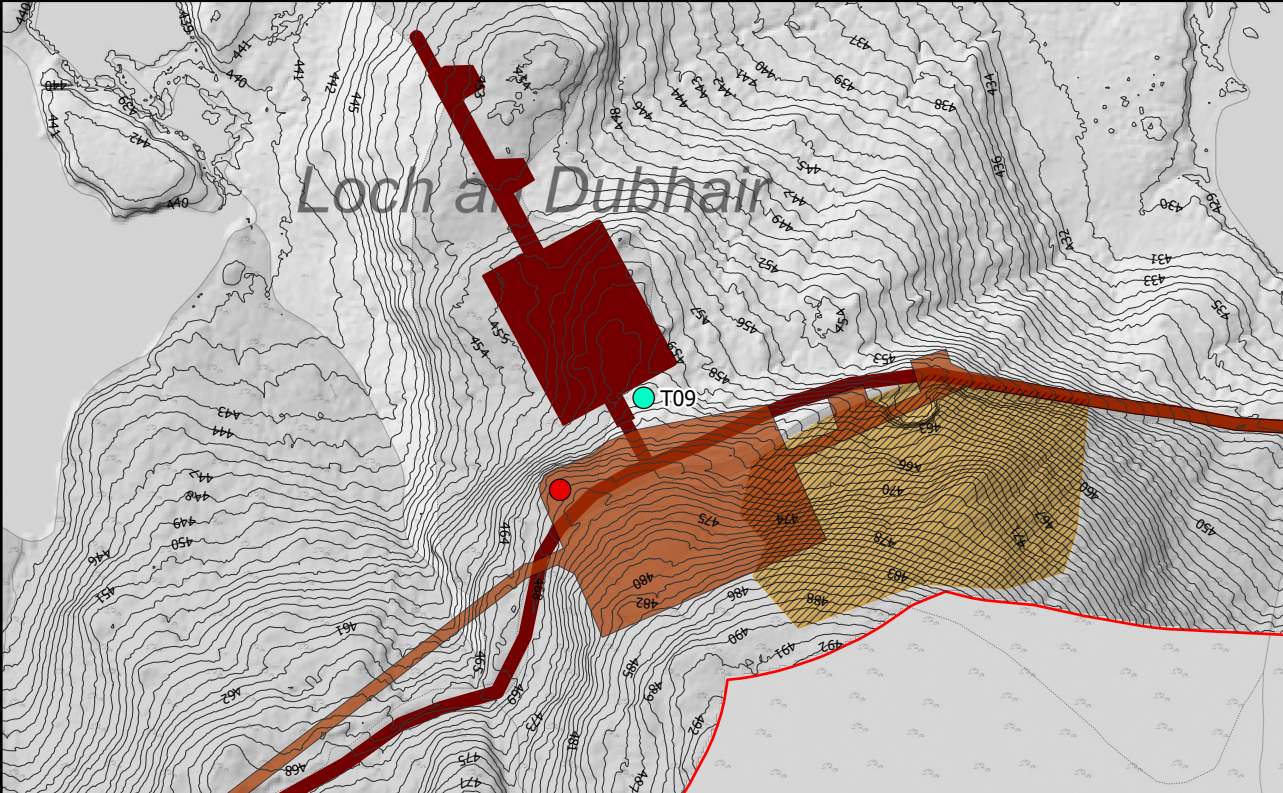
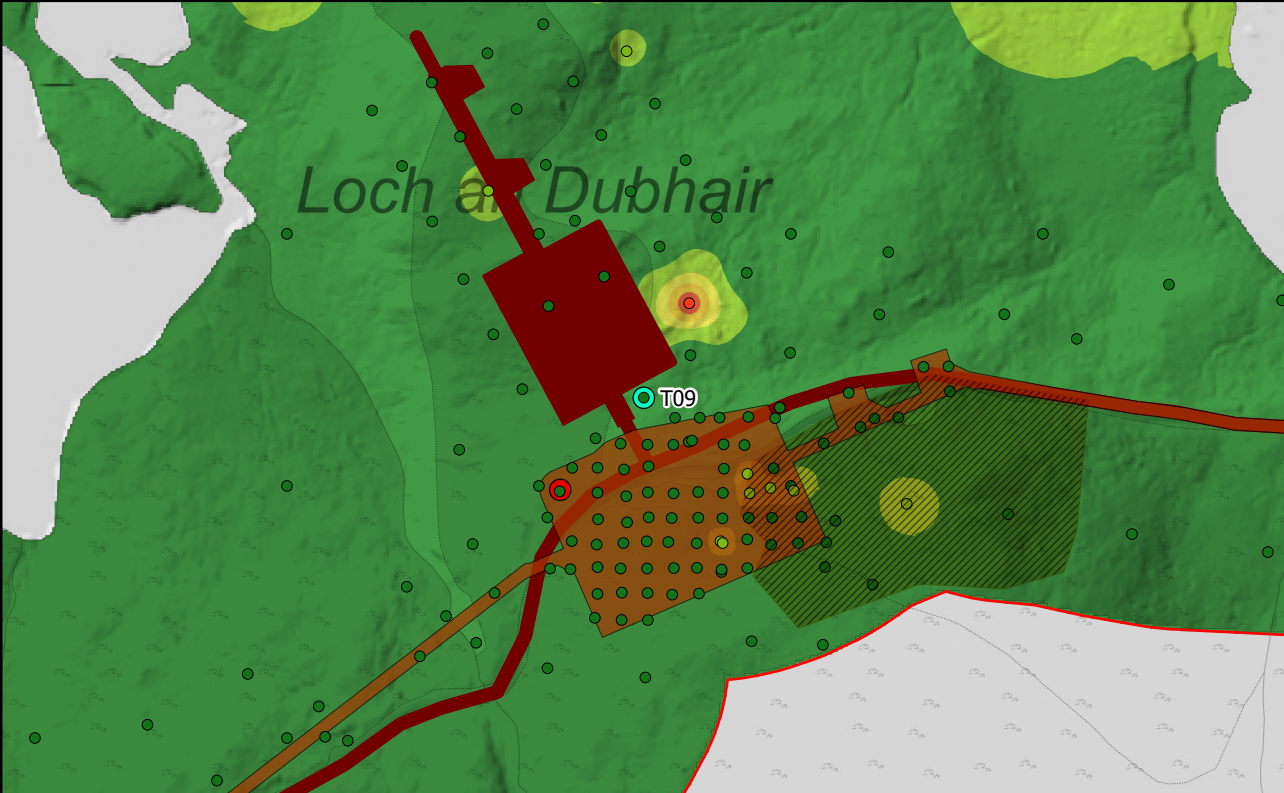


