Background, Project Timeline, Key Milestones and Standard of Protection

Background to the Study

Flood risk to Portarlington and the surroundings with possible mitigation measures were assessed in detail as part of the South Eastern Catchment Flood Risk Assessment and Management Study (South Eastern CFRAM Study). The results of the CFRAM study were used to develop a strategy and set cost-effective measures for the long-term management of flood risk along the River Barrow as set out in the Barrow Flood Risk Management Plan (FRMP) (Office of Public Works, 2017).

In August 2020, Binnies UK Limited (Binnies) and Nicholas O'Dwyer Limited (NOD) Joint Venture were commissioned to carry out the Portarlington Flood Relief Scheme (FRS) by Laois County Council (LCC), working in partnership with the OPW.

Project Timeline and Key Milestones

TIMELINE OF SCHEME PROGRAMME																		
ACTIVITY	2020		2021		2022		2023		2024		2025		2026		2027		2028	
Stage I - Scheme Development and Design																		
Stage II - Planning Process																		
Stage III - Detailed Construction Design and Tender																		
Stage IV - Construction																		
Stage V - Handover																		

Project Objectives

The objective of this project is the identification,

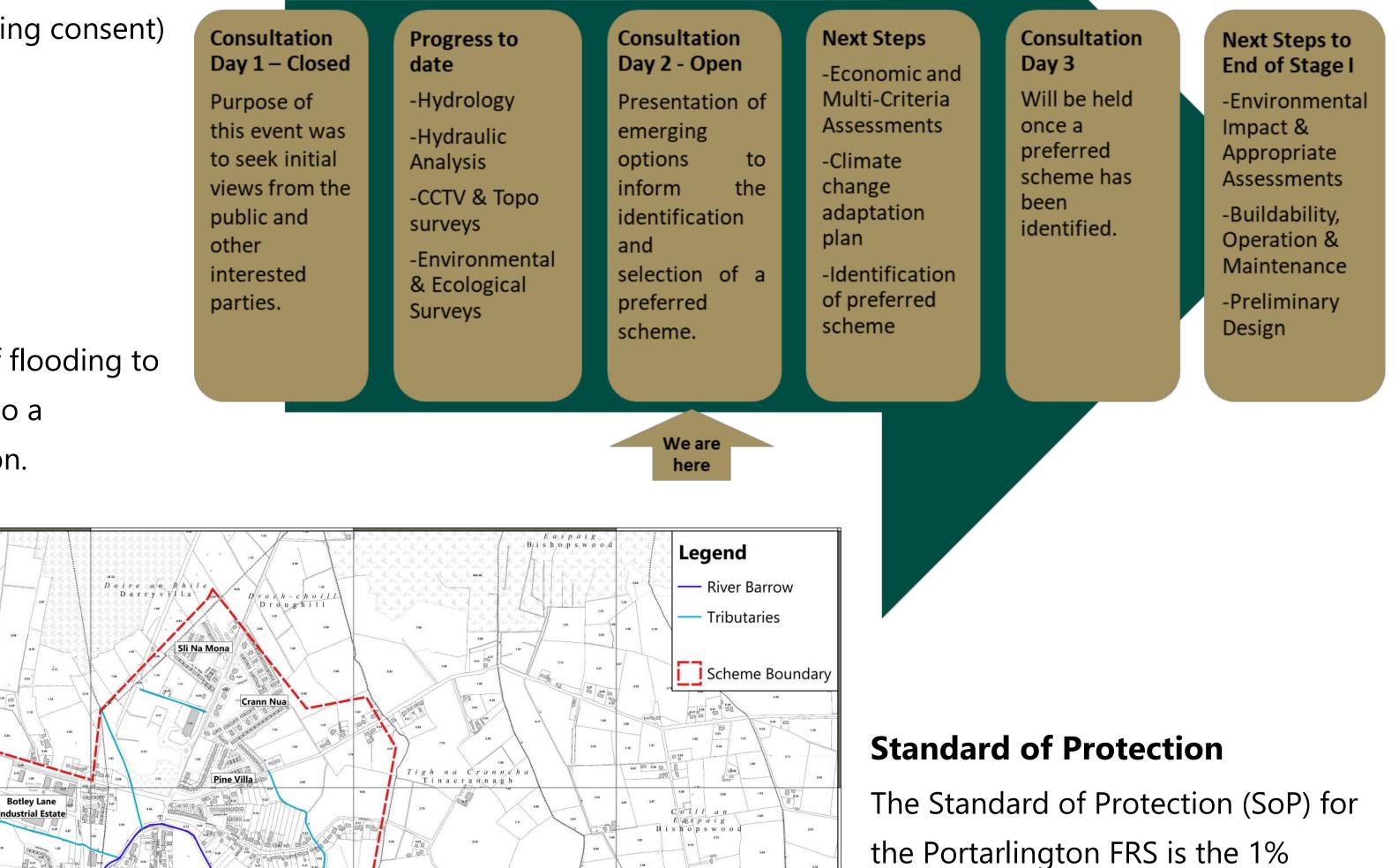
design and submission (for planning consent) of a Flood Relief Scheme, that is:

