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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers
- Flood Storage Reservoir

**Level 2 Local Plan Sites**

- Allocated Employment Sites
- Employment Development Areas
- Healthy Community Sites
- Housing Sites
- Major Opportunity Areas
- Ward Boundary
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

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Purpose of Issue

FINAL

Client

**Stevenage BOROUGH COUNCIL**

Project Title

STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

STUDY AREA

Drawn	Checked	Approved	Date
LM	GB	FC	17/06/2016

AECOM Internal Project No.  
60486866

Scale at A3  
1:25,000

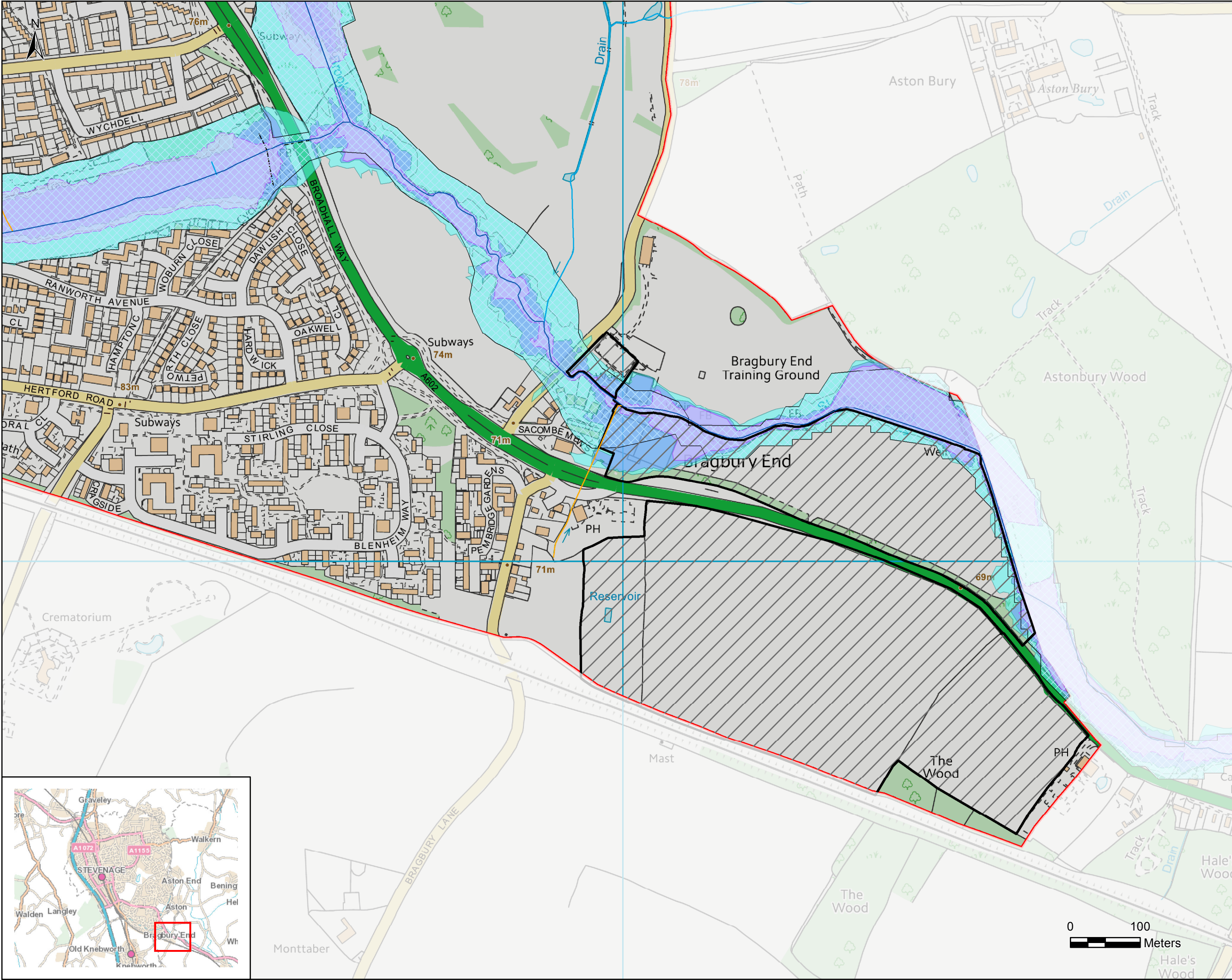
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Drawing Number	Rev
FIGURE 01	2





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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers
- Historic Flood Map
- Flood Defences
- ABDs

**Flooding from Rivers**

- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b Functional Floodplain
- Local Plan Sites
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

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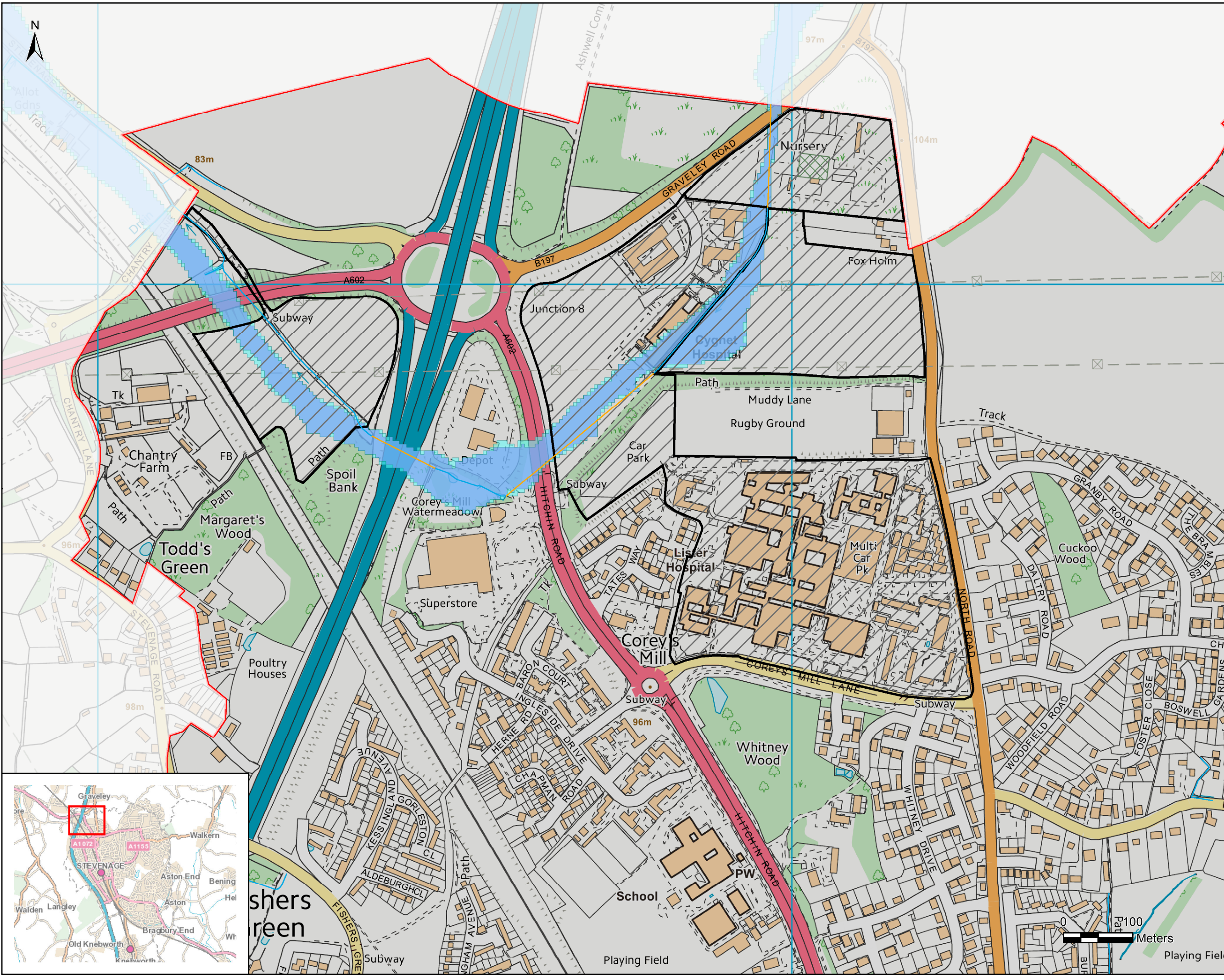
The Risk from Rivers is divided into the following categories:  
Flood Zone 1 - Land having a less than 1,000 (0.1%) annual probability of river flooding in any year. Shown as clear on the Flood Map - all land outside Flood Zones 2 and 3.  
Flood Zone 2 - Land having between a 1 in 100 and 1 in 1,000 (between 1% and 0.1%) annual probability of river flooding in any year.  
Flood Zone 3a - Land having 1 in 100 (1%) or greater annual probability of river flooding in any year.  
Flood Zone 3b - Land where water has to flow or be stored in times of river flooding in any year.  
For the purpose of this SFRA, land modelled to have a probability of 5% or greater has been used to delineate Flood Zone 3b.

