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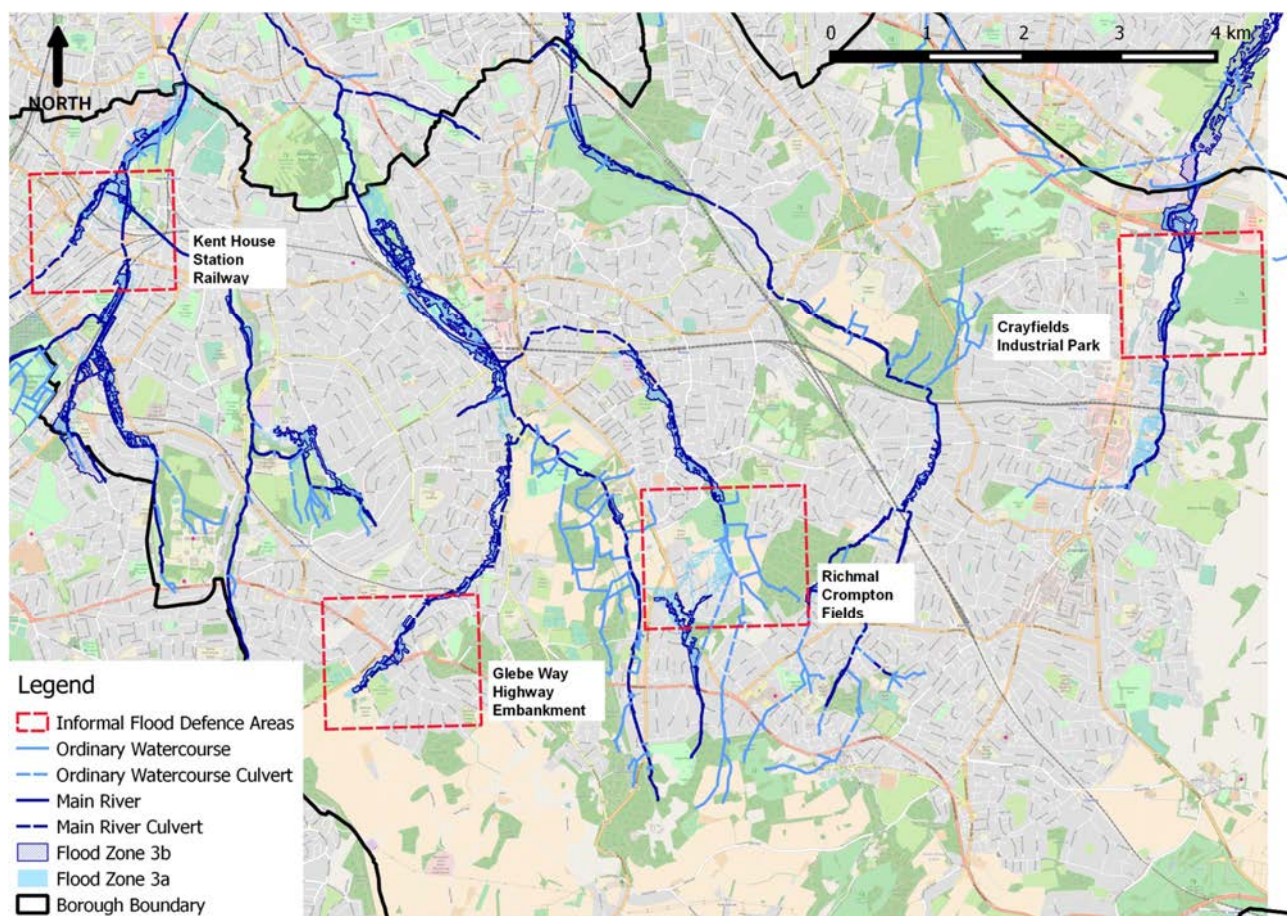
Introduction

As defined by the Environment Agency an informal flood defence is ‘a structure that has not been specifically built to retain floodwater, and is not maintained for this specific purpose’. This appendix provides a high level assessment of the potential informal flood defences in the London Borough of Bromley which are not currently mapped in the Environment Agency (EA) Asset Information Management System (AIMS) dataset.

