

LDV Flood Defence Project – Summary of Works (28/11/2014)

The two downloadable maps available on the webpage show the location of planned works which form part of the Lower Don Valley Flood Defence Project. Detailed plans of each intervention have been designed, detailing the size and nature of the planned works.

Site preparation and construction are due to start on site in January / February 2015 for a period of approximately 20 months, and are planned in six phases. Further detail is available on each below:

1. Nursery Street Flood Defence Works

- The existing 'temporary' left bank river wall on Nursery Street will be replaced by a raised permanent structure to meet the higher design standard targeted throughout the LDV in this new programme of works. The ramp and adjacent walls to the riverside park will similarly be raised by the height of a couple of brick courses. The existing flood gate will be replaced. Some sections of existing wall will be repointed.
- The existing right bank river wall near the offices and apartments at Millsands will be raised by just a couple of brick courses.

2. Wicker to Attercliffe Road Flood Defence Works

- Rebuilding a fifteen meter section of the left bank wall immediately downstream of Wicker viaduct and remaining sections of river wall to be repointed, with holes infilled and culverts checked.
- A temporary flood barrier will be built across the yard of the Savile Street Saw Mill, connecting the river wall to Saville House. A flood gate will be installed to provide ongoing access off the road.
- Snow gates at Effingham Street will be enclosed and sealed, and section of surrounding river wall repointed
- A new wall will be constructed on top of the right bank river wall at TSL Turton Car Park on Foley Street, incorporating valves to allow for drainage of any surface flood water. The wall will also be repointed and any openings will be in-filled.
- A new wall will be constructed through Auto Repair's rear yard on Attercliffe Road, and the existing flood gate on the Five Weirs Walk will be refurbished to ensure that it is water tight.
- Windows and doors on commercial properties on Warren Street will be replaced with flood-resistant units. The access ramp to the Five Weirs Walk will be raised at this location, and walls along this stretch will be repointed where necessary.

3. Attercliffe Road to Sandersons Weir Flood Defence Works

- The right bank river wall at Doors and Floors Galore, immediately downstream of Washford Bridge, will be repointed.
- A new river wall over 13 metres will be constructed with existing sections repointed on the river bank by Tesco and Solpro Group on Windsor Street. Existing sections will also be repointed.
- A new dam with stone cladding will be constructed across Sandersons Goyt, beneath the railway viaduct. The flood defence improvements will also open up pedestrian access to Sandersons Weir as an improved amenity area. A feasibility study has

been commissioned to assess the potential to install a fishpass at Sanderson's Weir. This work is crucial given that the weir is listed and every effort is being made to preserve the heritage along the River Don wherever possible. Investigations are also being undertaken to manage the build up of sediment within shoals and assess the level of erosion protection they can provide.

4. Newhall Bridge to Meadowhall Way Flood Defence Works

- A new wall is to be built in the grass verge to rear of the Five Weirs Walk from Synergy through Lovell and Speedy to Forgemasters. A ramp will be installed on the pedestrian path between Don Road and the Five Weirs Walk.
- A new and raised wall will be constructed along the line of the left bank river wall at Forgemasters from the Five Weirs Walk footbridge past the old Abyssinia Road Bridge.
- Flood gates will be installed at bridges internal to Forgemasters site to allow ongoing pedestrian and vehicular access, minor repointing and raising of associated walls will be carried out, and penstocks will be upgraded
- A redundant service bridge between Forgemasters on the left bank and Firth Rixson on the right bank will be removed. A new concrete wall will be constructed at Firth Rixson.
- A new bund is to be built at the top of the landscaped embankment above the Five Weirs Walk on the right bank between Brightside Weir and Brightside Bridge at Weedon Street. The footpath itself will be raised on the approach to Weedon Street, with the river wall rebuilt and a new flood gate providing access to the service bridge.
- A new wall will also be constructed on the left bank at Jessop Riverside approaching Brightside Bridge. The bridge parapets themselves will be upgraded, and raised river bank walls on both side of the river downstream of the bridge will also be built to meet the railway viaduct.
- A reinforced concrete channel will be constructed on the bed of the Bagley Dyke to protect the building wall which acts as a flood defence. Railway arches at Riley's Tools will be infilled with a flood defence wall, while a new wall will be built at the carpark and around the substation downstream with a flood gate retaining access to the river.
- A new 2m high earthwork bund is to be formed in the gap in the existing railway embankment.

5. Meadowhall Road Flood Defence Works

- The existing wall and railings along the left bank of the river on Meadowhall Road will be replaced with a new continuous and raised wall. Flood defence windows may be included to retain a visual connection to the river, if the budget allows it.
- New flood gates will be installed at the upstream service access road, and at the pedestrian bridge to the Meadowhall centre.

6. Blackburn Brook Flood Defence Works

- A new flood wall will be constructed where the Brook exits the culvert beneath the entrance road to Firth Rixson on Meadowhall Road (approaching M1 J34N). This will extend around to meet the railway embankment beside the highway.
- Defences required at the open section of river running through the Firth Rixson site.