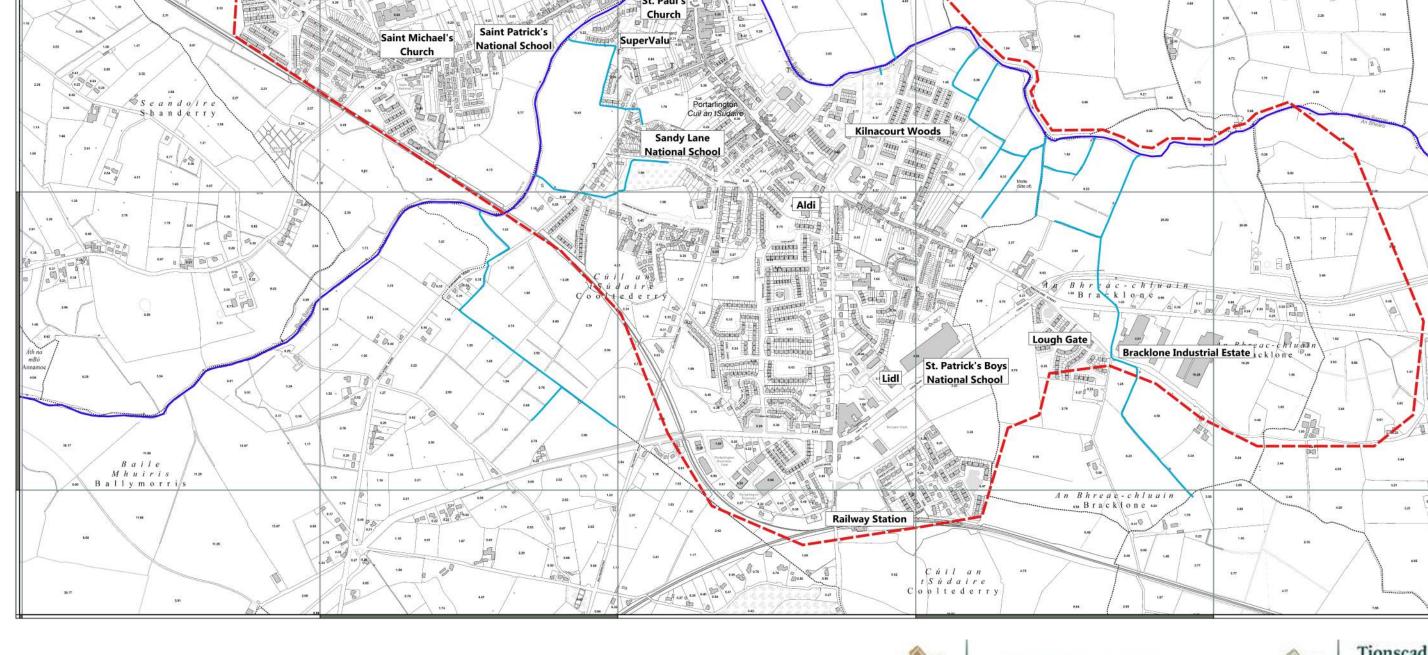
- Technically,
- Socially,
- Environmentally, and
- Economically

acceptable, to alleviate the risk of flooding to the Community of Portarlington to a determined Standard of Protection.

Coill Molaga Kilmalague

Avondale Estate





Annual Exceedance Probability (AEP) event.

Poster

This corresponds to the flooding caused by a 100-year return period event.

The scheme will also be assessed for adaption to climate change for flood events that are greater than the SoP.