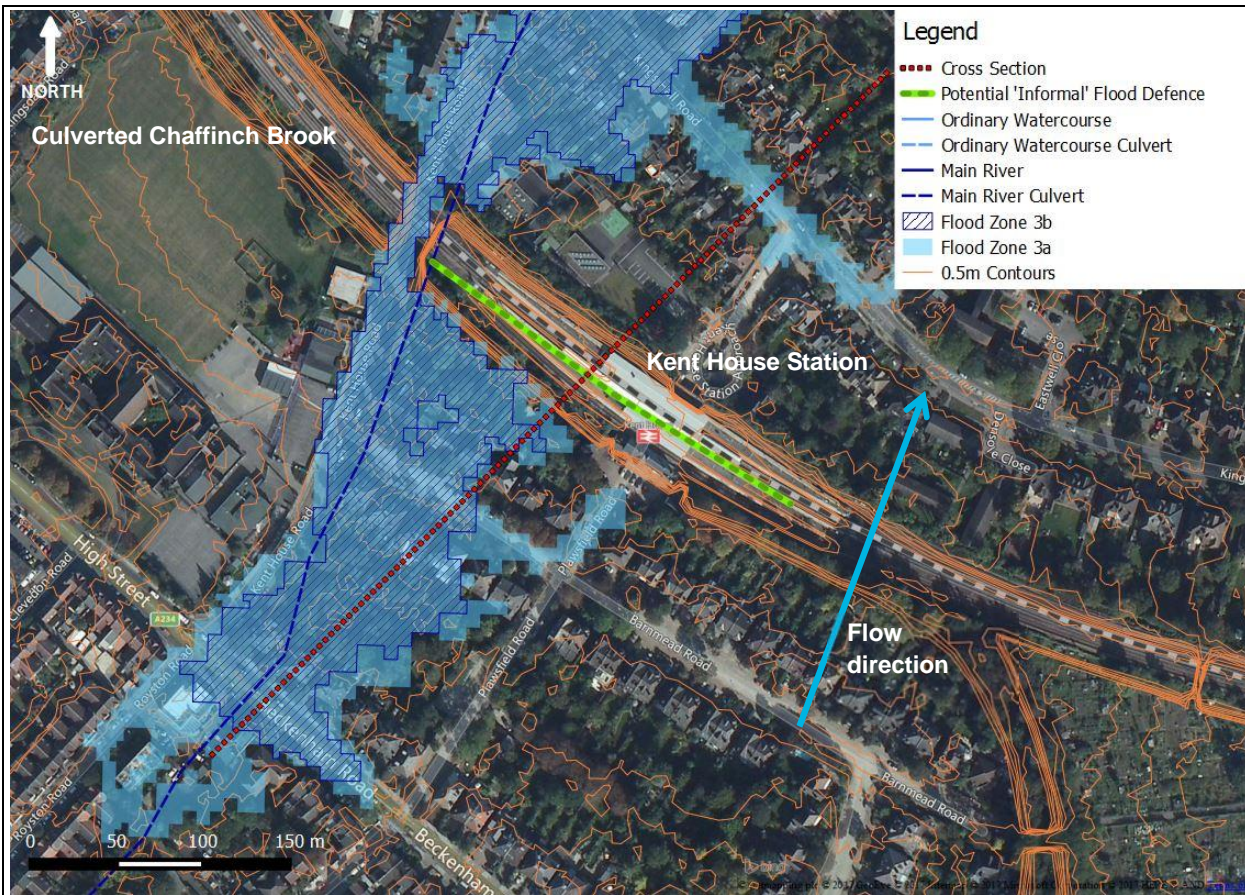
Four structures within the Borough, shown in Figure 1 have been identified as impacting the route of floodwater and a summary of each structure has been prepared using the EA Flood Zones, topography data and Google Satellite Imagery.

