

FLOOD RISK ASSESSMENT

259 Noak Hill Road – Fisheries Site, Billericay

Mr R Judd

March 2024

Project no: 62308



Document Review Sheet: -

Document

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Revision Status

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00	26/03/24	Issued for planning	SJA	MJG	MJG

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1. Introduction

- 1.1. Richard Jackson Ltd has been appointed by Mr R Judd to carry out a Flood Risk Assessment for the land known as The Fisheries, located off 259 Noak Hill Road, Billericay in support of the planning application for construction of a new single-storey, four-bedroom residential dwelling. The Plans appended to this report also show previously approved proposals for Limni lodge as this is co located with these proposals.
- 1.2. This assessment will follow the checklist for flood risk assessment published as part of the National Planning Policy Framework (NPPF) and the accompanying National Planning Practice Guidance (NPPG).
- 1.3. The proposed development has been carefully designed to ensure that it does not have any greater or significant impact of flood risk to the site or surrounding areas.

2. Development Site and Location

- 2.1. The site is located to the east of Noak Hill Road, Billericay behind number 259 and is accessed via a gravel road off Noak Hill Road. The postcode is CM12 9UN and the Ordnance Survey Grid Reference is TQ 684 911. A location plan is presented at **Appendix A**.
- 2.2. The overarching development site area within the redline boundary is approximately 3288m² (0.329ha). The site is currently occupied by three existing buildings and associated hardstanding and compacted gravel areas accounting for approximate total of 2192m² (0.219ha); a coverage of 66% of the site. It is understood that the two largest buildings were previously used as a fishing supply shops with above ground storage tanks.
- 2.3. The topographical survey indicates that the site falls gently from the northeast to the southwest across the site from a high point of approximately 24.04mAoD to a low point 23.75mAOD. The southern boundary of the site, adjacent to the river has an average elevation of approximately 24.27mAOD across the width of the development boundary. The topographic survey is presented at **Appendix B**.
- 2.4. The flood map for planning presented at **Appendix C** shows this area to be in flood zone 2 (FZ2).

3. Development Proposals

- 3.1. Buildings A and B identified on the existing site/topographical plan presented at **Appendix B**, will be demolished, and replaced with a new single-storey residential building with a reduced footprint of approximately 38% when compared to the demolished blocks.
- 3.2. The new building will be surrounded with associated hard and soft landscaping comprising permeable paving and grassed garden and amenity areas. The proposed architectural site layout is presented at **Appendix D**.
- 3.3. The building known as 259 Limni Lodge is an existing residential lodge. The Limni Lodge was consented and completed in 2022 and does not form any

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part of this application. It will, however, remain unchanged and will be maintained to benefit from continued use a single residential building.

4. Climate Change

4.1. The NPPF defines climate change allowances that should be considered for various development proposals across the nation. Climate change allowances based on the NPPG climate change for Flood Risk Assessment states that for more vulnerable development that the Central allowance for river flow should be used. For the 2080s and beyond this is as set out below. For rainfall the highest uplift has been used for all epochs. The climate change mapping is presented at **Appendix E.**

Rainfall uplift 45%

Watercourse flow 25%

5. Site Specific Flood Risk

5.1. Several sources of flood risk data have been consulted which include the Basildon Borough Council Strategic Flood Risk Assessment (BBCSFRA), the Basildon County Council website and the Gov.UK website, selected mapping from each of these sources is in **Appendix F**.

Ground Water Flood (Appendix F1)

- 5.2. Groundwater flooding occurs when the water levels in the ground rise above surface elevations. Groundwater flooding may take some considerable time (weeks/months) to dissipate as the flow is much slower than surface water flows and therefore groundwater levels take longer times to recede and even longer when combined with rainfall.
- 5.3. The predominant underlying geology comprises of clay, silt, sand, and gravel creating an impermeable barrier preventing groundwater rising to the surface, reducing the risk of groundwater flooding. A review of the 2018 South Essex Level 1 SFRA mapping (figure 4.4) assesses that groundwater vulnerability is greater than or equal to 25%, but lower than 50% at this site. Further review of the online "Magic Maps" confirms that the site has a low vulnerability of groundwater flooding and therefore a low risk of flooding at this site from groundwater.

Surface Water Flooding (**Appendix F2**)

- 5.4. The Basildon Borough Council (BBC) mapping for the 1 in 30 year event shows surface water flood risk over the site at a depth in excess of 300mm indicating a medium risk probability. This mapping, although useful, is at relatively small scale. The South Essex Surface Water Management Plan (2012), figure 6-1 indicates that the site is not within the critical drainage area (CDA). Figure 4.3 of the South Essex Level 1 SFRA indicates that there is no evidence of historic flooding form any known source at this site.
- 5.5. The Gov.UK mapping has also been reviewed and provides a clearer picture of the flood risks associated with the site. This source provides depth and velocity mapping for three scenarios discussed below.

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- 5.6. In the high risk 1 in 30 year (3.33%) event there is a large area of water to the centre of the proposed site with depth ranging between 300-900mm, the remaining area of the site is less than 300mm deep.
- 5.7. In the medium risk 1 in 100 year (1%) event, the flooding areas described above are slightly larger.
- 5.8. In the low risk 1 in 1000 year (0.1%) event water depth is shown to be more than 900mm across the majority of the site with the remaining area shown at depths between 300-900mm.
- 5.9. Due to the topography and the topography of the site, surface water will pond in the centre of the site.

Fluvial Flood Risk (Appendix F3)

- 5.10. The Gov.UK mapping shows this site to be in the lower flood zone 2.
- 5.11. The Environment Agency (EA) has been contacted to provide the best available flood information for this site, the EA Information can be found in Appendix F4.

The water levels at proposed building location within the site have been used to assess the fluvial flood risk. The potential water depths are as shown in Table 1 and 2 below using the approximate site level in the location of the proposed dwellings of 24.00m AOD (riverbank level of 24.08m AOD). Node 7 levels have been use it should be noted that node 7 is in the channel and that water levels at the proposed building are likely to be below these levels:

Table 1 - Defended FA modelled water levels at the site.

		Base		With CC (25%)
Event	1 in 30 (3.33%)	1 in 100 (1%)	1 in 1000 (0.1%)	1 in 100 (1%)
Water Level (m AOD)	23.75	23.90	24.29	24.01
Depth (m)	0	0	0.29	0

Table 2 - Undefended EA modelled water levels at the site (*25% climate change

not provided by the EA.)

		Base	With CC (20%)*	
Event	1 in 30 (3.33%)	1 in 100 (1%)	1 in 1000 (0.1%)	1 in 100 (1%)
Water Level (m AOD)	23.75	24.09	24.56	24.21
Depth (m)	0	0.09	0.56	0.21

The defended EA model mapping shows that the site is not at risk of flooding 5.12. now and with climate change during the 1 in 100 year event as the water level does not exceed that of the lower bank level of 24.08mAOD. It is shown to be at minor risk of flooding during a 1 in 1000 year event as this will breach the bank, with a potential water depth of 0.29m.

