Copley

Flood Alleviation Scheme (FAS)

The Environment Agency is working with Calderdale Council to design and construct a Flood Alleviation Scheme to improve resilience to flooding in Copley.

The scheme includes:

- Improvements to the existing flood defence that surrounds the village.
- Work at the cricket pitch to speed up the rate of drainage.
- Solutions to manage and reduce surface water flood risk.

Environment Agency

ARUP

bam nuttall

Calderdale Council

Flood History

Flooding at Copley occurs due to overtopping of the embankment on the left bank of the River Calder. Water also seeps through the railway embankment from the cricket field (this is an informal flood storage area) and some flooding can occur from the canal overtopping.

Copley Village has a history of flooding, with the most severe incidents occurring on Boxing Day 2015, June 2012 and January 2008. During the flooding in 2015, Copley Bridge, which connects the main village with St. Stephen's Church, was severely damaged and had to be demolished and rebuilt.

Environment Agency ARUP bam nuttall Calderdale Council

Embankment Sheet Piling

We are now in a position where we can progress with the first stage of the project which involves work to the embankment that separates the River Calder from Copley.

The construction works will consist of sheet piling along the length of the existing embankment. The sheet piles will eliminate seepage and reduce the risk of future erosion or breach of the flood defence.

Environment Agency ARUP bam nuttall Calderdale Council

Surface water management and cricket pitch drainage

Further investigation and appraisal work is ongoing to confirm designs for the remainder of the scheme.

This will include options to manage and reduce surface water entering Copley village.

A design for improved drainage at Copley Cricket Club is also being developed to reduce the risk of water seeping through the railway embankment towards St Stephens Street.

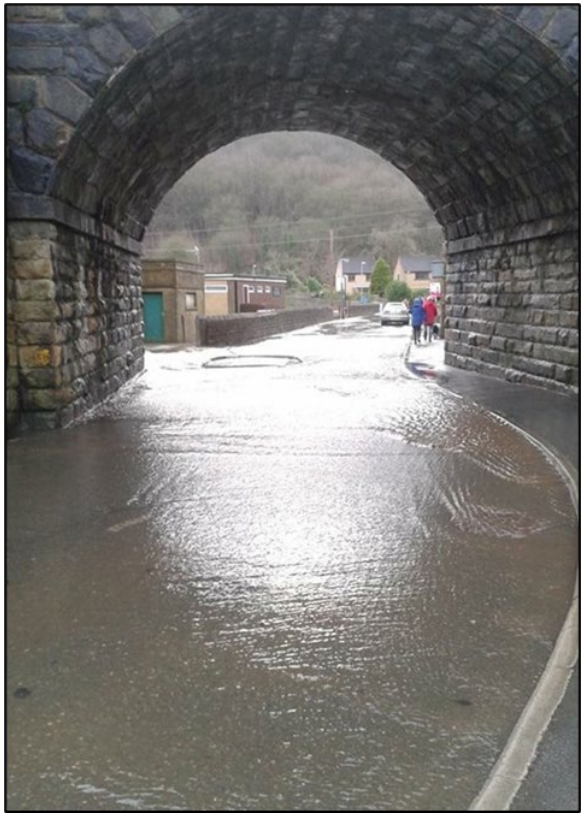
Environment Agency ARUP bam nuttall Calderdale Council

