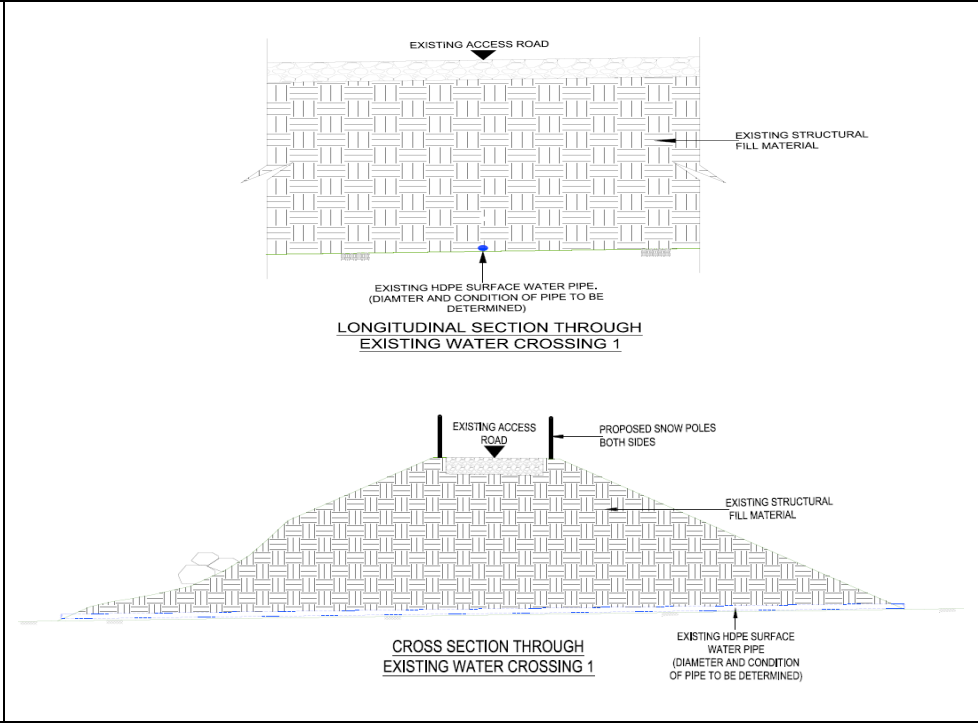


Appendix 11.2 Watercourse Crossing Schedule

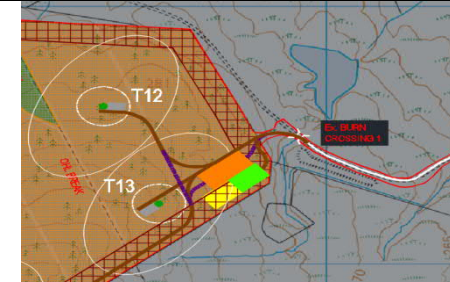
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Douglas West Extension - Water Crossing Details

Crossing:	Douglas West Extension – Watercourse crossing 1
Location:	Proposed windfarm site entrance south west of Longhill pond.
Watercourse:	Existing Longhill HDPE piped water under existing access tack between drainage ditches.
NGR:	NS 81920 32492
Description:	Piped water crossing to be maintained between existing drainage ditches to Longhill pond. The existing HDPE pipe crossing will maintain the greenfield run off in the area.
Catchment Area:	22 hectares (0.22km ²)
Crossing Type:	Existing HDPE piped watercourse crossing