This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess flood risk for individual properties.

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Purpose of Issue	FINAL			
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Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOODING FROM RIVERS SOUTH EAST AREA			
Drawn	Checked	Approved	Date	
LM	GB	FC	17/06/2016	
AECOM Internal Project No. 60486866		Scale at A3 1:5,000		
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Drawing Number <b>FIGURE 02.1</b>				Rev. <b>2</b>





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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Flooding from Rivers**

- Historic Flood Map
- Flood Defences
- ABDs
- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b Functional Floodplain
- Local Plan Sites
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

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- Flood Zone 2 - Land having between a 1 in 100 and 1 in 1,000 (between 1% and 0.1%) annual probability of river flooding in any year.
- Flood Zone 3a - Land having 1 in 100 (1%) or greater annual probability of river flooding in any year.
- Flood Zone 3b - Land where water has to flow or be stored in times of river flooding in any year.

For the purpose of this SFRA, land modelled to have a probability of 5% or greater has been used to delineate Flood Zone 3b.

This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess flood risk for individual properties.

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Client

**Stevenage BOROUGH COUNCIL**

Project Title

STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

FLOODING FROM RIVERS  
NORTH WEST AREA

Drawn	Checked	Approved	Date
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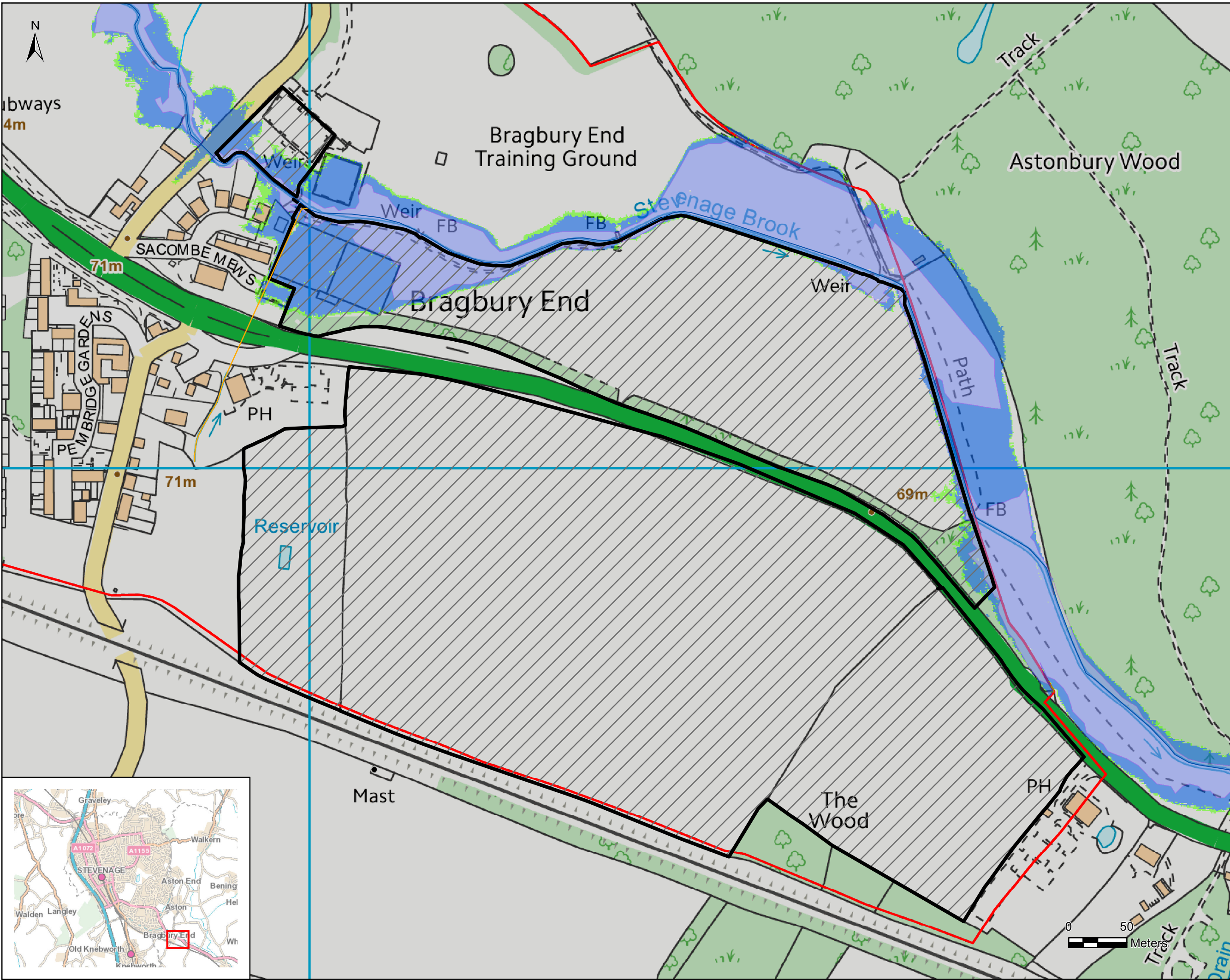
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Drawing Number	Rev.
FIGURE 02.2	2





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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Modelled Flood Extents**

- 1 in 20 Year AEP
- 1 in 20 Year + CC (Higher Central)
- 1 in 20 Year + CC (Upper End)

