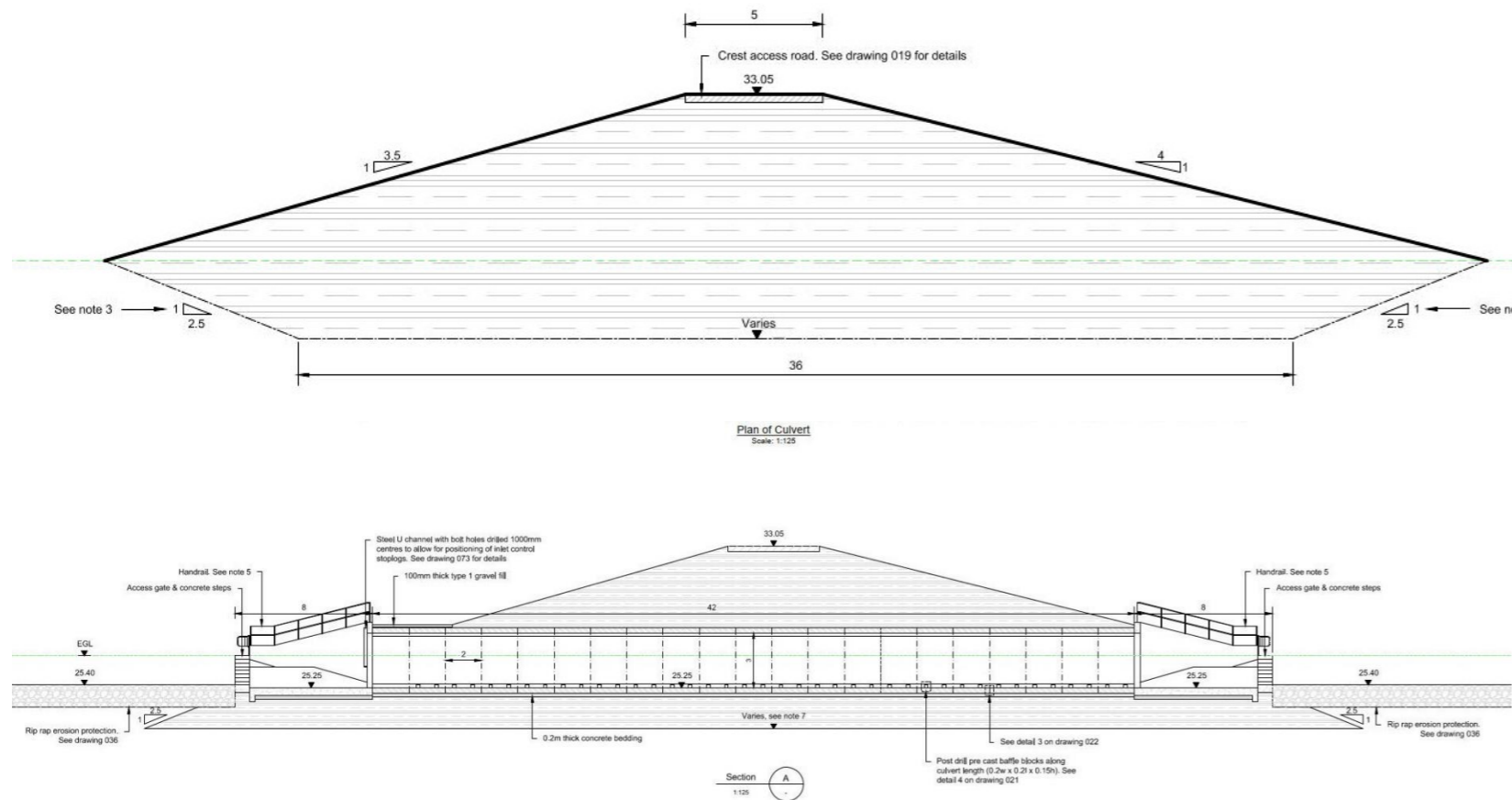


# Coggeshall, Feering & Kelvedon Flood Alleviation Scheme

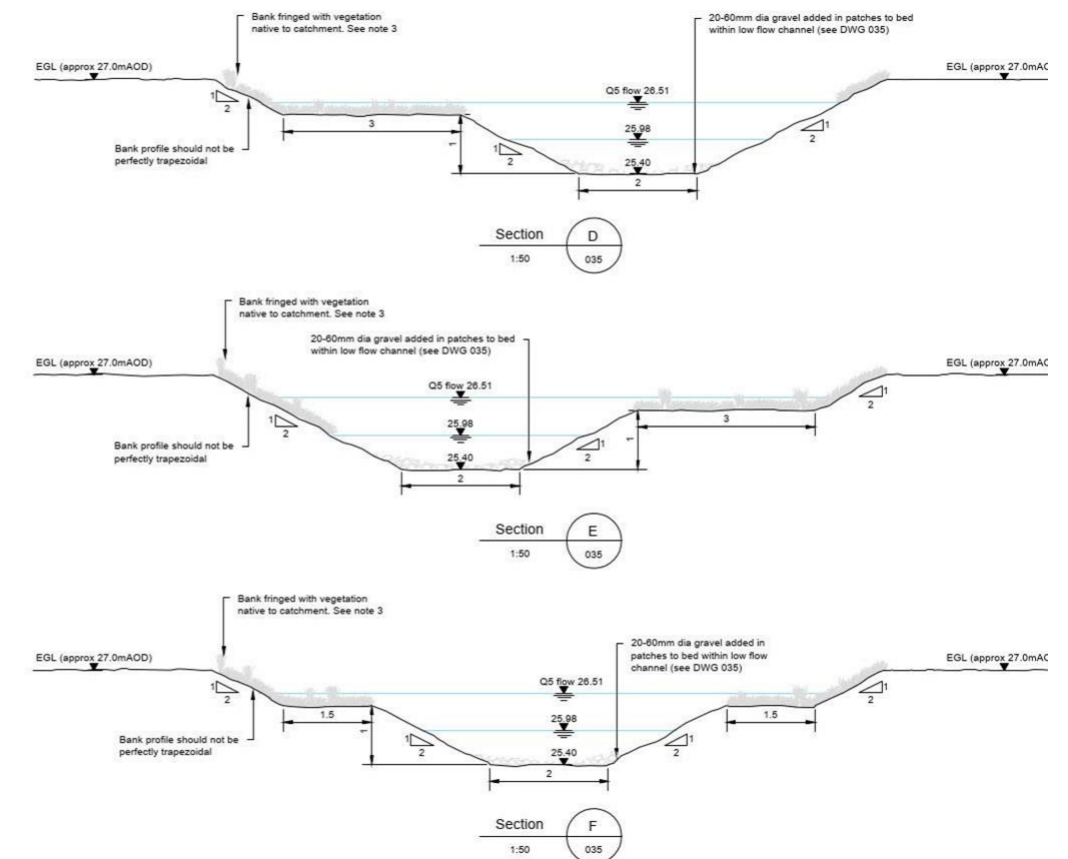
The dam will be constructed from London Clay sourced on site and has been designed with a passive culvert that will allow the controlled release of flood waters held upstream of the dam during extreme flood events. The dam has been designed to include a controlled overflow spillway in the event where the flood storage is full.

The concrete culvert will allow the River Blackwater to flow through the dam under normal flow conditions. Side channels will be created immediately upstream and downstream of the dam which will locally divert a 245m section of the River Blackwater through the dam's culvert. This will result in localised improvements to the existing river channel by creating new in-channel features such as gravel beds and a ponded section, as well as leaving the old river section as a fish refuge area.

The dam's side channels and culvert have been designed to provide suitable conditions for fish and mammal passage. The size and profile(s) of the side channels will also provide enhanced environments for habitat creation or natural colonisation.



*Proposed dam and culvert cross sections*



*Proposed side channel(s) cross sections*