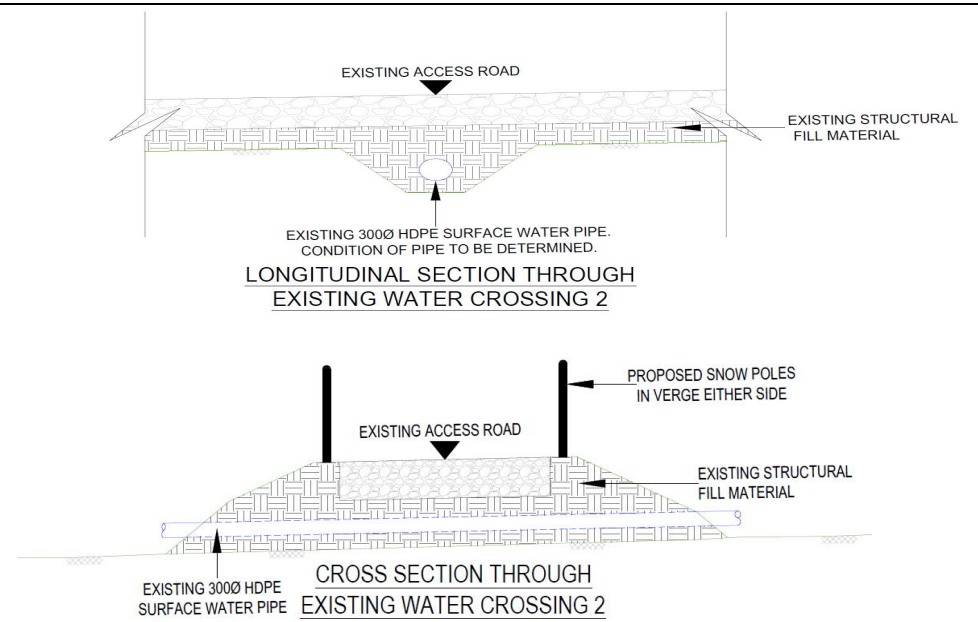
Existing Longhill HDPE pipe crossing



Location Plan

Douglas West Extension - Water Crossing Details

Crossing:	Douglas West Extension – Watercourse crossing 2
Location:	Existing HDPE piped water crossing north west of Arkney Hill
Watercourse:	Arkney Hill HDPE piped water crossing between drainage ditches with downstream outfall to Shiel Burn.
NGR:	NS 80794 31479
Description:	Existing 300Ø HDPE piped water crossing north west of Arkney Hill. The existing 300Ø HDPE pipe crossing will maintain existing greenfield run off in limited catchment area.
Catchment Area:	2 Hectares (0.02km ²)
Crossing Type:	Existing 300Ø HDPE piped water crossing under forestry track to be maintained



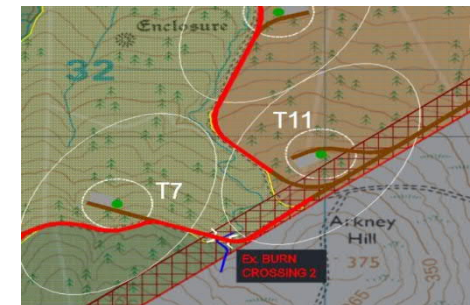
Arkney Hill water crossing location



300Ø HDPE pipe outlet



300Ø HDPE pipe inlet



Location Plan

Douglas West Extension - Water Crossing Details

Crossing: Douglas West Extension – Watercourse crossing 3

Location: Existing drainage ditch between proposed Turbines 4 & 7

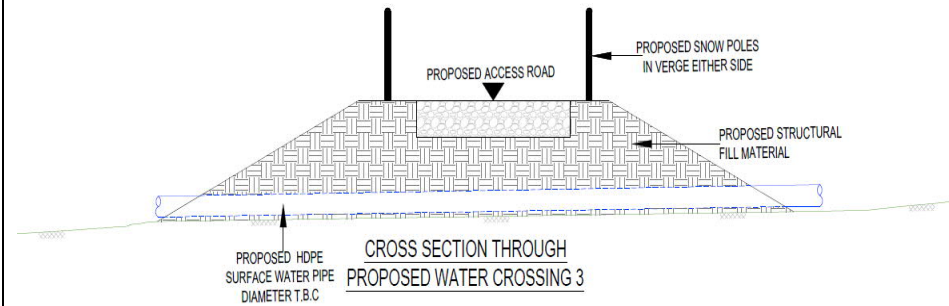
Watercourse: Existing drainage ditch with outfall to Shiel Burn.

NGR: NS 80206 31493

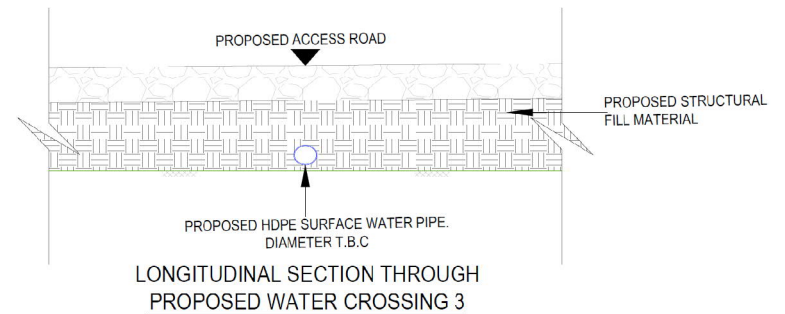
Description: New HDPE piped water crossing south east of proposed turbine 4 to maintain existing greenfield run off in the area.

Catchment Area: 6 hectares (0.06km²)

Crossing Type: Proposed HDPE piped water crossing



Proposed water crossing 3 - Location Plan - No photos available



Douglas West Extension - Water Crossing Details

Crossing: Douglas West Extension – Watercourse crossing 4

Location: Existing water crossing north of Henry’s Hill between proposed turbines 1 & 4.

