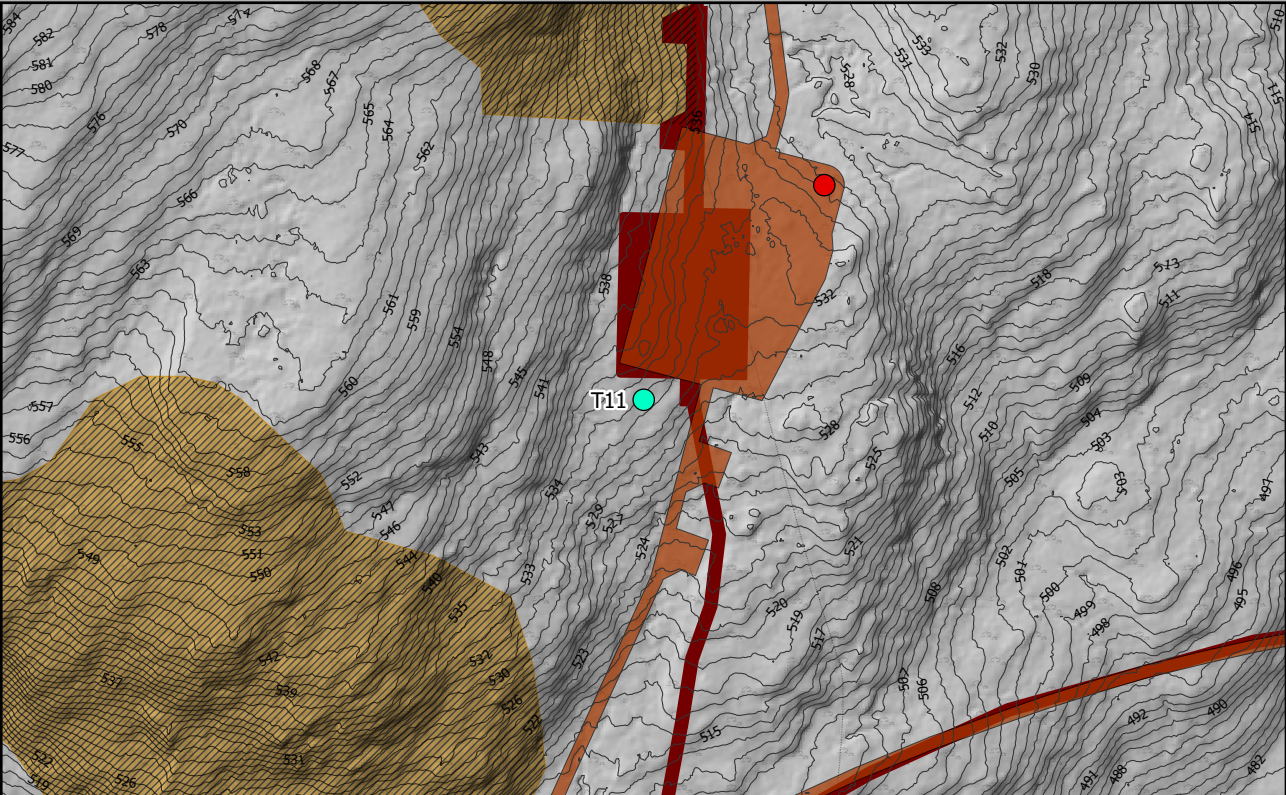
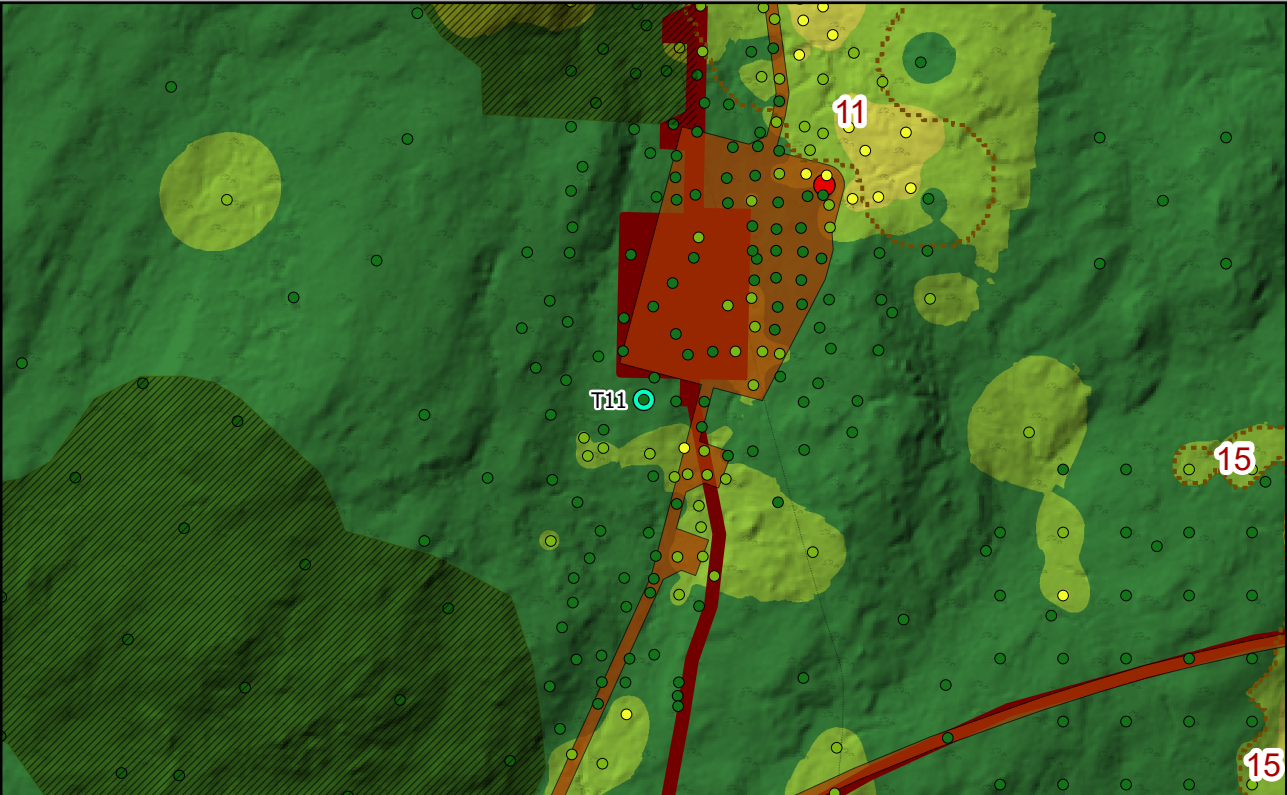