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- 5.13. Again, the undefended EA model mapping shows that the site is still only at minor risk of flooding during a 1 in 100 year event with water depths shown to be 0.09m, increasing to 0.21m with 20% climate change applied. It is shown to be at minor risk of flooding during a 1 in 1000 year event with a potential water depth of 0.56m. It should be noted that undefended models do not reflect reality and are usually only used for the definitions of flood zones.
- 5.14. It is proposed to set the finished floor level of the proposed dwellings including the external decking to 860mm above the 1 in 100+CC flood level, 24.87mAOD, and provide flood resilient construction up to the undefended 1 in 1000 year event, 24.56m AOD.
- 5.15. The development proposal is to demolish the existing out-buildings and concrete surround on the eastern part of the site and to construct two new dwellings. The scope to raise the floor level of these buildings is therefore reasonable.
- 5.16. The site is at risk in the extreme events, 1 in 1000 year and also when 35% climate change is added to the 1 in 100 year event. Climate change uplift for watercourse flow is 27% 37%.
- 5.17. To keep this existing building safe (by providing 300mm freeboard) from fluvial flooding from all events up to and including the 1 in 1000 event, a finished floor level of 24.87m AOD is recommended.
- 5.18. The flood levels originate from the River Crouch which flows west to east immediately bounding the southern edge of the site. The Crouch is noted as a main river. The site re-development is likely to require consent from the EA given its proximity to a main river and the proposed new outfall to the River Crouch.

Reservoir and Artificial Flooding (Appendix F5)

- 5.19. The Gov.UK flood mapping shows that flooding from a reservoir failure may reach the boundary of this site. The depth of this flooding could be between 0.3m and 2.0m. Reservoir flood prediction is based on a worst-case scenario of a failure occurring when the reservoir is full. Reservoirs are monitored by the EA in the UK and therefore the risk of such an event is extremely low.
- 5.20. It is likely that there will be foul, surface water sewers and water mains serving the nearby dwellings along Noak Hill Road adjacent to the site, which may be a further source of flooding, however, there have been no recorded historical flooding at this site from any of these sources.

6. Surface Water Management

- 6.1. The proposed development will reduce the existing run-off rate by means of a flow control device and hence is likely to improve upon the existing drainage or flooding on or off site.
- 6.2. The level of discharge from the site needs to be reduced to meet the requirements of the LLFA and local flood planning guidance. As the site is

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brownfield and has an impermeable area of approximately 0.219ha comprising of the existing buildings and hardstanding areas, the current brownfield run off is calculated to be 30.44 l/s in accordance with equation 24.5 of the CIRIA SuDS Manual (2015)

- 6.3. The scope for reducing the outflow in line with Essex County Council Lead Local Flood Authority (LLFA) policy is extremely limited. The proposed roof is approximately 0.041ha, which increases to 0.045ha when 10% urban creep is added. The proposed impermeable areas including footpaths parking areas, driveways, gravel bed and access road is 0.093ha, bringing the total drained area to 0.138ha.
- 6.4. The existing Limni Lodge has a dedicated drainage to the watercourse, therefore, the roof and immediate surrounding hardstandings does not form part of the proposed calculations.
- 6.5. The LLFA policy for brownfield sites would be to aim for greenfield runoff rate. The greenfield runoff rate for the whole site was calculated using the HR Wallingford free online SuDS tool and was shown to be 1.07/s for the 1 in 1 year runoff rate. Refer to **Appendix G** for the greenfield runoff rates.
- 6.6. It is proposed the driveway, parking bays and footpaths will be permeable paving and used as storage before discharging direct to the River Crouch.
- 6.7. The outflow rate is proposed to be limited to the 1 in 1yr greenfield runoff rate of 1.07l/s by the provision of a flow control device with a 100mm orifice. The proposed runoff rate is significantly less (96%) than the existing brownfield runoff. Preliminary calculations and drainage drawing of the proposals is presented in **Appendix H**.
- 6.8. The proposed permeable paved areas will be utilised as storage for all flows up to and including the 1 in 100 year plus 45% climate change within a 0.45m deep Subbase.
- 6.9. For the development proposed, the landowners will be responsible for the drainage system. A SuDS Maintenance schedule for is presented in **Appendix I**.
- 6.10. To improve the quality of the surface water from the roof and car park, the surface water will be drained through and attenuated by the permeable paving which will be sufficient to remove and mitigate metals, suspended solids, and hydrocarbons. Soft landscaping will be used elsewhere on site to replace or enhance the existing surfaces.

7. Occupants and Users of the Development

- 7.1. The occupants of the new building will be encouraged to sign up for flood warnings from the Environment Agency. Any occupants of the building will be able to exit to the safer higher ground to the south via the footbridge prior to flooding.
- 7.2. A domestic flood warning and evacuation plan should be prepared and reviewed on an annual basis to ensure the occupants are aware if the

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residual flood risk at this site and that they understand the action to take if a severe flood warning for the River Crouch is issued. This can be controlled by a Planning Condition, timed to be in place before occupation.

7.3. As climate change occurs, the potential for fluvial and surface water events of a large enough scale to impact upon this site will increase.

8. Exception Test

- 8.1. This application will make a significant and important contribution to meeting the housing needs of the area providing a huge benefit of using suitable site within existing settlement areas. The development is in line with the existing use provided by the Limni Lodge and will not have any significant impact on the flood risk to the site especially due to the smaller building footprint and new permeable areas to replace the existing impervious areas.
- 8.2. Flood risk to the site will remain unchanged and flood risk offsite will be reduced by controlling the discharge rates to the significantly lower greenfield discharge rate of 1.07l/s.
- 8.3. We conclude that the exception does not apply to this site.

9. Residual Risk

- 9.1. The residual risks of flooding at the site include:
 - Fluvial flooding from the River Crouch.
 - Surface water flooding.
 - · Reservoir failure.
 - Sewer or water main failure.

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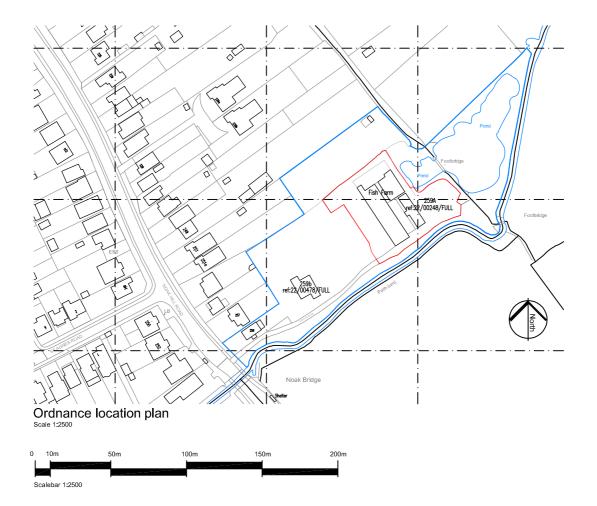


Appendix A

Site Location Plan

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Project: 259 Noak Hill Road – Fisheries Site, Billericay





Client	GNB Developments
Project	Fisheries Site - Rear of 259 Noak Hill Road Great Burstead, Billericay. Essex. CM12 9U
Drawing	Ordnance Survey Location Plan Location Plan
Drawing Status	APPROVAL

Drawing Status	APPROVAL		
Scale	1:2500@A4	Cad file	-2734 EXOS
Drawn by	LC	Project no.	222734
Checked by	LC	Drawing no.	EXOS
Date	OCT 2022	Revision	-