Flood History

St Stephens Street flooding

Flooding at Copley Lane / Calder Terrace

Flood History



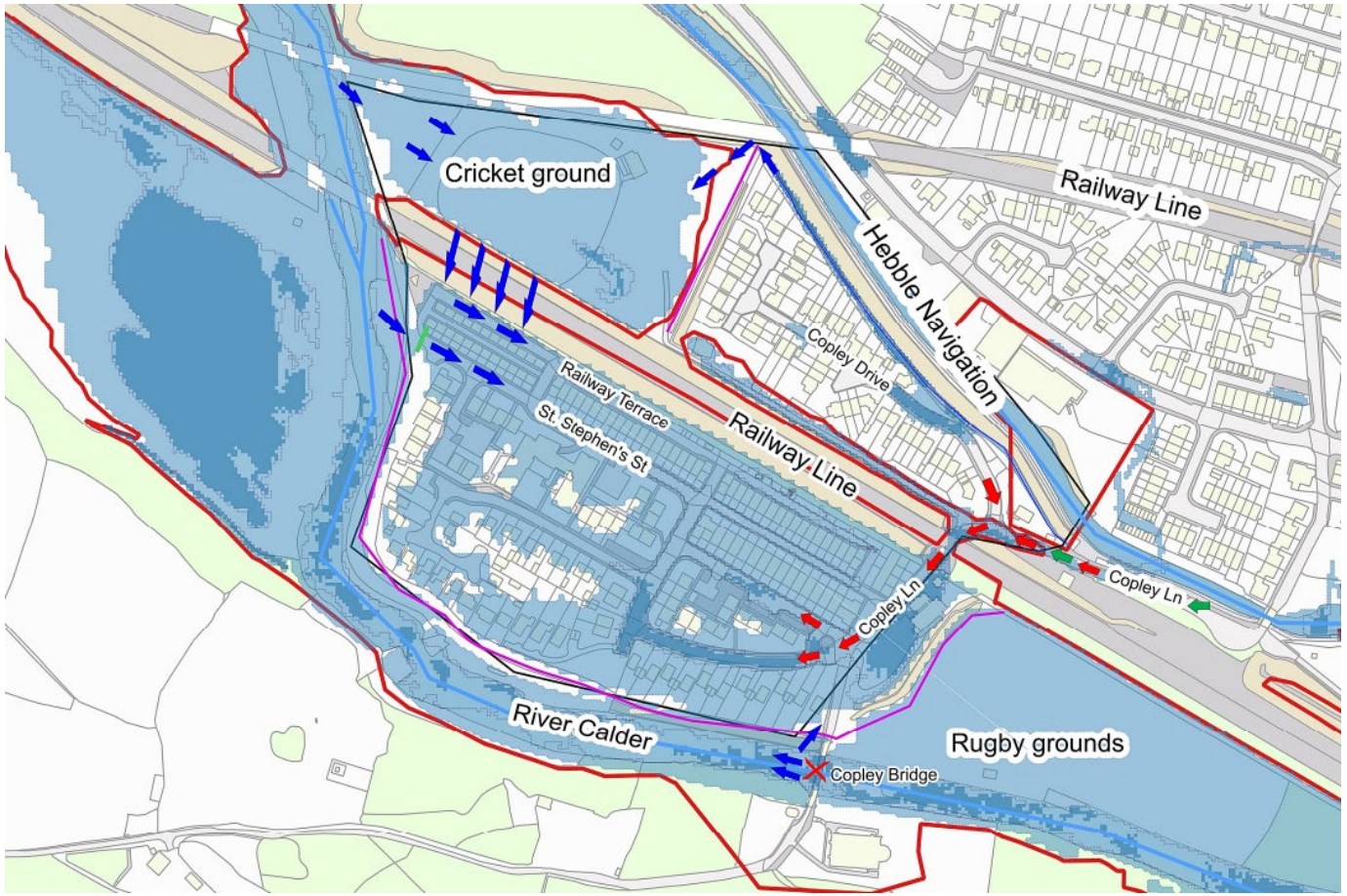
Water from canal flowing down Copley Lane.

Mill Structure

Work to Date

Emergency works were undertaken in February 2021 to raise a low spot at St Stephen's street. This work involved building up the height of the existing wall to match the heights of the embankment on either side of it.

