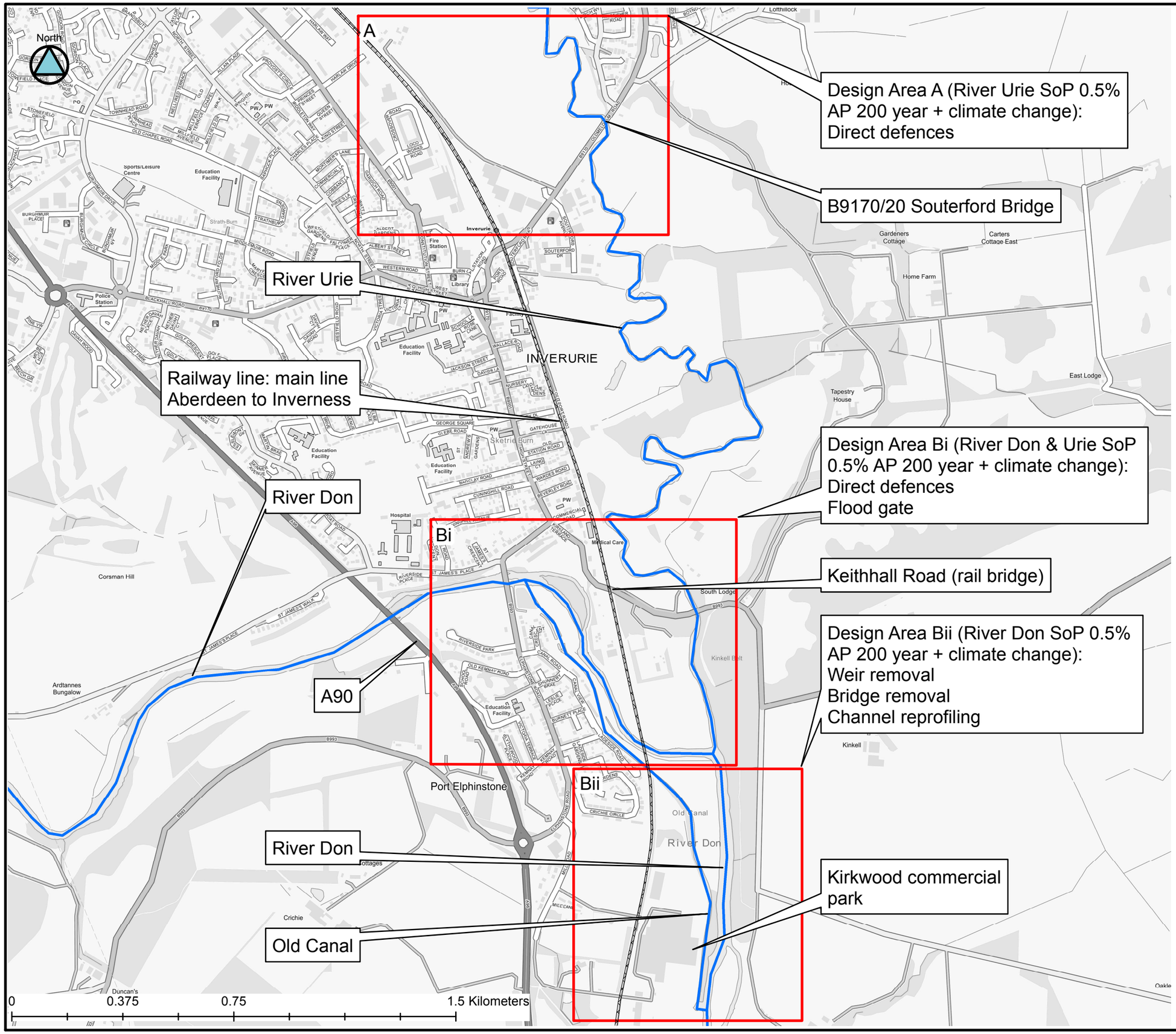
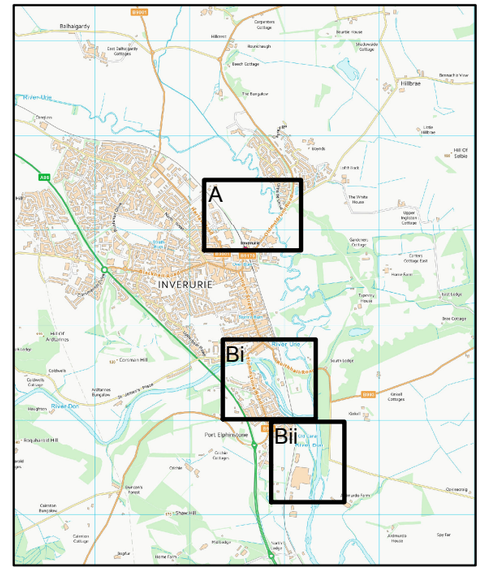