**Local Plan Sites**

- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

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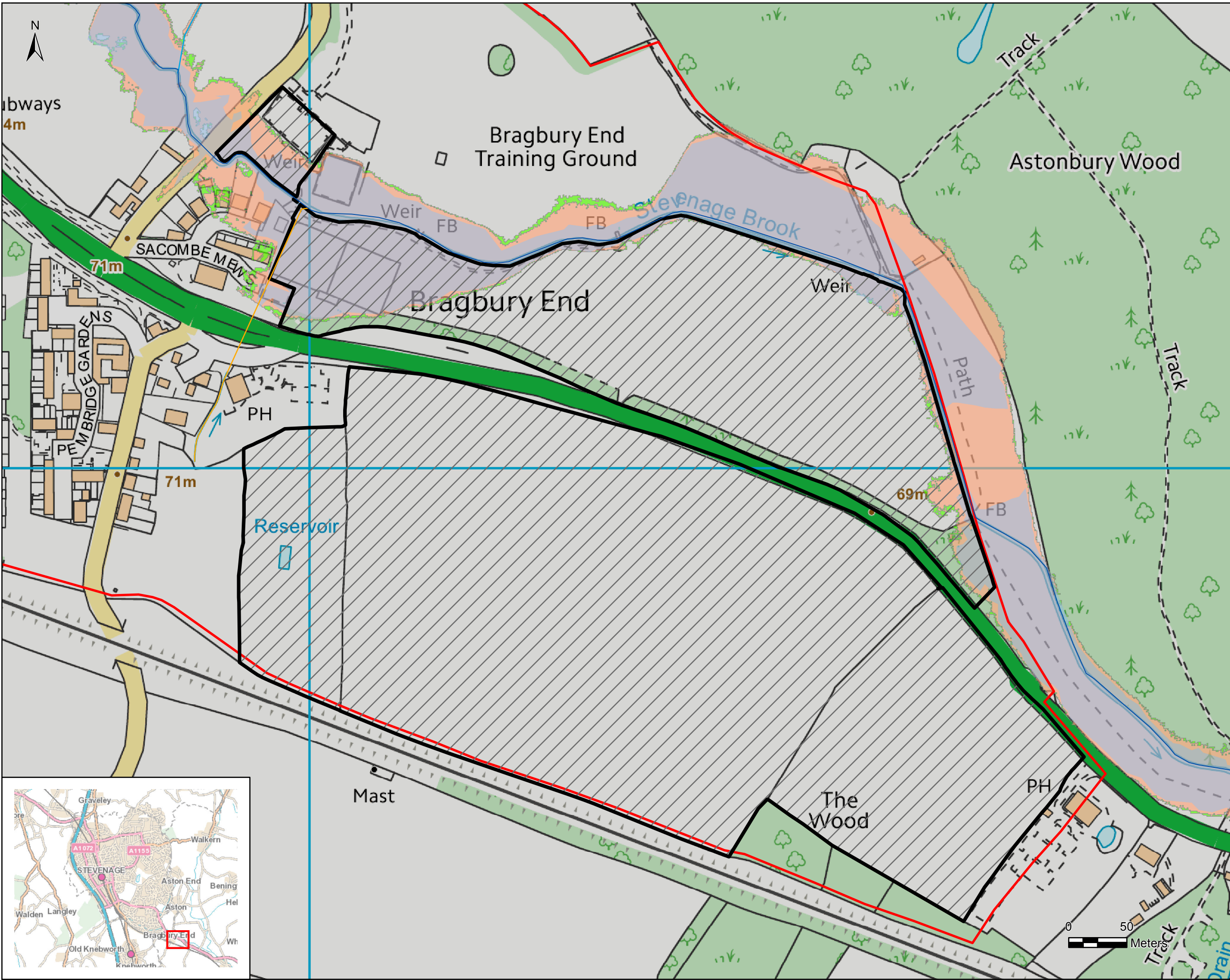
This map shows the modelled flood extents for the 1 in 20 year event and the expected increase due to climate change allowance according to UKCP09 values:  
Higher Central: +35%  
Upper end: +70%

This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess flood risk for individual properties.

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Purpose of Issue	FINAL		
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Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT		
Drawing Title	MODELLED FLOOD OUTLINES 5% AEP SOUTH EAST AREA		
Drawn LM	Checked GB	Approved FC	Date 17/06/2016
AECOM Internal Project No. 60486866		Scale at A3 1:3,000	
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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Modelled Flood Extents**

- 1 in 100 Year AEP
- 1 in 100 Year + CC (Central)
- 1 in 100 Year + CC (Higher Central)

**Local Plan Sites**

- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

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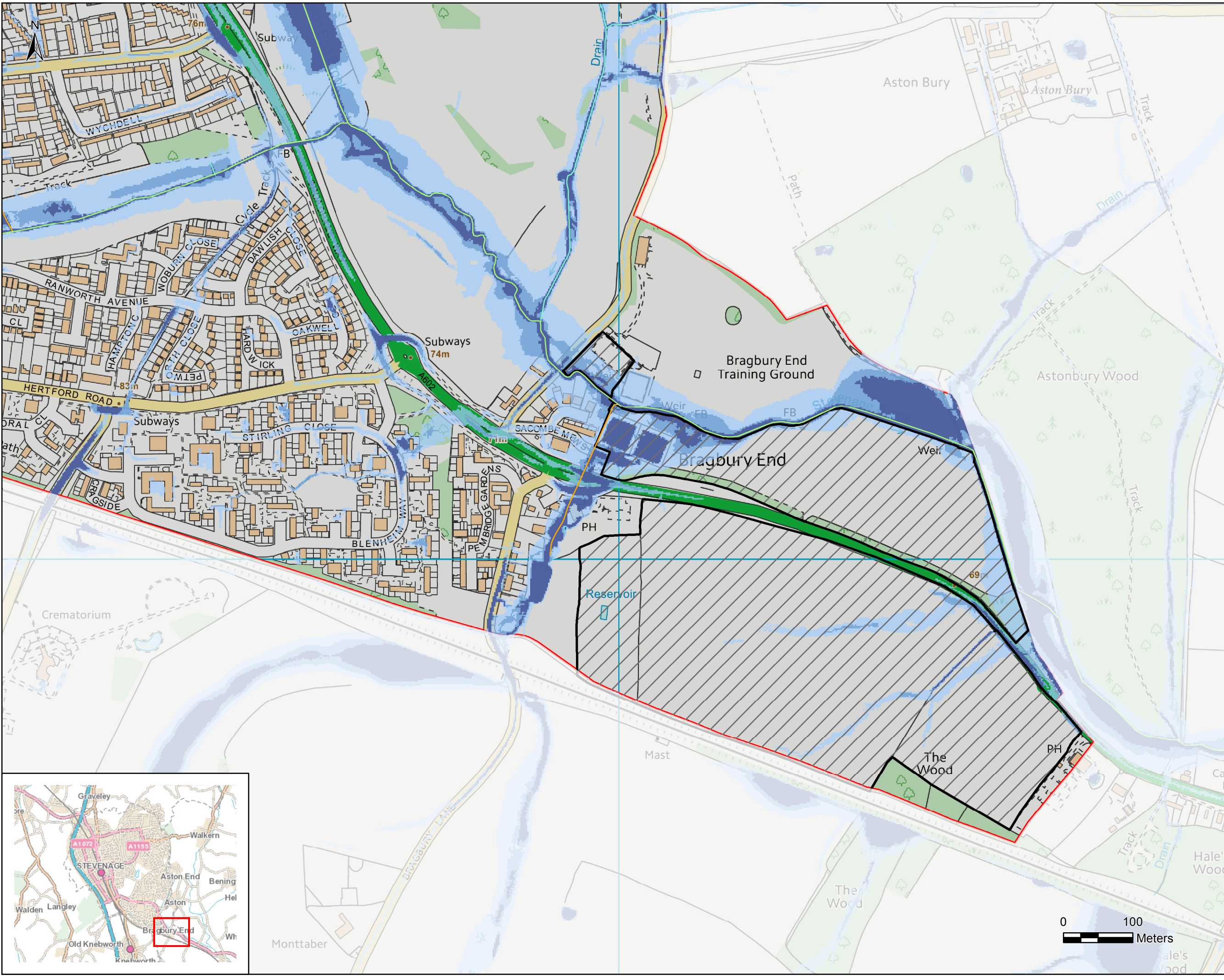
This map shows the modelled flood extents for the 1 in 100 year event and the expected increase due to climate change allowance according to UKCP09 values:  
Central: +25%  
Higher Central: +35%

This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess flood risk for individual properties.

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Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT		
Drawing Title	MODELLED FLOOD OUTLINES 1% AEP SOUTH EAST AREA		
Drawn LM	Checked GB	Approved FC	Date 17/06/2016
AECOM Internal Project No. 60486866		Scale at A3 1:3,000	
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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Risk of flooding**

- High Risk (3.3% AEP)
- Medium Risk (1% AEP)
- Low Risk (0.1% AEP)
- Very Low Risk (<0.1% AEP)

**Local Plan Sites**

- Stevenage Borough

**Notes**

This map shows the predicted likelihood of surface water flooding based on the Environment Agency's updated Flood Map for Surface Water (uFMSW) data, which may be subject to further analysis in the future. Further information is provided on the Environment Agency website ([www.gov.uk/environment-agency](http://www.gov.uk/environment-agency)).

The Risk from Surface Water Flooding is divided into categories:

High: each year, the chance of flooding is greater than 1 in 30 (3.3%).