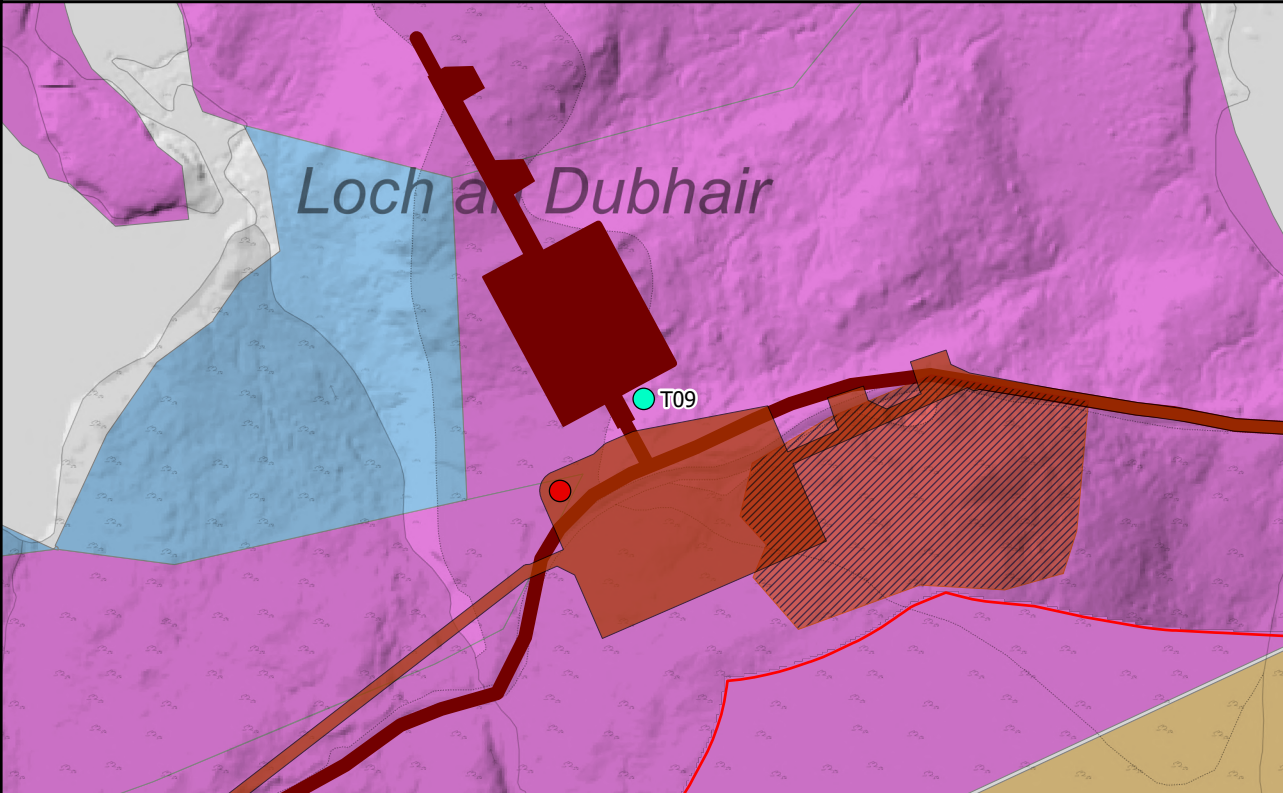
T09: Reason for Moving: This move was introduced to move the rotor swept area outside the 2nd Fresnel zone of the communications link between the existing Bhlaraidh Wind Farm site and Corrie Garth substation. This potentially eliminates the need to construct a new communication mast east of T16.



