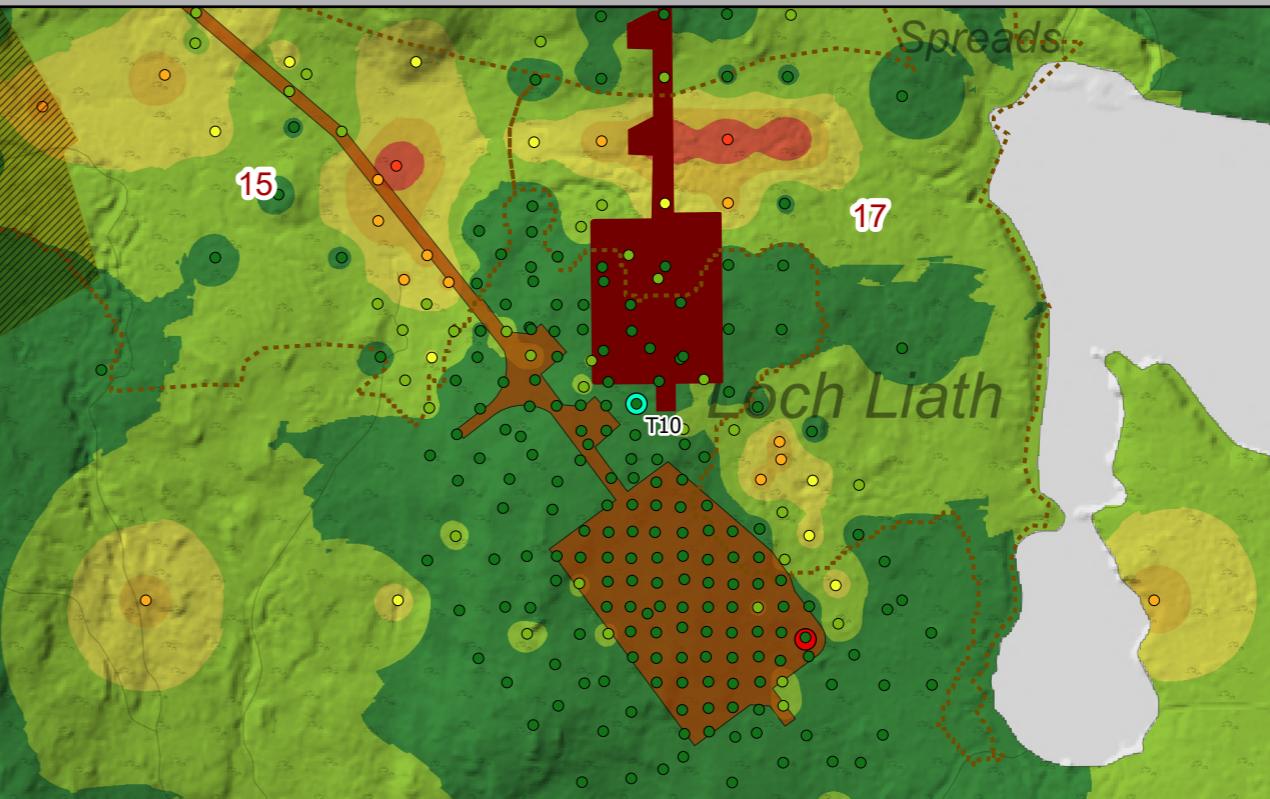
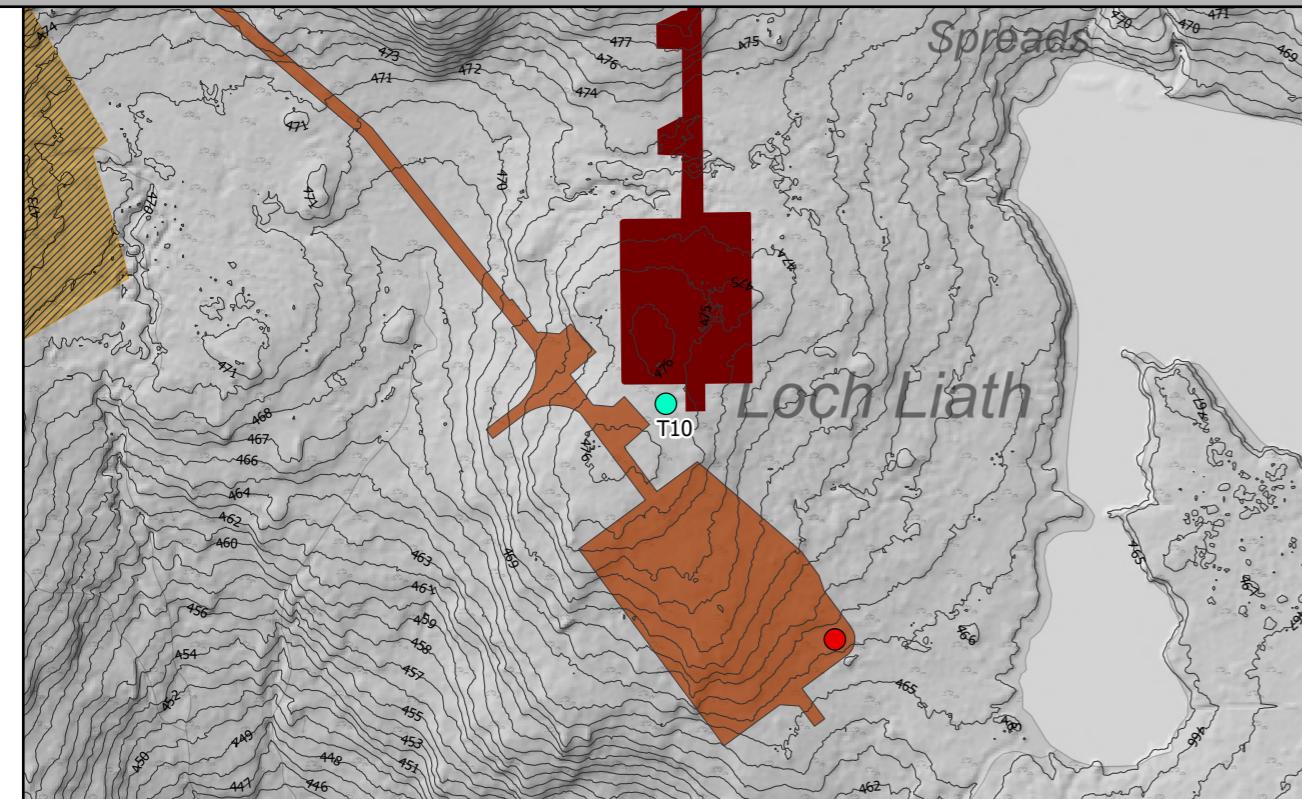