Medium: each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%).

Low: each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%).

Very Low: each year, the chance of flooding is less than 1 in 1000 (0.1%).

The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).

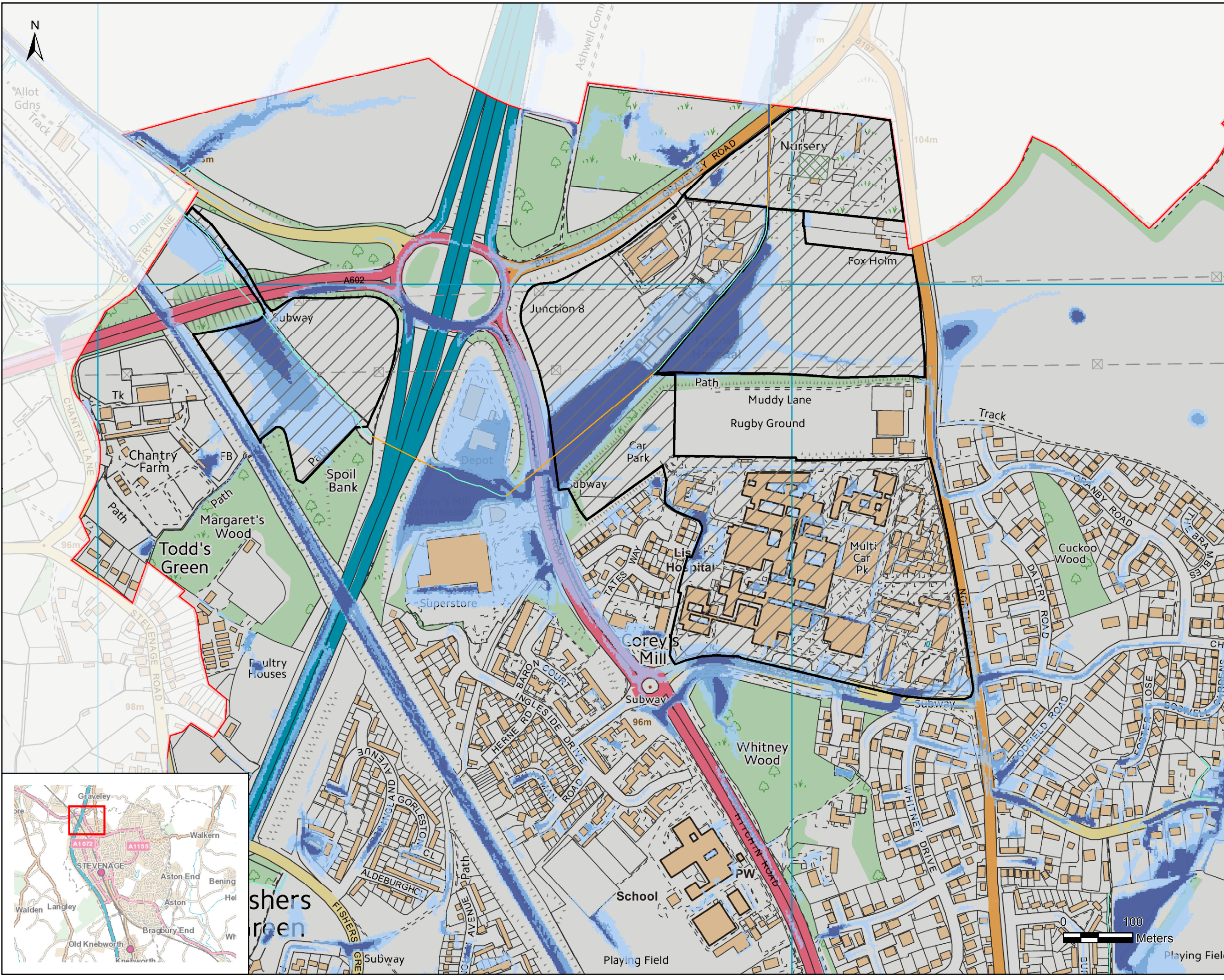
Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties.

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Purpose of Issue	FINAL			
Client	<b>Stevenage BOROUGH COUNCIL</b>			
Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOODING FROM THE LAND SOUTH EAST AREA			
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LM	GB	FC	17/06/2016	
AECOM Internal Project No. 60486866		Scale at A3 1:5,000		
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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Risk of flooding**

- High Risk (3.3% AEP)
- Medium Risk (1% AEP)
- Low Risk (0.1% AEP)
- Very Low Risk (<0.1% AEP)

**Local Plan Sites**

- Stevenage Borough

**Notes**

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- Medium: each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%).
- Low: each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%).
- Very Low: each year, the chance of flooding is less than 1 in 1000 (0.1%).

The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).

Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties.

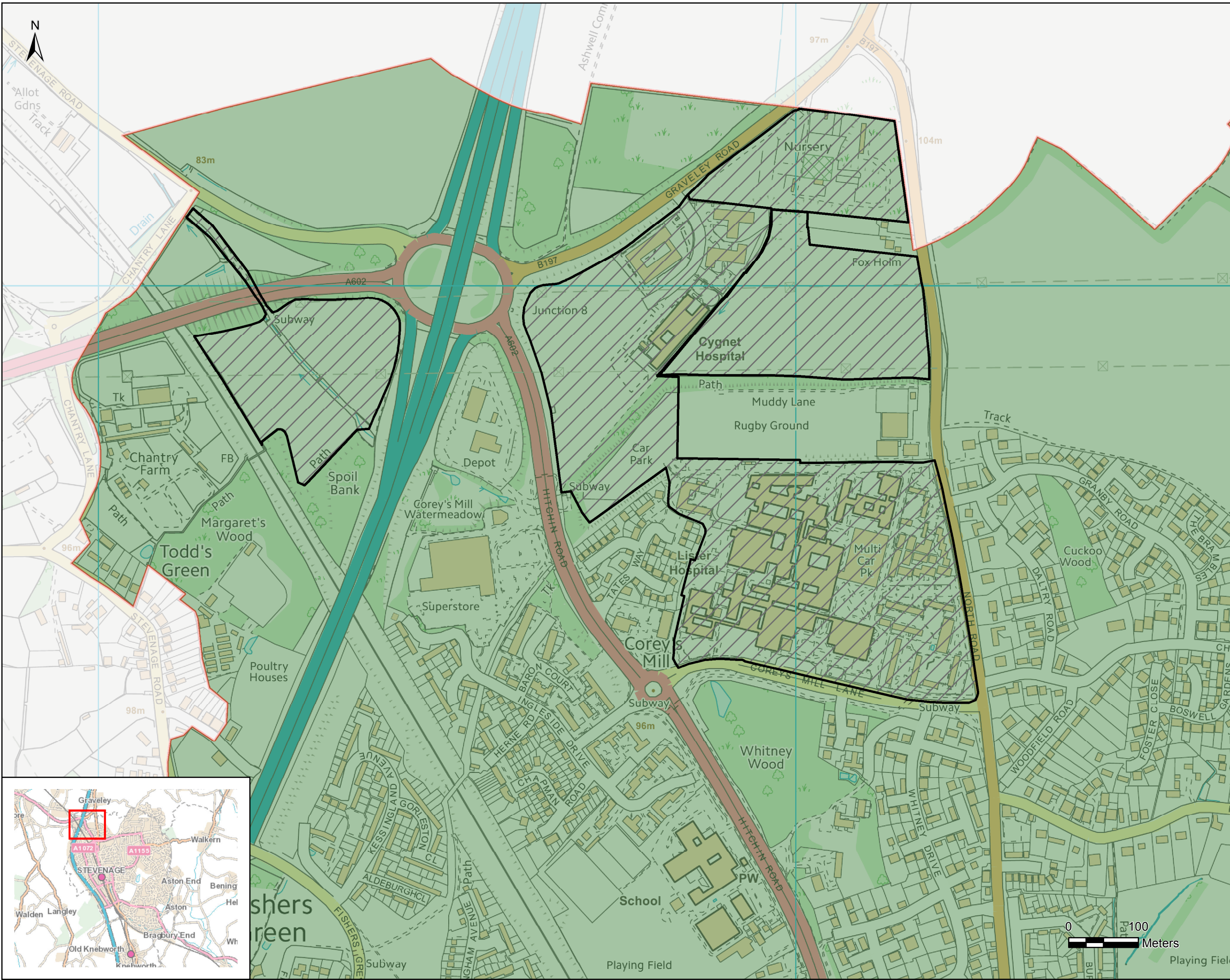
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Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOODING FROM THE LAND NORTH WEST AREA			
Drawn	Checked	Approved	Date	
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LEGEND

- BGS Susceptibility to Groundwater Flooding**
- Potential for groundwater flooding to occur at surface
  - Potential for groundwater flooding of property situated below ground level
  - Limited potential for groundwater flooding to occur
- Local Plan Sites**
- Stevenage Borough

**Notes**

The 1:50,000 scale digital map data is generalised and the geological interpretation should be used only as a guide to the geology at a local level, not as a site-specific geological plan based on detailed site investigations.

