

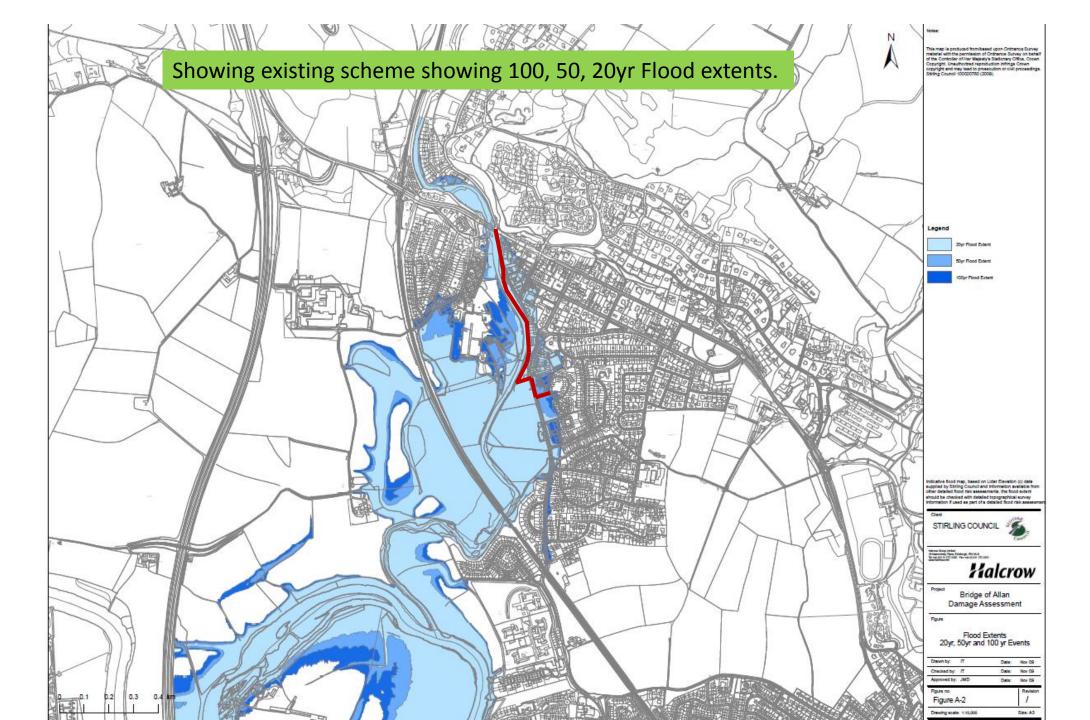


October 2007 damage risk assessment.

