Darton WwTW

Design and Access Statement

To be read in conjunction with planning application drawing(s):-
0350/01/100/1501-A

Design

The proposed structures are two GRP prefabricated kiosks to house the replacement Motor Control Centres (MCC's) which were damaged in the July storms of 2007.

The kiosks are to be located on land entirely owned by Yorkshire Water Services Ltd (YWS), within the boundaries of the Darton Wastewater Treatment Works (WwTW). The proposed location for the kiosks is on areas currently vacant within the WwTW site.

There is insufficient room in existing structures to house the new MCC's and protection from the elements is required, dictating the need for the new kiosks. The new kiosk sizes have been optimised taking account of the sizes of the new MCC's with consideration for operator access and maintenance.

Should the MCC in either kiosk be required to be removed at a later date, the respective kiosk would be lifted off the concrete base allowing ease of access to remove it. However, it is anticipated that this will not be required.

Whilst designing the new MCC kiosks, considerations were made where to locate the new structures to minimise the damage if a similar flooding event should occur. Investigations into flood plains on and around site were undertaken and determined that Darton WwTW was next to and partially in a flood plain. The flood map shows that the outer areas of site are affected by flooding rivers without defences and a large area on the entrance side of site is affected by extreme flooding. This prompted a discussion with Barnsley Council to determine if a flood risk assessment was required. It was agreed with Barnsley Council that a flood risk assessment would not be required but considerations be made in our design to account for future risk. The kiosks have been located on high points of the site where practical and kiosk plinths have been made thicker to increase the height of the MCC's.

The materials and colour are consistent with this type of structures at Darton WwTW.

Access

The kiosks are to be constructed entirely within the boundaries of the WwTW site and access is therefore limited to Yorkshire Water Services (YWS) operating and maintenance staff. No public access requirements are envisaged.

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