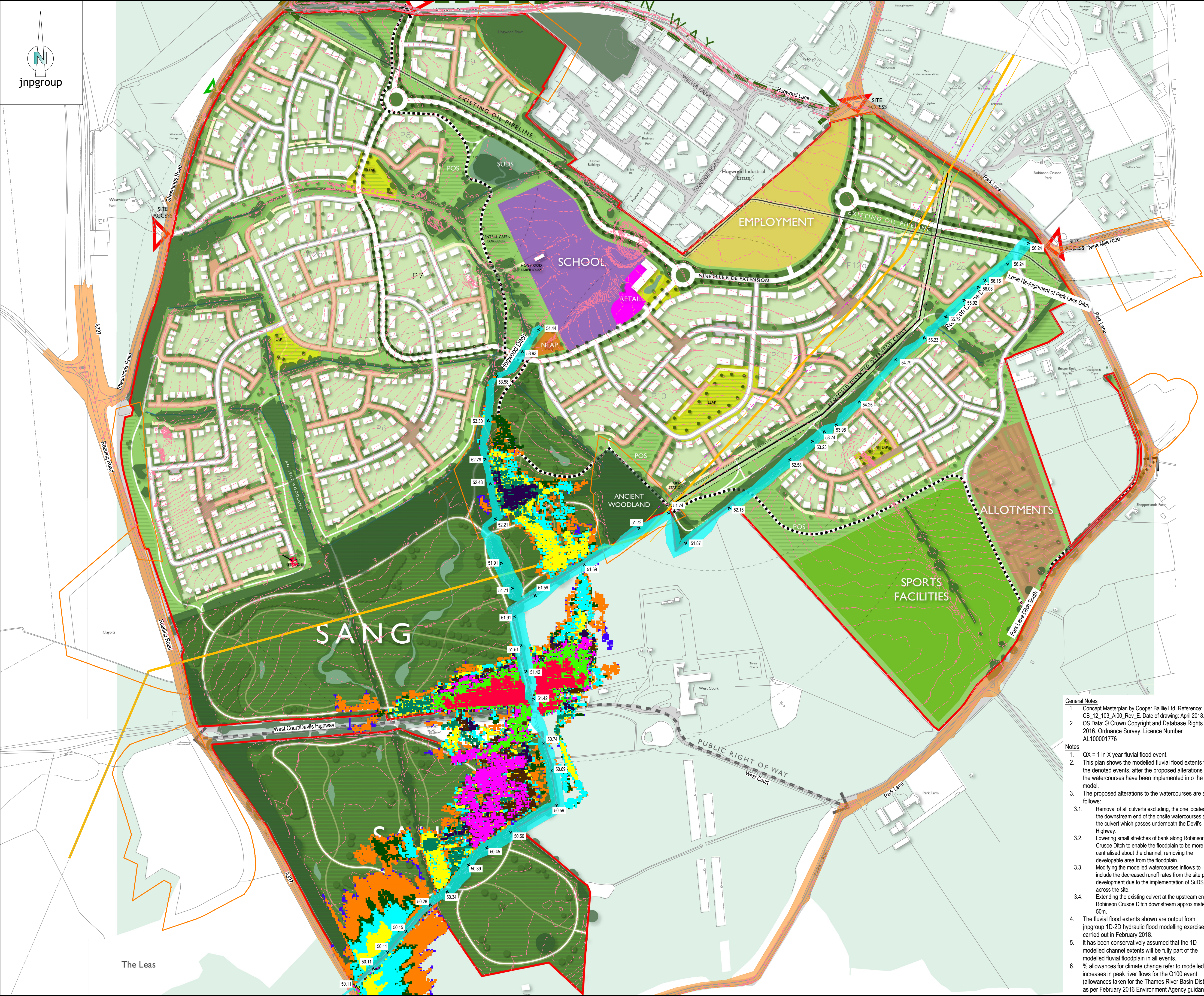


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- Key
- 1D Modelled Channel Extents
 - Q1000 Fluvial Flood Extents
 - Q200 Fluvial Flood Extents
 - Q100+70%Climate Change Fluvial Flood Extents
 - Q100-35%Climate Change Fluvial Flood Extents
 - Q100 Fluvial Flood Extents
 - Q50 Fluvial Flood Extents
 - Q30 Fluvial Flood Extents
 - Q20 Fluvial Flood Extents
 - Q10 Fluvial Flood Extents
 - Q5 Fluvial Flood Extents
 - Q2 Fluvial Flood Extents
 - Site Boundary
- *XX.XX In Channel Flood Levels for the 1in100+35%CC Event