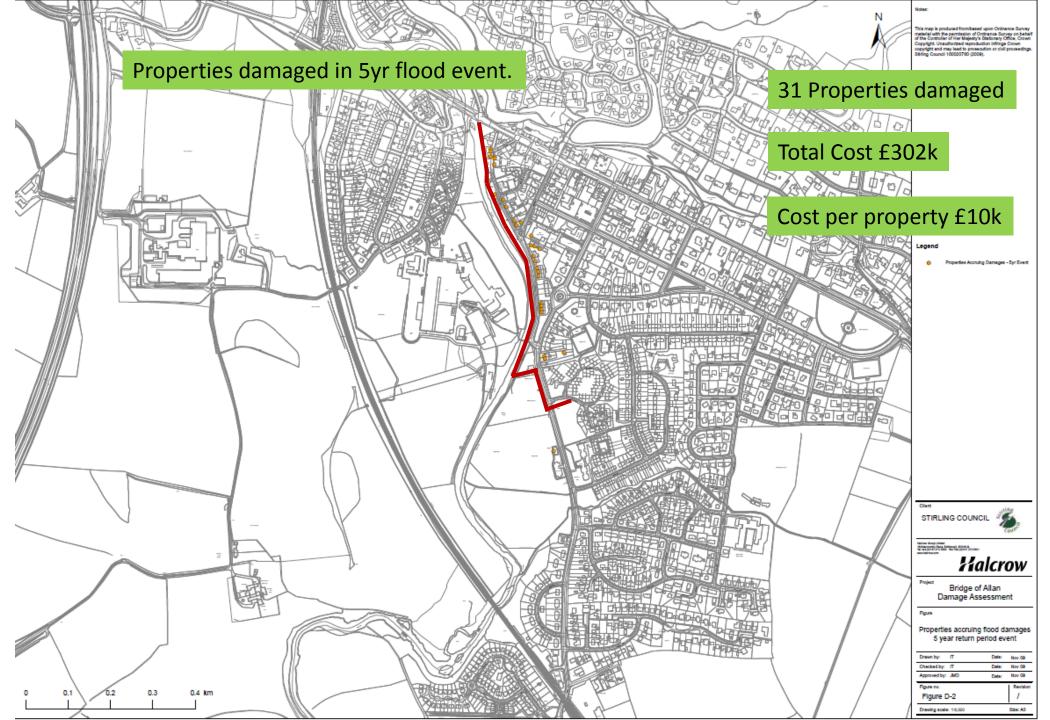


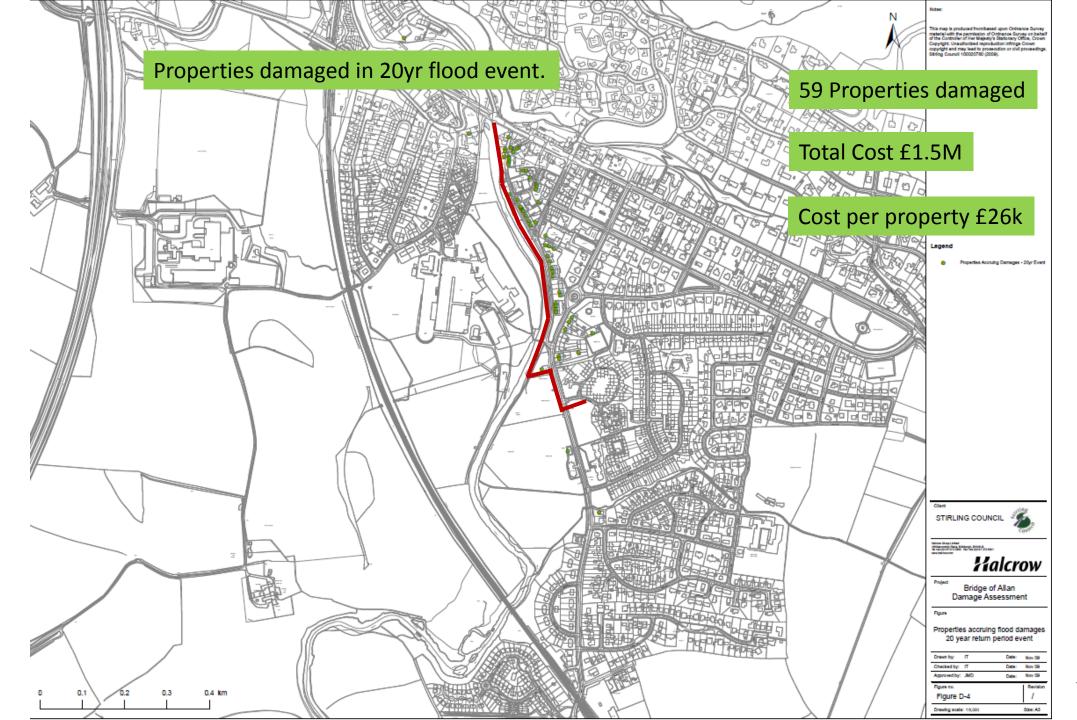
 85 Properties at risk in a 50 yr event.

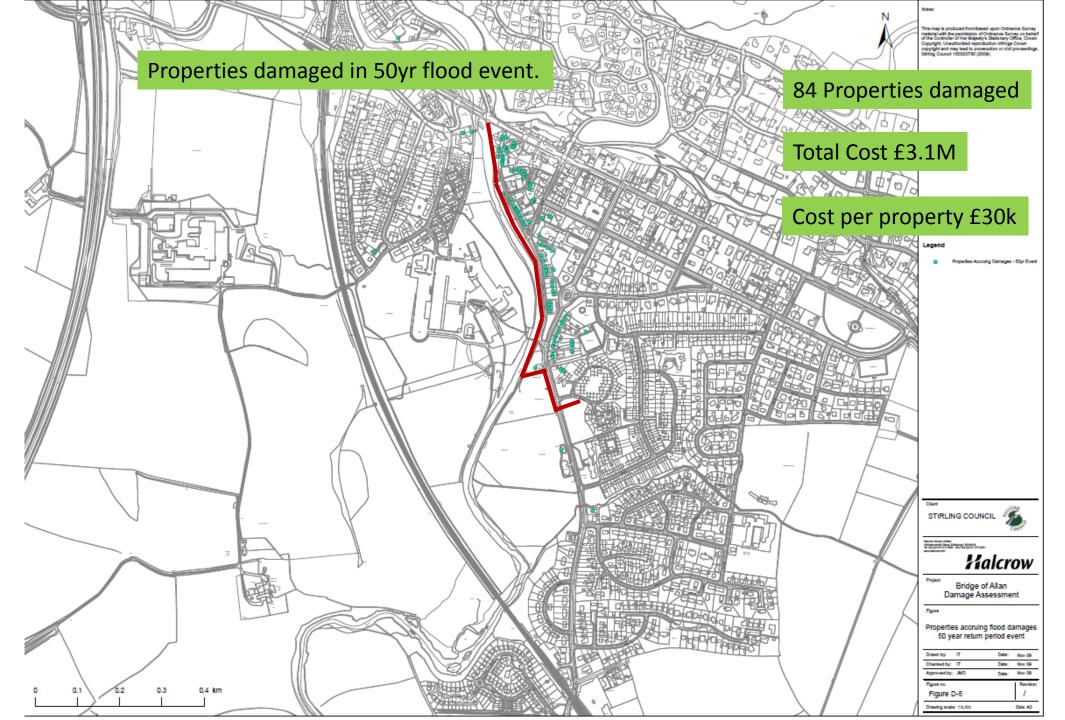
Embankment in poor condition



If there was no FPS.
A few slides showing properties
damaged as the flood events
become larger.

