

York Flood Alleviation Scheme

September 2019

Update for September's Economy and Place Scrutiny Committee

This is an update of the progression made over the last three months on the flood alleviation work in York. In this update we have provided:

1. Summary of city wide flood alleviation activities
2. Update on each flood cell
3. Engagement plan for the next few months

Construction is under way in two of our flood cells. The North St and Memorial Gardens flood defence was the first to start construction and will be finished before the Remembrance Sunday service and parade on the 10th of November. We have also started raising the flood embankment in the grounds of St Peters School on the Left Bank of the River Ouse. This is Phase 1 of construction in this flood cell and will continue until November of this year. To minimise disruption to residents phases 2 and 3 will run in conjunction and are expected to start in spring of 2020.

The two planning application submissions that were made earlier this year, B10 – Clifton and Rawcliffe and B8 – Clementhorpe, are both still awaiting confirmation of when they will be addressed at Planning Committee. Both these schemes have attracted a number of objections and concerns and requests for further information. Both schemes are facing a delayed start to construction if approved.

The York Property Flood Resilience Scheme (PFR) is progressing well and the first two flood cells, B16 – New Walk and B8 – South Bank, have received LPRG approval. We have conducted further engagement with residents along New Walk to increase uptake of the scheme. This will now be repeated in South Bank.

We are also working toward planning application submissions for the Foss Flood Storage Area, B11 – Almerly Terrace steps and the Network Rail embankment, B12 – Marygate and Museum Gardens and C1 – Bishopthorpe. We anticipate submitting these requests this Autumn.

1. Update on progress of each flood cell

This section provides an update on each of the areas (flood cells) being taken forward as part of York Flood Alleviation Scheme.

Flood Cell	Detail	Current/Next Activity
B4 – Scarborough Bridge to Ouse Bridge (Right Bank)	<p>Construction work has now started fully on site.</p> <ul style="list-style-type: none"> • We are increasing the height of the Lendal Bridge flood gate (by 300mm) and existing flood walls and flood gates at North Street gardens (by 380mm). This work includes widening of the flood gate adjacent to the Hub. • Planning permission has been granted for a new flood wall which will be constructed around Memorial Gardens with demountable defences and a small embankment to tie it into the existing line of defence. • The road between Westgate Apartments and the Post Office building will continue to be sandbagged in a flood event. <p>This scheme will better protect 39 properties.</p>	<ul style="list-style-type: none"> • The FBC was approved by LPRG in April. • Where the defence is temporarily compromised due to the construction work, there are sufficient sand bags on site to reinstate the flood defence to its original height should the need arise. • Night-time working has been confirmed for the summer holiday period to avoid having to close the road during the day. A newsletter is being written to inform the community.
B7 - Queen's Staith and Skeldergate	<p>PFR has been identified as the most technically viable option from the appraisal for B7. There are a number of issues in the flood cell including seepage under and around existing buildings, Yorkshire Water assets running the length of the cell which could become a conduit for flood waters to bypass defences and structural suitability of buildings to form part of the defence line. A number of assumptions have been made regarding these issues particularly with regards to seepage, causing City of York Council to request that we investigate further.</p>	<ul style="list-style-type: none"> • Ongoing modelling/investigation into flooding flow routes/seepage. • Ongoing review of technical note to gather a second opinion on the options and construction feasibility of a scheme.