It should be noted that the identification of these structures has been undertaken through a high-level desk-based review of EA datasets. Further investigation of each structure would be required to get a better appreciation of the benefits and potential drawbacks they present from a flood risk perspective, as well as how robust they are.

Figure 1 Potential Informal Flood Defence Locations



Kent House Station Railway Embankment

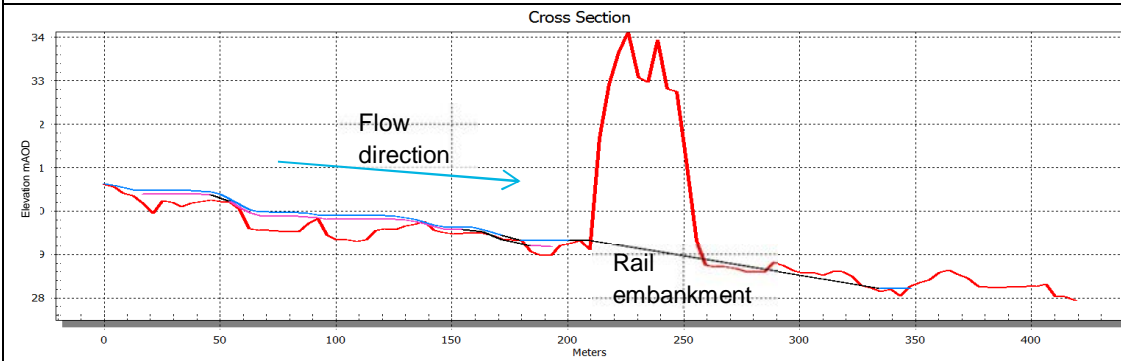


Location: Kent House Station, Beckenham, BR3 1JD
 NGR: 535989,169984

Reason for Designation:

The railway embankment at Kent House Station, in the North West of the Borough, obstructs the overland flow path of floodwater arising from a culverted tributary of the Chaffinch Brook. Inspection of the Flood Zone 3b and 3a extents shows that flood water backs up behind the embankment on the south side and its passage through the embankment is limited to a narrow overland flow route to the west of Kent House station. The embankment is therefore providing flood protection to the properties downstream which benefit from the narrowing of the floodplain and reduction in overland flow passing through.

