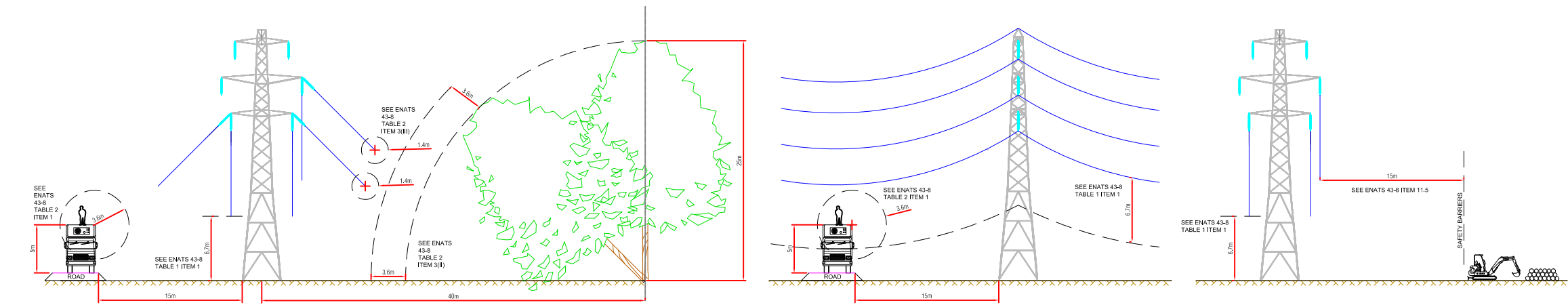


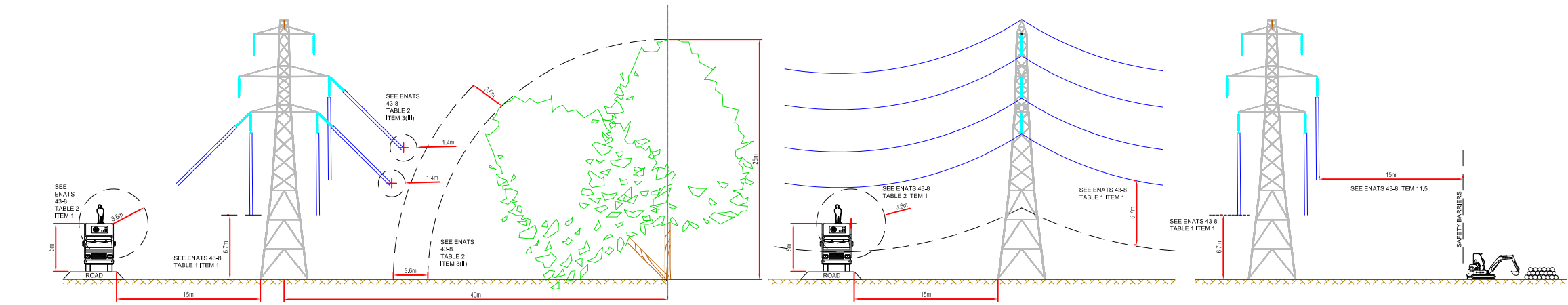
Figure 5.1: Forestry Clearance Requirements



L7c Typical Falling Tree clearance requirement

L7c Typical Forest road clearance requirement

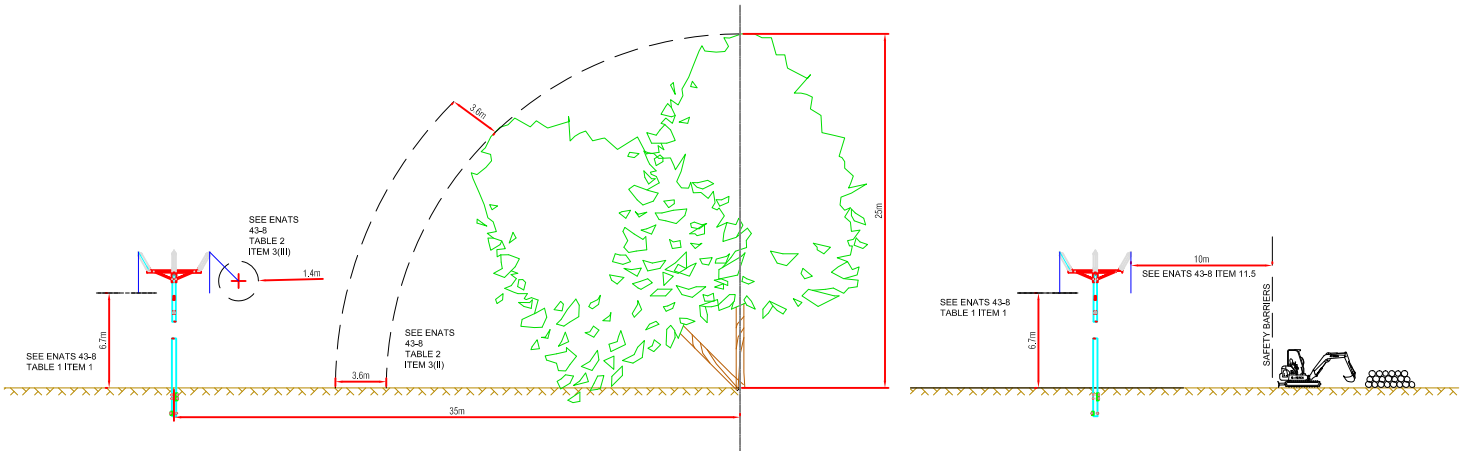
L7c Typical Forest working area clearance requirement



L4m Typical Falling Tree clearance requirement

L4m Typical Forest road clearance requirement

L4m Typical Forest working area clearance requirement



Trident Wood Pole Typical Falling Tree clearance requirement

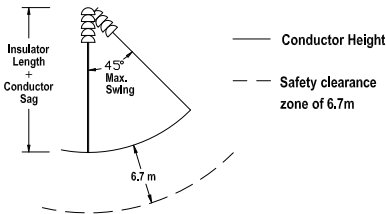
Trident Wood Pole Typical Forest working area clearance requirement

NOTES:

1. DO NOT SCALE DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. CLEARANCE IS BASED UPON CONDUCTOR IN STILL AIR AT MAX OPERATING TEMPERATURE AND SWING.
4. DEVELOPERS AND PERSONNEL SHOULD BE AQUIANTED WITH THE FOLLOWING:
 - i) ENATS 43-8 OHL CLEARANCES
 - ii) H.S.E GUIDANCE NOTES GS6 - AVOIDANCE OF DANGER FROM OHL
 - iii) ELECTRICITY COUNCIL ENGINEERING RECOMMENDATIONS G35 - PRECAUTIONS TO BE TAKEN BY PERSONS WORKING IN VICINITY OF ELECTRIC LINES ON CONSTRUCTION SITES
5. UPON CONSTRUCTION PHASE, ADDITIONAL ADVICE SHOULD BE OBTAINED FROM:
SP ENERGY NETWORKS ENGINEERING AND TRANSMISSION OPERATIONS SECTION (ETOPS)
55 FULLARTON DRIVE, CAMBUSLANG, GLASGOW, G328FA
TELEPHONE - 0141 614 0131

7. PARTICULAR ATTENTION SHOULD BE TAKEN TO TABLE 1 OF ENATS 43-8. THIS REFERS TO THE REQUIRED GROUND CLEARANCE FOR 132kV CONDUCTORS. ATTENTION SHOULD BE TAKEN TO TABLE 2 THIS REFERS TO FALLING TREE CLEARANCE AND ATTENTION SHOULD ALSO BE TAKEN TO SECTION 11 OF ENATS 43-8 WHICH REFERS TO H.S.E GUIDANCE (GS6)

8. SWING CLEARANCES:
THE CONDUCTORS MAY SWING (BLOW-OUT) TO A MAXIMUM OF 45° DURING VERY STRONG WINDS, CLEARANCES NEED TO BE MAINTAINED FOR THIS SITUATION.



6. THIS DRAWING HAS BEEN PRODUCED TO SHOW THE RELATIONSHIP BETWEEN THE PROPOSED OHL TOWERS AND AREAS LOCATED TYPICALLY IN THE FORESTRY. IT SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

Not to scale

Figure 5.2.1: Forestry Felling



Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds and to minimise the risk of windthrow.

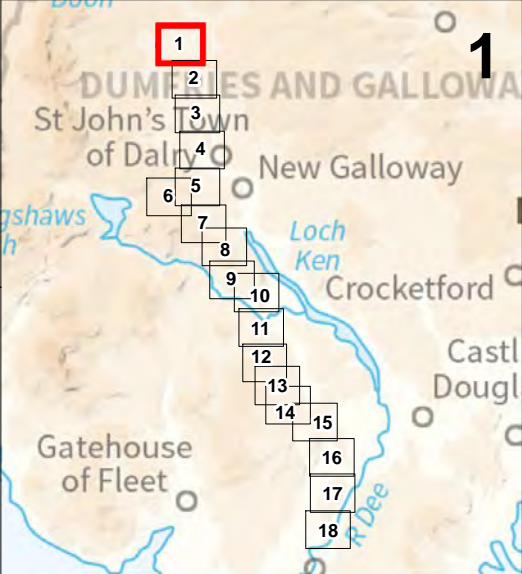
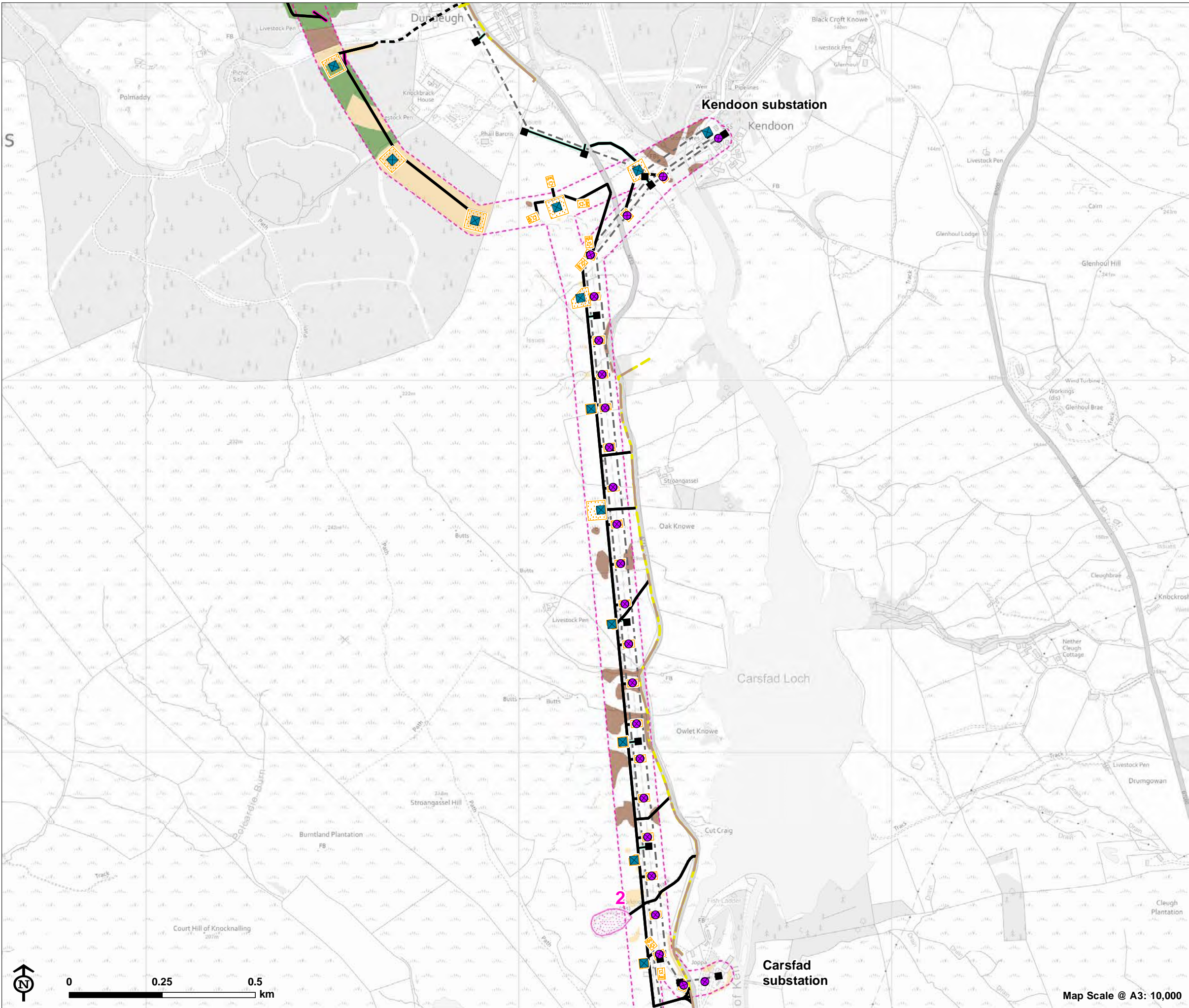


