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**SURFACE WATER MANAGEMENT PLAN**

- This drawing details the temporary measures to be installed at the site to protect the existing watercourses and surrounding areas from any unwanted or contaminated surface water runoff generated from the site during the construction phase of the development.
- The site is split into 2 distinct areas, one being the main residential area and the second being the area the proposed surface water attenuation will be located.
- Penistone Road forms a boundary between the 2 areas of the site and there is existing watercourse to the west of the attenuation site and Penistone Road.
- The site generally falls in a westerly direction towards the watercourse although Penistone Road forms a physical boundary between the residential and attenuation area.
- Earth bunds approximately 0.5m high with 1 in 5m side slopes and a flat top of 0.30m wide will be formed along the western boundary of the residential site and around the area of the proposed attenuation tank to stop any overland flow of water running onto Penistone Road and the watercourse and also to channel surface water towards purposely built sumps and detention basins along the earth bund.
- The purposely built sumps and detention basins, approximately 0.5m minimum deep and is located in the lowest part of the site and will be constructed-
  - To catch and store any sediment
  - To hold a volume of surface water
  - To allow a controlled outfall into the watercourse.
- As there are no positive outfall available for the sumps on the residential areas daily monitoring of the water levels in the sumps will be undertaken and removed from site in a controlled way when the water level reaches the top of the sump level.
- An outfall pipe from the sump at the proposed attenuation location will be provided at a higher level than the base of the sump to minimise the likelihood of any sediment or other contaminants discharging into the watercourse.
- The outfall pipe will also have a silt trap bag or similar mechanism installed to protect against and sediment discharging into the watercourse.
- The protection measures will be installed prior to any major topsoil strip on site and will be maintained during the construction phase of the development.

**Operation and Maintenance Plan**

- The protection measures should be inspected on a daily basis during the construction phase and especially during or following heavy rainfall and follow the maintenance plans below.

EARTH BUND		
Maintenance	Action	Frequency
Regular	Inspect for damage	Daily
Remedial Work	Remove sediment, debris, or other blockages at base of bund to allow free flowing overland flow Repair areas of damage or deterioration	Monthly or as required Monthly or as required

DETENTION BASIN / SUMP		
Maintenance	Action	Frequency
Regular	Inspect for damage, sediment build up or high water levels	Daily
Remedial Work	Remove sediment and debris and dispose in a controlled and approved manner Repair side slopes and base	Monthly or as required Monthly or as required

Rev: A	13.03.24	Detail revised form attenuation area	IE		
Date:	Assessment:		DN	CHK	APR

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Client: Newell Homes

Status:

Scale: 1:350  
 Size: A0 - 1189 x 841  
 Drawn: IE  
 Chkd: NB  
 Apprd:

Project: Residential Development  
 Penistone Road, Fenay Bridge

Title: Construction Surface Water  
 Management Plan

Drawing No: 22491/TSWMP/001  
 Job No: 22-491  
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