A	04.18	Updated Site Layout	JC	
Rev.	Date	Amendment	By	Chk.
Status				

Preliminary



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Client	Legal & General Homes
Job	Hogwood Farm Finchampstead
Title	Modelled Proposed Fluvial Flood Extents

Scale 1:2500	@ A1	Date April 2018
Drawn By JC	Eng. Check POF	Tech. Check POF



Drawing No.	C85672-SK-093	Rev.	A
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- General Notes
- Concept Masterplan by Cooper Baillie Ltd. Reference: CB_12_103_A100_Rev_E. Date of drawing: April 2018.
 - OS Data: © Crown Copyright and Database Rights 2016. Ordnance Survey. Licence Number AL100001776
- Notes
- QX = 1 in X year fluvial flood event.
 - This plan shows the modelled fluvial flood extents for the denoted events, after the proposed alterations to the watercourses have been implemented into the model.
 - The proposed alterations to the watercourses are as follows:
 - Removal of all culverts excluding, the one located at the downstream end of the onsite watercourses and the culvert which passes underneath the Devil's Highway.
 - Lowering small stretches of bank along Robinson Crusoe Ditch to enable the floodplain to be more centralised about the channel, removing the developable area from the floodplain.
 - Modifying the modelled watercourses inflows to include the decreased runoff rates from the site post development due to the implementation of SuDS across the site.
 - Extending the existing culvert at the upstream end of Robinson Crusoe Ditch downstream approximately 50m.
 - The fluvial flood extents shown are output from jnpgroup 1D-2D hydraulic flood modelling exercise carried out in February 2018.
 - It has been conservatively assumed that the 1D modelled channel extents will be fully part of the modelled fluvial floodplain in all events.
 - % allowances for climate change refer to modelled increases in peak river flows for the Q100 event (allowances taken for the Thames River Basin District as per February 2016 Environment Agency guidance).

The Leas

QA Ref: QD019 Rev C

Appendix H: Sensitivity Testing Plans





- Notes:-
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- Key
- Existing Q100 Fluvial Flood Extent
 - Q100 Fluvial Flood Extent (Manning's Roughness Decreased)
 - Q100 Fluvial Flood Extent (Manning's Roughness Increased)
 - 1D Modelled Channel Extents

- General Notes
- Concept Masterplan by Cooper Baillie Ltd. Reference: CB_12_103_A100_Rev_E. Date: April 2018.
 - OS Data: © Crown Copyright and Database Rights 2016. Ordnance Survey, Licence Number: AL100001776.

- Notes
- QX= 1inX year fluvial flood event.
 - This plan shows a comparison between the Q100 fluvial flood extent with increased and decreased Manning's Roughness values against the existing Q100 fluvial flood extent. The Manning's Roughness values of the model were raised and lowered by 20% respectively.
 - The fluvial flood extents shown are output from jnpgroup 1D-2D hydraulic flood modelling exercise carried out in January 2018.
 - It has been conservatively assumed that the 1D modelled channel extents will be fully part of the modelled fluvial floodplain in all events.

A	04.18	Updated Site Layout	JC	
Rev.	Date	Amendment	By	Chk.

Status Preliminary



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Client Legal & General Homes

Job Hogwood Farm
Finchampstead

Title Q100 Manning's Roughness Sensitivity Test
Fluvial Flood Extents Comparison

Scale 1:2500 @ A1 Date April 2018
Drawn by JC Checked by POF Approved by POF



Drawing No. C85672-SK-085 Rev. A

QA Ref: Q010 Rev D