Figure 5.2.2: Forestry Felling



- Overhead line infrastructure**
- Polquhanity to Glenlee via Kendoon (steel lattice tower)
 - Carsfad to Kendoon (wood pole)
 - Existing tower for removal
 - Existing 132kV overhead line to be removed (following construction of the KTR Project)
 - Proposed 11kV UGC
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
- Access to towers for removal**
- New access
 - Working area
 - Construction compound
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Mature conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

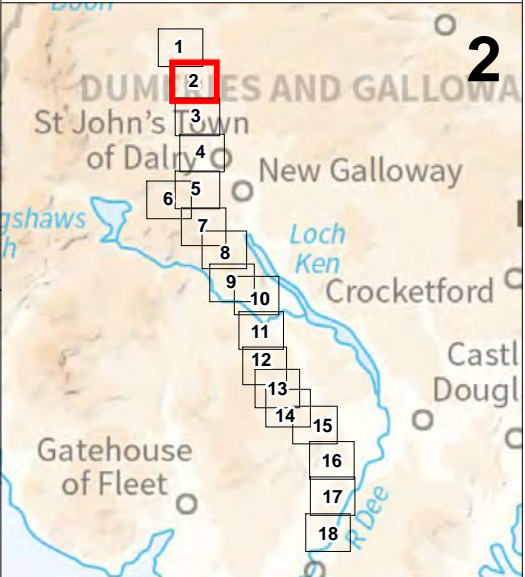
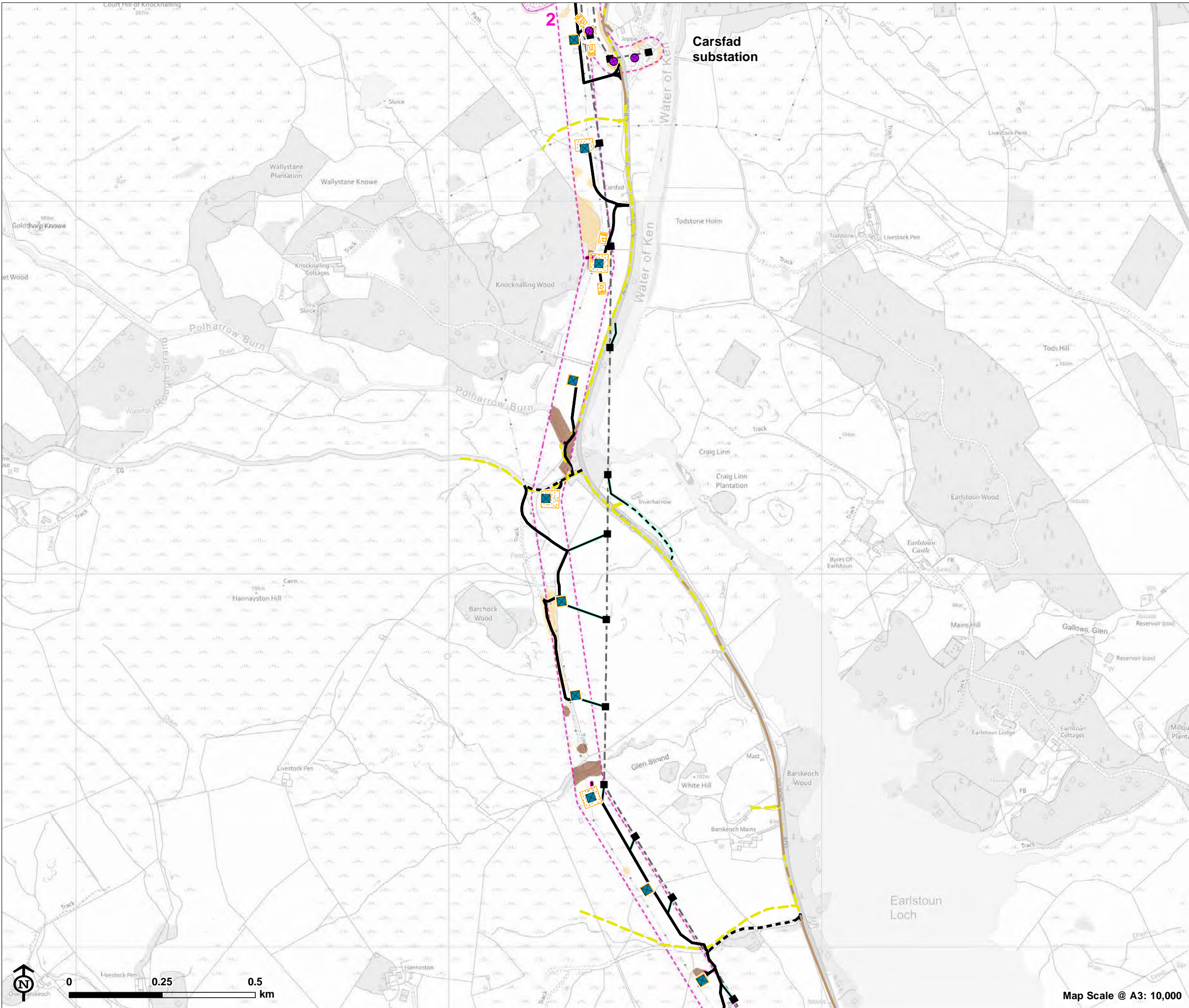


Figure 5.2.3: Forestry Felling



- Overhead line infrastructure**
- Polquhanity to Glenlee via Kendoon (steel lattice tower)
 - Carsfad to Kendoon (wood pole)
 - Existing tower for removal
 - Existing 132kV overhead line to be removed (following construction of the KTR Project)
 - Proposed 11kV UGC
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
- Access to towers for removal**
- Existing access
 - New access
- Working area**
- Working area
 - Construction compound
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

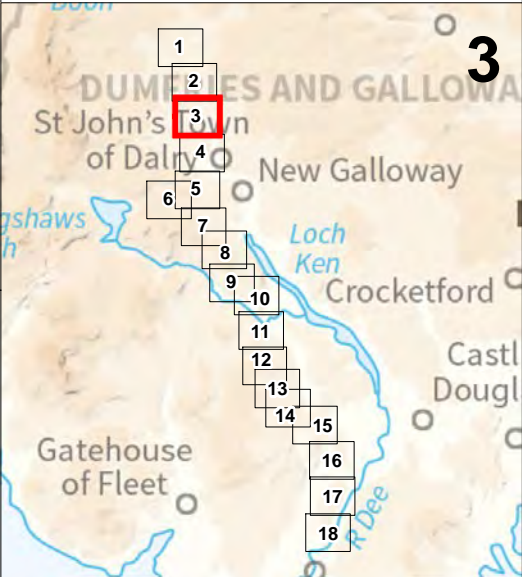
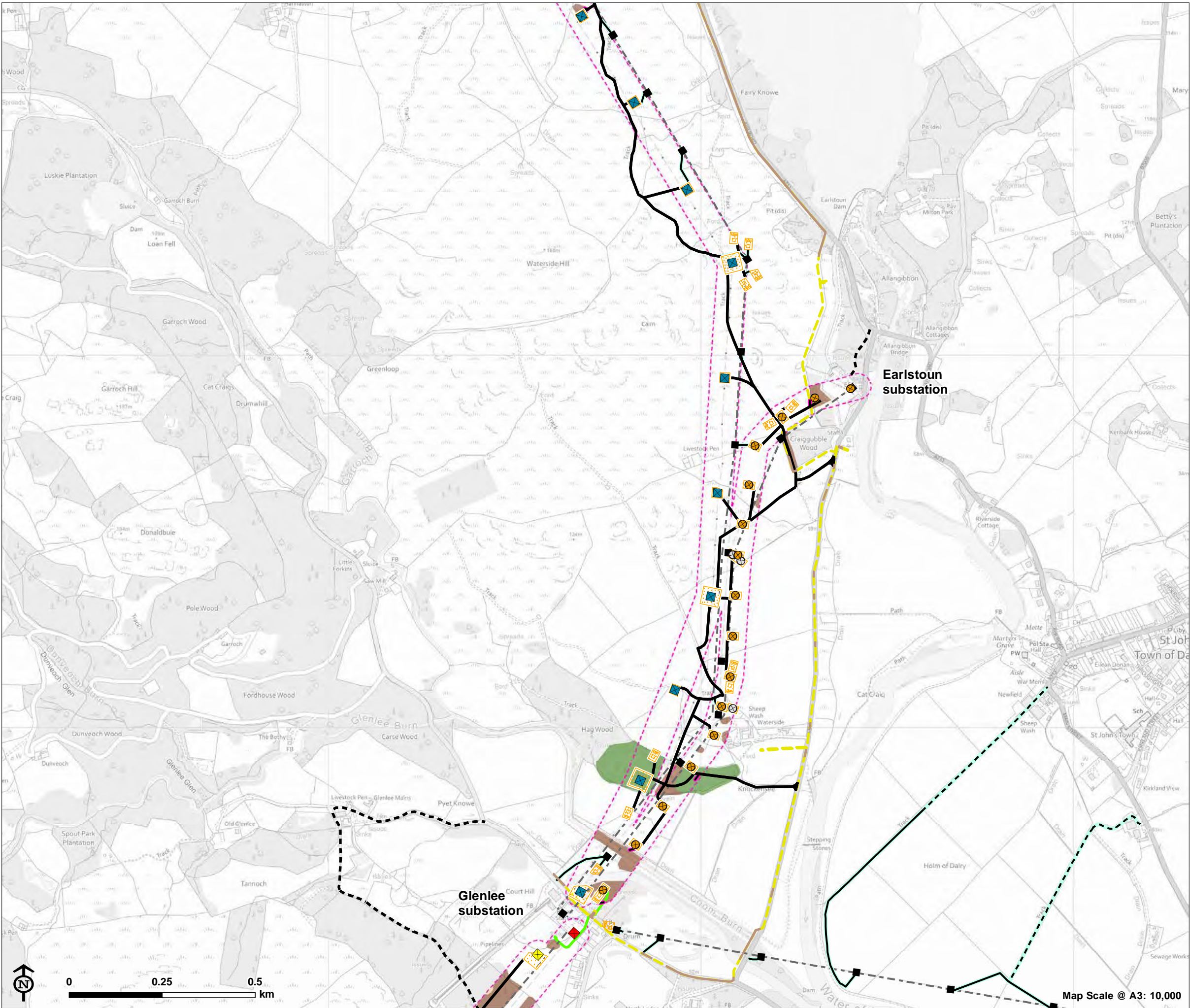
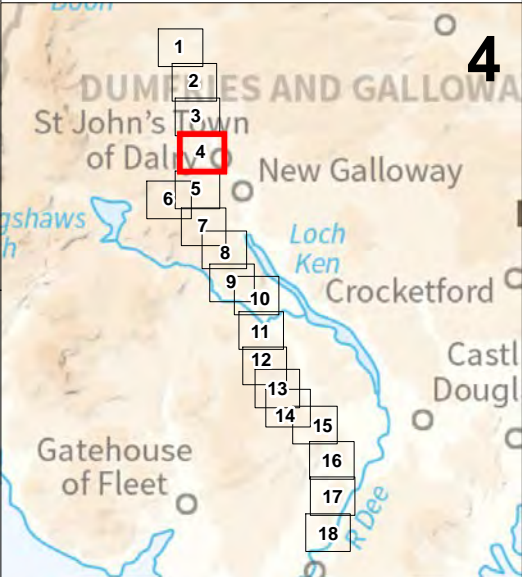