Flood mechanisms



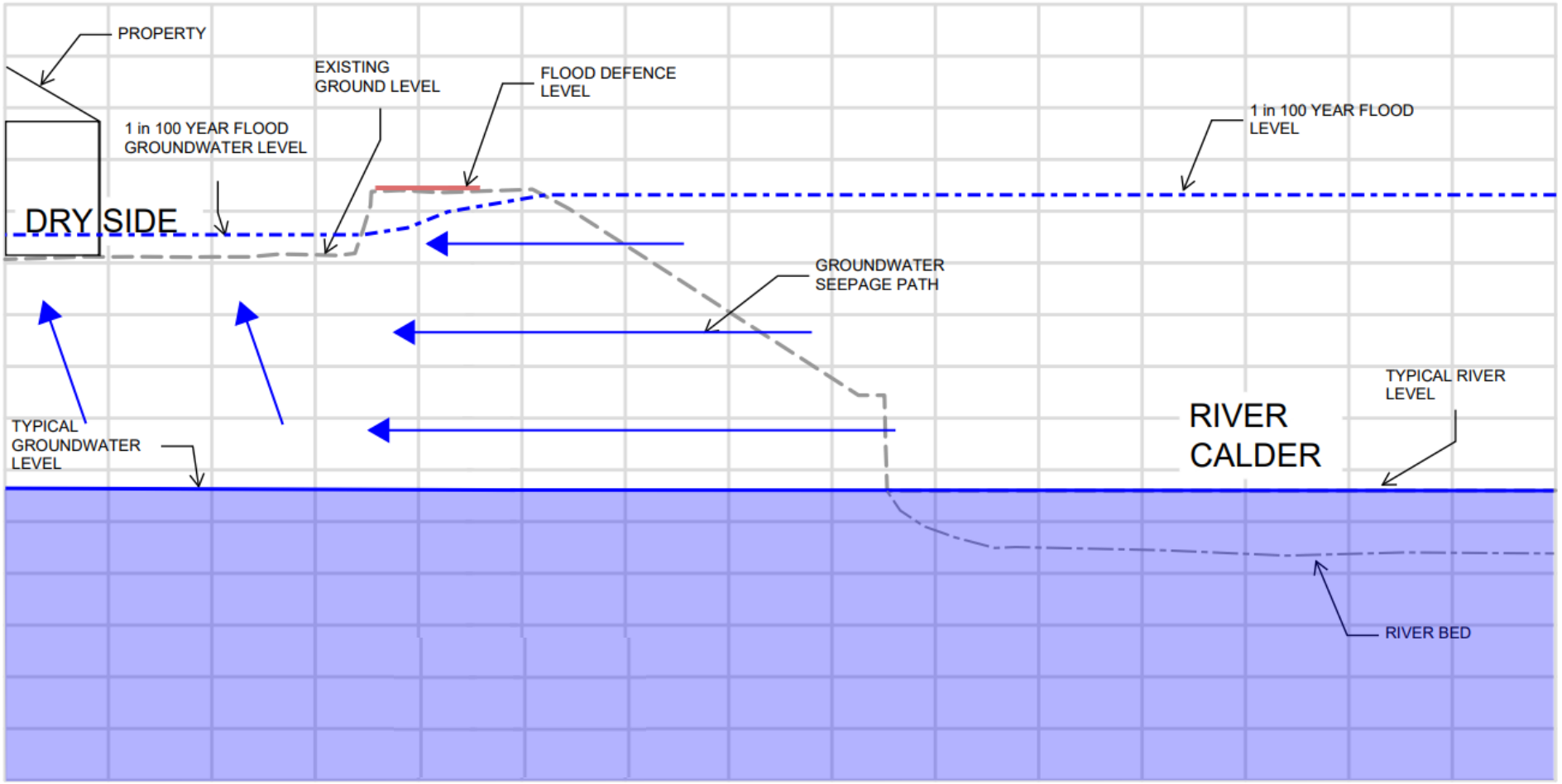
Legend

- Study area
- Dec 2015 flood extent
- Watercourse
- uFMfSW 1in30
- Combined uFMfSW 1in100 and Flood Zone 3
- Flood embankment
- Floodwall
- Structure no longer in place
- Surface Water Flow Route
- Fluvial Flow Route
- Canal Flow Route

Project No	Date
CS091218	01/06/17
Drawing Identifier	Revision
ENV0000660C-CAP-00-11-DR-LD-B1500_11-P01	P01

