

Cherry Avenue Raingardens

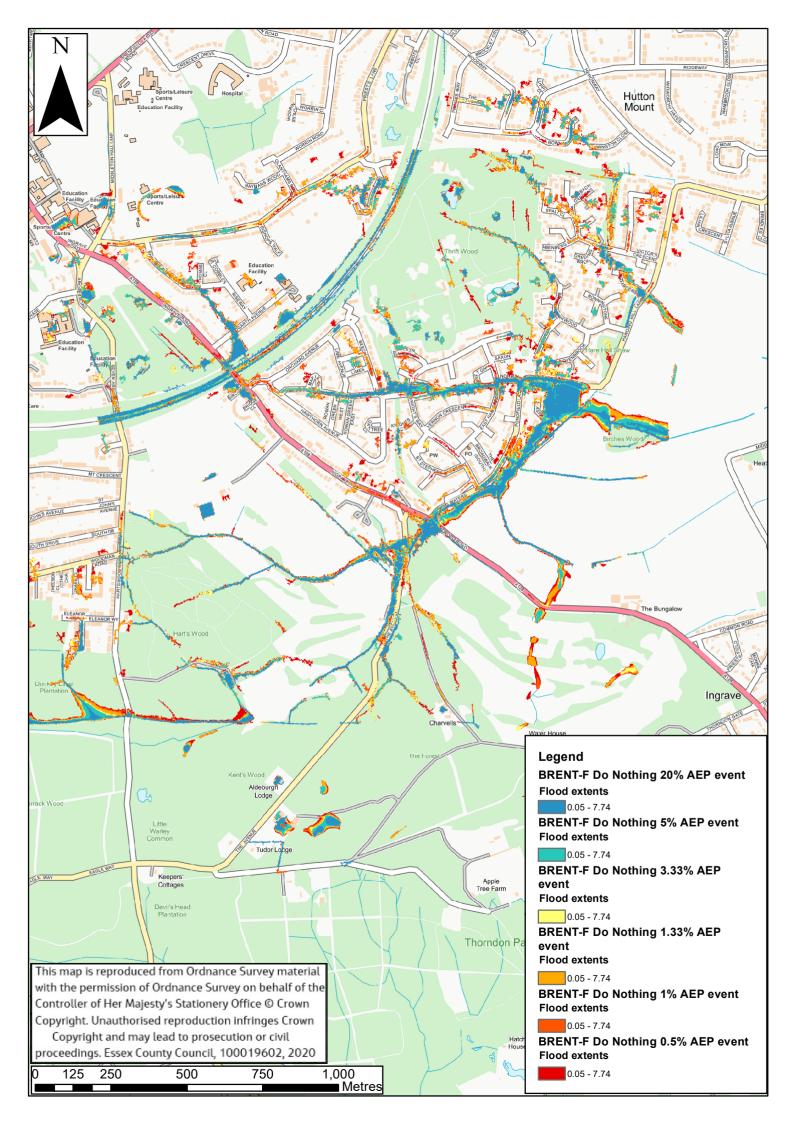
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The Modelled Flood Risk

- On the next page you will see the recently modelled surface water flood risk for the Cherry Avenue / Thrift Green / Pondfield Lane area for a 'Do Nothing scenario'.
- Essex County Council has undertaken detailed surface water modelling for a range of different rainfall events to show the effects these extreme storms will have on the local area.
- > This modelling shows that due to the fall and topography of Cherry Avenue, many properties further downstream are at risk of surface water flooding. This is exacerbated when the road drainage become full, as there is less interception, and the impermeable road will increase the speed in which the surface water flows downstream.
- > This modelling therefore helps us when assessing options to help alleviate this flooding.

Cherry Avenue Raingardens

- A suite of options were modelled and 'Phase 1' of the flood alleviation scheme is to upgrade the Highway verges along the northern extent of Cherry Avenue into biodiverse, multifunctional raingardens.
- These are essentially sunken biodiverse mini gardens which will retain water during times of high rainfall.
- > They will alleviate the flooding of roads and houses and reduce pressure on local drains and water sources. This will reduce flood risk in the area as well as helping to protect other properties further down the water catchment area.
- Where there is existing parking, this will also be upgraded whereby the material used is more permeable. This will allow for a greater capture of water.
- > The southern verges will additionally be improved by further planting of trees and vegetation.
- The following pages show some visualisations for the rain gardens as well as some indicative plans.