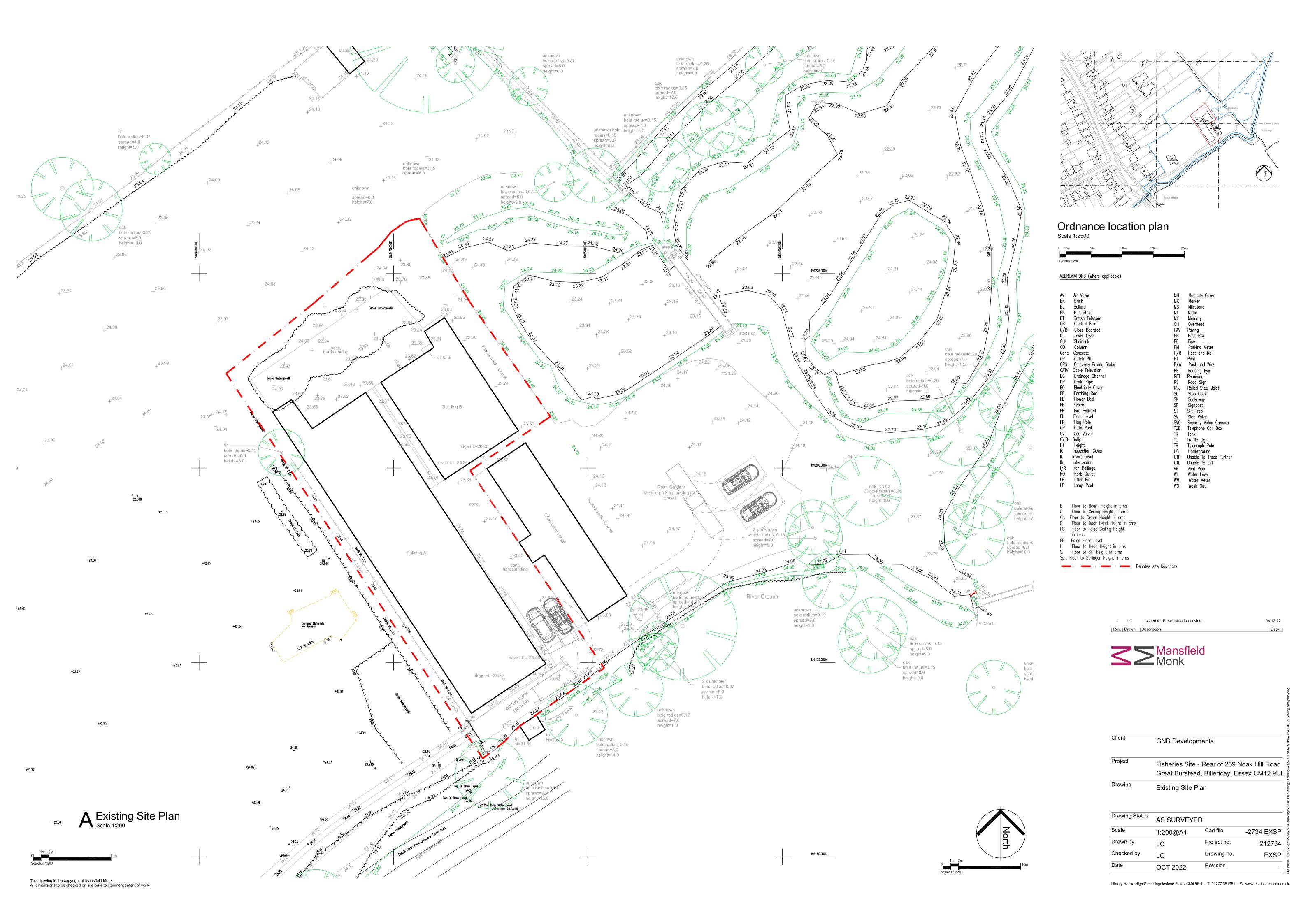


Appendix B

Topographical Survey

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Appendix C

Flood Map for Planning

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Flood map for planning

Your reference Location (easting/northing) Created

Fisheries 568483/191194 14 Mar 2024 10:24

Your selected location is in flood zone 2

- an area with a medium probability of flooding.

This means:

- you may need to complete a flood risk assessment for development in this area
- you should ask the Environment Agency about the level of flood protection at your location and request a Flood Defence Breach Hazard Map (You can email the Environment Agency at: enquiries@environment-agency.gov.uk)
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (find out more at www.gov.uk/guidance/flood-risk-assessmentstanding-advice)

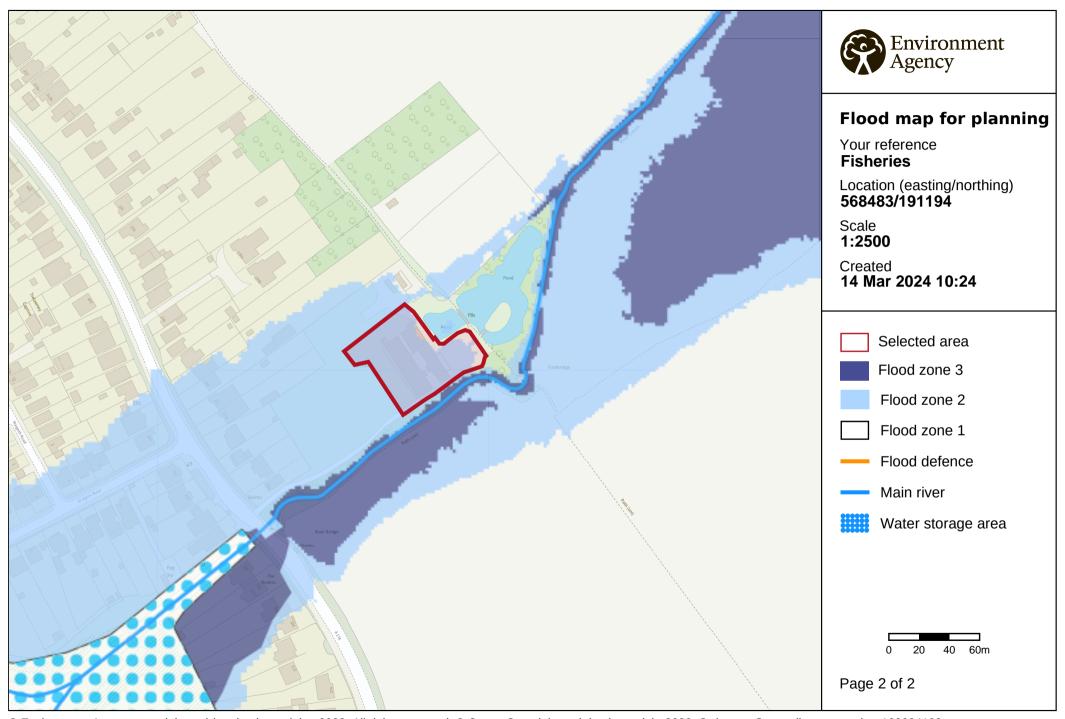
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