Comhairle Chontae Uíbh Fhailí Offaly County Council



Laois County Council Áras an Chontae, Portlaoise, Co. Laois

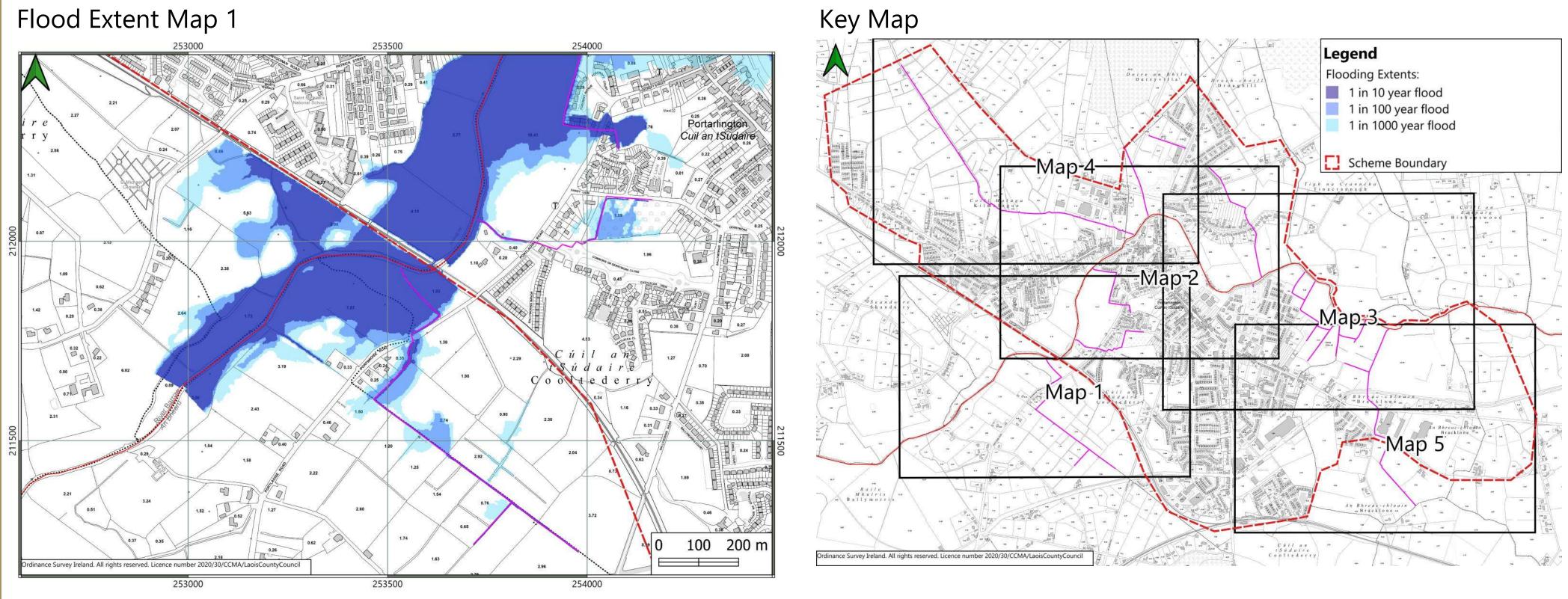