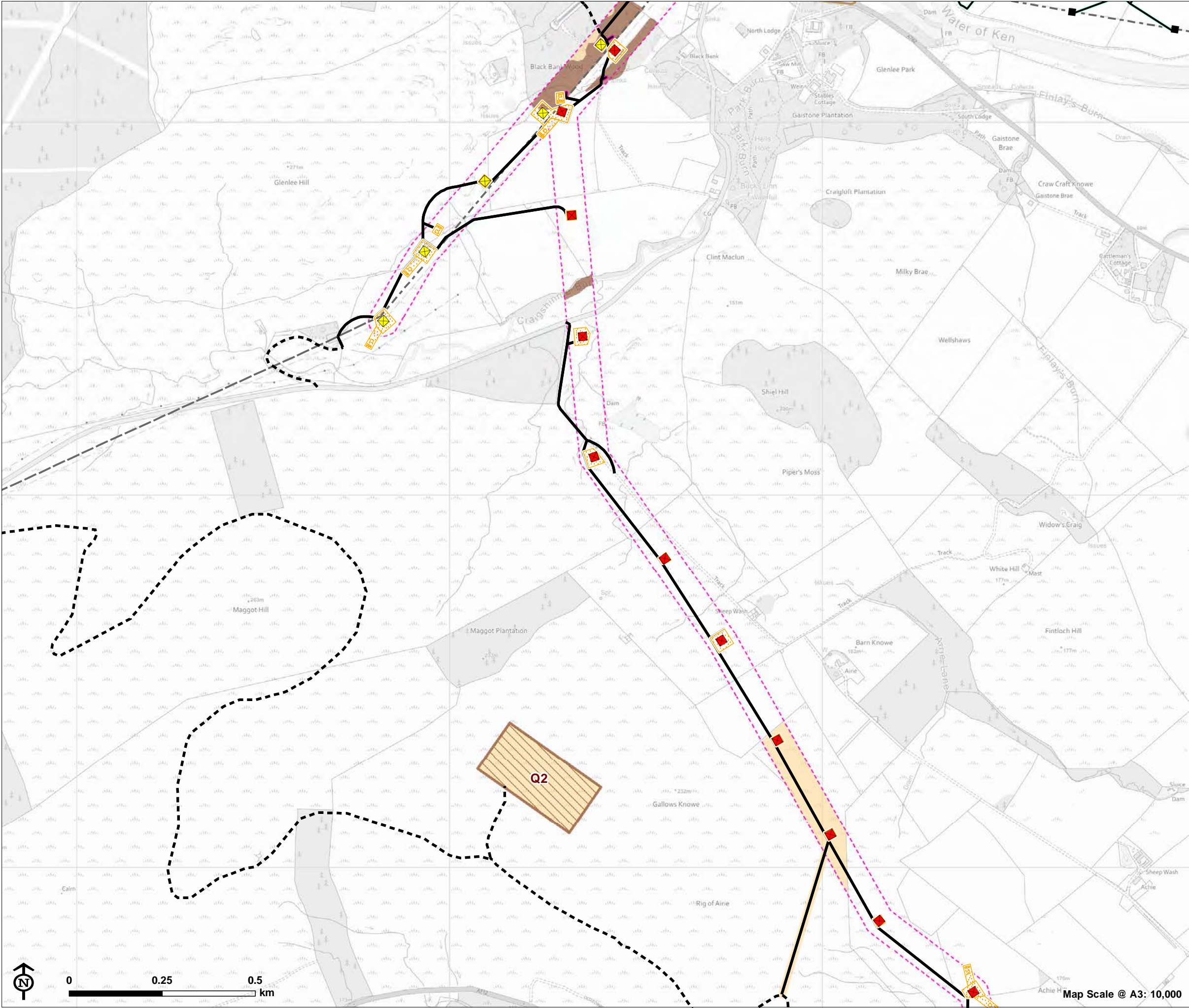
Figure 5.2.4: Forestry Felling



- Overhead line infrastructure**
- Polquharity to Glenlee via Kendoon (steel lattice tower)
 - Earlstoun to Glenlee (wood pole)
 - Earlstoun to Glenlee (temporary wood pole)
 - Glenlee to Tongland (steel lattice tower)
 - BG route deviation (steel lattice tower)
 - Existing tower for removal
 - Existing 132kV overhead line to be removed (following construction of the KTR Project)
 - Underground cable
 - Proposed 11kV UGC
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
- Access to towers for removal**
- Existing access
 - New access
- Working area**
- Working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Mature conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.





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Figure 5.2.5: Forestry Felling

- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
 - BG route deviation (steel lattice tower)
 - Existing tower for removal
 - Existing 132kV overhead line to be removed (following construction of the KTR Project)
 - Existing network
 - Proposed 11kV UGC
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
- Access to towers for removal**
- Existing access
 - New access
- Working area**
- Working area
 - Potential quarry working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

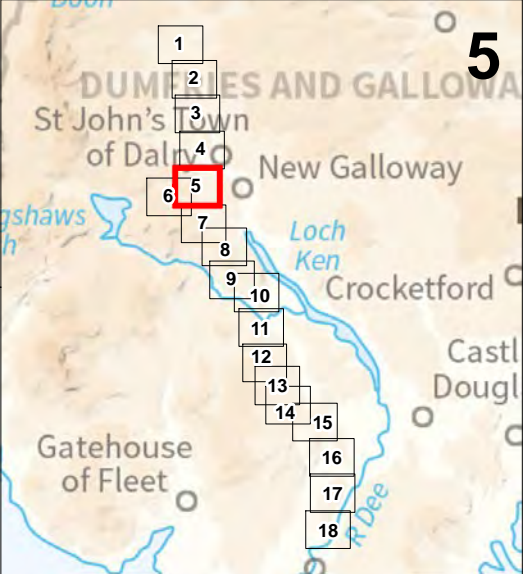
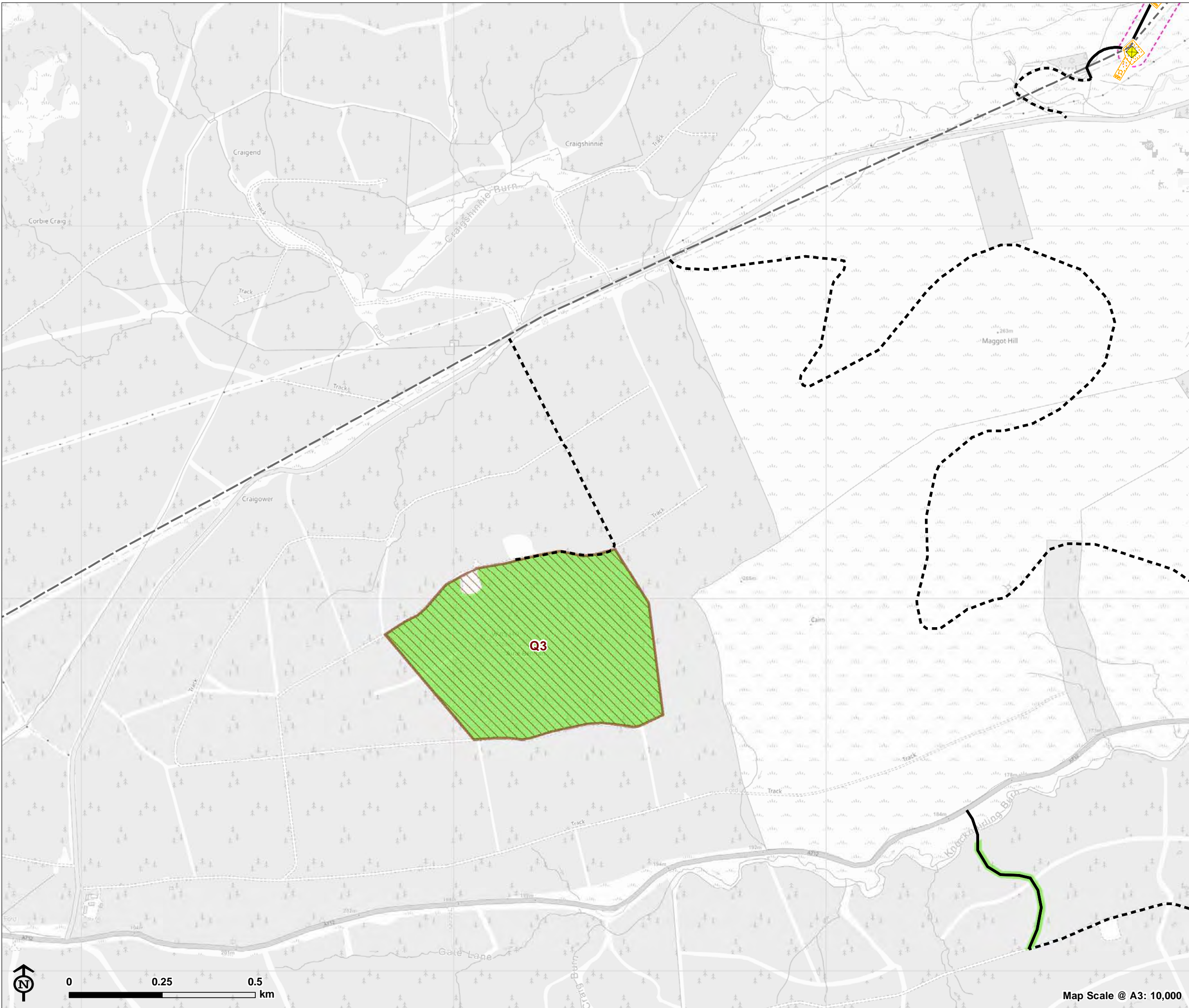


Figure 5.2.6: Forestry Felling



- Overhead line infrastructure**
- Yellow hatched area: BG route deviation (steel lattice tower)
 - Dashed line: Existing 132kV overhead line to be removed (following construction of the KTR Project)
 - Solid line: Existing network
- Access to proposed towers**
- Dashed line: Existing access
 - Thick black line: New access
 - Yellow hatched area: Working area
 - Brown hatched area: Potential quarry working area
 - Pink dashed line: Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Green hatched area: Semi mature conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