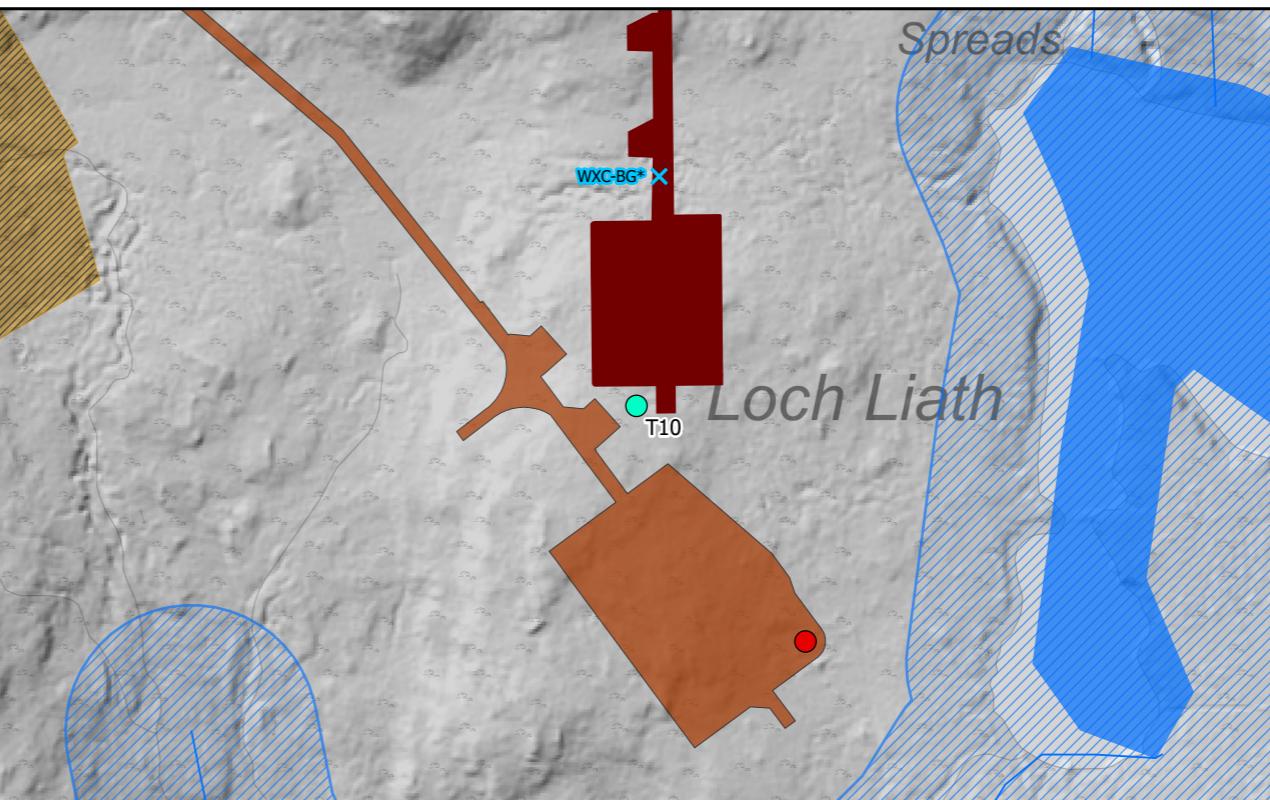
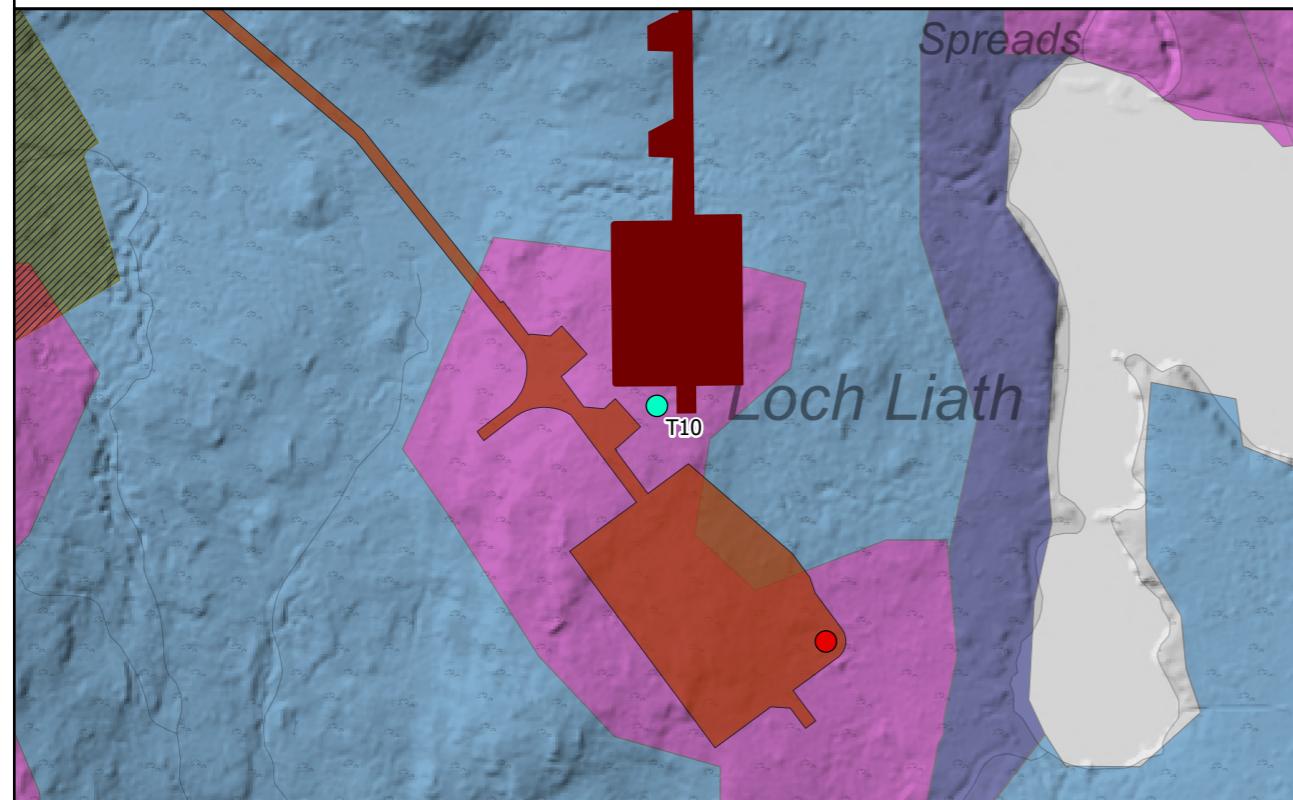