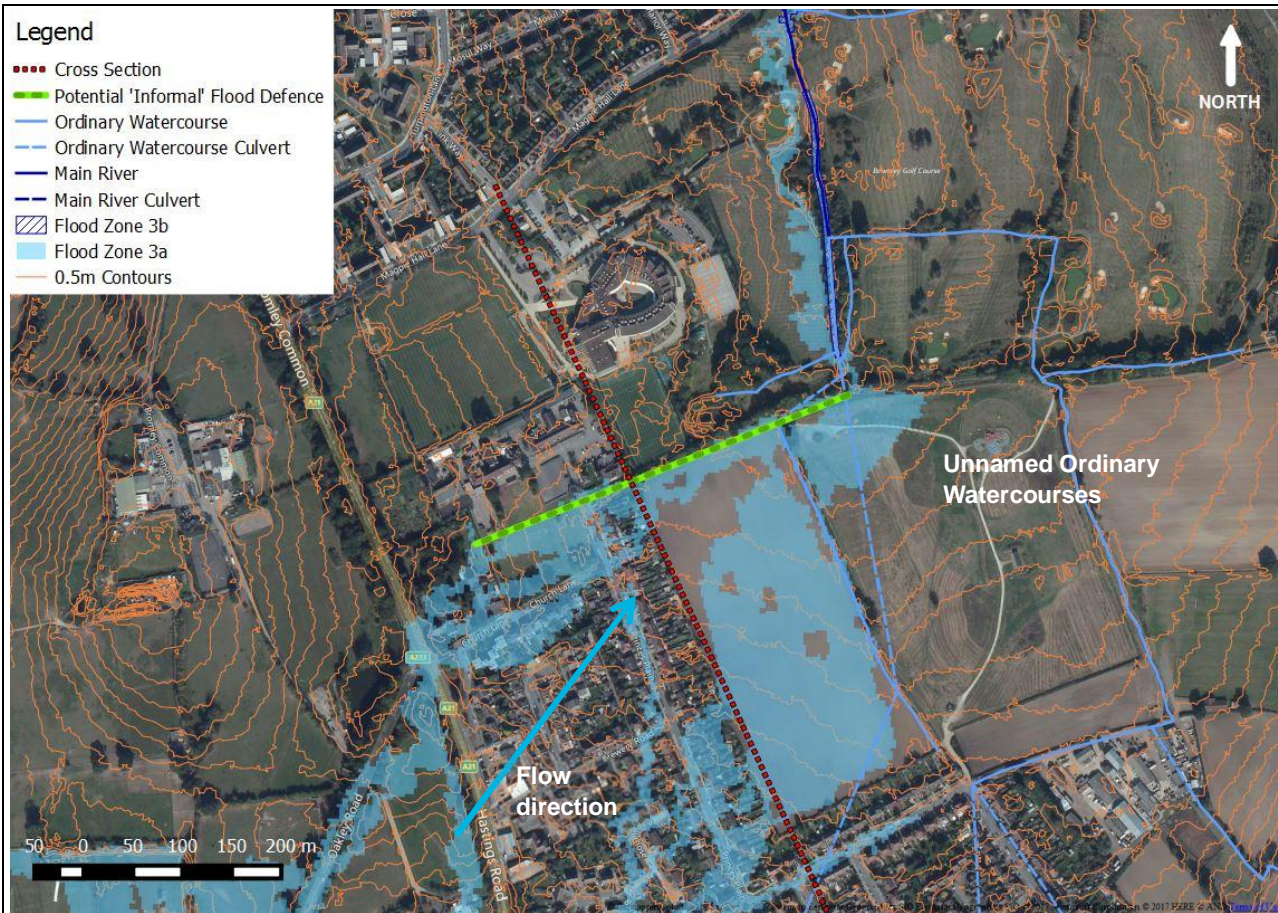
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Legend:

- Ground Elevation (mAOD)
- 1 in 100 Year Flood Level (mAOD)
- 1 in 20 Year Flood Level (mAOD)

Richmal Crompton Fields



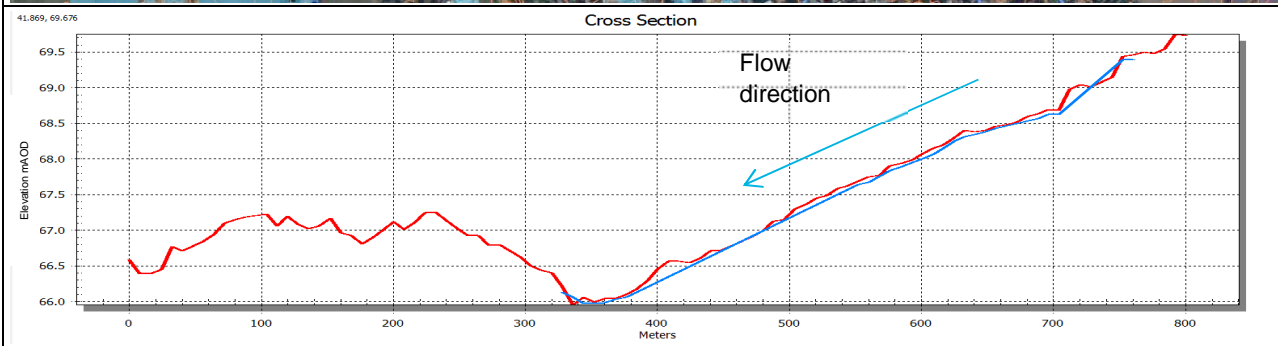
Location: Richmal Crompton Fields, Bromley, BR2 8LP
NGR: 542694, 166290

Reason for Designation:

A sudden change in ground elevation along the route of a public footpath to the north of Richmal Crompton Fields restricts the flow of flood water arising from unnamed Ordinary Watercourses which are tributaries of the River Ravensbourne, which have been culverted beneath the developed residential area to the south.