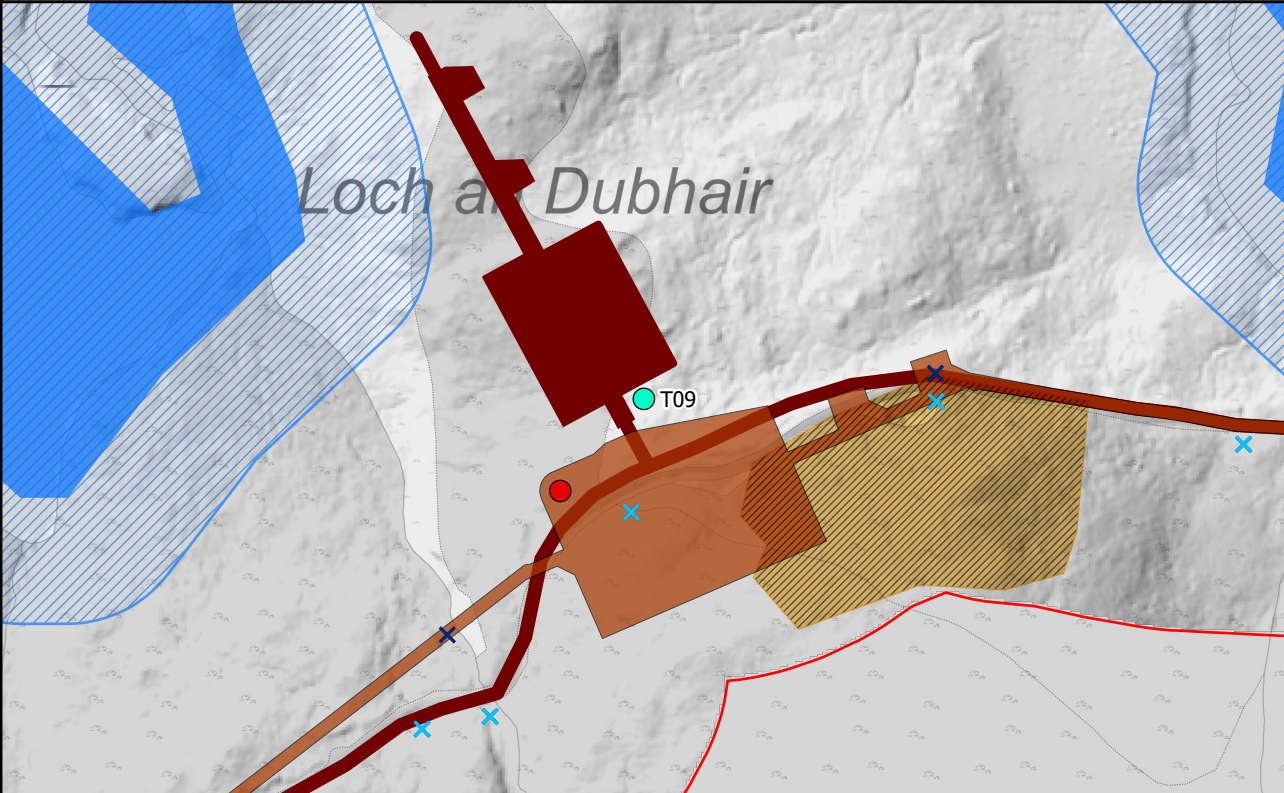
Engineering: The rotation of the hardstand allows for continuous drive without complex turning manoeuvre onto a separate spur, simplifying the component delivery strategy.



Geology Impacts: The current consented orientation of the hardstand required significant volumes of fill material to construct. By rotating the hardstand to align with the track, these cut/fill volumes can be balanced. All infrastructure is constructed within areas of shallow peat. All proposed infrastructure is within the 50m micrositing buffers allowable within the current consent.



Ecology Impacts: The proposed turbine location has significantly less impact on the "200m Bat B10 Buffer" that centres to the north east of the turbine location. Moving the turbine and hardstand locates the infrastructure predominantly in Wet Heath (M15c), further away from the Blanket Mire (M17/M17a/M18a/M19a) than the consented layout occupied.



Hydrology Impacts: Introducing the larger hardstand required for the turbines being considered for the project, would have encroached on the 50m water course buffer to the north east of the consented location. By rotating the hardstand, the infrastructure is now out side any water course buffer. There are existing water course crossings along the existing site track, these will need to be managed as part of the works to complete the project. This is the case for both the proposed and consented layouts.

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
- M15d
- 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



Figure 2.1i
Infrastructure Design Review
- Turbine 09

Bhlaraidh Wind Farm Extension
S36C Varied Development