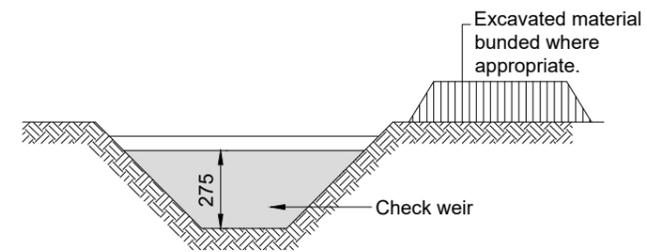


Longitudinal section through drainage with check weirs
Scale 1:25

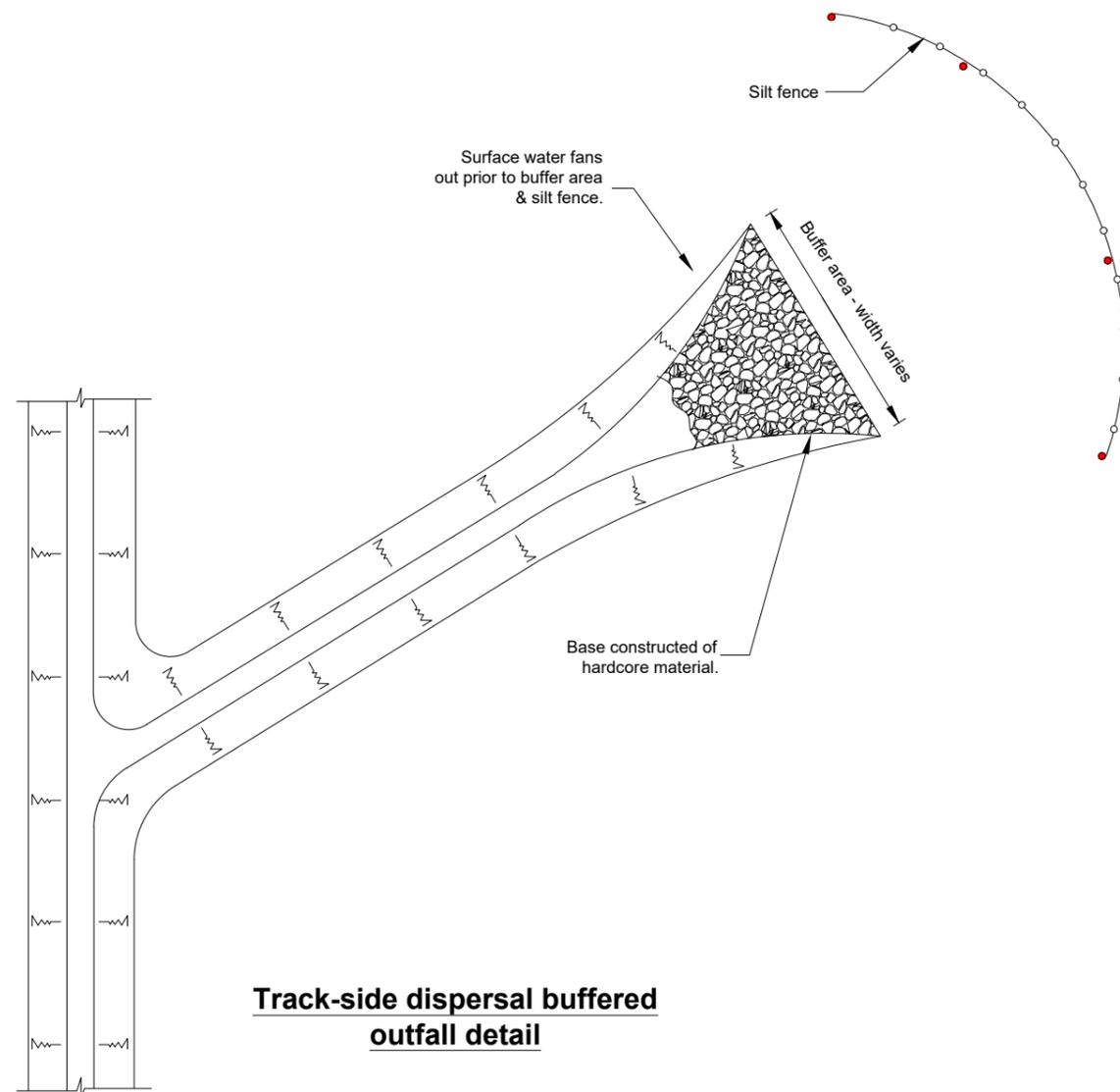


Section 1-1
Scale 1:25

Notes:

Legend:

-  Clean stone
-  Silt fence



Track-side dispersal buffered outfall detail

Drainage Notes

- 1. Construction and maintenance:**
 - Roadside drain should not intercept large volumes of water from the ground above.
 - Roadside drains likely to carry high sediment loads and must discharge into a buffer of adequate width.
 - Drains on the upper side of the road may need culverts to the lower side.
 - Regular inspections, cleaning and repairs where necessary.
- 2. Drains:**
 - Drains shall be designed and construction to mitigate channel erosion, e.g. by installation of perforated pipe with drainage stone surround.
 - Diverted runoff from a disturbed area shall be conveyed to a system of stilling ponds and buffered outfalls.
 - Diverted run off from a undisturbed area shall be conveyed through a buffered outfall within an undisturbed stabilised area at non-erosive velocities.
 - All obstructions within a drainage channel shall be removed and disposed of, so as not to interfere with the proper function of the drainage system.
 - Check weirs / dams shall be constructed using well graded 150mm down angular gravel placed over a geo-textile layer, see detail 1.
 - The spacing of check dams shall be such that the peak of the downstream dam is no lower than the foot of the upstream dam.
 - The use of straw bales within the drainage system should be considered on a temporary basis during construction and maintenance work.
 - Straw bales should, however, only be used to intercept sediment-laden runoff from all drainage areas of disturbed soil.
 - Bales should be anchored in place by the use of timber stakes or re-bars driven through the bale. Where bales are to be placed in position adjacent to other bales (e.g. within a stilling pond), the first stake in each bale should be driven towards the previously laid bale at an angle. This has the effect of forcing the two bales together.
 - Bales shall be replaced as required.
 - Bales shall be removed when they served their usefulness.
- 3. Outfalls:**
 - All drainage channels shall fan/taper out before entering the buffer zone. prior to entering the tapered zone, the base of the drainage channels to be constructed of a hardcore material to aid the settlement of suspended solids.
 - Non-development run-off shall be returned to a surface flow condition e.g. by use if level spreaders.

4	General Updates	25/01/24	LB	DK	AOB
Rev	Amendments	Date	By	Chk	Auth



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Drawing Status & Suitability Code

Client
Knockanarragh Wind Farm Ltd

Project
Knockanarragh Wind Farm

Drawing Title
Typical Drainage Details - Outfall Details

Scale 1:25 @ A3 SLR Project No. 501.00727.00008

Designed	Drawn	Checked	Authorised
TS	TS	DK	AOB

Date	Date	Date	Date
	09/23	09/23	10/23

Drawing Number	Rev.
ABP-314271-22.PL12	4