<p>B8 - Clementhorpe and South Bank</p>	<p>Clementhorpe – our proposal is as follows</p> <ul style="list-style-type: none"> • Raising of the 4 corners of the boundary wall at Postern Close and Postern House. • 1.85m bi-fold flood gate on Clementhorpe. • New 1.85m flood wall in front of Waterfront House with glass panel inserts and structural glass. An extra step will be added to the existing steps between Waterfront House and Dukes Wharf. • Road raising and extension to existing wall at Dukes Wharf. • Lower Ebor Street flood wall has been raised by Roomzzz and an extension will be completed by Roomzzz on our behalf to the north corner of the site • Increase the height of existing flood wall at the Caravan Park by 0.3m and embankments by raising with piles and wall (by 0.4m) and build a new embankment to the rear of the site. The road access by Vine Street will be raised by 0.4m. • Anne Street/Rowntree Park entrance: Curb raising to follow existing fence line around the top side of the park. Shallow embankment of 0.3m with a new pedestrian access ramp. <p>This scheme will better protect 148 properties.</p>	<ul style="list-style-type: none"> • Planning application was submitted on Thursday 21th March. Expect to be called to Planning Committee TBC. • Ongoing public engagement to inform of constraints and difficulties in this area and gather local knowledge and suggestions for alternative solutions.
	<p>South Bank</p> <ul style="list-style-type: none"> • PFR has been determined as the preferred option for the South Bank section of Flood Cell B8. The appraisal did not identify any economically viable options for the South Bank and as such PFR has been offered as mitigation to the small potential increase in risk caused by our works upstream on the River Ouse and improvement works at the Foss Barrier. 	<p>South Bank is currently at stage 2 in the PFR process, Letters were sent to all properties in December 2018 requesting residents to confirm their inclusion in the York FAS. Only 32% of residents have responded so far.</p> <p>Next steps:</p> <ul style="list-style-type: none"> • Improve public perception of PFR including examples of where this option has worked – potential to share experiences with other residents. • Improve sign up for the initial surveys – door knocking planned for Aug/Sep 2019.
<p>B9 - Fulford</p>	<p>Flood defence work in this cell will be delivered by CYC in partnership with EA.</p>	<p>Support CYC to deliver flood defence in this cell</p>
<p>B10 - Clifton & Rawcliffe</p>	<p>We have submitted planning application to raise and extend the existing Clifton Ings Barrier Bank and install a permanent pumping station at Blue Beck. This will better protect 140 properties.</p> <p>Due to concerns and information requests this application is expected to go to planning committee in Aug. If CYC are to approve the application, it is expected that it will first need to undergo assessment by the Department of Homes and Communities and could be escalated to the Secretary of State.</p>	<p>We have responded to Natural England and CYC Ecologists and are awaiting further response. Expect planning application to go to the August planning committee.</p>

<p>B11 - Coppins Farm to Scarborough Bridge (Left Bank)</p>	<p>Construction work has now started in St Peters School fields.</p> <p>Within this cell, we are proposing:</p> <ul style="list-style-type: none"> • Raise the existing embankment on the right bank of the River Ouse, in the grounds of St Peter’s School, linking it to a new flood wall on the north eastern side of the school grounds. • Raise the existing flood wall and gates using glass panels at Almerly Terrace and, at the same time, carry out matching works to the flood wall at Earlsborough Terrace (B12). • Offer Property Flood Resilience improvements to three properties on Government House Road. • Raise the clay cover on the Network Rain embankment. <p>This scheme will better protect 156 properties.</p>	<ul style="list-style-type: none"> • FBC has been approved by LPRG. • The wall raising on Almerly Terrace has been postponed until Spring 2020 to align with the work on the Rail embankment. This will minimise disruption to residents and users of the riverside path. • Planning application submission expected Sep 2019. • A separate Burdyke modelling study by Aecom has started so that we can fully understand the cause of flooding from this tributary. There continues to be outstanding data from Yorkshire Water which is being chased and escalated.
<p>B12 - Scarborough Bridge to Lendal Bridge (Left Bank)</p>	<p>Within this cell, we are proposing to:</p> <ul style="list-style-type: none"> • Raise the flood wall along Earlsborough Terrace by 30 centimetres with glass panels and, at the same time, carry out matching works to the flood wall at Almerly Terrace (B11). • Increase the height of the floodgate on Marygate. • Raise the embankment in Museum Gardens. • Formalise the property flood resilient measures at Lendal Tower. <p>This scheme will better protect 57 properties.</p>	<ul style="list-style-type: none"> • FBC has been approved by LPRG. • Planning application submission expected Sep 2019. • We are planning to start mobilisation in Sep 2019, however the work on the embankment through Museum gardens is not due to start until June 2021.
<p>B15 - King's Staith to Skeldergate Bridge</p>	<p>PFR has been determined as the preferred option for this flood cell, the appraisal determined PFR as the most technically and economically viable option.</p>	<ul style="list-style-type: none"> • Further investigations required to ascertain seepage and therefore effectiveness of PFR in this location • No community engagement has taken place for this flood cell yet.