Thrift Green Rain Gardens



Cherry Avenue Street Layout: Before



Cherry Avenue Street Layout: After With Rain Gardens and Permeable Parking Bays





Thrift Green Rain Gardens



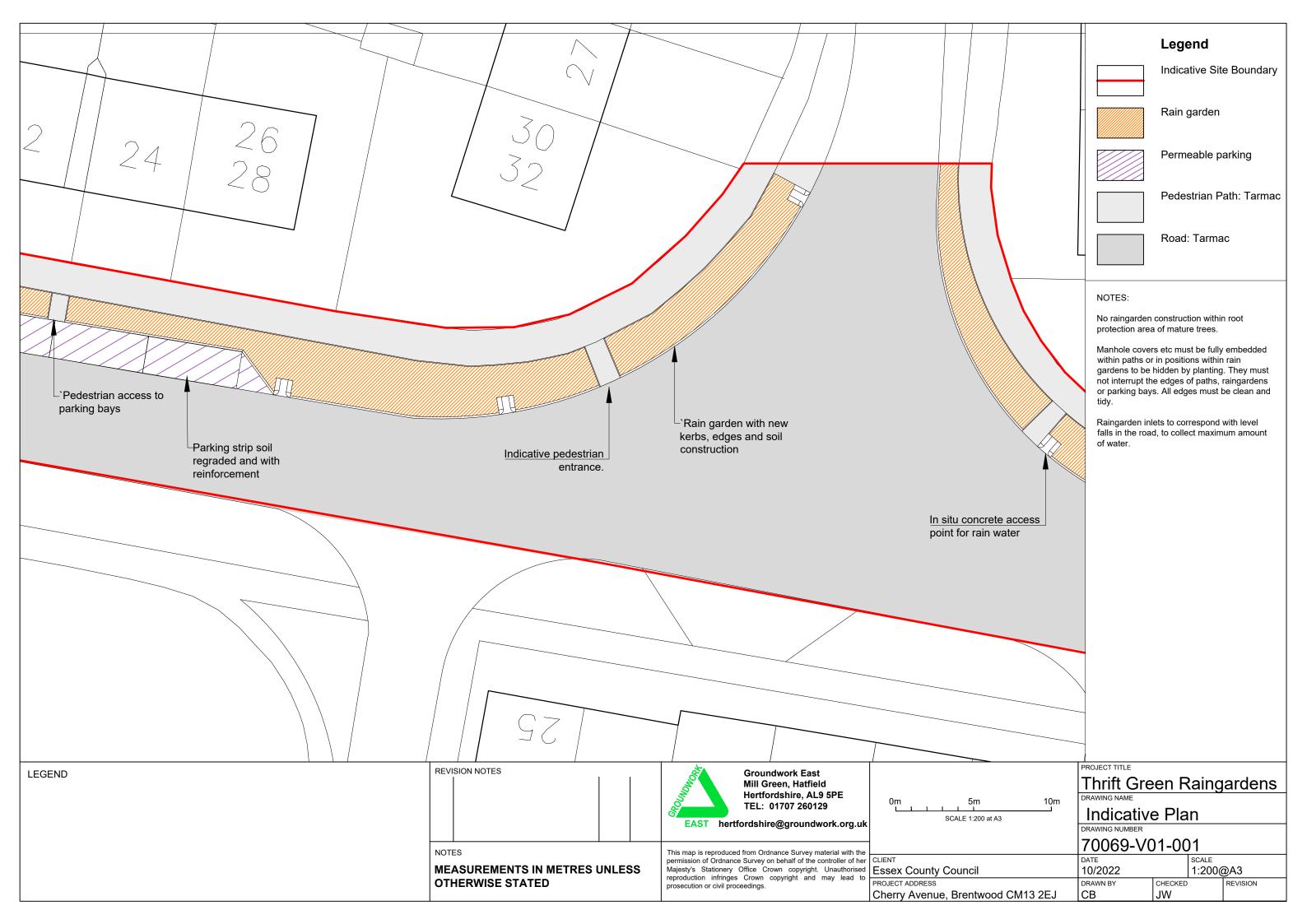
Cherry Avenue Houses: Before

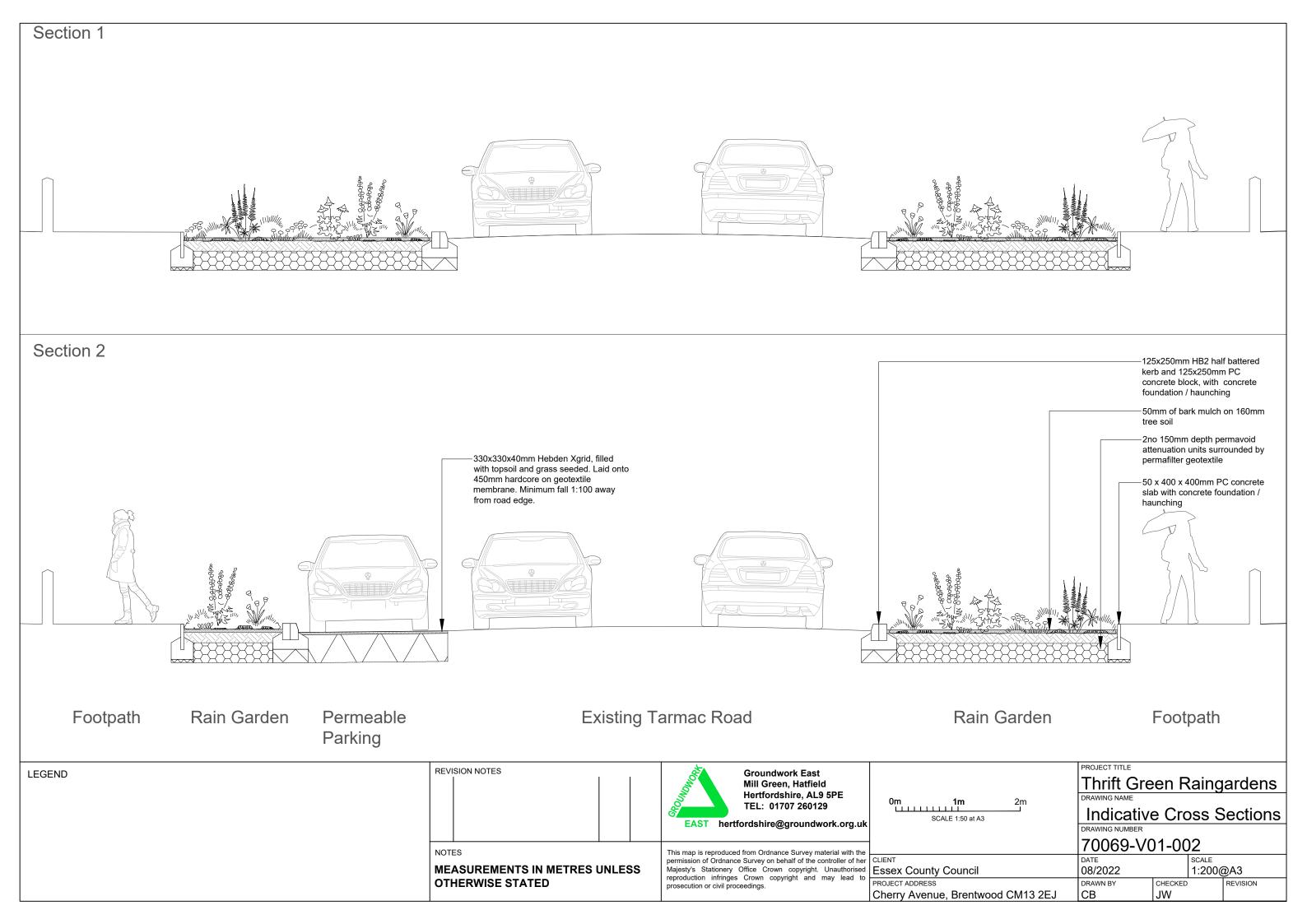


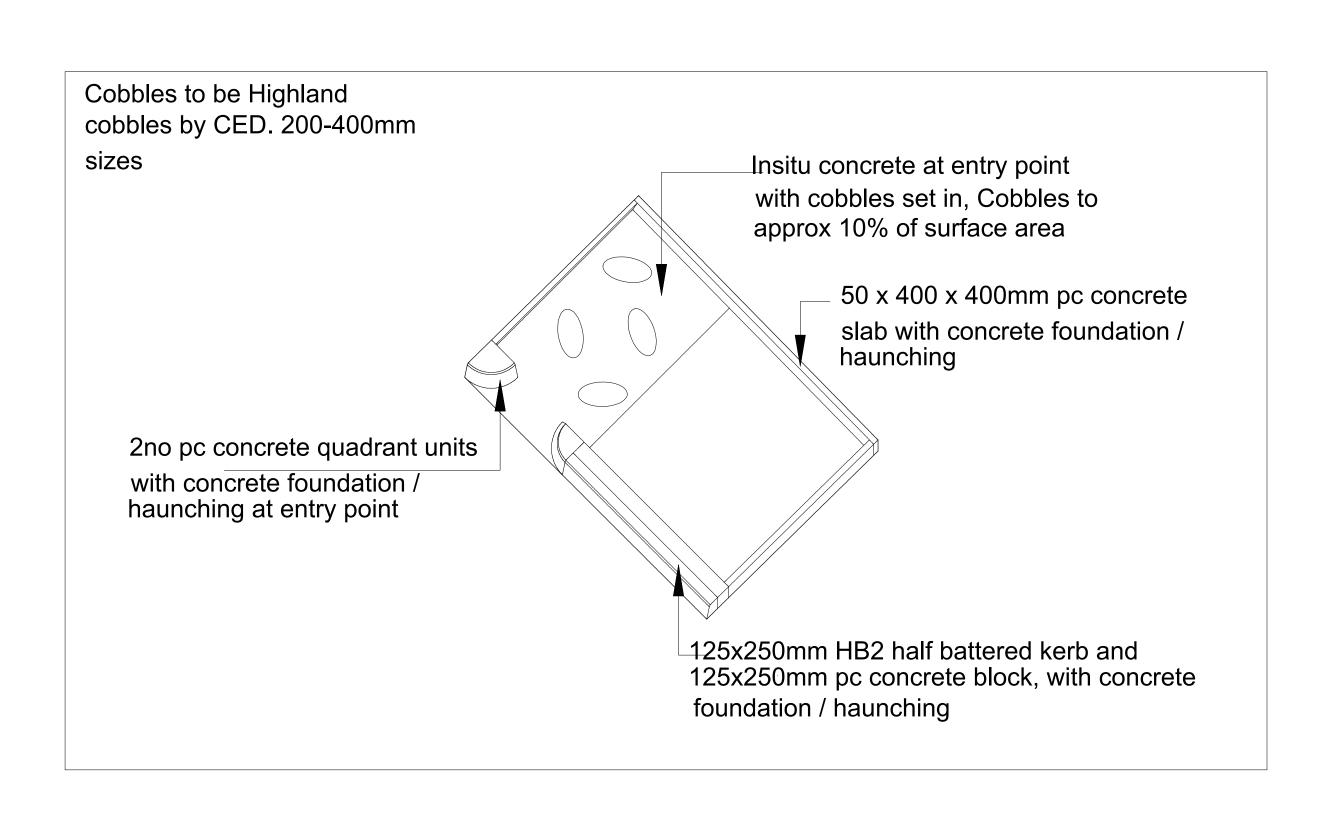
Cherry Avenue Houses: After With Rain Gardens