T10: Reason for Moving: This move was necessary because the consented position was too close to the substation platform. The consented position is 1.07 times the tip height of the turbine away from the closest point of the permanent area of the substation platform. To build in safety margins, it is recommended to maintain at least 1.5 times the tip height. Additionally, the consented location placed the turbine too close to neighbouring turbines, necessitating a move south to maintain three rotor diameters.



Engineering: The significant realignment of the access track was required to allow for an acceptable gradient for component access- the Consented layout would have been impossible to accommodate due to high level difference between the main spine road and hardstand. The additional turning has been added to remove any requirement for reverse driving significant distances on steep gradients.

Geology Impacts: The consented hardstand location is situated in areas of shallow, medium, and deep peat. Introducing a larger hardstand would affect more areas of deep peat. The proposed hardstand has been rotated anticlockwise, and the track realigned to shallower slopes, removing the need to construct in deep peat areas.



Ecology Impacts: The proposed layout has a similar impact to the consented infrastructure, occupying areas of Wet Heath (M15c) and Blanket Mire (M17b/M17a/M18a/M19a).

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

- H9e
- M15c
- M17/M17a/M18a/M19a

Hydrology

- Revised Water Crossings
- Consented Water Crossing
- Watercourses (Based on OS 50k)
- Waterbodies (Based on OS 50k)
- 50m Water Buffer (Based on OS 50k)

Scale 1:3,000 @ A3

0 80 m



Figure 2.1j
Infrastructure Design Review
- Turbine 10