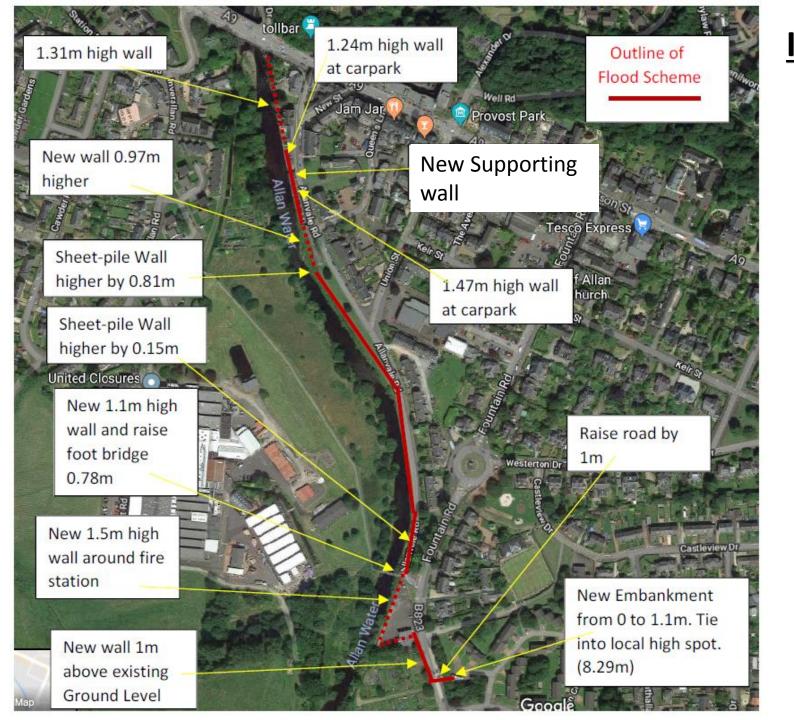






Proposed Scheme





Indicative New Scheme Details

Still some distance from outline design.

Fire Station Wall

Allotments; new 1m wall & road raised.

Future Proofing for a 1 in 100 upgrade

- 2018: limited to 1 in 50 (1 in 100)
- 1 in 100 scheme not possible as Benefit / Cost ratio less than 1.
- For proposed scheme SEPA guidelines restrict any increase in water level to only 10mm, very difficult to comply.
- 1 in 100 scheme much more expensive.

- The Future?
- Climate change likely to force upgrade to higher, longer walls.
- Political cost/benefit calculations likely to influence financial cost / benefits.

Key Areas of Interest

- Foot Bridge
- Raising Roadway Level
- Impact on Allotments
- Surface Water Back Drainage
- Implications of Stirling FPS

Foot Bridge



Options

- Raise it 780mm, requiring a long disabled access ramp.
- Remove it to assist future higher FPS.
- Move it upstream out of the way, to a better use location, need to consult community.

Raising Roadway Level



 Potential removal of roadside trees as raised road and new flood wall will require wider footprint.

Impact on Allotments & Trees



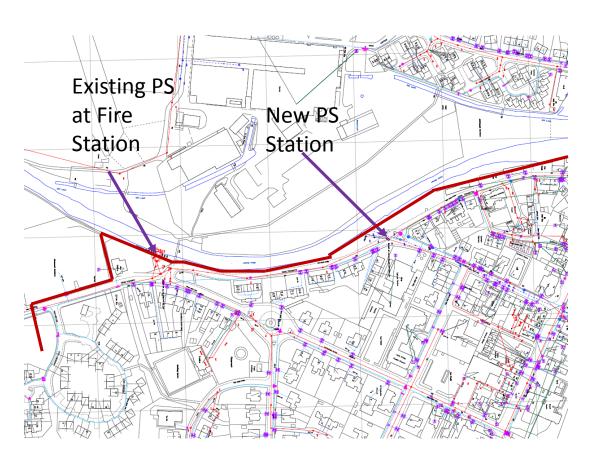
- To raise road level requires

 4m wide construction
 strip through the

 allotments.
 allotments.
 allotments
 allotments
- Consultation with plot holders to start soon.
 Temporary land take required during construction phase only.
- Potential removal of trees.



Surface Water- back drainage



- If river water levels are high rain water will be trapped on the wrong side of the FPS.
- Need for non-return valves on river outlets
- Upsized Pipe work
- New Pumping station

Implications of Stirling FPS



- Bridge of Allan is 1km u/s from the River Forth. A Stirling Scheme will increase water levels in both the Forth and Allan.
- To prevent additional flooding the B of A scheme will be constructed before the Stirling Scheme.

Any Questions