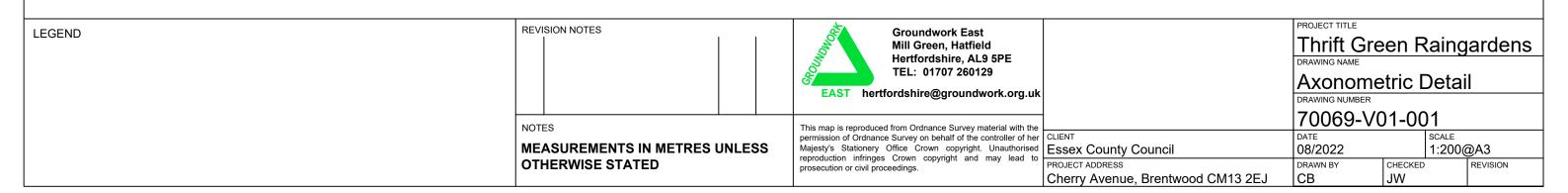










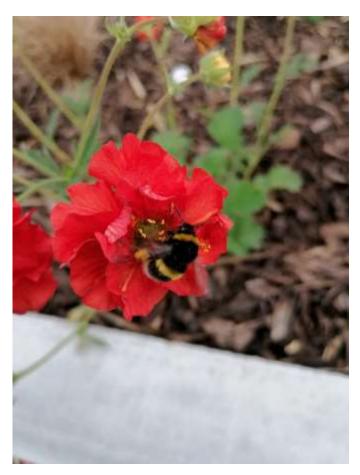


Case Study - Park Avenue











If you have any questions or comments please email floods@essex.gov.uk