This map is intended to provide a strategic overview of susceptibility to groundwater flooding and should not be used to assess flood risk for individual properties.

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Client  
**Stevenage BOROUGH COUNCIL**

Project Title  
**STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT**

Drawing Title  
**GROUNDWATER FLOODING  
NORTH WEST AREA**

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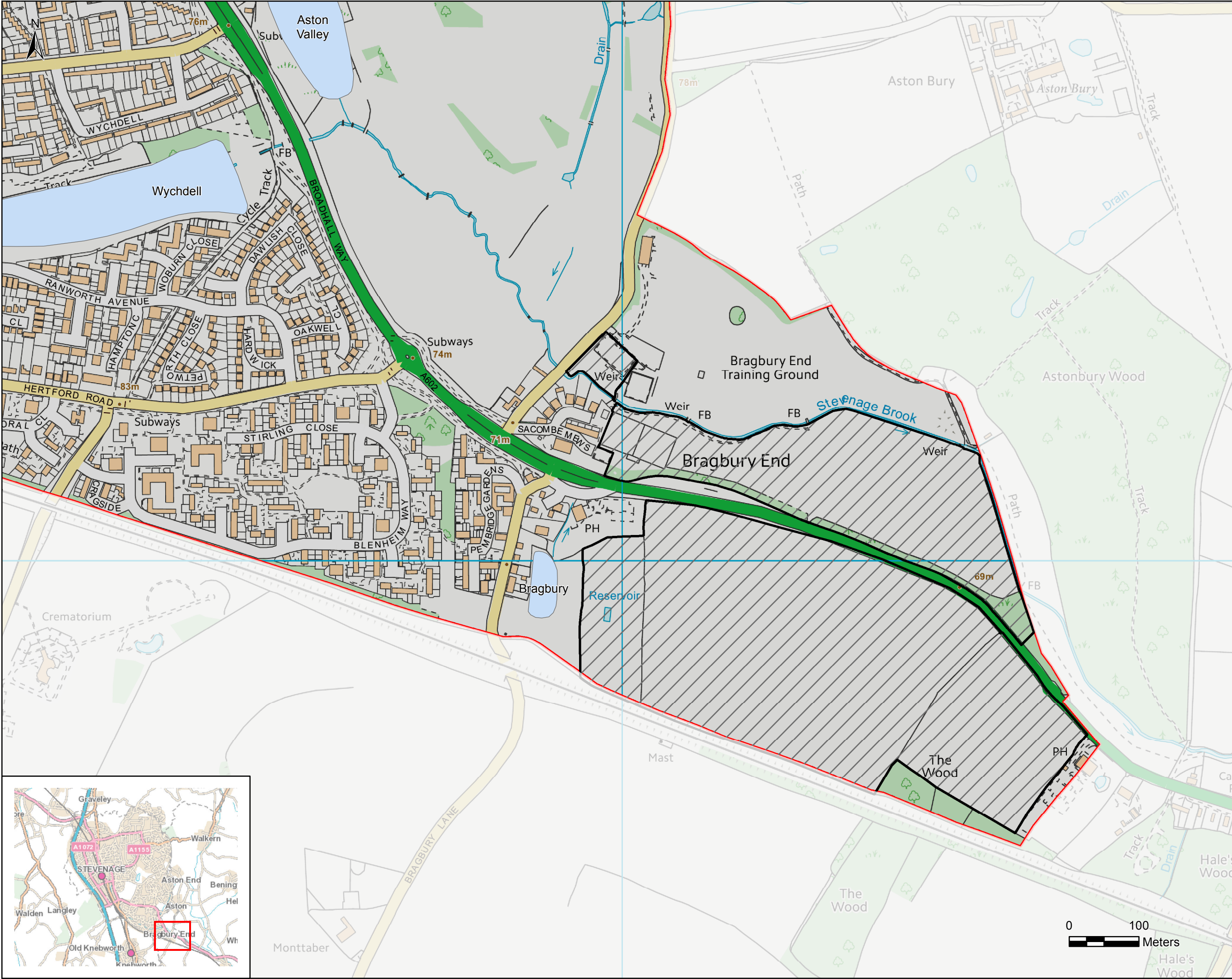
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LEGEND

- Flood Storage Reservoir
- Local Plan Sites
- Stevenage Borough

Notes

This map shows flood storage reservoirs, land designated and operated to store flood water.

All of the Large Reservoirs and FSRs located within the boundary of Stevenage Borough Council are included within the functional floodplain (Flood Zone 3b).

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Client  
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Project Title  
STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title  
ARTIFICIAL SOURCES  
SOUTH EAST AREA

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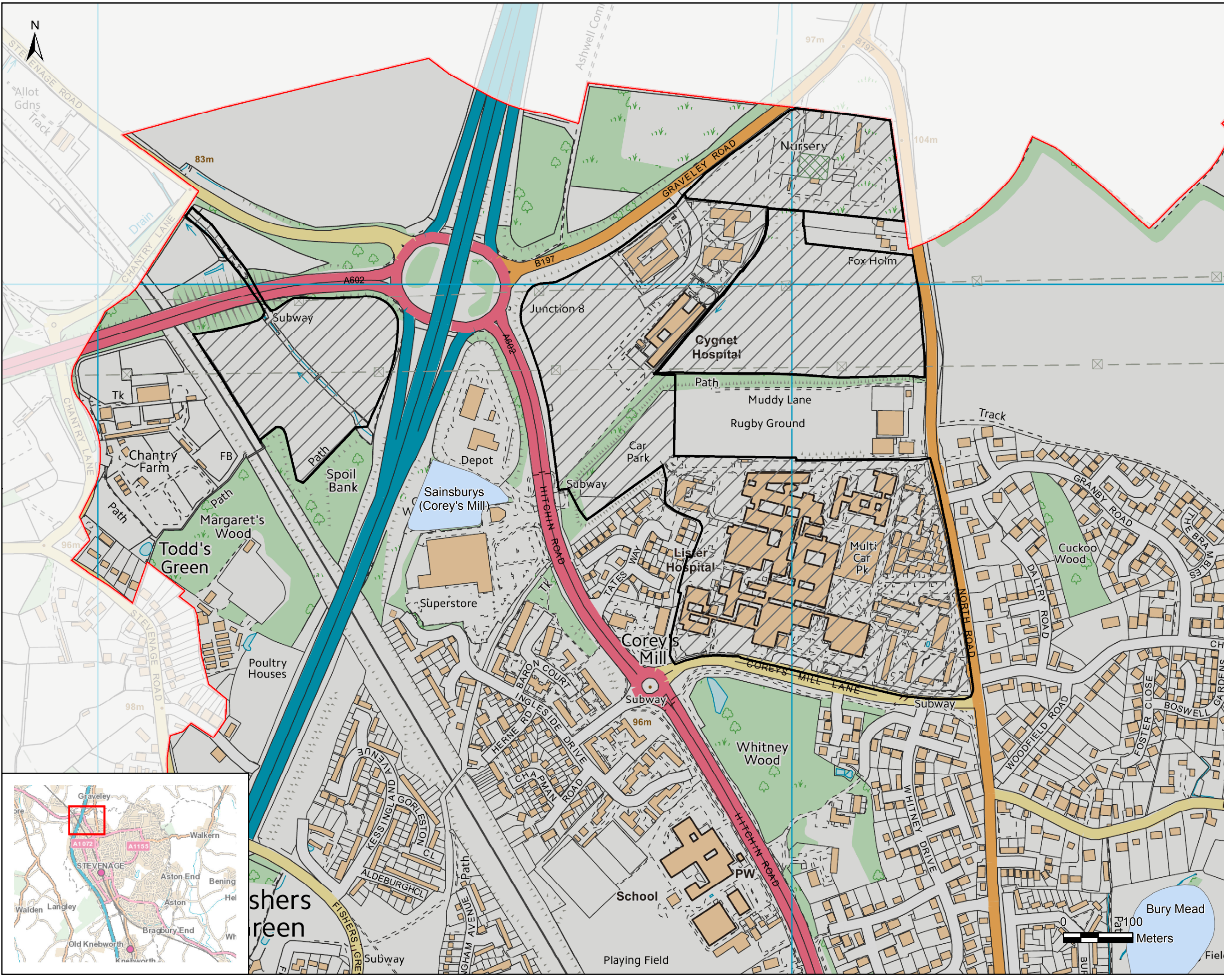
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Drawing Number	Rev.
FIGURE 06.1	2