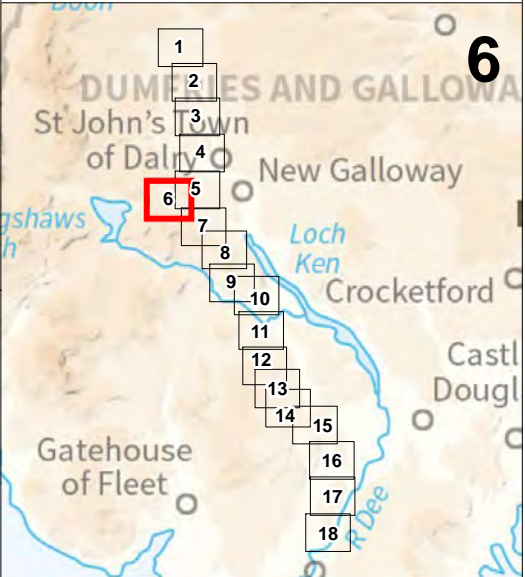
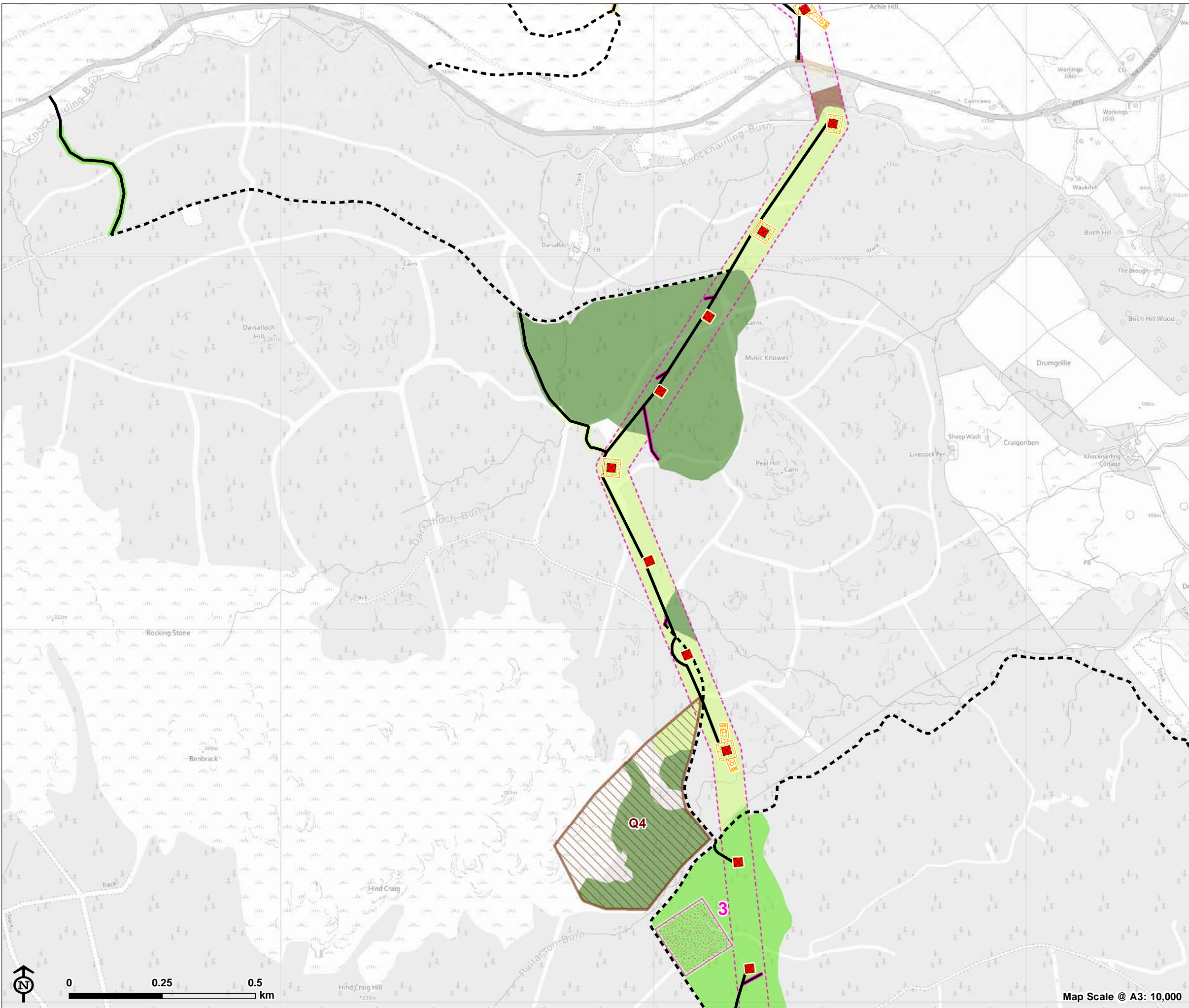


Figure 5.2.7: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
 - Working area
 - Construction compound
 - Potential quarry working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Mature conifers
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

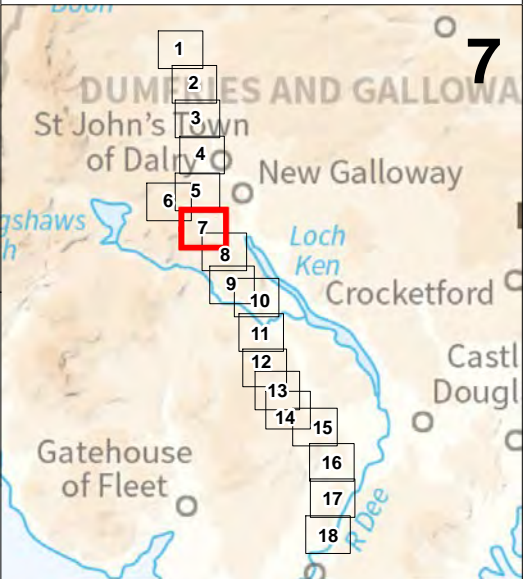


Figure 5.2.8: Forestry Felling

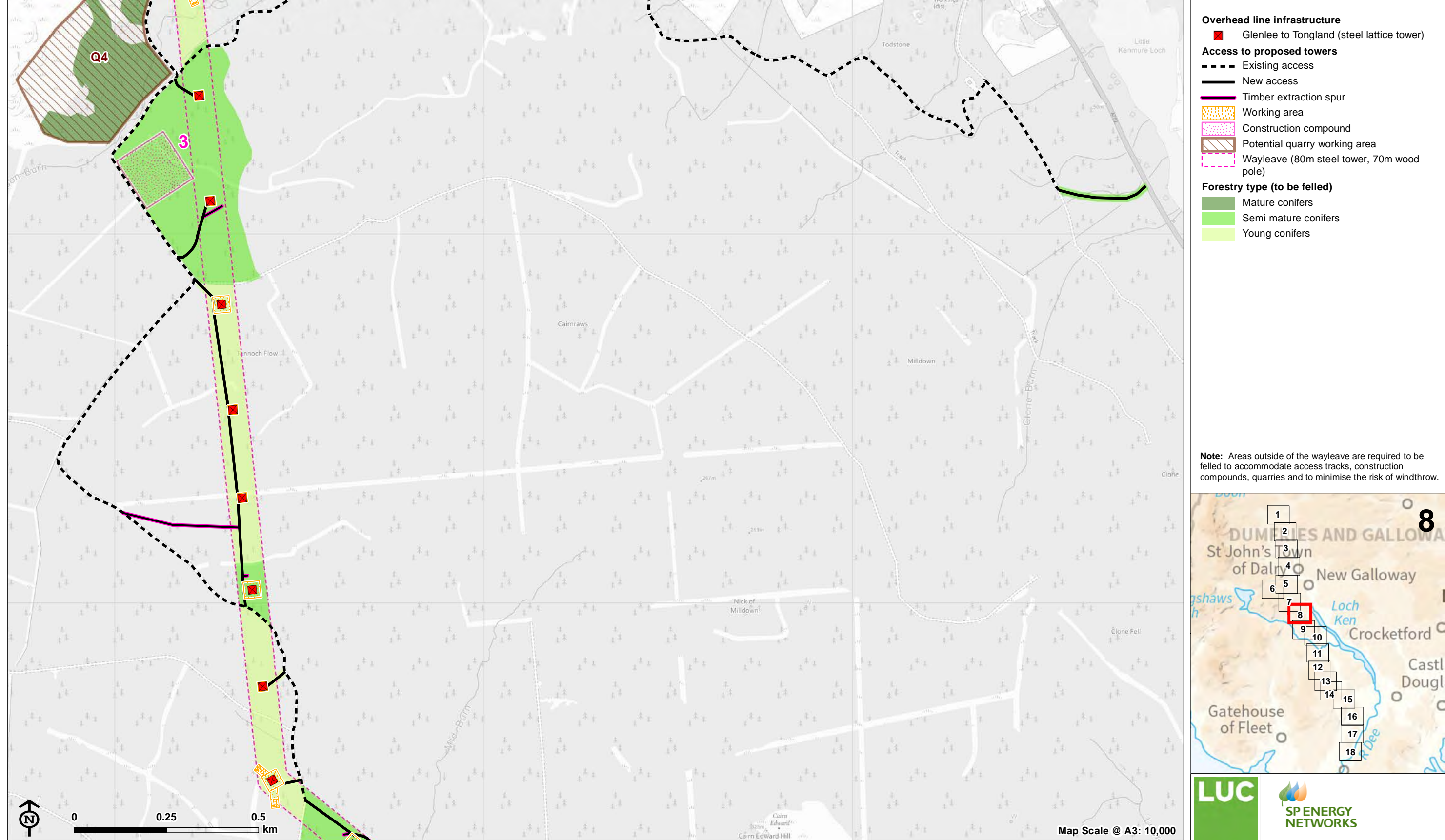
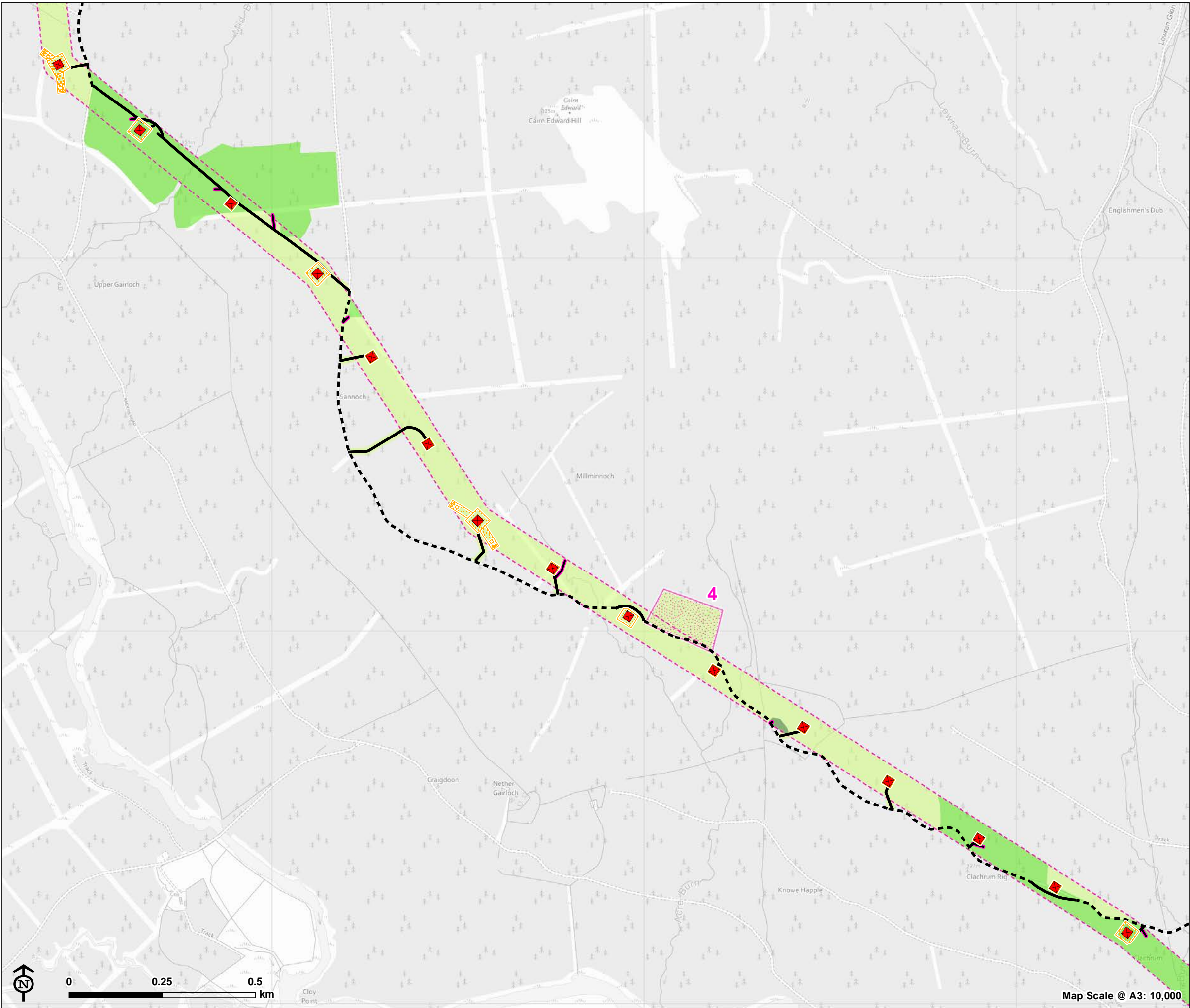