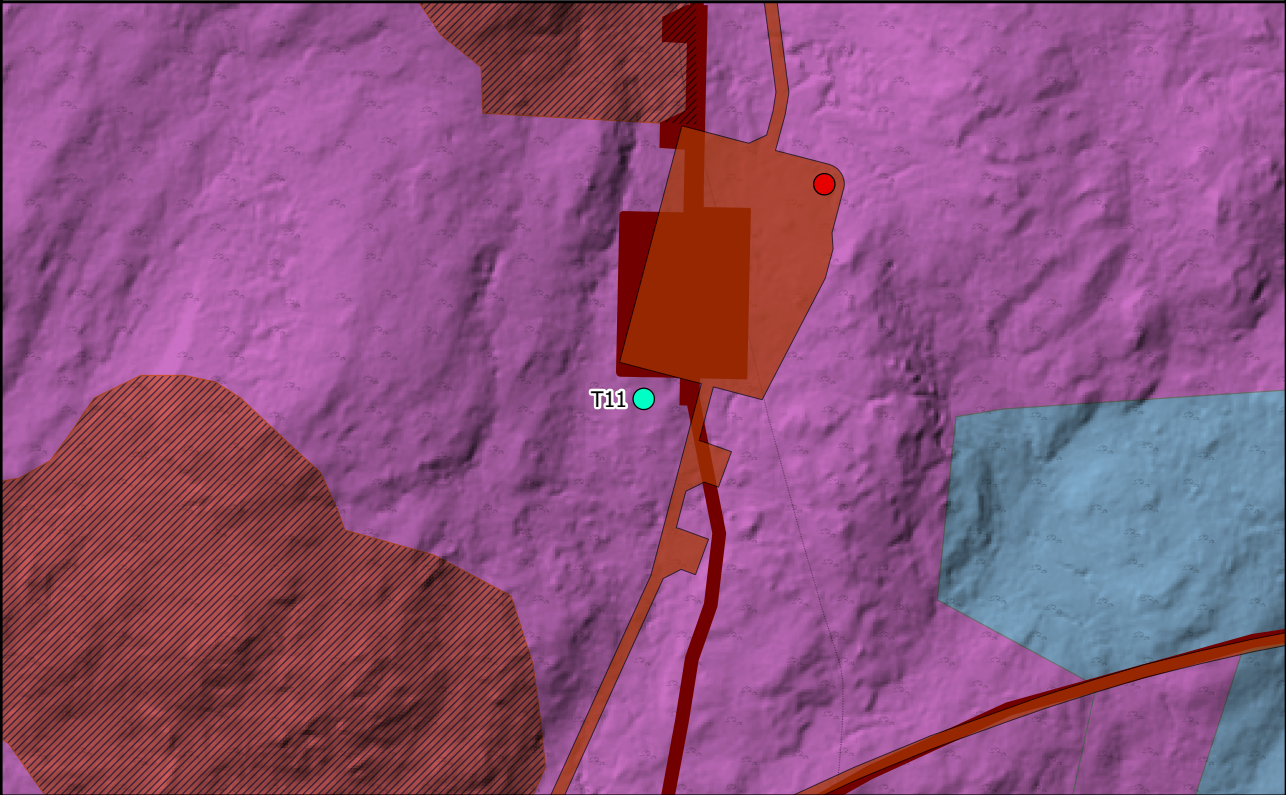
T11: Reason for Moving: This move was necessary because the consented position was too close to the substation platform. The consented position is 1.38 times the tip height of the turbine away from the closest point of the permanent area of the substation platform. To build in safety margins, it is recommended to maintain at least 1.5 times the tip height. It is noted that there is a slight overlap with the north west corner of the substation platform, however suitable distance is maintained to the fencing.