The extent of Flood Zone 3a shows that flood water would pond against the high ground before flowing through a narrow section of low ground to the east. The area of high ground therefore likely provides protection to areas downstream which benefit from the attenuation of flood flows.

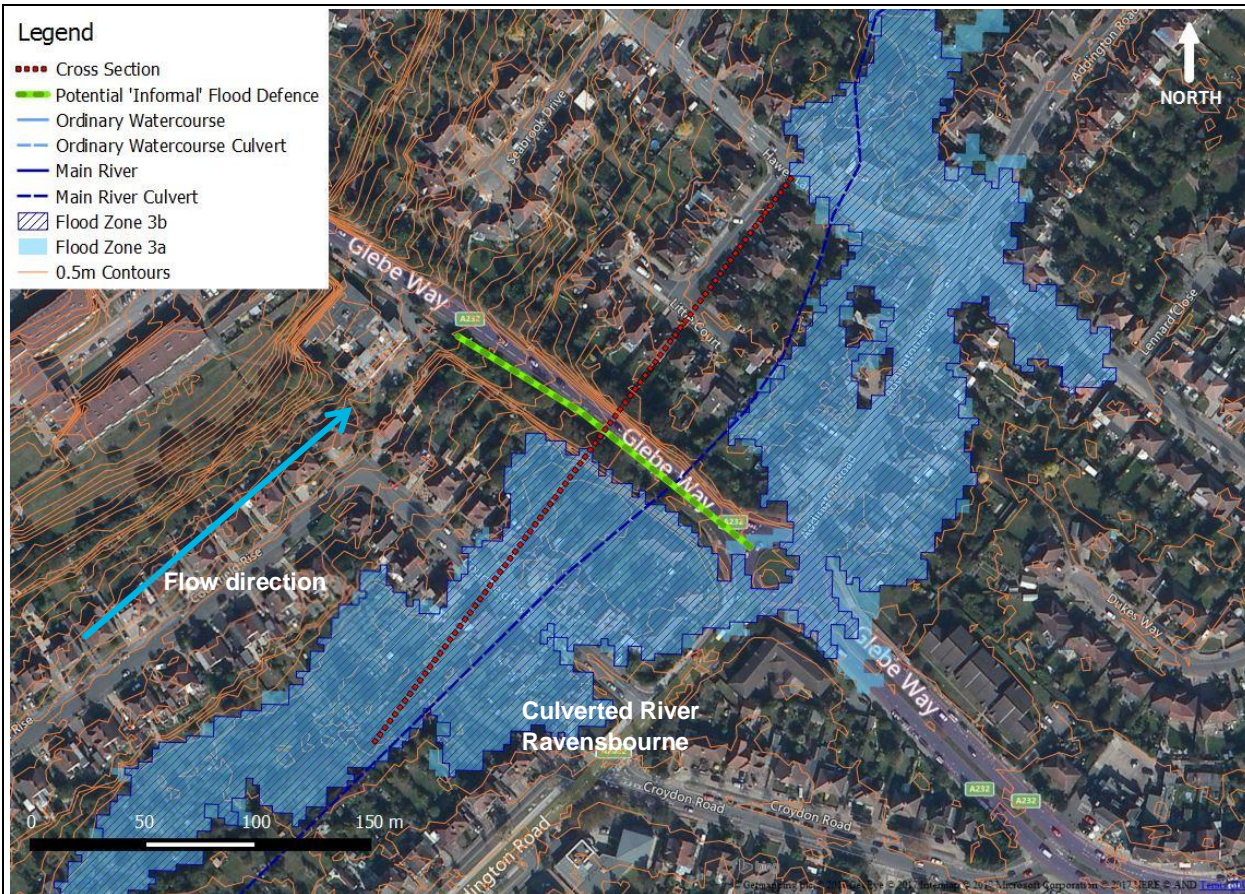
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Legend:

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Glebe Way Highway Embankment

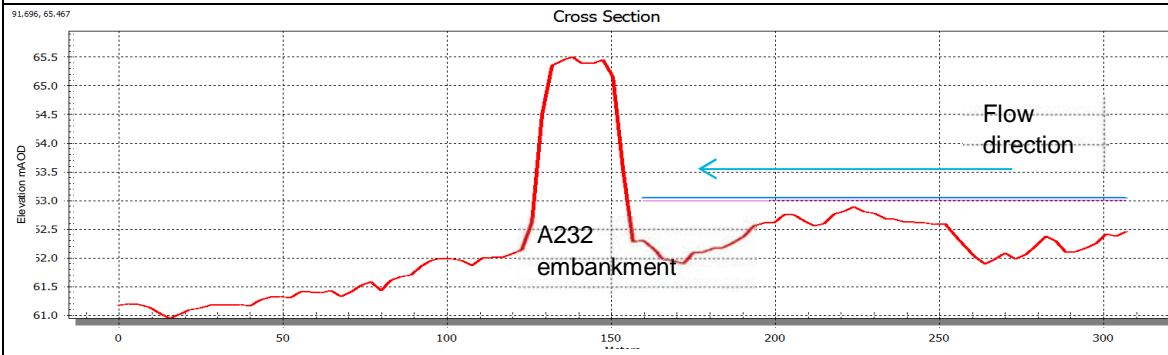


Location: Glebe Way, West Wickham, BR4 0RL
NGR: 538504, 165883

Reason for Designation:

The earth embankment supporting Glebe Way as it increases in elevation away from the roundabout with Addington Road forms a barrier which obstructs flood waters arising from a culverted section of the River Ravensbourne. Inspection of the Flood Zone 3a and 3b extent shows that flood water ponds on the south side of Glebe Way as a result of the embankment and then flows through a narrower area of low ground at the roundabout. This reduces the flow rate and volume of flood water crossing Glebe way and therefore provides a level of protection to the properties downstream.

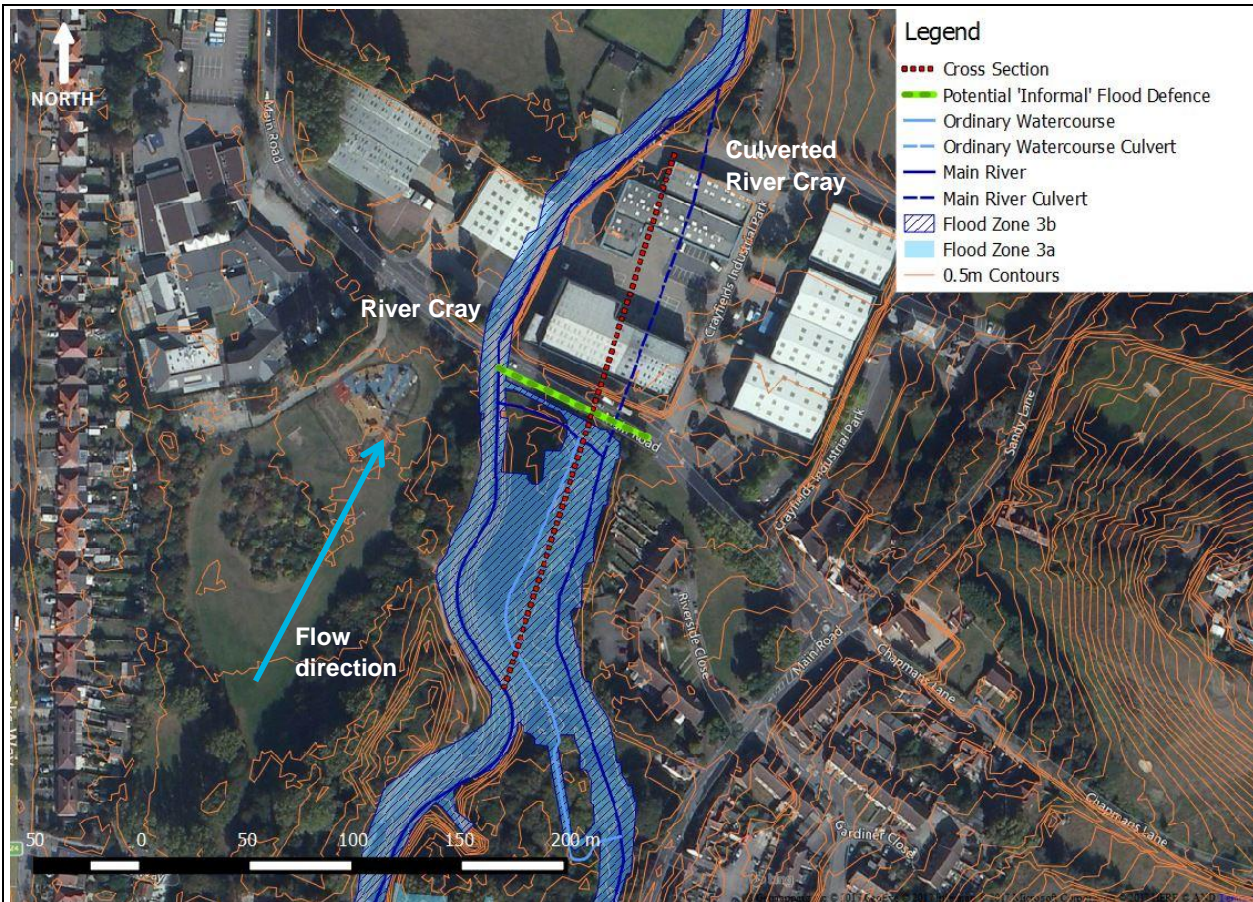
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Legend:

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- 1 in 100 Year Flood Level (mAOd)
- 1 in 20 Year Flood Level (mAOd)

Crayfields Industrial Park

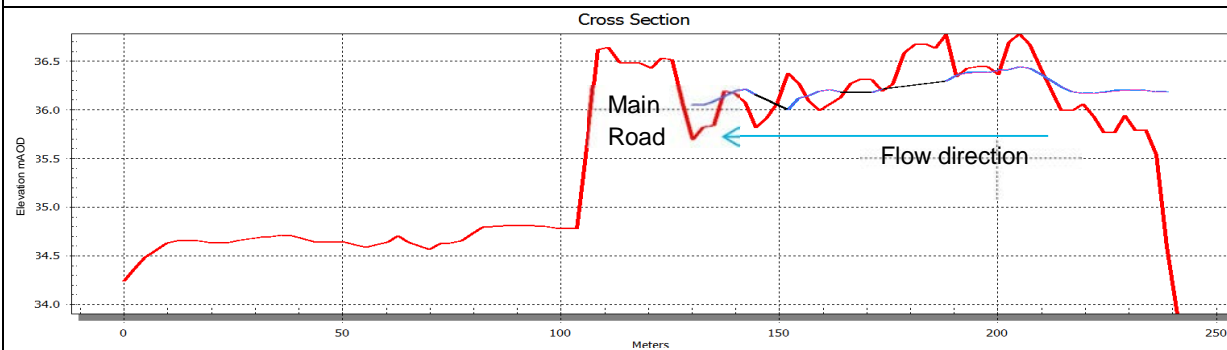


Location: Main Road, Orpington, BR5 3HP
NGR: 547387, 169430

Reason for Designation:

High ground along Main Road, adjacent to Crayfields Industrial Park, acts as an embankment and impounds flood water associated with the River Cray flowing northward. At this location the River Cray is an open channel, with a secondary culverted section flowing beneath the industrial park. The extent of Flood Zone 3a and 3b shows that flood water would be retained on the south side of Main Road and flow restricted to a narrow section of land to the west and thus providing protection to areas downstream.

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Legend:

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- 1 in 100 Year Flood Level (mAOD)
- 1 in 20 Year Flood Level (mAOD)