Figure 5.2.9: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
 - Working area
 - Construction compound
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Mature conifers
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

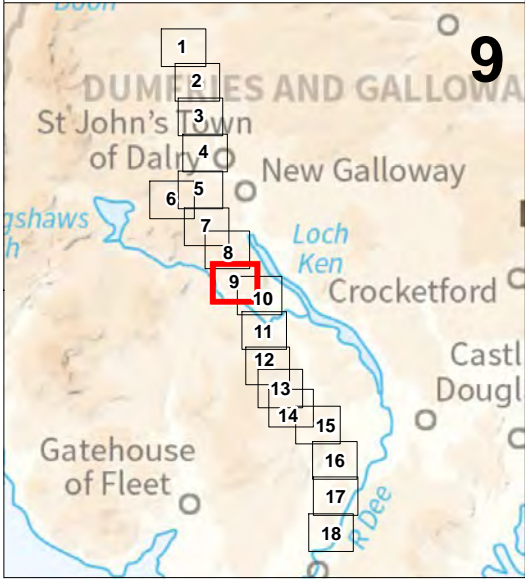


Figure 5.2.10: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
- Timber extraction spur**
-
- Working area**
- ▨
- Construction compound**
- ▨
- Wayleave (80m steel tower, 70m wood pole)**
-
- Forestry type (to be felled)**
- Mature conifers
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

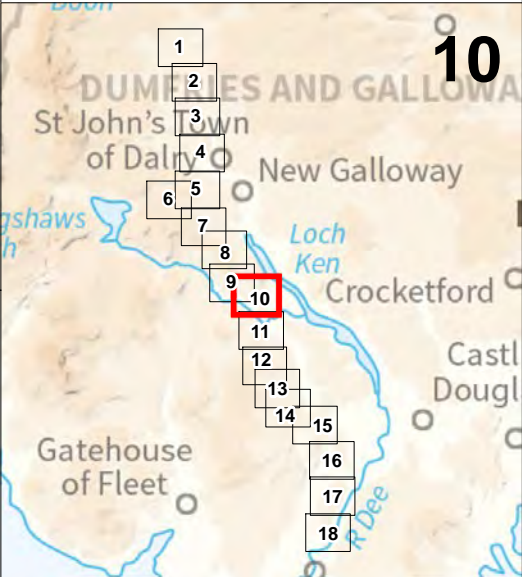


Figure 5.2.11: Forestry Felling



Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

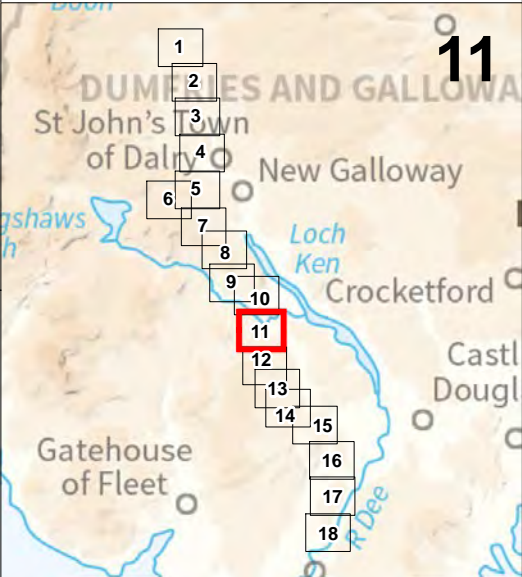
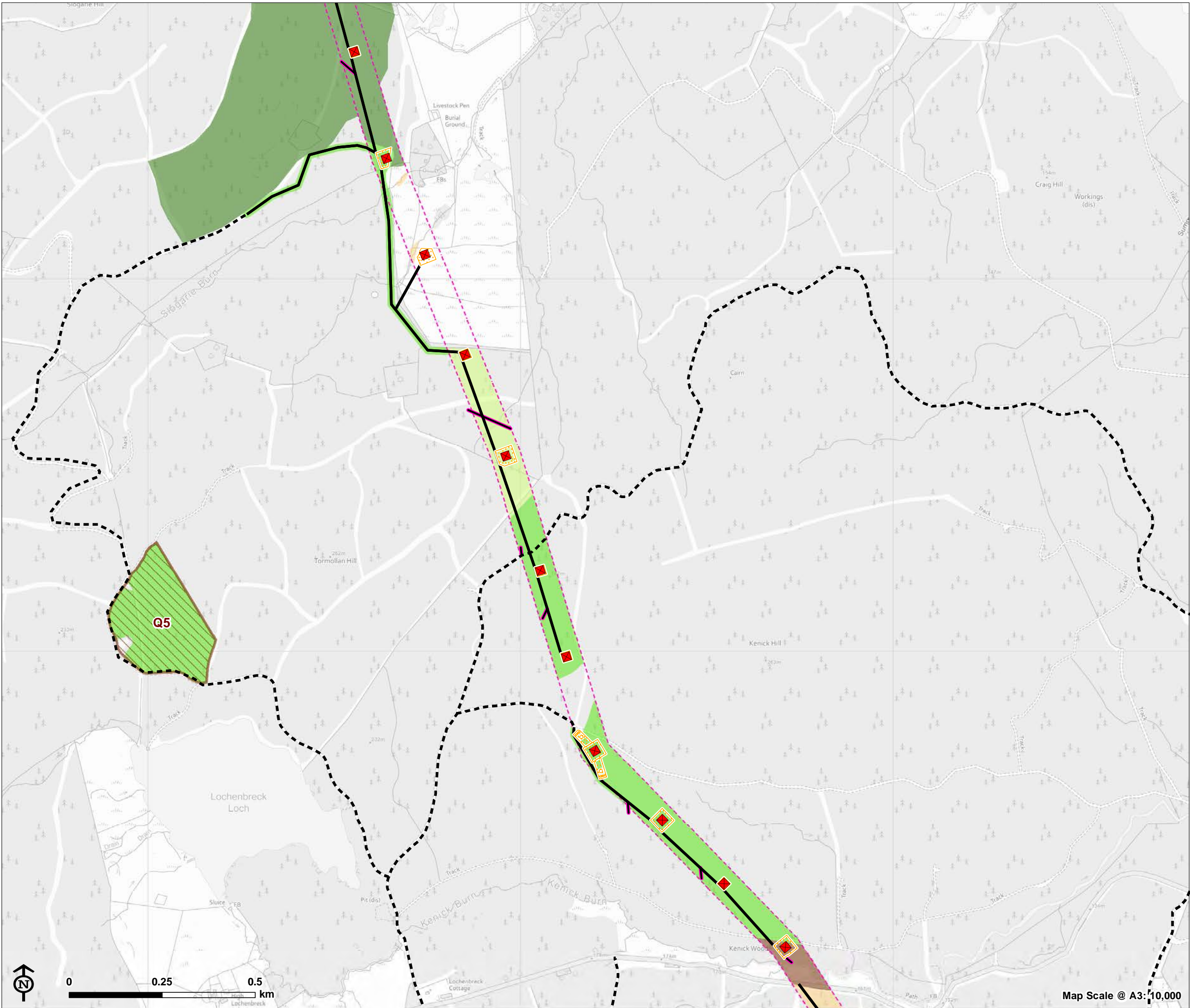


Figure 5.2.12: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
 - Working area
 - Potential quarry working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Mature conifers
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

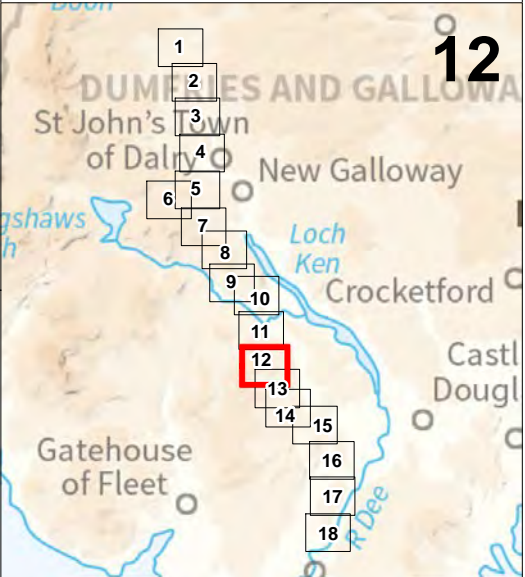
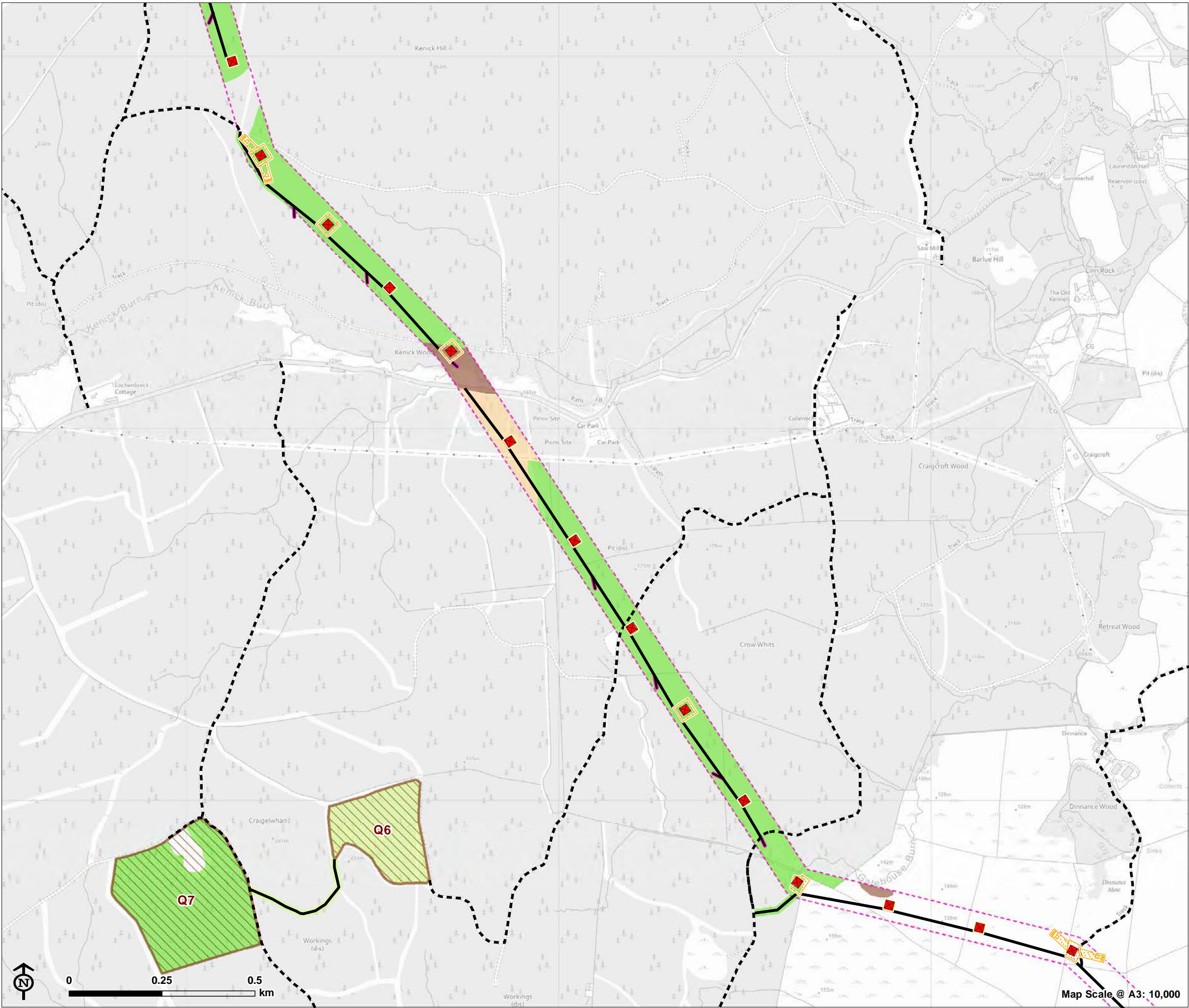