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**LEGEND**

- Flood Storage Reservoir
- Local Plan Sites
- Stevenage Borough

**Notes**

This map shows flood storage reservoirs, land designated and operated to store flood water.

All of the Large Reservoirs and FSRs located within the boundary of Stevenage Borough Council are included within the functional floodplain (Flood Zone 3b).

**Notes**

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**Stevenage**  
BOROUGH COUNCIL

Project Title

STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

ARTIFICIAL SOURCES  
NORTH WEST AREA

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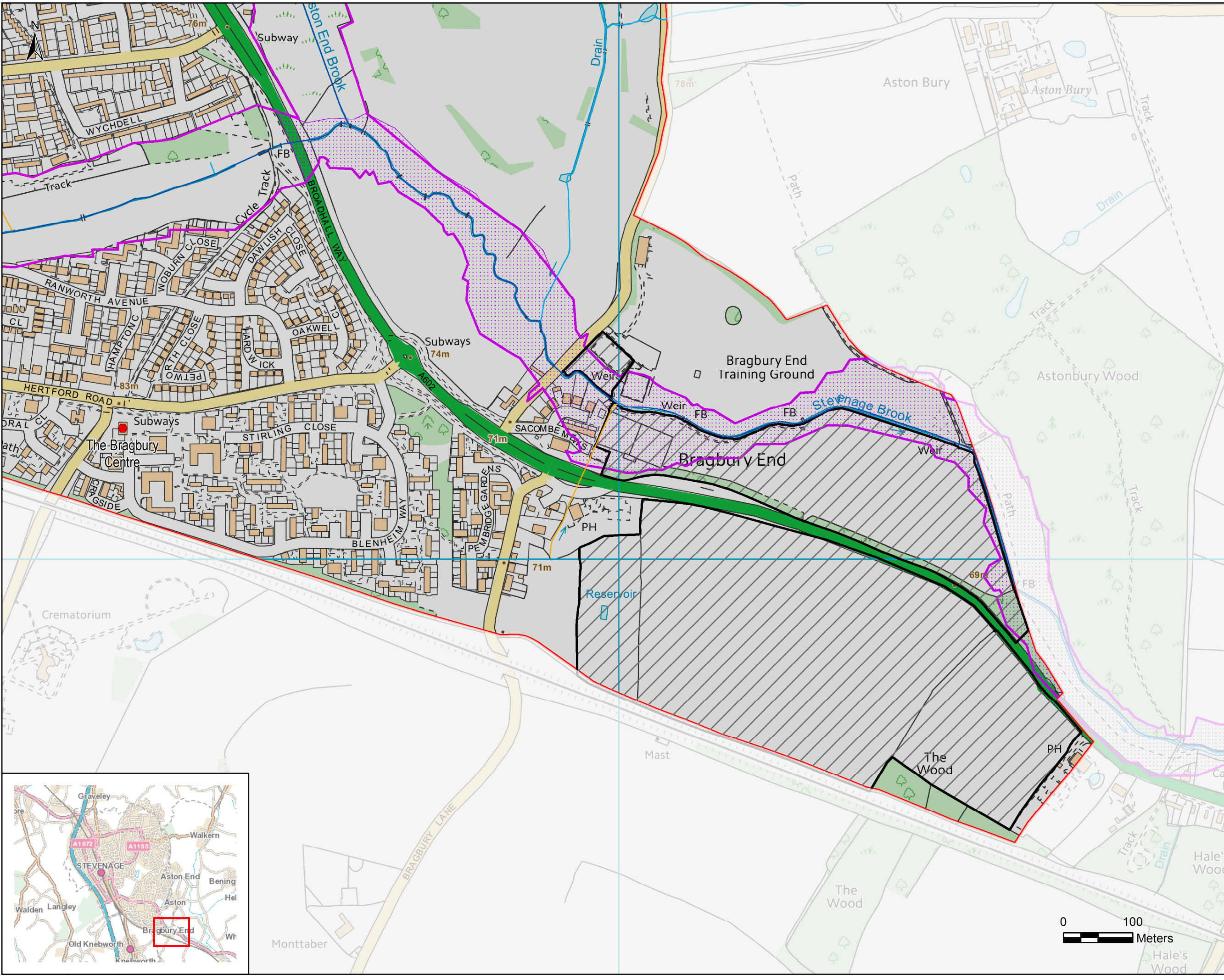
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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Flood Response Measures**

- Flood Warning Areas
- Flood Alert Areas
- Reception Centres
- Local Plan Sites
- Stevenage Borough

**Notes**

The Environment Agency provides a free flood warning service for many areas at risk of flooding from rivers and the sea. In some parts of England the Environment Agency may be able to provide warnings when flooding from groundwater is possible. The Environment Agency free flood warning service can provide advance notice of flooding and can provide time to prepare.

The Environment Agency issues flood warnings to homes and businesses when flooding is expected. Upon receipt of a flood warning, occupants should take immediate action.

The Environment Agency issues flood alerts when flooding is possible. Flood alerts cover larger areas than flood warnings and are issued more frequently. Upon receipt of a flood alert, occupants should be prepared for flooding and to take action.