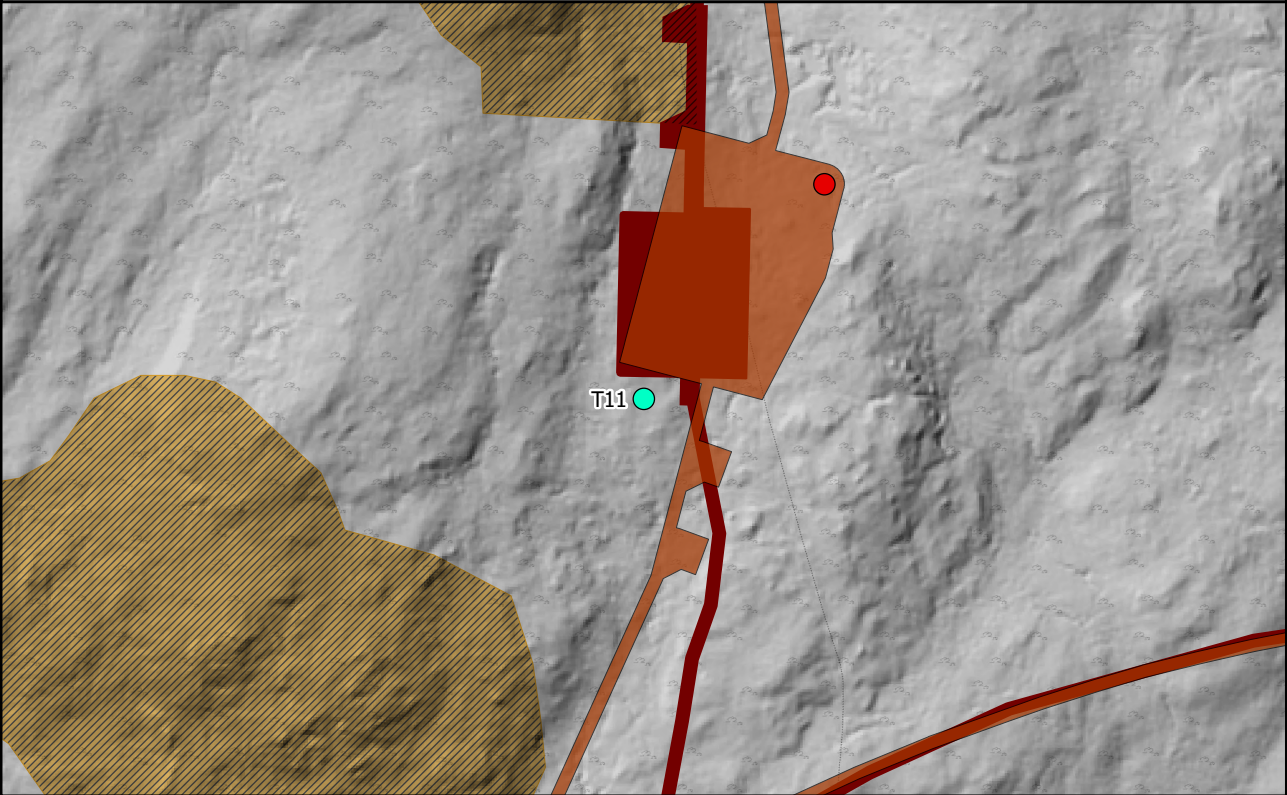
Engineering: The realigned access track leading to T11 meets the main spine at level closer to the proposed hardstand level, allowing for shallower access for component delivery. Also, the orientation of the hardstand is aligned with Vestas 'standard delivery' direction, minimising reverse delivery requirements.