Figure 5.2.13: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
 - Working area
 - Potential quarry working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

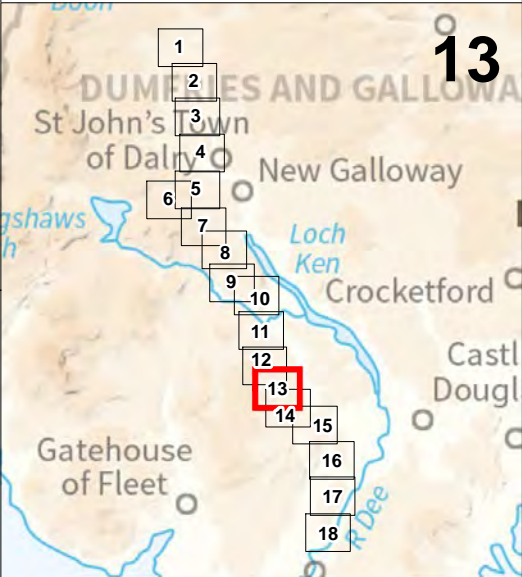
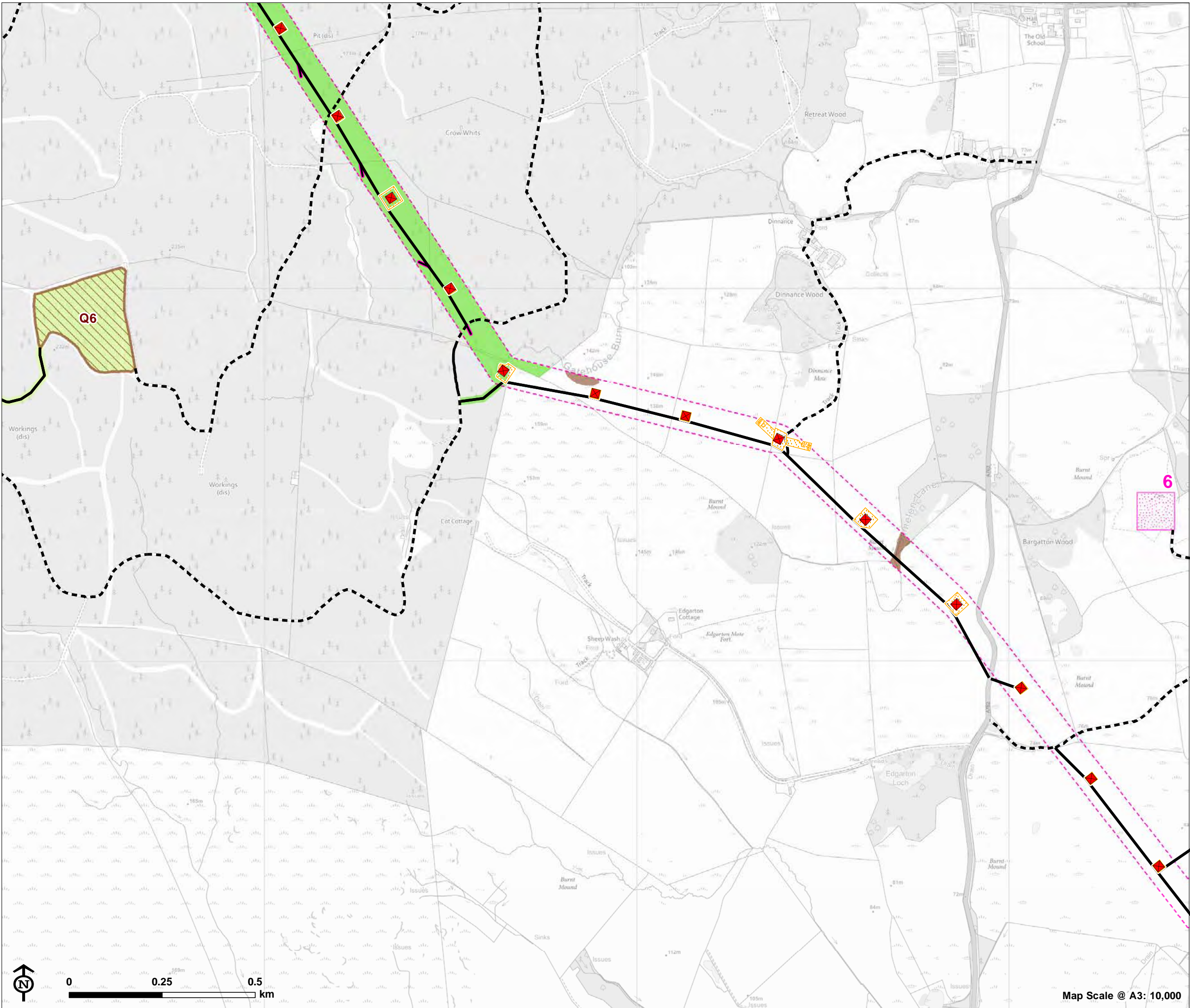
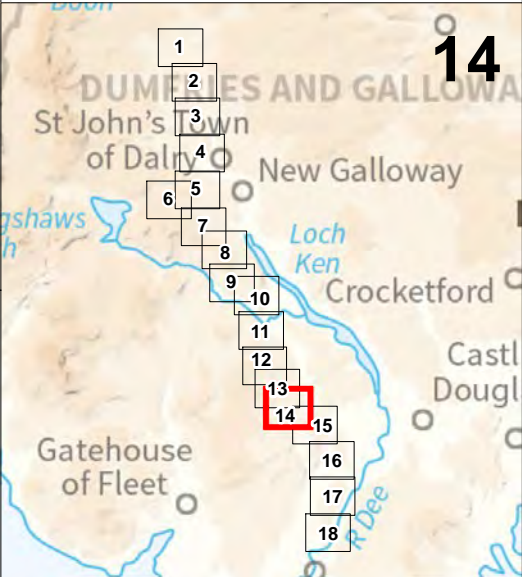


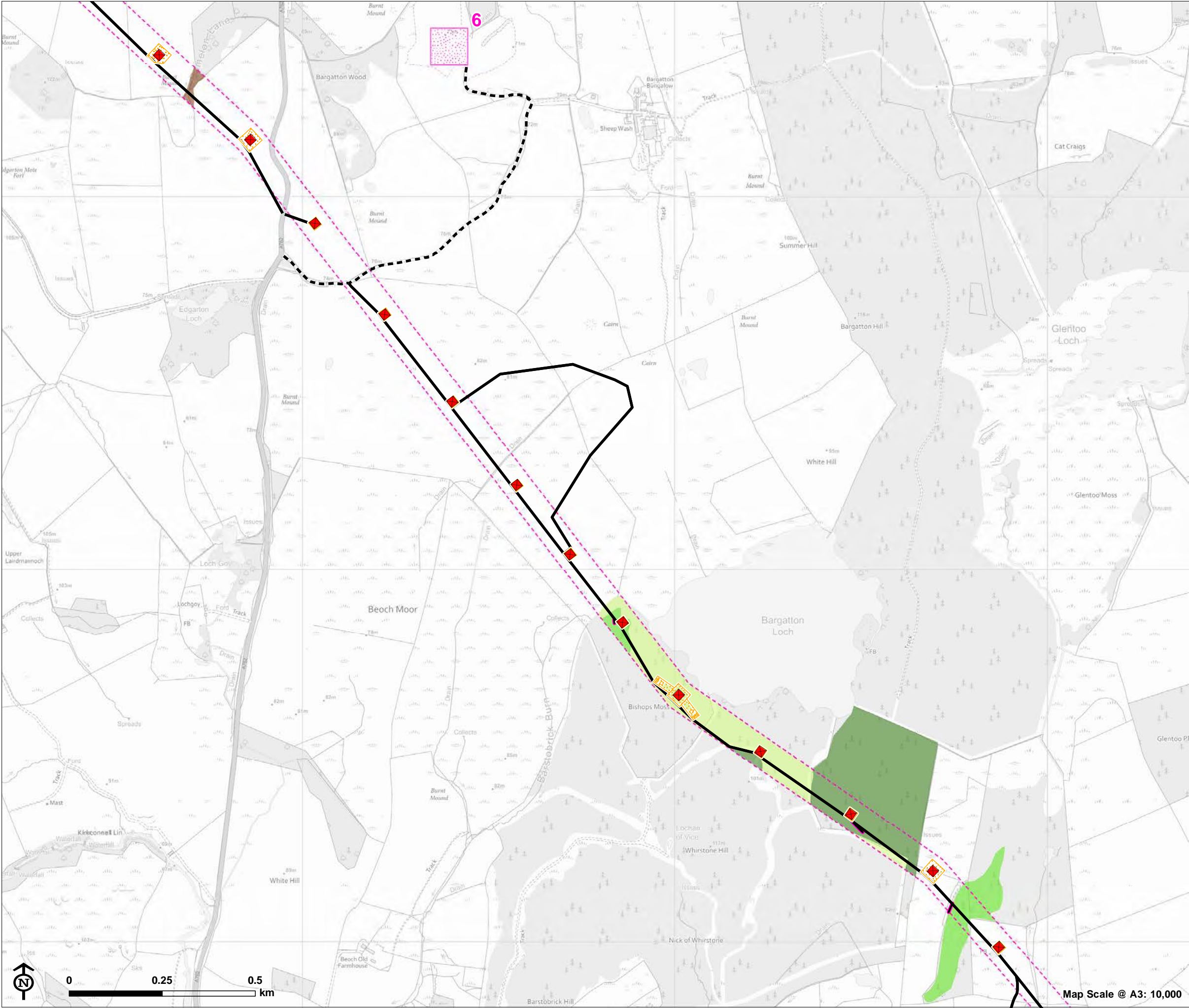
Figure 5.2.14: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
 - Working area
 - Construction compound
 - Potential quarry working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Young broadleaves
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.