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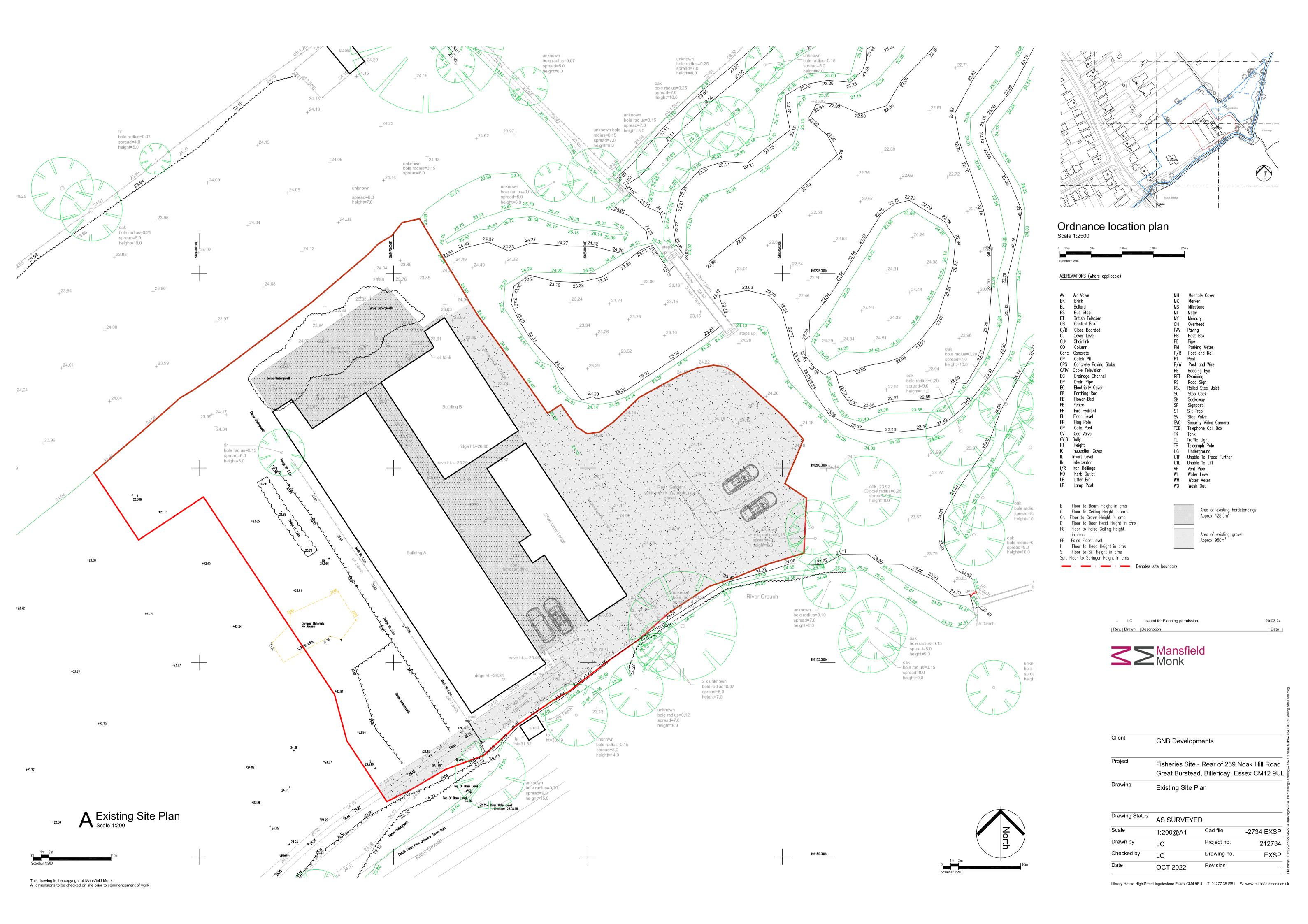


Appendix D

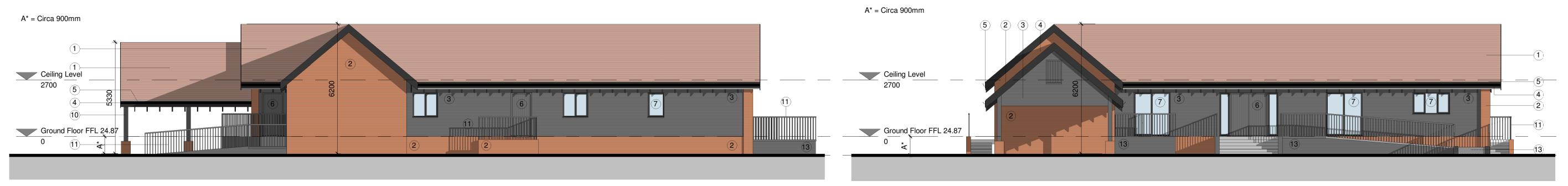
Development Proposals

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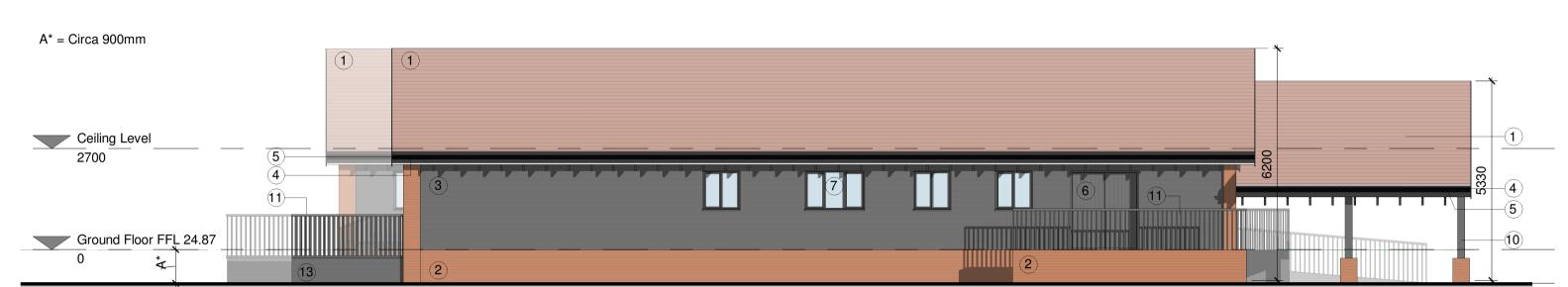
Project: 259 Noak Hill Road – Fisheries Site, Billericay







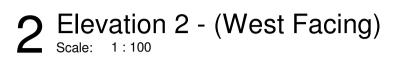
1 Elevation 1 - (South Facing) Scale: 1:100