KEYPLAN Scale 1:12,500



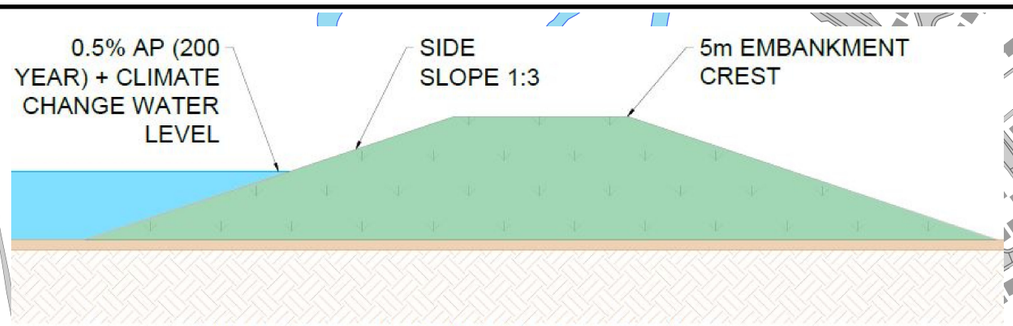
LEGEND

- Railway
- Design Area
- Watercourses

JBA consulting

Inverurie & Port Elphinstone - Final Options - Option 1
Figure 1.1 (1 of 4)
Key Plan
Drawing no: AIZ-JBAU-IK-00-DR-HM-0001

North



TYPICAL EMBANKMENT CROSS SECTION

Embankment construction:
101 m length
Maximum height 1.43 m
Inclusive of 0.6 m freeboard
defence level 56.68 mAOD
Total volume 1,237 m^3

Embankment construction:
385 m length
Maximum height 3.76 m
Inclusive of 0.6 m freeboard
defence level 56.64 mAOD
Total volume 14,888 m^3

B9170 Souterford Bridge (Oldmeldrum Road)

Road level varies between 55 - 56 mAOD therefore defence height is a maximum of 1.64 m from road level

Gauld's Gas

Harlaw Road

Railway line: main line Aberdeen to Inverness

Inverurie train station

Uryside Drive

B9170 Oldmeldrum Road

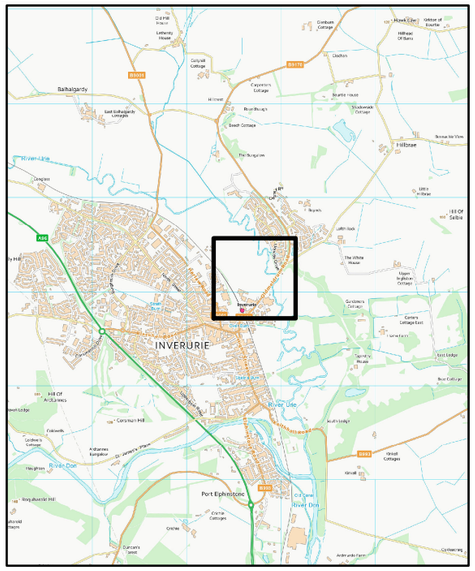
River Urie

Souterford Ave

0 0.125 0.25 0.5 Kilometers

Notes:
All embankments given 5 m crest width and 1 in 3 slopes
Cut off and piles assumed 0.5 m depth, more GI information required
Embankments and walls are inclusive of 0.6 m and 0.3 m freeboard respectively

KEYPLAN Scale 1:12,500



LEGEND

- Railway
- Embankment

JBA consulting

Inverurie & Port Elphinstone
Final Options - Option 1
Figure 1.2 (2 of 4)
Design Area A
Drawing no: AIZ-JBAU-IK-00-DR-HM-0002

North

Embankment construction:
803 m length
Average height 2.20 m
Maximum height 3.24 m
Total volume 28,655 m^3

Embankment construction:
170 m length
Average height 1.71 m
Maximum height 3.28 m
Total volume 4,833 m^3
Section at South West has been narrowed due to location of burn, steeper banks may be observed here