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Figure 5.2.15: Forestry Felling

- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
- Access to proposed towers**
- Existing access
 - New access
 - Timber extraction spur
- Access to proposed towers**
- Working area
 - Construction compound
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Mature conifers
 - Semi mature conifers
 - Young conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

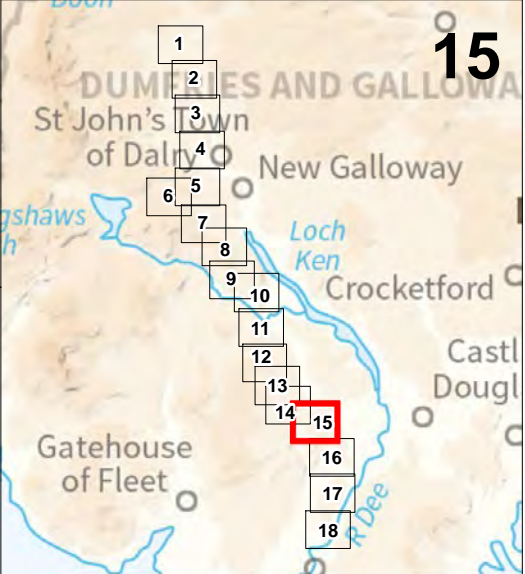


Figure 5.2.16: Forestry Felling

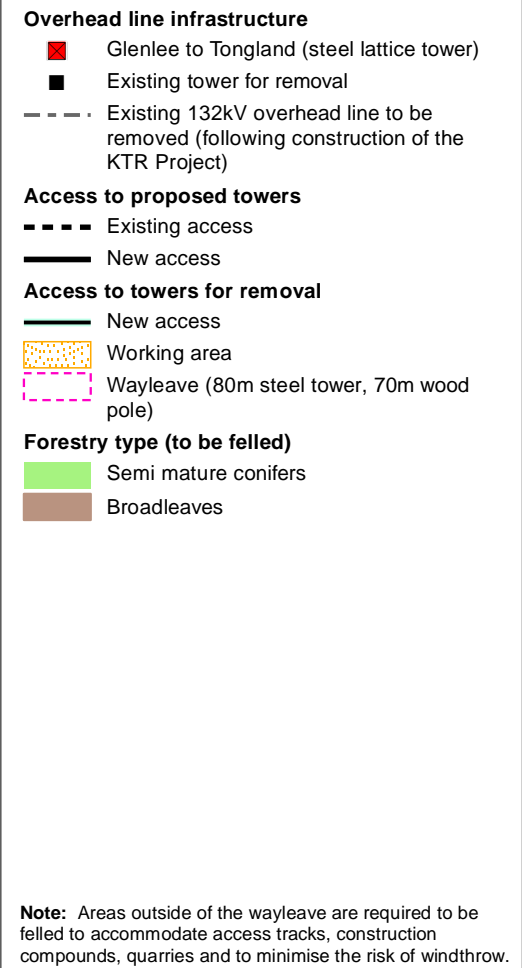
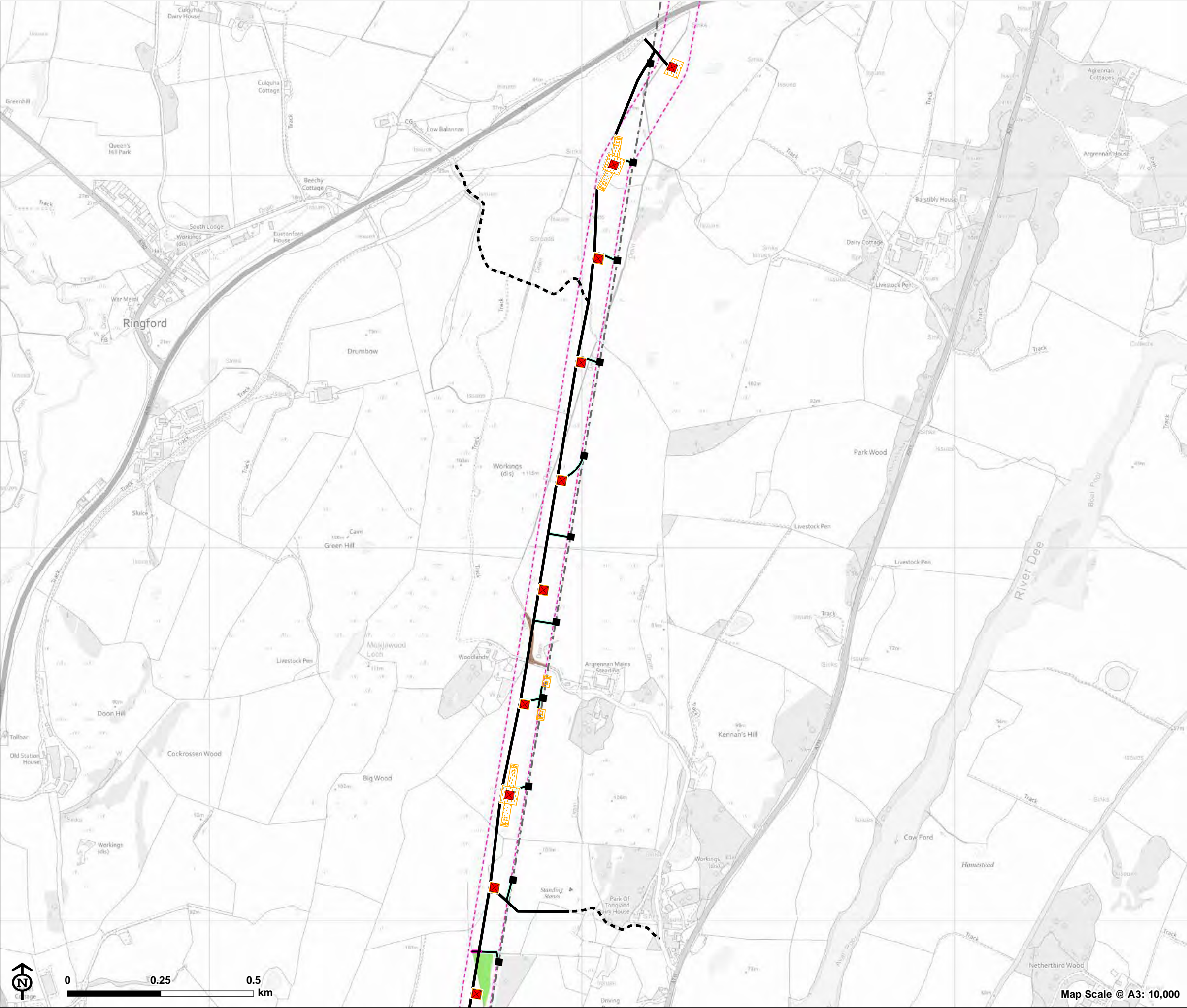


Figure 5.2.17: Forestry Felling



- Overhead line infrastructure**
- Glenlee to Tongland (steel lattice tower)
 - Existing tower for removal
 - - - Existing 132kV overhead line to be removed (following construction of the KTR Project)
- Access to proposed towers**
- - - Existing access
 - New access
 - Timber extraction spur
- Access to towers for removal**
- New access
 - Working area
 - Wayleave (80m steel tower, 70m wood pole)
- Forestry type (to be felled)**
- Broadleaves
 - Semi mature conifers

Note: Areas outside of the wayleave are required to be felled to accommodate access tracks, construction compounds, quarries and to minimise the risk of windthrow.

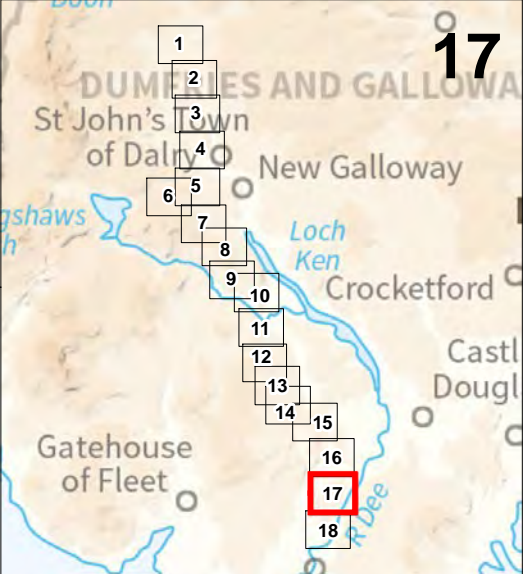


Figure 5.2.18: Forestry Felling

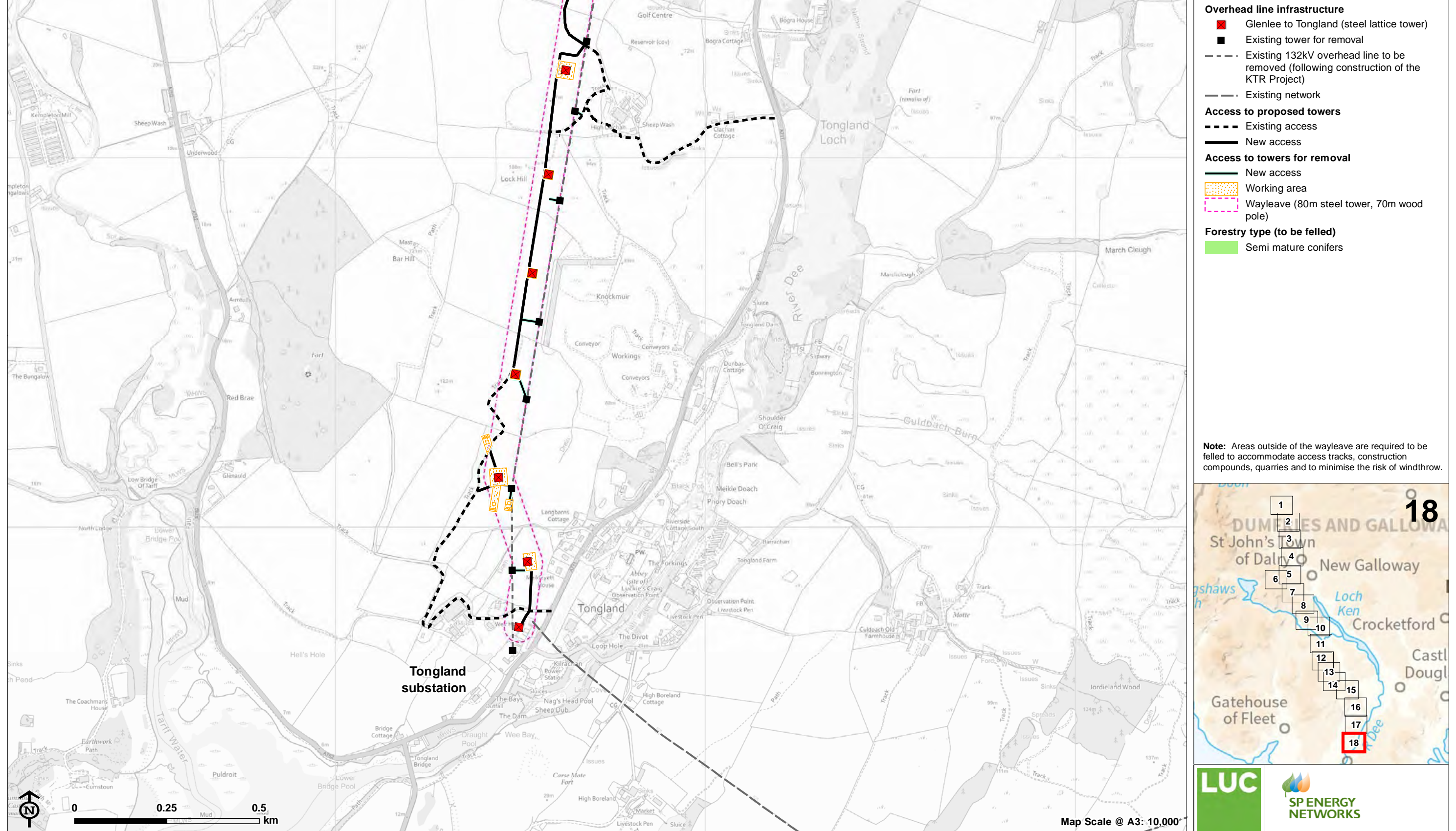













Figure 5.3: Quarry and Construction Compound Locations

-  Polquhany sealing end and terminal tower
-  Substation and hydro electricity generating station
-  Polquhany to Glenlee via Kendoon
-  Carsfad to Kendoon
-  Earlstoun to Glenlee
-  BG route deviation
-  Glenlee to Tongland
-  Existing 132kV overhead line to be removed (following construction of the KTR Project)
-  Existing network
-  Construction compound
-  Potential quarry working areas
- Q1. Barlae Hill Quarry
- Q2. Gallows Knowe Quarry
- Q3. Will's Hill Quarry
- Q4. Hind Craig Quarry
- Q5. Lochenbreck Quarry
- Q6. Craigelwhan Quarry
- Q7. Craigelwhan West Quarry