3 Elevation 3 - (North Facing)
Scale: 1:100



5 Cross section/ Elevation 5 - (Courtyard)

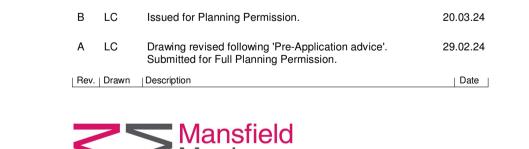




4 Elevation 4 - (East Facing)



6 Cross section/Elevation 6 (Courtyard)



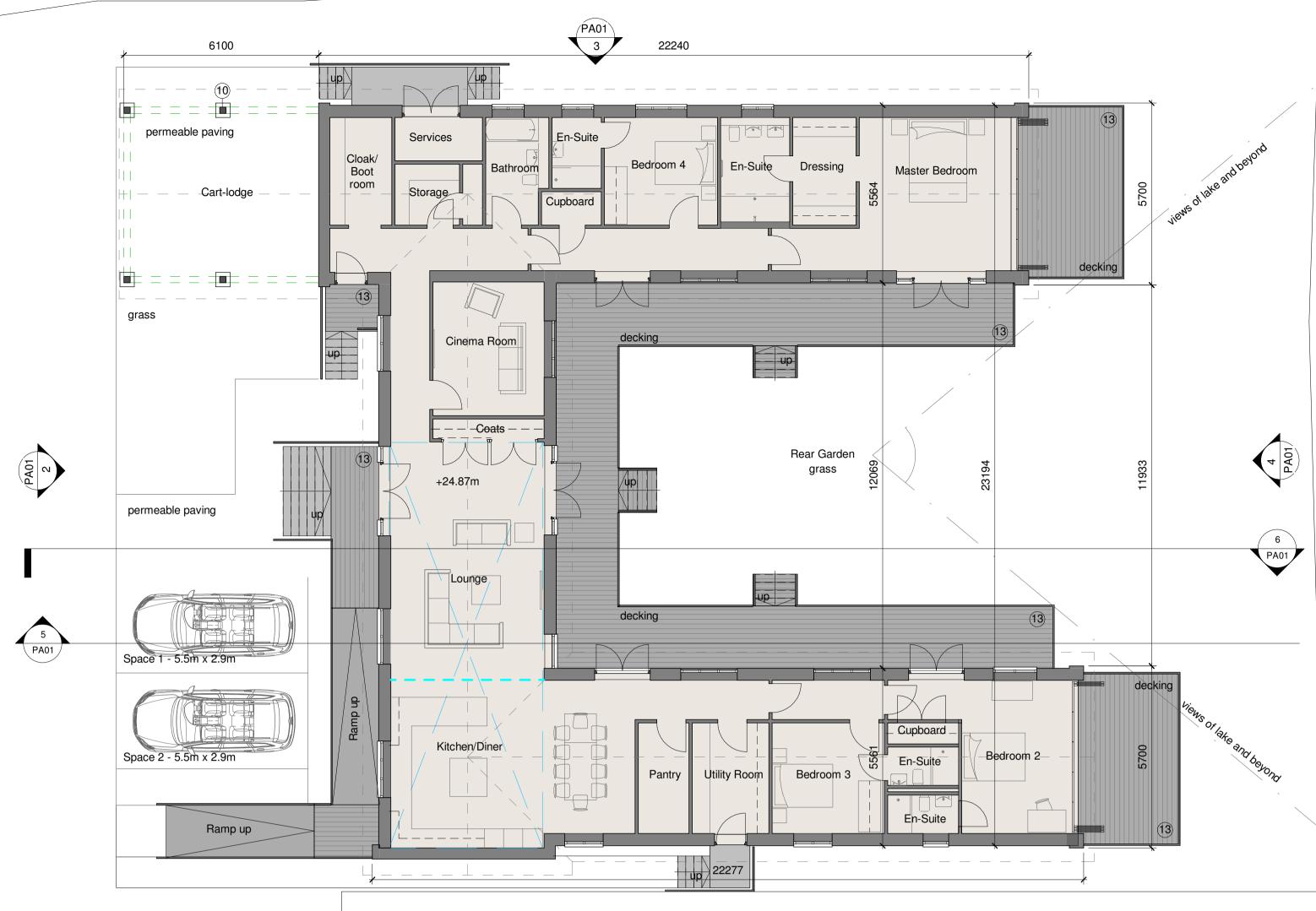


DR	AWING LEGEND:
1	CLAY PLAIN ROOF TILE
2	NEW FAIRFACE BRICKWORK
3	MID-GREY PAINTED TIMBER WEATHERBOARDING
4	FASCIA BOARDS AND EXPOSED RAFTER FEET PAINTED BLACK
(5)	BLACK uPVC GUTTERING/ DOWNPIPES
6	MID-GREY DOORS & FRAMES
7	MID GREY DOUBLE GLAZED WINDOWS
8	CONSERVATION STYLE SLIMLINE ROOFLIGHTS
9	MID-GREY DOUBLE GLAZED FRAMED DOORS
10	MID-GREY PAINTED STRUCTURAL TIMBER FRAME -WORK WITH BRICK PLINTHS
11	MID GREY EXTERNAL HANDRAILS/ BALUSTRADES,
12	MID-GREY DOUBLE GLAZED FRAMED BIFOLD DOORS
13	MID-GREY EXTERNAL DECKING, STEPS AND RAMPS.

0m	2m	4m	6m	8m	10m

SCALE 1:100 @ A1

Client	Mr R Judd		
Project	Land at the Rea Great Bursted,		
Drawing	Proposed Eleva	ations	
Drawing Statu	JS APPROVAL		
Drawing Statu	APPROVAL 1:100@A1	Cad file	-2734 PA01
	APPROVAL	Cad file Project no.	-2734 PA01 222734
Scale	1 : 100@A1		



A Ground Floor Plan
Scale: 1:100



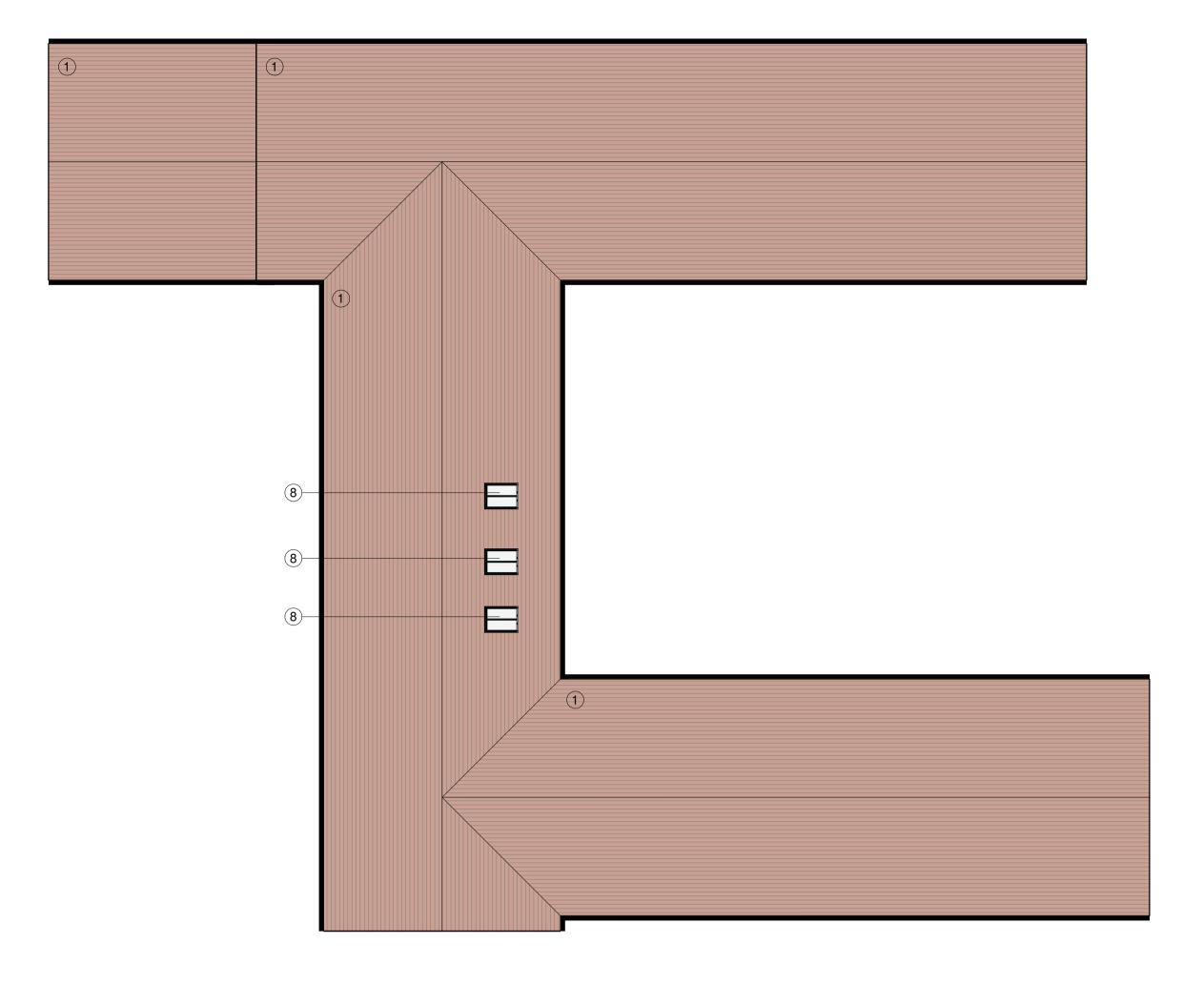


DRAWING LEGEND:

- 1 CLAY PLAIN ROOF TILE
- 2 NEW FAIRFACE BRICKWORK
- 3 MID-GREY PAINTED TIMBER WEATHERBOARDING
- 4 FASCIA BOARDS AND EXPOSED RAFTER FEET
- PAINTED BLACK

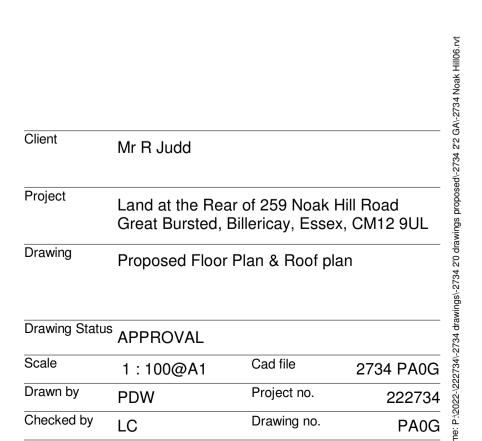
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- 6 MID-GREY DOORS & FRAMES
- 7 MID GREY DOUBLE GLAZED WINDOWS
- 8 CONSERVATION STYLE SLIMLINE ROOFLIGHTS
- 9 MID-GREY DOUBLE GLAZED FRAMED DOORS
- MID-GREY PAINTED STRUCTURAL TIMBER FRAME
 -WORK WITH BRICK PLINTHS
- 11 MID GREY EXTERNAL HANDRAILS/ BALUSTRADES,
- 12 MID-GREY DOUBLE GLAZED FRAMED BIFOLD DOORS13 MID-GREY EXTERNAL DECKING, STEPS AND RAMPS.





Proposed Roof Plan





0m 2m 4m 6m 8m 10m

SCALE 1:100 @ A1

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Appendix E

Climate Change Allowances

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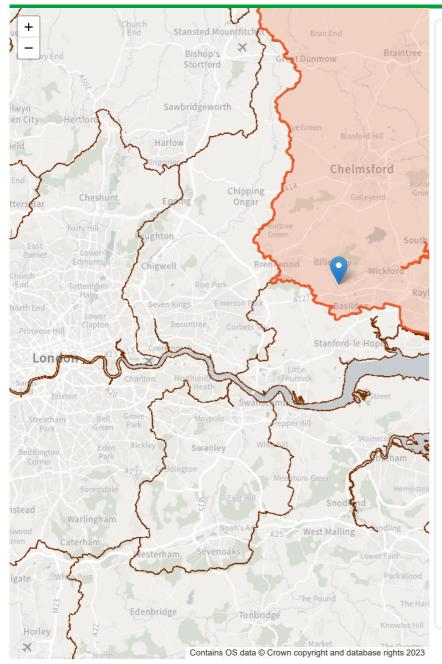
We would welcome your feedback to help us make future improvements.

Department for Environment Food & Rural Affairs

Data Services Platform

Climate Change Allowances

Hydrology Data Explorer



Combined Essex Management Catchment peak rainfall allowances



3.3% annual exceedance rainfall event

Epoch

	Central allowance	Upper end allowance
2050s	20%	35%
2070s	20%	35%

1% annual exceedance rainfall event

Epoch

	Central allowance	Upper end allowance
2050s	20%	45%
2070s	25%	40%

*Use '2050s' for development with a lifetime up 2060 and use the 2070s epoch for development with a lifetime between 2061 and 2125.

This map contains information generated by Met Office Hadley Centre (2019): UKCP Local Projections on a 5km grid over the UK for 1980-2080. Centre for Environmental Data Analysis, 2022

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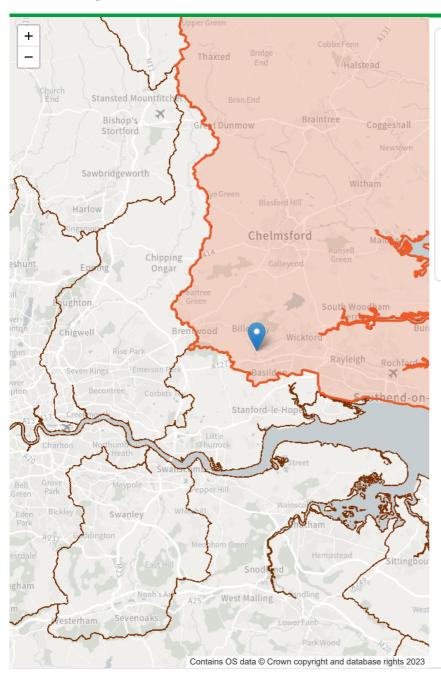
Department for Environment Food & Rural Affairs

Data Services Platform

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Climate Change Allowances

Hydrology Data Explorer



Combined Essex Management Catchment peak river flow allowances

	Central	Higher	Upper
2020s	7%	13%	27%
2050s	8%	16%	37%
2080s	25%	38%	72%

This map contains information generated by <u>UK</u>
<u>Centre for Ecology and Hydrology</u> using UK Climate projections.

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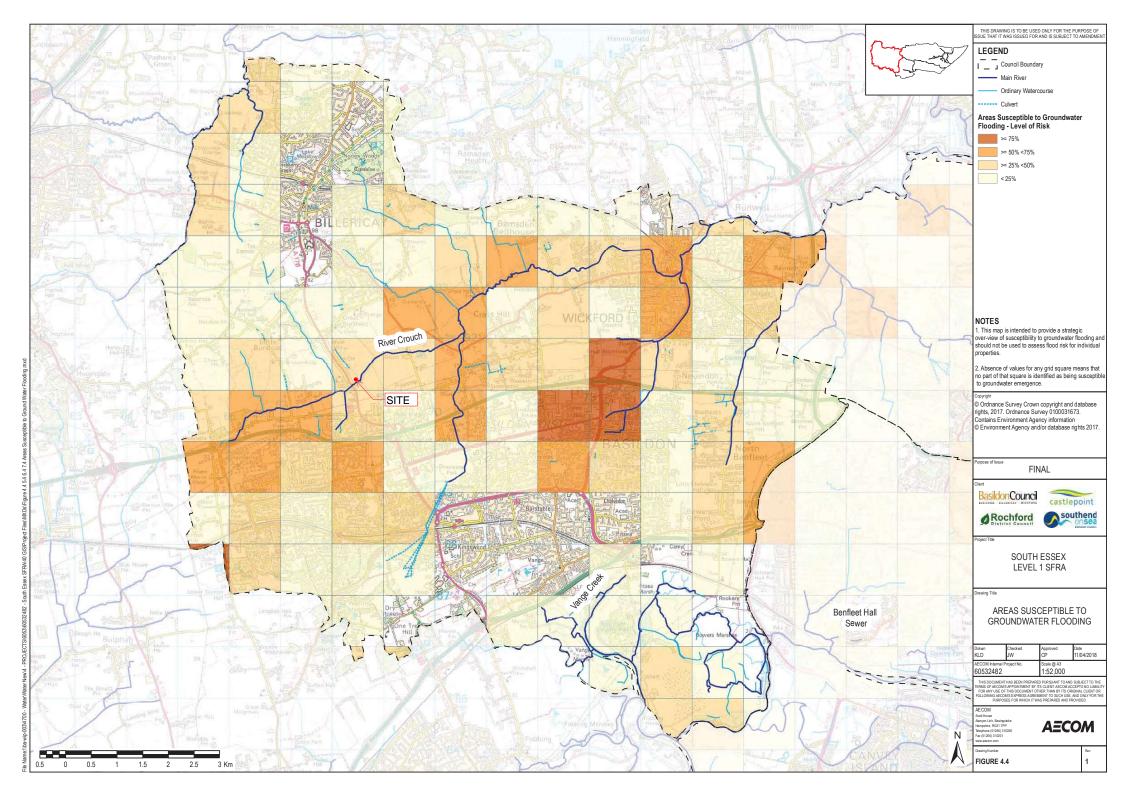


