

ZB201 – Land north-east of Villa Road, Park Farm, Impington

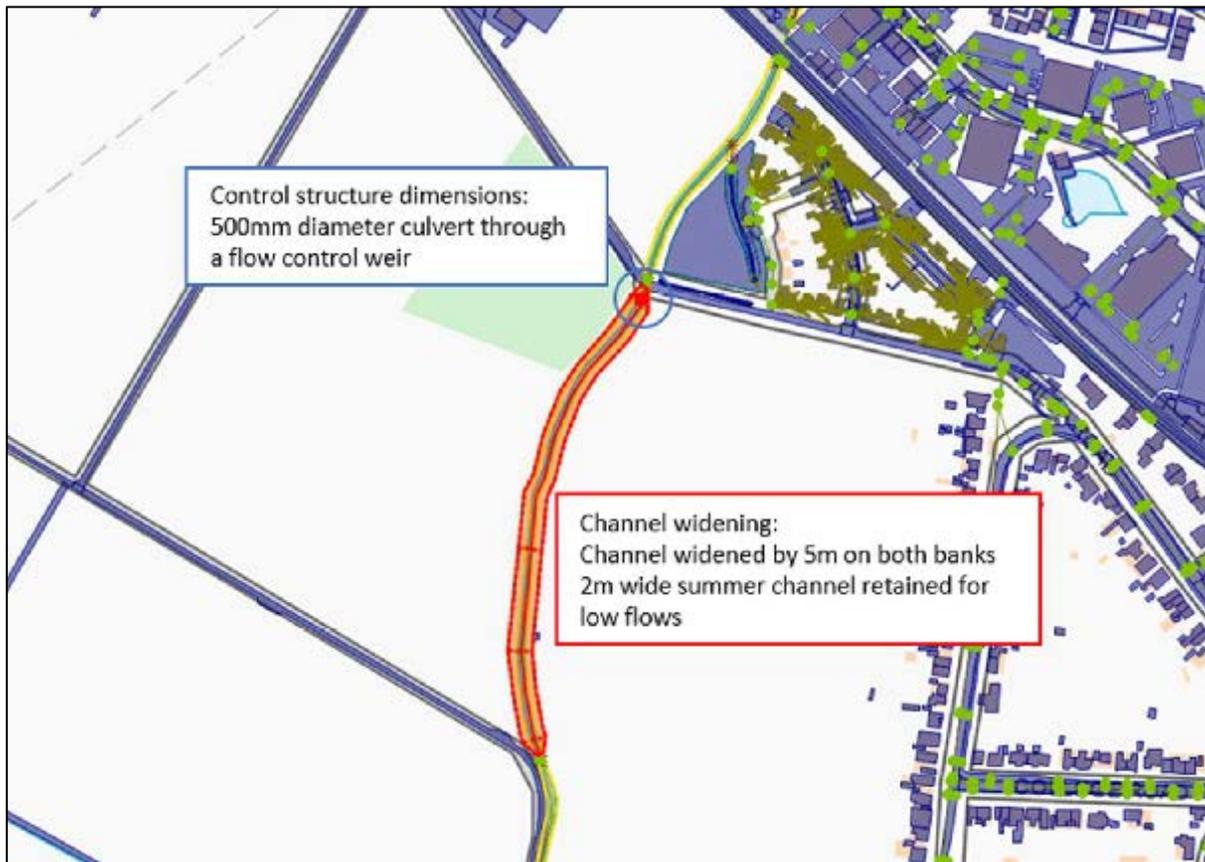
Flood risk management note

NIAB

23rd December 2020

This note presents the findings of initial discussions with Cambridgeshire County Council and a review of the outputs of the Histon and Impington Flood investigation undertaken by Capita in 2018.

Using an existing flood model (from 2014) the 2018 flood investigation tested three different flood management options in and around the villages. Option 2 (described as option HI02 in the report) is the most relevant to the NIAB site as it involves reducing the flow of water in the watercourse on the site boundary (award drain 164) at the Villa Road bridge/crossing. The HI02 scheme tested in the 2018 investigation employs a 500 mm diameter restriction at the Villa Road crossing combined with a widening of a short section of the watercourse upstream of Villa Road to store the floodwater caused by the proposed restriction. The image below is an extract from the flood investigation report showing option HI02.



Extract from the Histon and Impington flood investigation Technical Review Report 2018.

The modelling results for option HI02 showed some small improvement in flood risk by removing a small number of properties from the floodplain. The tested scheme removed fewer than 10 properties



from the floodplain and is not therefore likely to be implemented using public funding (from the Environment Agency, district, or county councils). This offers the opportunity to provide a 'developer funded' improved version of HI02 which can be framed as delivering a local reduction in flood risk, whilst also allowing the Villa Road site to be raised out of the floodplain. The appended drawing shows an indication of the amount of land which would need to be lowered to provide a floodwater storage area to allow the site to be raised, and also reduce the flow of water running beneath the busway and through the village.