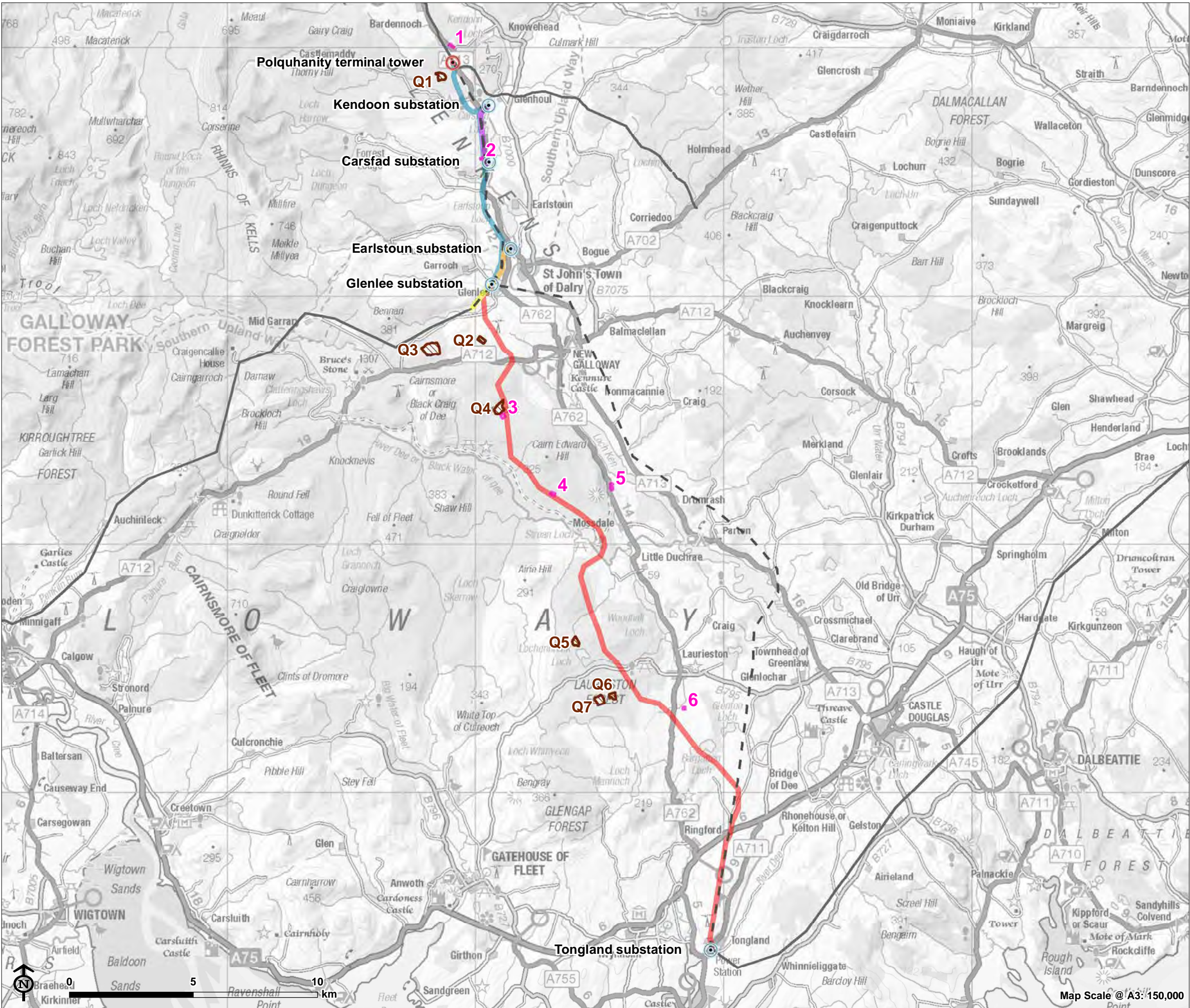
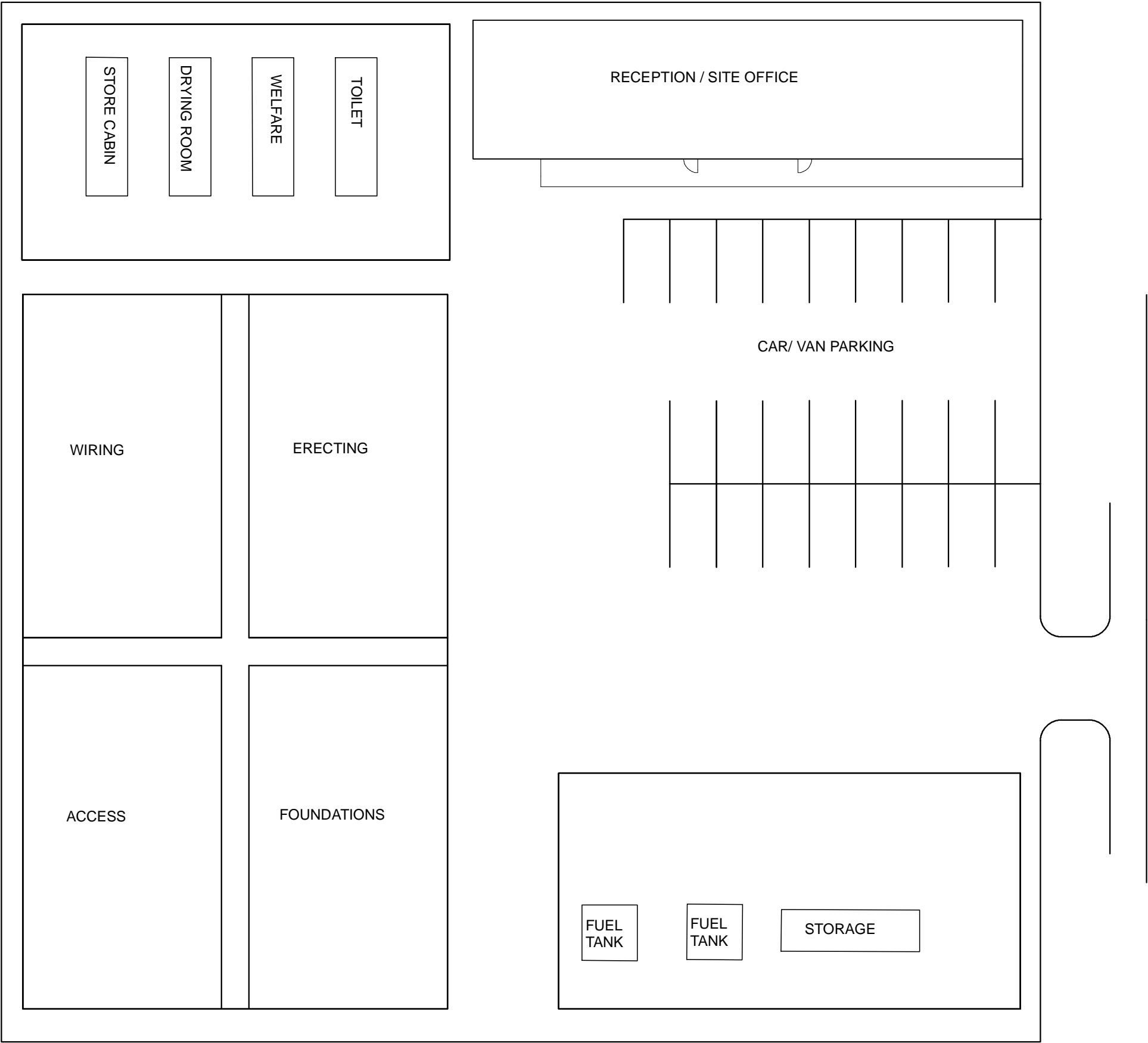













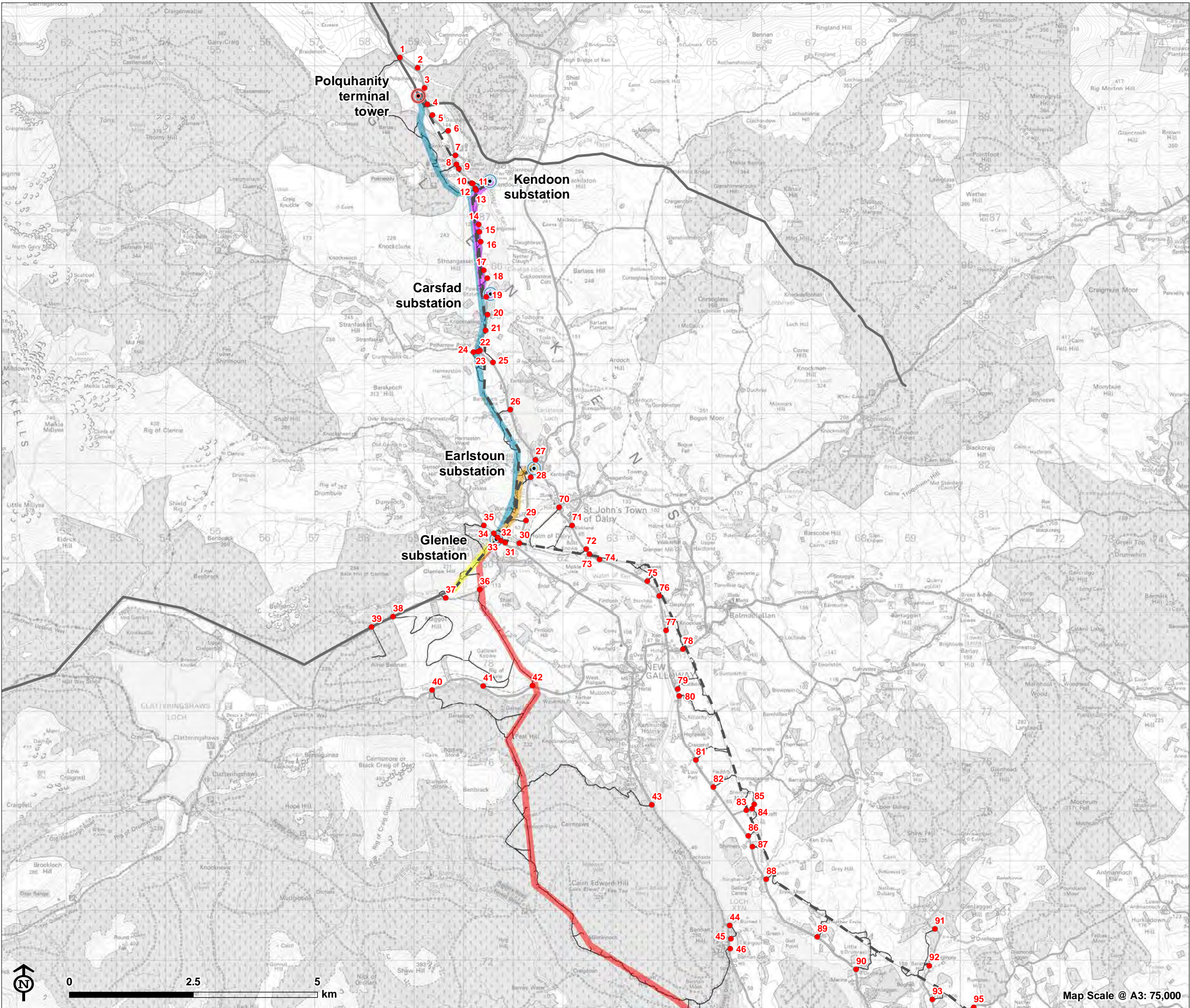
Figure 5.4: Typical Construction Compound



Not to scale (Indicative)

Figure 5.5.1: Overview of Access Points

-  Polquhanity sealing end and terminal tower
-  Substation and hydro electricity generating station
-  Polquhanity to Glenlee via Kendoon
-  Carsfad to Kendoon
-  Earlstoun to Glenlee
-  BG route deviation
-  Glenlee to Tongland
-  Existing 132kV overhead line to be removed (following construction of the KTR Project)
-  Existing network
-  Access track (new and existing)
-  Access point



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Figure 5.5.2: Overview of Access Points

- Substation and hydro electricity generating station
- Glenlee to Tongland
- Existing 132kV overhead line to be removed (following construction of the KTR Project)
- Existing network
- Access track (new and existing)
- Access point