Appendix F1

Basildon Level 1 SFRA Extract: Ground Water Vulnerability Map

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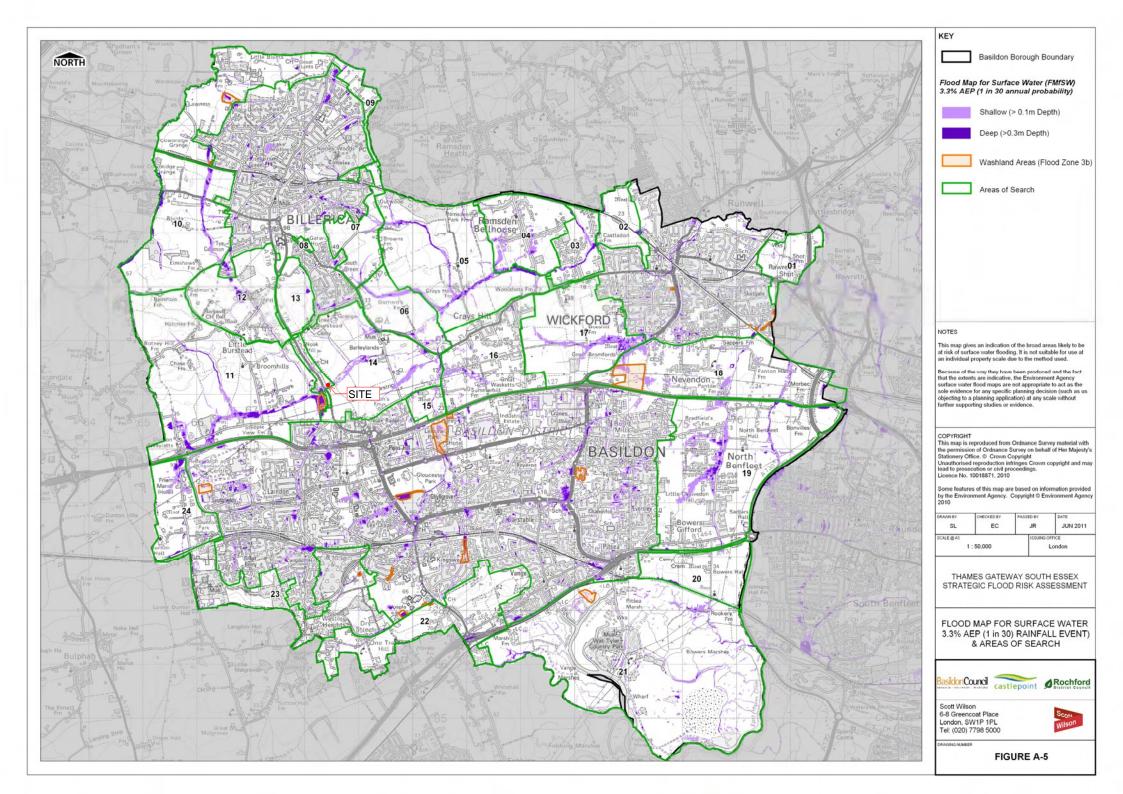


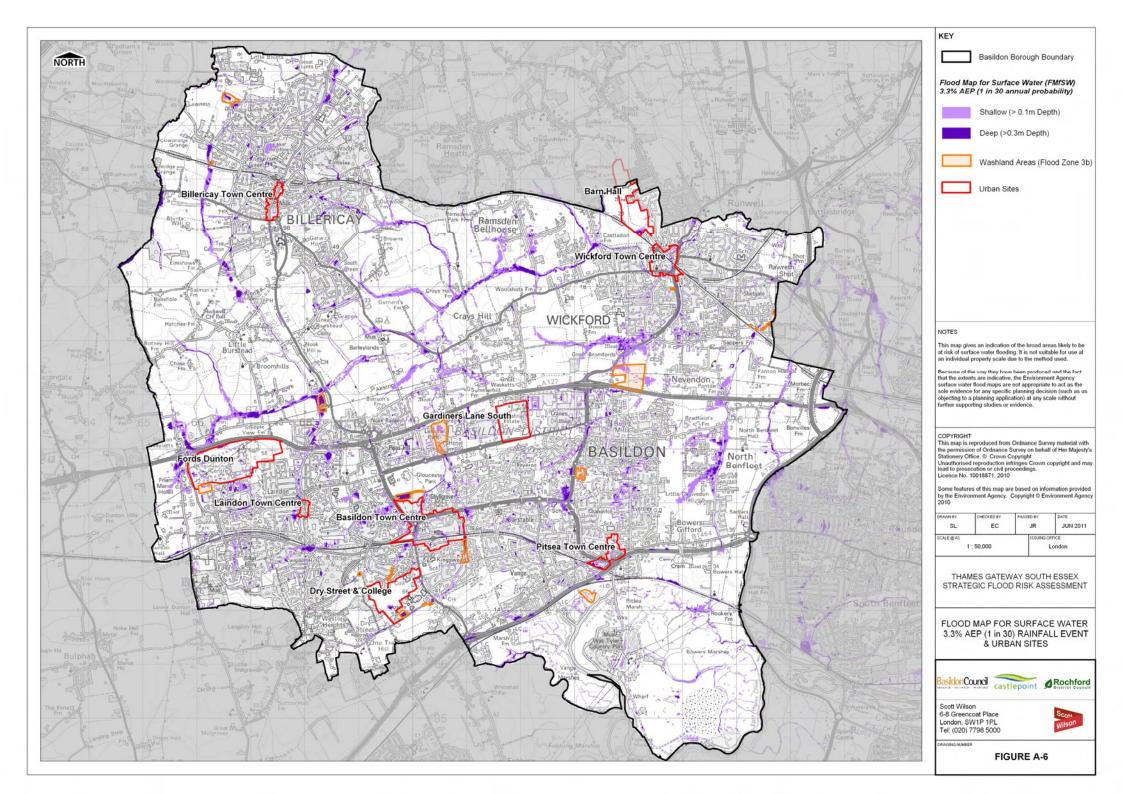
Appendix F2

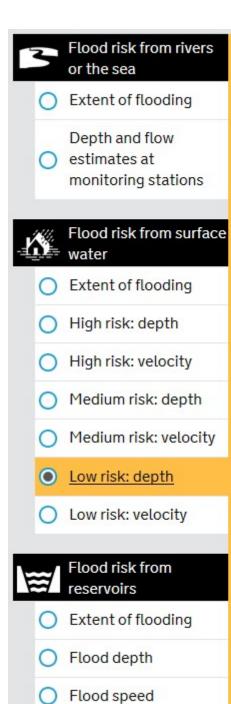
Basildon Level 1 SFRA Extract: 1:30 year Surface Water Flood Risk Map