Geology Impacts: Both the consented and proposed infrastructure is located predominantly in shallow peat with small pockets of medium depth peat. The hardstand has been reoriented to maintain the infrastructure in mainly shallow peat. Due to the area of the platform requiring to be flat across the entire length, the track been realigned to accommodate a shallower track up to the start of the hardstand. All proposed infrastructure is located in the consented 50m microsites buffer.



Ecology Impacts: Both the consented and proposed infrastructure sits entirely in Wet Heath (M15c). The proposed layout removes most of the impact of the site track going through a patch of "M11 Yellow Saxifrage" to the north of the hardstand. On balance the proposed track alignment is required to pass across the end of a patch of "M11 Yellow Saxifrage" to the south. The proposed track alignment to the north passes through a section of "HMO Peat Restoration Area".



Hydrology Impacts: The proposed location is outside the 50m water buffers.

Legend

Site Boundary

Consented Turbine Location

Proposed Varied Turbine Location

Proposed Varied Development Layout

Consented Development Layout

No Change to Consented Development

Consented Borrow Pit Excluded From Proposed Varied Development

Engineering

1m Contour

Geology

Peat Depth (m)

0 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

> 2

0 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

> 2

Potential Peatland Restoration Areas

Ecology

NVC

M15c

M17/M17a/M18a/M19a

Hydrology

Consented Water Crossing

Revised Water Crossings

Watercourses (Based on OS 50k)

Waterbodies (Based on OS 50k)

50m Water Buffer (Based on OS 50k)

Scale 1:3,000 @ A3

0

80

N

Figure 2.1k
Infrastructure Design Review
- Turbine 11

Bhlaraidh Wind Farm Extension
S36C Varied Development

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