# Option 1

Footpath diversion

Tie in to high ground

Road raising

Access to be shut off and moved west

10.3m AOD x

10.2m AOD x

10.1m AOD x

10.32m AOD x

8m AOD x

x 10.4m AOD

Netham Road

Feeder Road

St Vincent's Trading Estate

River Avon

Newbridge

Whitby Road

Mardon Road

- <8.5m AOD
- >8.5m AOD
- >9m AOD
- >9.5m AOD
- >10m AOD
- >10.58m AOD
- >11.38m AOD
- Footpath
- Flood wall
- Cross-water flood gate
- Vehicular access re-routing
- High point of reprofiling

Option 2

Raise road level to 10.58mAOD from 10.2mAOD (+0.26m) to reach 2065 defence level.

Use existing high road level (>10.58m)

Check if lock gates pass beneath the bridge when opened

Raise road level to 10.58m from 10.3mAOD(+0.28m) to reach 2065 defence level.

Raise road level to 10.58mAOD from 9.3mAOD (+1.28m) to reach 2065 defence level.

x 10.2m AOD

1:45

x 10.58m AOD

9.3m AOD x

x 11.1m AOD

9.3m AOD x

1:30

x 10.58m AOD

1:80

x 10.3m AOD

Netham Road

Feeder Road

St Vincent's Trading Estate

River Avon

Newbridge

Whitby Road

Mardon Road

- <8.5m AOD
- >8.5m AOD
- >9m AOD
- >9.5m AOD
- >10m AOD
- >10.58m AOD
- >11.38m AOD
- Footpath
- Flood Wall
- Raised Lock Gates
- Proposed crest curve length - 10.58m AOD at peak
- 1:30 Maximum gradient

Option 3

Additional area protected

Use existing high road level (>10.58m)

Flood proof existing wall

Check if lock gates pass beneath the bridge when opened

Raise road level to 10.58m from 10.3mAOD(+0.28m) to reach 2065 defence level.

Raise road level to 10.58mAOD from 9.3mAOD (+1.28m) to reach 2065 defence level.

<8.5m AOD
>8.5m AOD
>9m AOD
>9.5m AOD
>10m AOD
>10.58m AOD
>11.38m AOD

Footpath
Flood Wall
Raised Lock Gates
Proposed crest curve length - 10.58m AOD at peak
1:30 Maximum gradient
Existing Wall - requires flood proofing

Option 4

Raise road level to 10.58mAOD from 10.2mAOD (+0.26m) to reach 2065 defence level.

Use existing high road level (>10.58m)

Raise road level to 10.58m from 10.3mAOD(+0.28m) to reach 2065 defence level.

Raise road level to 10.58mAOD from 9.3mAOD (+1.28m) to reach 2065 defence level.

1:45

1:30

1:80

x 10.2m AOD

x 10.58m AOD

x 10.16m AOD

x 10.58m AOD

x 10.3m AOD

Netham Road

Feeder Road

St Vincent's Trading Estate

River Avon

Whitby Road

Newbridge

Mardon Road

- <8.5m AOD
- >8.5m AOD
- >9m AOD
- >9.5m AOD
- >10m AOD
- >10.58m AOD
- >11.38m AOD
- Footpath
- Flood Wall
- Cross-water gate
- Proposed crest curve length - 10.58m AOD at peak
- 1:30 Maximum gradient

Option 5

Raise road level to 10.58mAOD from 10.2mAOD (+0.26m) to reach 2065 defence level.

Use existing high road level (>10.58m)

Raise road level to 10.58m from 10.3mAOD(+0.28m) to reach 2065 defence level.

Raise road level to 10.58mAOD from 9.3mAOD (+1.28m) to reach 2065 defence level.

x 10.2m AOD

1:45

x 10.58m AOD

1:30

x 10.58m AOD

1:80

x 10.3m AOD

8m AOD

Netham Road

Feeder Road

St Vincent's Trading Estate

River Avon

Whitby Road

Newbridge

Mardon Road

<8.5m AOD
>8.5m AOD
>9m AOD
>9.5m AOD
>10m AOD
>10.58m AOD
>11.38m AOD

Footpath
Flood Wall
Cross-water gate
Proposed crest curve length - 10.58m AOD at peak
1:30 Maximum gradient