# Graiguenamanagh-Tinnahinch Flood Relief Scheme

## Protection Measures for Ecological Sensitivities of Graiguenamanagh Tinnahinch

### **Appropriate design and mechanisms**

Ecological factors have influenced the flow control mechanism. A Hydro-Brake is a sustainable, low-maintenance, no power solution to alleviate flooding.

Hydro-Brakes are fish-friendly minimising the impact of the fish population (including protected species of the River Barrow and Nore SAC) as they migrate through the watercourse as water velocities are lower.

Another benefit of the Hydro-Brake Flood is the ability to adapt for climate change variations providing future-proofing.



Example of storage area with flow control (River Feagle, Clonakilty)

Hydro-Brake Flood flow control for flood prevention

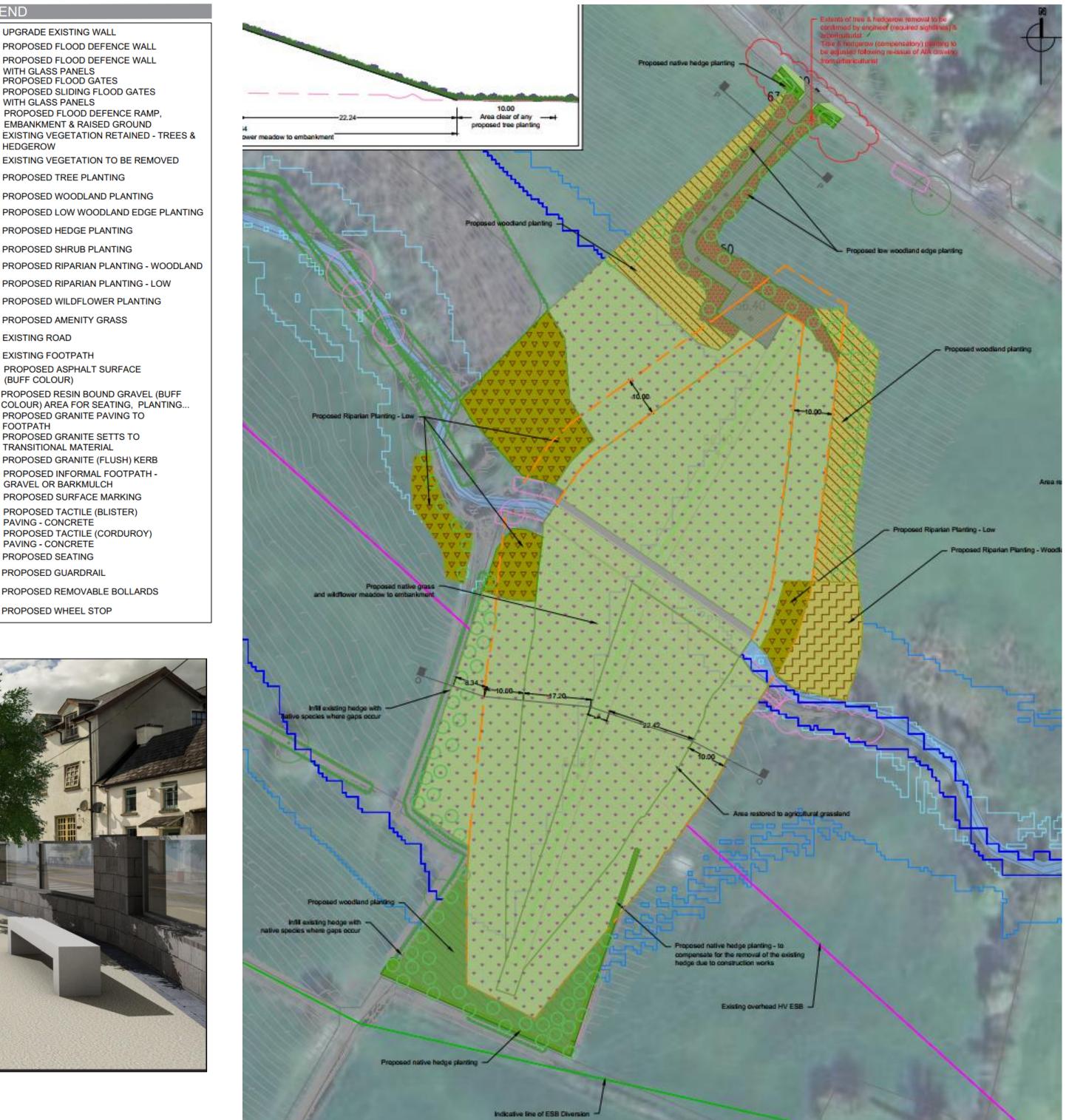
Mock-up of Hydro-Brake Flood flow control for flood prevention) which allows constant passage of fish through the watercourse

**BOARD** 

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#### **Biodiversity Enhancement**

To replace the trees/vegetation to be removed, planting of native species will take place throughout the scheme area. This planting will be largely concentrated in the upstream storage area as indicated in this drawing (right). This will provide habitats for birds and bats. Other standalone vegetation will also provide ecological and landscape value as seen in the below photomontage.





FOOTPATH





Kilkenny County Council Comhairle Chontae Chill Chainnigh





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