B16 - New Walk	PFR has been determined as the preferred option for this flood cell, the appraisal did not identify any economically viable options for B16, including PFR. However, PFR has been offered as mitigation to the small potential increase in risk caused by our works upstream on the River Ouse and improvement works at the Foss Barrier.	New Walk is currently at stage 3 in the PFR process, Resilience surveys have been completed for all properties. These were completed, in February 2018, by JBA Consulting prior to the publication of the new PFR Framework. All residents received their reports, in April 2018, and had an opportunity to provide feedback Residents have been well informed in this flood cell, with high levels of community and individual engagement/communication. We have requested residents to confirm their inclusion in the scheme and to date have received responses from 63% of residents. Next steps: <ul style="list-style-type: none"> • Confirm final properties for inclusion in the scheme – door knocking tool place on 23rd of July 2019. • Measurement surveys to be carried out once supplier appointed
C1 - Bishopthorpe	To reduce the risk of flooding to over 100 properties in this flood cell, we propose to: <ul style="list-style-type: none"> • Raise and extend the existing wall on the border of the Dell and Chantry Lane which will include a 7 metre deep cut off. • Install a new penstock on the Yorkshire water asset. • Build a new flood gate and flood wall at the top of Chantry Lane. 	Once our detailed designs are firmed up, we intend to consult wider with the residents of the village, to explain and gain support for the proposals.
C2 - Acaster Malbis	PFR has been determined as the preferred option for this flood cell, the appraisal determined PFR as the most technically and economically viable option.	No community engagement has taken place for this flood cell yet.
C3 - Naburn	We are currently reviewing options to reduce the risk of flooding to properties in this flood cell. Designs are not complete and a preferred option has not been agreed.	Further economic appraisal required.
Foss barrier	In addition to the extensive upgrade to the pumping station we are upgrading the barrier gate and need to address raising the flood walls around St Georges Field Car Park. My Castle Gateway are proposing a new Multi Storey Car Park on this site and are submitting plans which includes a raised access road to maintain access during a flood event.	We are in continual engagement with the Castle Gateway design team to help ensure their proposals are compatible with construction within a functional flood plan.

F4/F5 - Tang Hall Beck and Osbaldwick Beck	<p>Within this cell, we propose to:</p> <ul style="list-style-type: none"> • Reinforce the walls and raise the existing access ramp to the James Street Traveller site. • Increase the flood flow capacity through the St Nicks site by creating a new channel. • Install low level flow routing methods to divert flows away from at risk properties. • Install a new culvert under Melrosegate. <p>This scheme will better protect 263 properties.</p>	CCTV and Topo Survey Contractor has been appointed with ground investigation currently underway.
F9 - South Beck	Flow routing options and low level walls have been discounted in this flood cell as they will not provide the required flood protection.	Ongoing review and appraisals, however it would appear at this stage that a scheme is unlikely to be viable and hence proceed in this cell.
F8 - Groves to Haley's Terrace F10 - Haley's Terrace to Link Road F11 - Link Road to Ring Road	To provide flood defence to 300 properties along the Foss we are proposing an online Flood Storage Area 2km north-east of Strensall, between Walbutts Farm and East Liling Grange Farm. Flood Storage Areas help to reduce flood levels downstream by temporarily holding back flood water.	We expect to submit a joint planning application to CYC and Ryedale in Sep 2019
F12 - Westfield Beck	Further appraisal work is ongoing to agree a way forward in this flood cell. We are in discussions with Yorkshire Water regarding their infrastructure and surface water models and City of York Council regarding surface water flooding.	Ongoing review and appraisals. Formal request submitted to Yorkshire Water to share their surface water modelling data. We are still waiting for this data from Yorkshire Water.