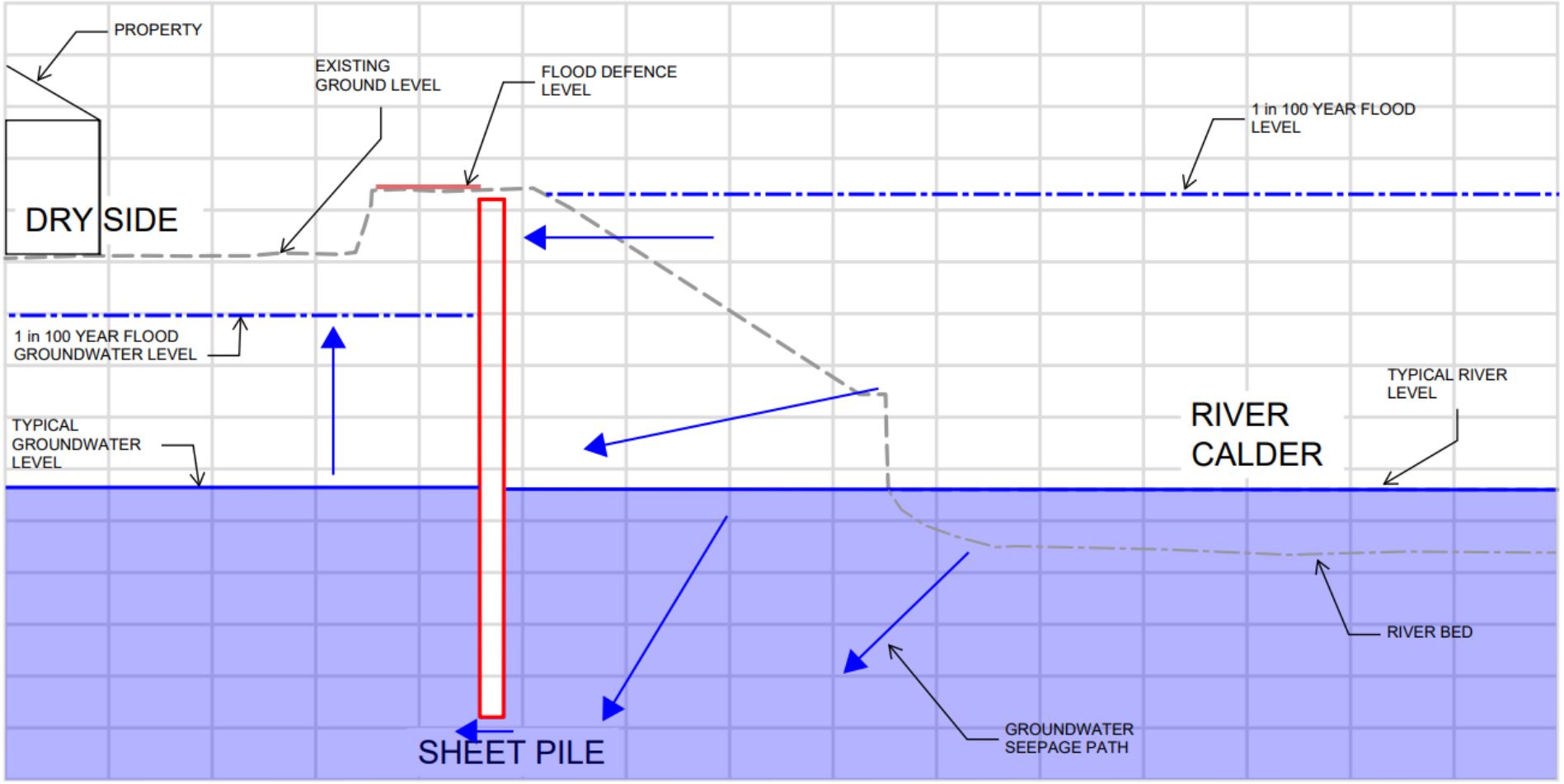
CAPITA | AECOM
Real Estate and Infrastructure

WITHOUT SHEET PILE FLOOD DEFENCE



Environment Agency

WITH SHEET PILE FLOOD DEFENCE



Environment Agency