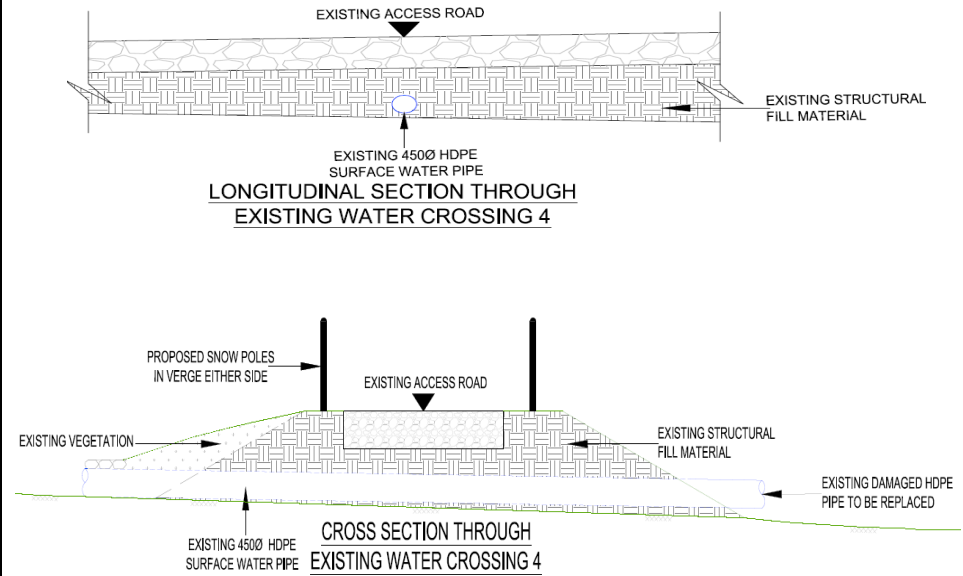
Watercourse: Existing 450Ø HDPE replacement piped water crossing to Shiel Burn, north east of Henry’s Hill

NGR: NS 79964 31469

Description: Well pronounced watercourse with existing damaged 450Ø HDPE pipe under existing forestry track. Replacement section of 450Ø HDPE pipe and slope repairs required to maintain greenfield run off in area.

Catchment Area: 8 hectares (0.08km²)

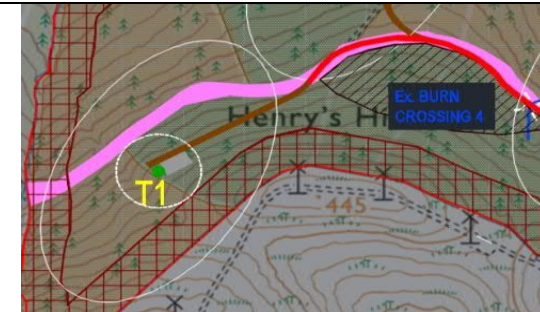
Crossing Type: 450Ø HDPE replacement pipe crossing to Shiel Burn



Existing 450Ø HDPE pipe inlet



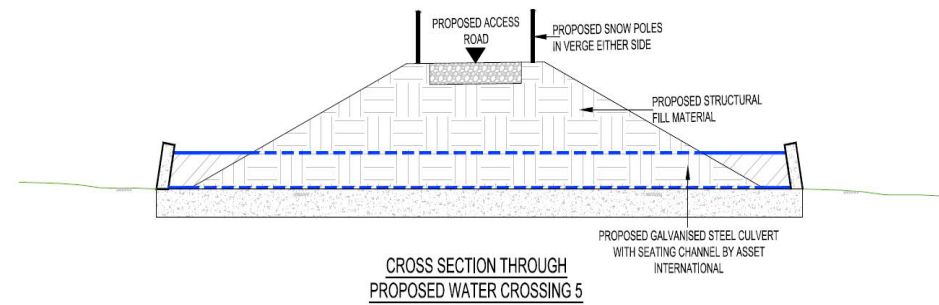
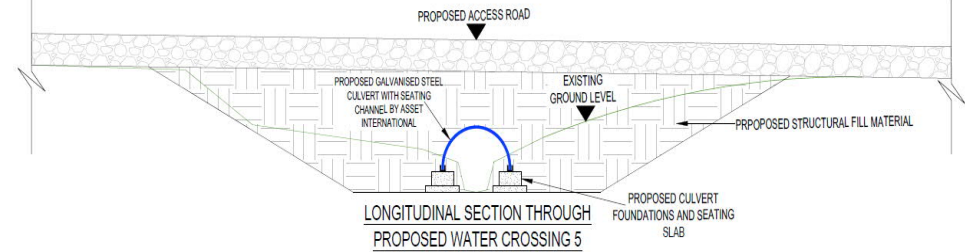
Damaged 450Ø HDPE pipe outlet to be replaced