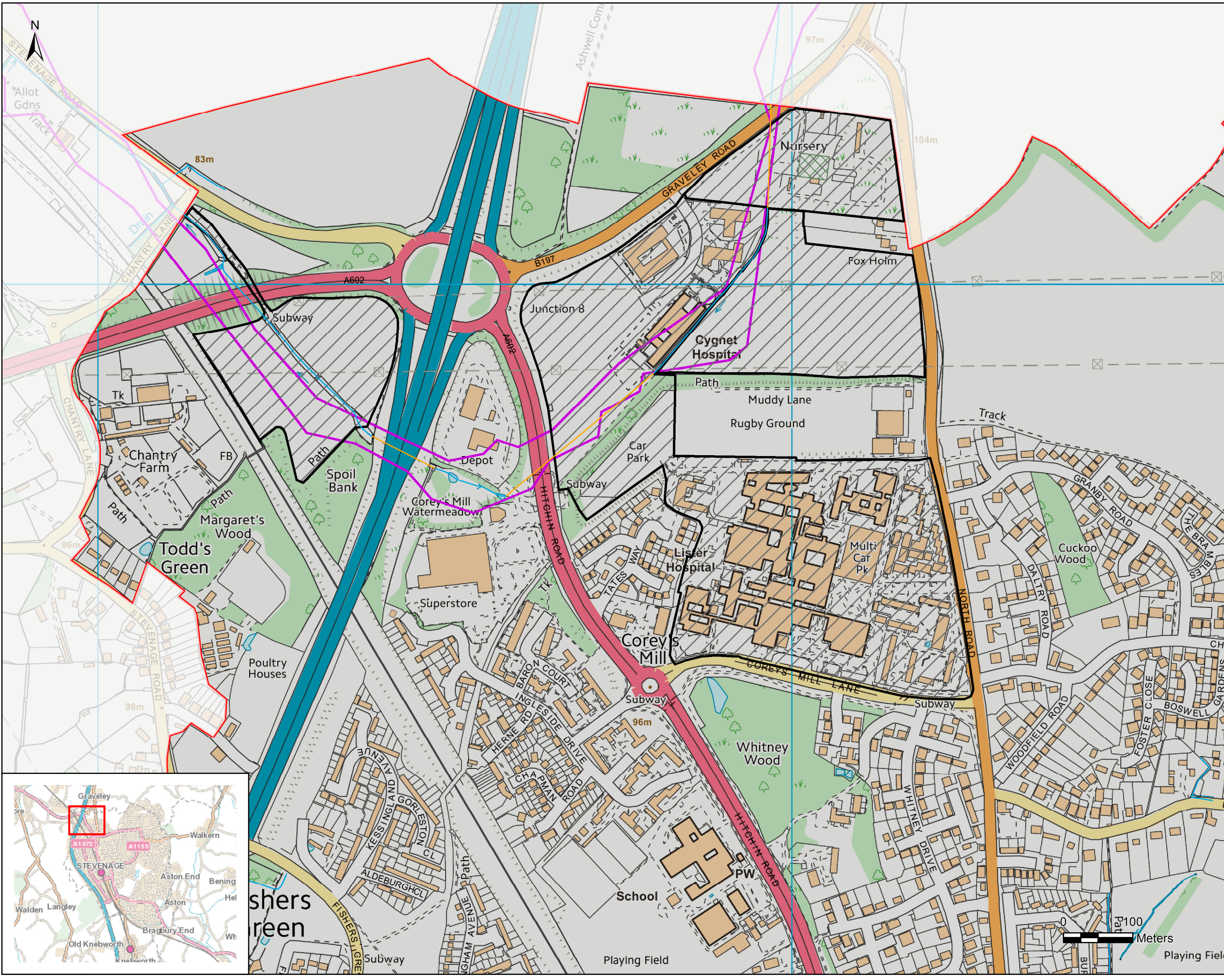
If a flood alert for groundwater is available this does not mean that your property is definitely at risk. It is very difficult to predict the exact location of flooding from groundwater as it is often related to local geology. To help people, the Environment Agency provides flood alerts for large areas that could be affected if groundwater levels were high.

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Revision Details	By	Check	Date	Suffix
Purpose of Issue	FINAL			
Client				
Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOOD RESPONSE MEASURES SOUTH EAST AREA			
Drawn	Checked	Approved	Date	
LM	GB	FC	17/06/2016	
AECOM Internal Project No. 60486866		Scale at A3 1:5,000		
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Drawing Number <b>FIGURE 07.1</b>				Rev. <b>2</b>







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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Flood Response Measures**

- Flood Warning Areas
- Flood Alert Areas
- Reception Centres
- Local Plan Sites
- Stevenage Borough

**Notes**

The Environment Agency provides a free flood warning service for many areas at risk of flooding from rivers and the sea. In some parts of England the Environment Agency may be able to provide warnings when flooding from groundwater is possible. The Environment Agency free flood warning service can provide advance notice of flooding and can provide time to prepare.

The Environment Agency issues flood warnings to homes and businesses when flooding is expected. Upon receipt of a flood warning, occupants should take immediate action.

The Environment Agency issues flood alerts when flooding is possible. Flood alerts cover larger areas than flood warnings and are issued more frequently. Upon receipt of a flood alert, occupants should be prepared for flooding and to take action.

If a flood alert for groundwater is available this does not mean that your property is definitely at risk. It is very difficult to predict the exact location of flooding from groundwater as it is often related to local geology. To help people, the Environment Agency provides flood alerts for large areas that could be affected if groundwater levels were high.

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Purpose of Issue

FINAL

Client

**Stevenage**  
BOROUGH COUNCIL

Project Title

STEVENAGE BOROUGH COUNCIL  
LEVEL 2 STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

FLOOD RESPONSE MEASURES  
NORTH WEST AREA

Drawn	Checked	Approved	Date
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1:5,000

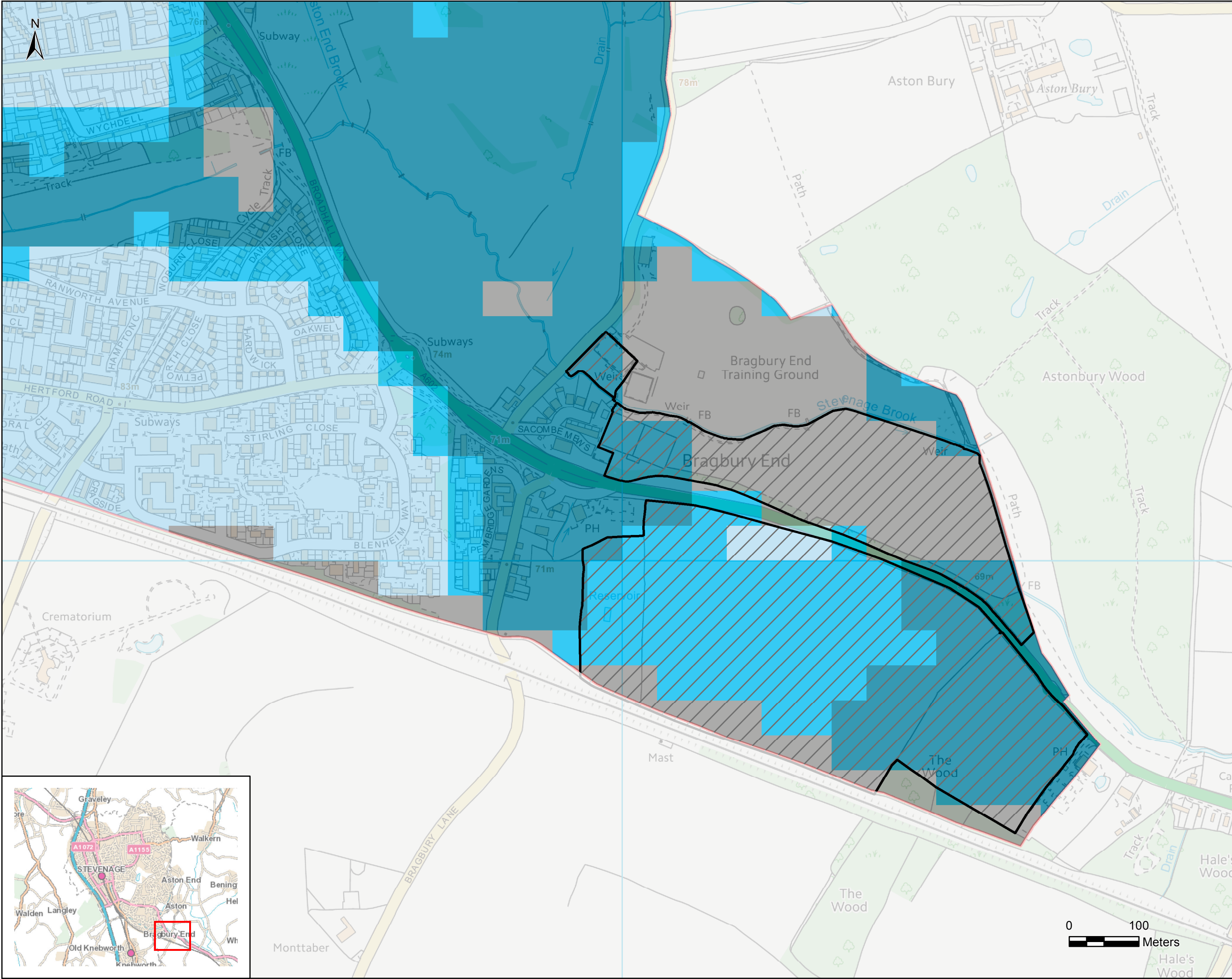
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FIGURE 07.2	2





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**LEGEND**

**BGS Infiltration SuDS Suitability Map (Detailed)**

- Highly compatible for infiltration SuDS
- Probably compatible for infiltration SuDS
- Opportunities for bespoke infiltration SuDS
- Very significant constraints are indicated

Local Plan Sites

Stevenage Borough

**Notes**

The 1:50,000 scale digital map data is generalised and the geological interpretation should be used only as a guide to the geology at a local level, not as a site-specific geological plan based on detailed site investigations.