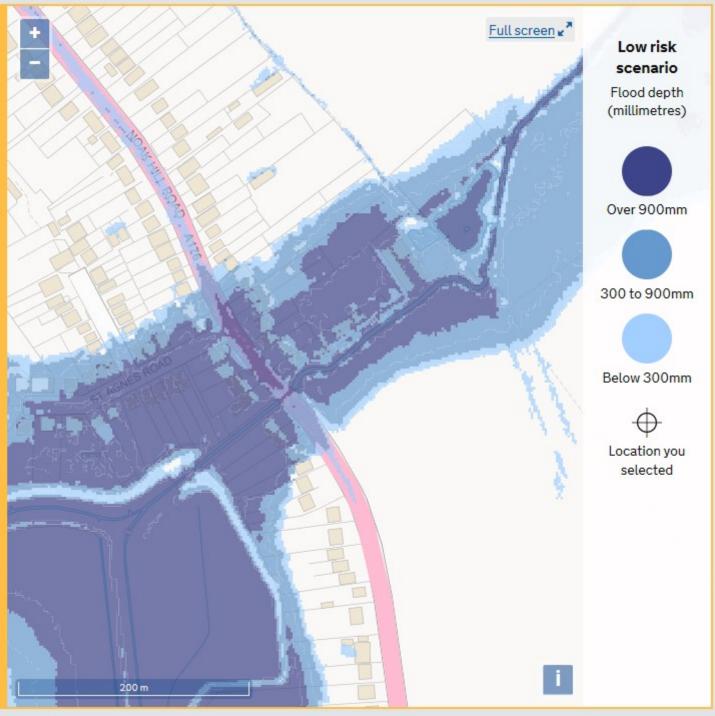
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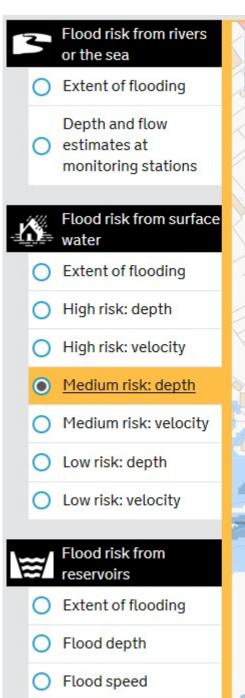
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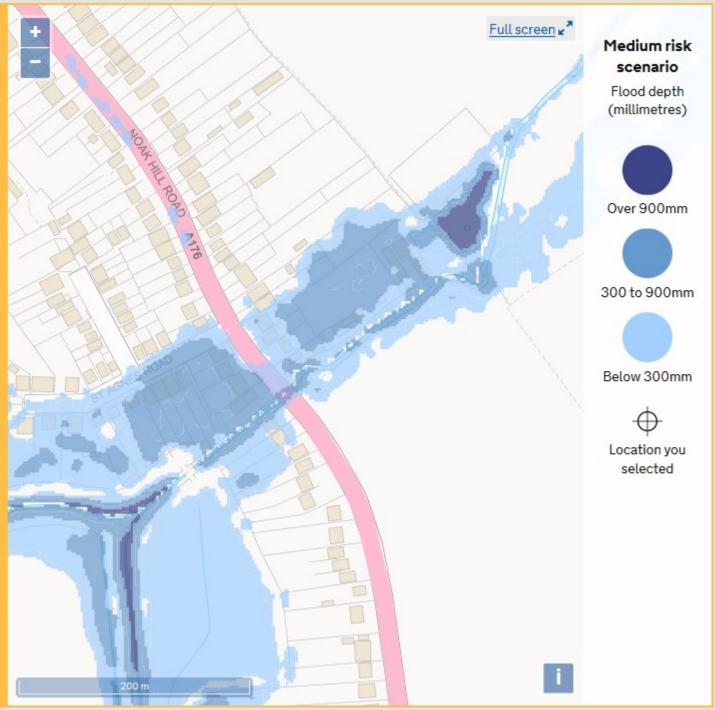


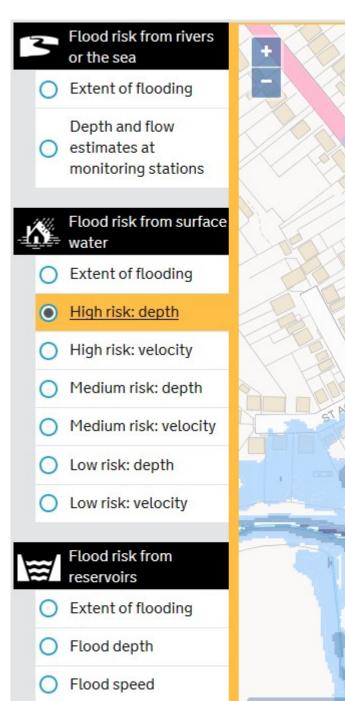


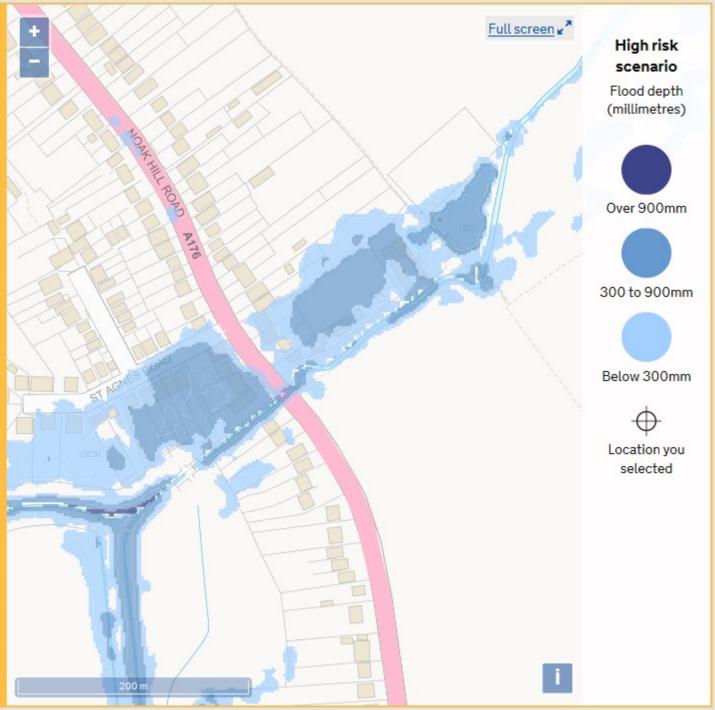














Appendix F3

Surface Water Flood Risk Map

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Project: 259 Noak Hill Road – Fisheries Site, Billericay

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Learn more about this area's flood risk

Select the type of flood risk information you're interested in. The map will then update.

Flood risk Extent of flooding Location **CM12 9UN** Forest Glade Football Club Extent of flooding from rivers or the sea Medium Very low

View the flood risk information for the location you originally searched for (/risk)

Location you selected

View the flood risk information for another location (/postcode)

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Learn more about this area's flood risk

Select the type of flood risk information you're interested in. The map will then update.

Flood risk High risk: depth Location Enter a place or postcode Forest Glade Football Club Surface water flood risk: water depth in a high risk scenario Flood depth (millimetres) Over 900mm 300 to 900mm

View the flood risk information for the location you originally searched for (/risk)

Below 300mm

Location you selected