Remove 5,505 m^3 of existing embankment soil to allow for reconnection to floodplain

Indicative size of current football pitches, to be relocated and formalised after embankment construction

Manual flood gate across Keithhall Road at Railway Bridge 12 m wide by 2.5 m height. To be operated with existing flood warning scheme

Embankment construction:
507 m length
Average height 3.15 m
Maximum height 3.94 m
Total volume 30,408 m^3
Lowest property threshold in Riverside Park results in an embankment height of 1.72 m from average height

Embankment construction:
319 m length
Average height 1.17 m
Maximum height 2.08 m
Total volume 5,478 m^3

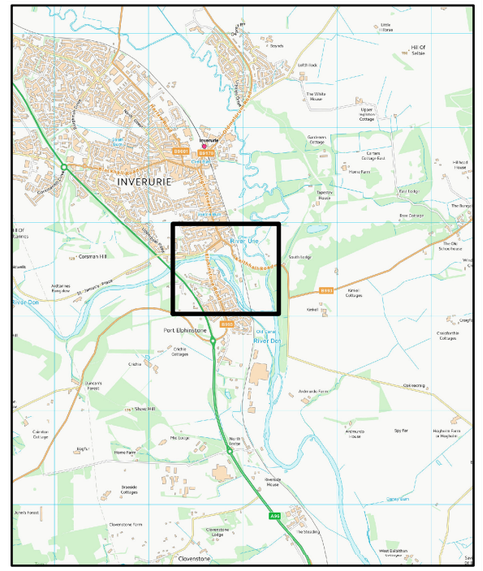
Wall construction:
232 m length
Maximum height 1.70 m
Assumed to have piled foundations

St James's Place
River Urie
River Don
B993 Keithhall Road
Railway line: main line Aberdeen to Inverness
Canal
B993 Elphinstone Road
Riverside Park
A96
Canal Road
Canal View
Scottish Water WwTW West
Scottish Water WwTW East

0 0.125 0.25 0.5 Kilometers

Notes:
All embankments given 5 m crest width and 1 in 3 slopes
Cut off and piles assumed 0.5 m depth, more GI information required
Embankments and walls are inclusive of 0.6 m and 0.3 m freeboard respectively

KEYPLAN Scale 1:12,500



LEGEND

- Proposed Flood Wall
- Existing Embankment Removal
- Proposed Flood Gate
- Railway
- Proposed Embankment

JBA consulting

Inverurie & Port Elphinstone
Final Options - Option 1
Figure 1.3 (3 of 4)
Design Area Bi
Drawing no: AIZ-JBAU-IK-00-DR-HM-0003

North

B993 Elphinstone Road

Crichie Circle

Canal

River Don

Mill Road

Railway line: main line Aberdeen to Inverness

Kirkwood Commercial Park

Footbridge removal:
8.8 m span
3 m width
likely to be a social need to replace the bridge to reconnect well used footpath

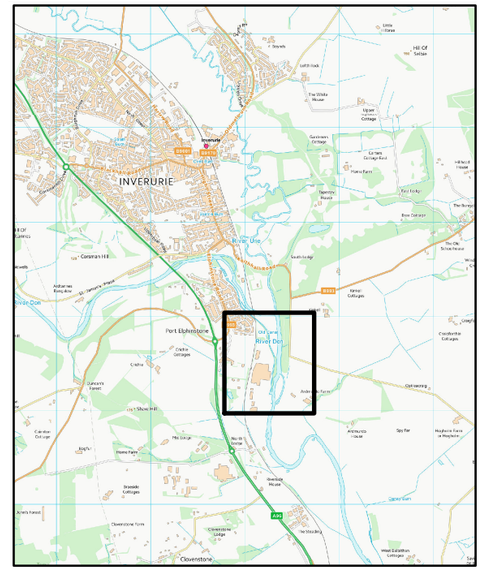
961 m of Canal to be reprofiled at a constant gradient to new outlet invert
Bank widths to remain as present. Any discarded material assumed to be waste

Weir to be removed

Outlet extended 10 m downstream

0 0.125 0.25 0.5 Kilometers

KEYPLAN Scale 1:12,500



LEGEND

- Structure Removal
- Canal Reprofile
- Railway

JBA consulting

Inverurie & Port Elphinstone
Final Options - Option 1
Figure 1.4 (4 of 4)
Design Area Bii
Drawing no: AIZ-JBAU-IK-00-DR-HM-0004