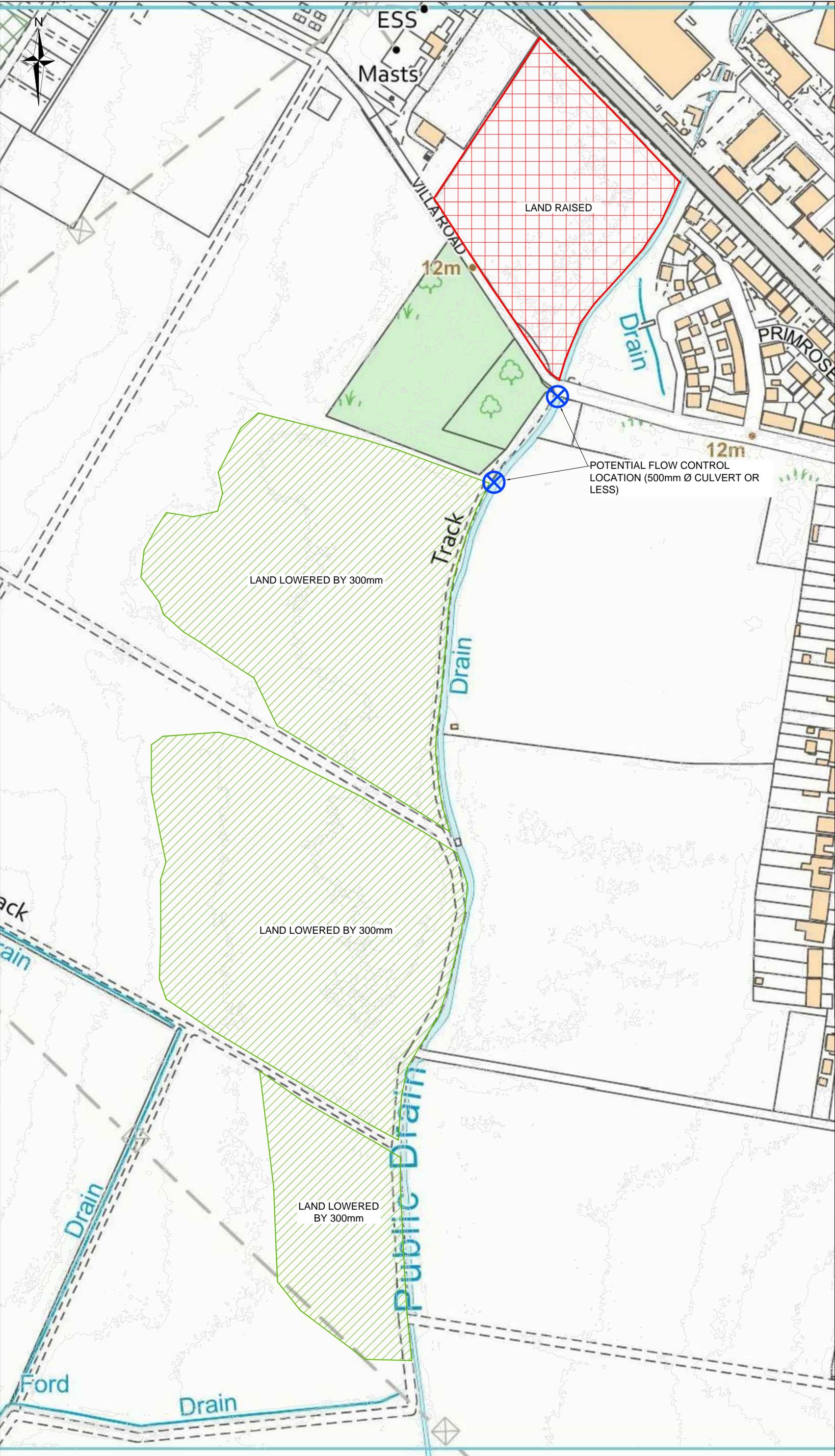
The size of flood storage area shown on the drawing combines three different storage volumes/elements into a single volume. The volume is made up of:

- A conservative assessment of the volume of floodwater which would be displaced by raising the site.
- The volume of storage calculated in the 2018 testing of flood management option HI02.
- An extra volume in order to provide more storage than was tested in the 2018 report.

From our discussions with Cambridge County Council in their role as Lead Local Flood Authority (the body responsible for local flooding) there appears to be no local flood management group. A local flood management group made up of various public and private parties with an interest in reducing flooding (county and district councils, Anglian Water, the Parish) might be useful in helping to spread the cost of the improvement works.

Appended information

Flood Management Plan sketch



KEY

NOTES

REV	DESCRIPTION	DE	DR	CH	DATE
-	DESIGNED BY	-	DP	-	-

SCALE @ A1 SIZE	D.N.S.	DATE
-	-	22/12/2020

PROJECT TITLE
PARK FARM, IMPINGTON

DRAWING TITLE
FLOOD MANAGEMENT PLAN

CLIENT
NIAB

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DRAWING NUMBER	REV.
ZB201 - PL - SK - 300	-

MZB201 Park Farm Impington'S PLANS DRAWINGS CURRENT DRGS ZB201 - PL - SK - 300 - FLOOD COMPENSATION AREAS