2. Engagement plan for the next few months

This is a dynamic engagement plan for the York Flood Alleviation Scheme. Please note that specified dates and time periods are subject to change as the scheme progresses. Alongside cell-specific engagement activities, we will also be engaging via a quarterly newsletter and by providing information at our Community Flood Hub which is situated on Wellington Row and open 10am to 4pm Mon, Wed and Thurs.

Hub displays

	Aug	Sep	Oct	Nov	Dec	Jan
Planning/construction information	B12 Planning	C1 Planning FSA Planning	C1 Planning FSA Planning	PFR	PFR	F4/F5
Other display	Habitats	Natural Flood Management	Nature Matters	Flood defences	Climate change	Resilient Gardens

Planned activities

July 2019		
Foss Cells	From 1st July	Presentations to landowners to explain modelled land drainage
Lower Bootham and Marygate	12 July	Public drop-in event for local residents and frequent users of the riverside path to update on project timescales and plans.
Clementhorpe	15 July	Attendance at Counillor led public meeting to present current options and engage with local community.
CYC	23 July	Attendance at CYC CastleGateway Advisory Group meeting
RFCC	25 July	Attendance at the Quartely Yorkshire Regional Flood and Coastal Committee meeting
August 2019		
Foss Barrier	5th Aug	Testing of the Foss Barrier gate
Museum Gardens	all month	Display boards in the Hub and at Museum Gardens to inform of planned work
September 2019		
Quarterly City Wide Newsletter sent out to mailing list, available at the Hub and on Citizen Space		
CYC/Statutory Bodies	2 Sept	CYC Executive Decision Session
	TBC	CYC Scrutiny Committee
	25-Sep	Quarterly York FAS Advisory Group Meeting at Foss House
NYFRP	4 Sep	Quarterly North Yorkshire Flood Risk Partnership Meeting at CYC West Offices
Coppins Farm to Scarborough Bridge	9 Sep	mid-phase Newsletter sent out to mailing list, available at the Hub and on Citizen Space

Foss FSA	w/c 9 Sep	Engage with Cllrs and Parish councils
Foss FSA	w/c 9 Sep	Engage with residents who are eligible for PFR
PFR	w/c 17 Sep	Engage with residents in flood cells B7 and B15 who are eligible for PFR
Foss FSA	w/c 23 Sep	Public drop-in event for local community to inform of planned work
Clementhorpe	TBC	Public drop-in/workshop to engage with cyclist and walkers around access and diversions
October 2019		
Coppins Farm to Scarborough Bridge	TBC	Newsletter to announce Phase 1 completion/Phase 2 start for B11 scheme
Bishopthorpe	w/c 21 Oct	Community Engagement
November 2019		
City Wide	w/c 11 Nov	York Business Week
December 2019		
Quarterly City Wide Newsletter sent out to mailing list, available at the Hub and on Citizen Space		
CYC/Statutory Bodies	16 Dec	CYC Executive Decision Session
	18-Dec	Quarterly York FAS Advisory Group Meeting at Foss House
Foss Barrier	w/c 2 Dec	Planned replacement of new gate and bridge
Foss FSA	w/c 2 Dec	Public engagement to inform of construction plans

We continue to engage across York.

The Hub provides residents with a central location where they can come to ask questions about our work, view plans, and provide feedback. The opening times are 10:00 to 16:00 on Monday, Wednesday and Thursday each week.

- Our quarterly newsletter, next due September 2019.
- Quarterly meetings of a stakeholder Advisory Group, with representatives of key CYC departments, statutory bodies and influential local groups.
- Letter drops and press releases notifying of potentially disruptive works e.g. GI, survey work.
- Regular updates to the dedicated York FAS facebook page and through the Environment Agency Yorkshire twitter feed.

Citizen Space – an online portal that allows residents to view all engagement material and provide feedback.
(<https://consult.environment-agency.gov.uk/yorkshire/yorkfas/>)