Descriptions of each of the categories are as follows:

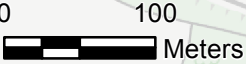
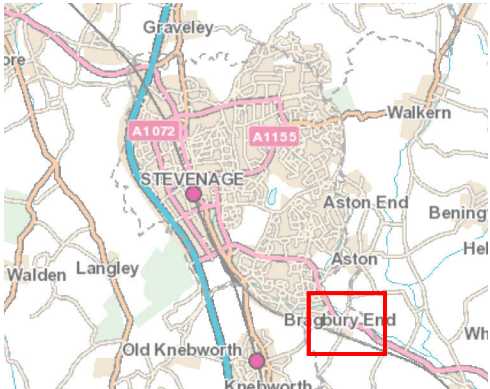
- Highly compatible for infiltration SuDS: The subsurface is likely to be suitable for free-draining infiltration SuDS.
- Probably compatible for infiltration SuDS: The subsurface is probably suitable for infiltration SuDS although the design may be influenced by the ground conditions.
- Opportunities for bespoke infiltration SuDS: The subsurface is potentially suitable for infiltration SuDS although the design will be influenced by the ground conditions.
- Very significant constraints are indicated: There is a very significant potential for one or more geohazards associated with infiltration.

A range of other types of SuDS measures can be adopted in areas where infiltration SuDS is not particularly suitable.

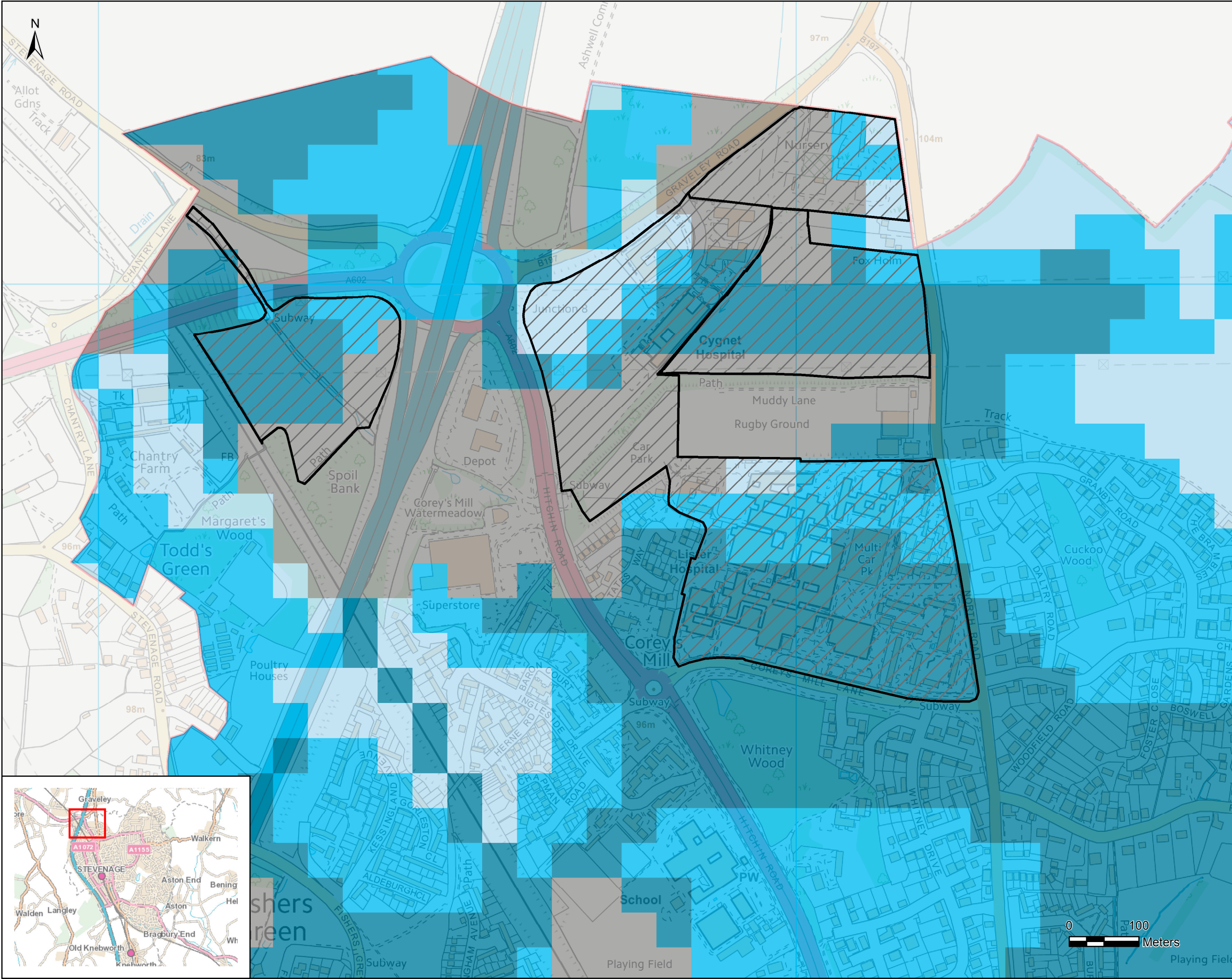
This map is intended to provide a strategic overview of infiltration SuDS suitability and should not be used to assess suitability for individual properties.

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Revision Details	By Check	Check Date	Suffix
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Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT		
Drawing Title	BGS INFILTRATION SUDS SUITABILITY MAP SOUTH EAST AREA		
Drawn	Checked	Approved	Date
LM	GB	FC	17/06/2016
AECOM Internal Project No. 60486866		Scale at A3 1:5,000	
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Drawing Number <b>FIGURE 08.1</b>			Rev. <b>2</b>







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### LEGEND

**BGS Infiltration SuDS Suitability Map (Detailed)**

- Highly compatible for infiltration SuDS
- Probably compatible for infiltration SuDS
- Opportunities for bespoke infiltration SuDS
- Very significant constraints are indicated
- Local Plan Sites
- Stevenage Borough

**Notes**

The 1:50,000 scale digital map data is generalised and the geological interpretation should be used only as a guide to the geology at a local level, not as a site-specific geological plan based on detailed site investigations.

Descriptions of each of the categories are as follows:

- Highly compatible for infiltration SuDS: The subsurface is likely to be suitable for free-draining infiltration SuDS.
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- Opportunities for bespoke infiltration SuDS: The subsurface is potentially suitable for infiltration SuDS although the design will be influenced by the ground conditions.
- Very significant constraints are indicated: There is a very significant potential for one or more geohazards associated with infiltration.

A range of other types of SuDS measures can be adopted in areas where infiltration SuDS is not particularly suitable.

This map is intended to provide a strategic overview of infiltration SuDS suitability and should not be used to assess suitability for individual properties.

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Revision Details	By	Check	Date	Suffix
Purpose of Issue	FINAL			
Client	<b>Stevenage BOROUGH COUNCIL</b>			
Project Title	STEVENAGE BOROUGH COUNCIL LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	BGS INFILTRATION SUDS SUITABILITY MAP NORTH WEST AREA			
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Drawing Number	FIGURE 08.2			Rev. 2