Location Plan

Douglas West Extension - Water Crossing Details

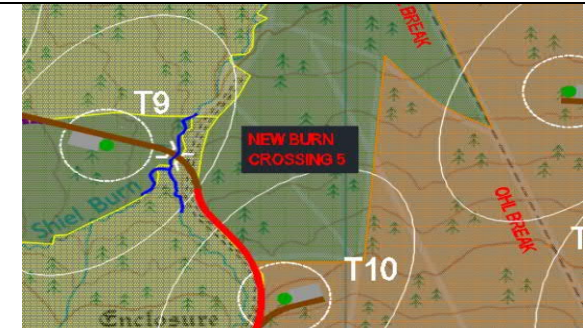
Crossing:	Douglas West Extension - Watercourse crossing 5
Location:	Shiel Burn proposed water crossing between T9 & T10
Watercourse:	Shiel burn
NGR:	NS 80722 32475
Description:	Well defined valley with grass treatment beds approximately 3m high and 5m wide known as the Shiel Burn. The arch culvert will maintain the capacity of the existing burn under the proposed access road.
Catchment Area:	85 hectares (0.85km ²)
Crossing Type:	Proposed galvanised steel bottomless arch culvert with seating rails and foundations



Shiel Burn Crossing and new access road location



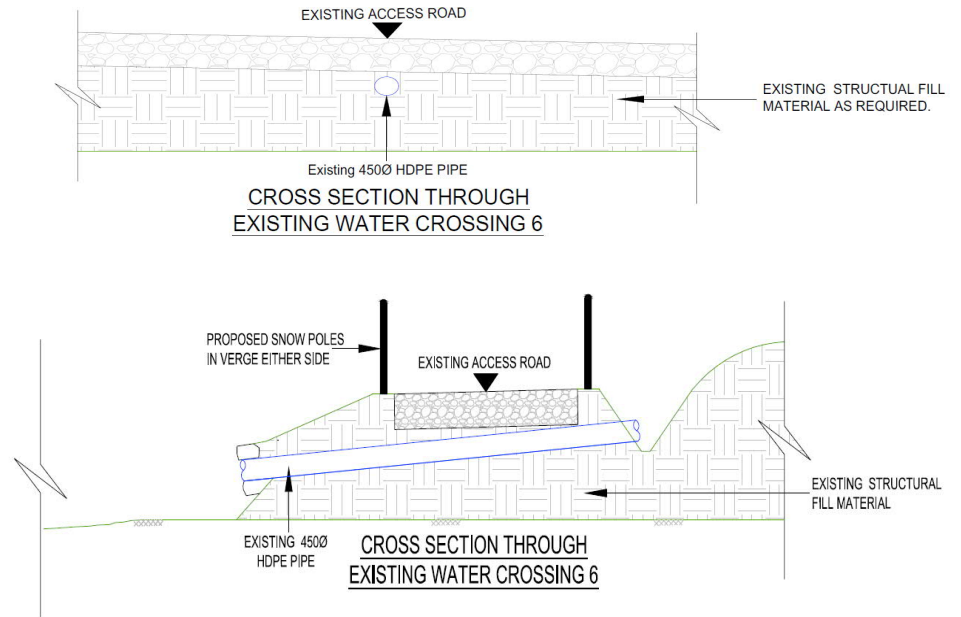
Proposed steel arch culvert location



Location Plan

Douglas West Extension - Water Crossing Details

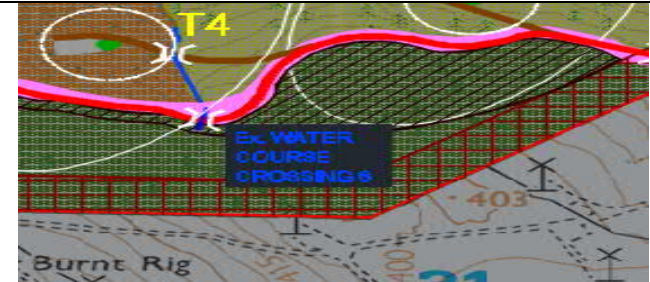
Crossing:	Douglas West Extension – Watercourse crossing 6
Location:	Existing 450Ø HDPE piped crossing between proposed turbine 1 and proposed turbine 4 junction.
Watercourse:	Existing 450Ø HDPE piped water crossing north of Burnt Rig.
NGR:	NS 80238 31354
Description:	Existing 450Ø HDPE piped water crossing under existing forestry access track between small localised drainage ditches to maintain existing greenfield run off in area.
Catchment Area:	7 hectares (0.07km ²)
Crossing Type:	Existing 450Ø HDPE piped water crossing between localised drainage ditches



Existing 450Ø HDPE pipe outlet



Existing 450Ø HDPE pipe inlet



Location Plan