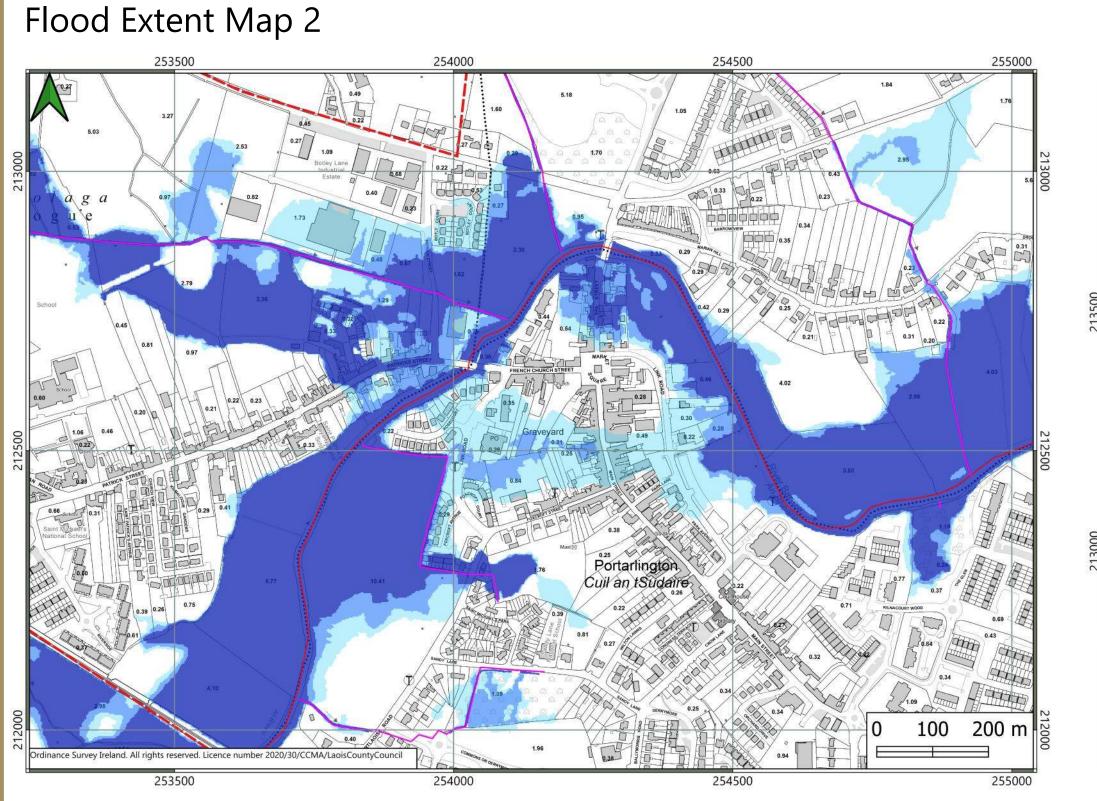
Present Day Scenario - Flood Extent Maps

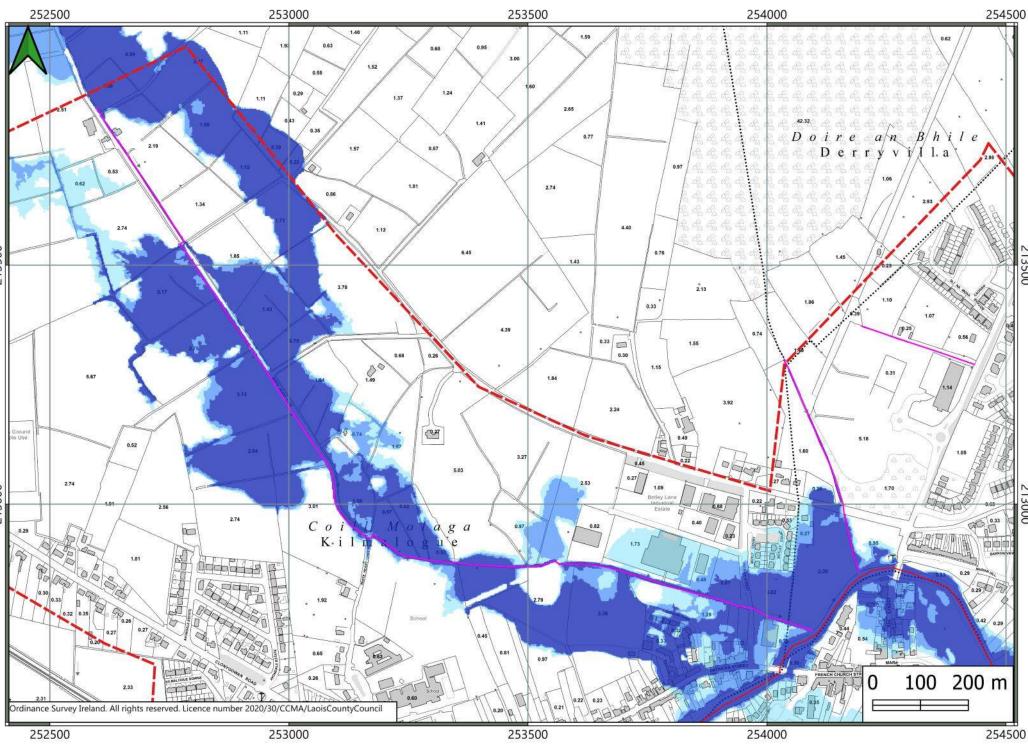
Flood Extent Mapping



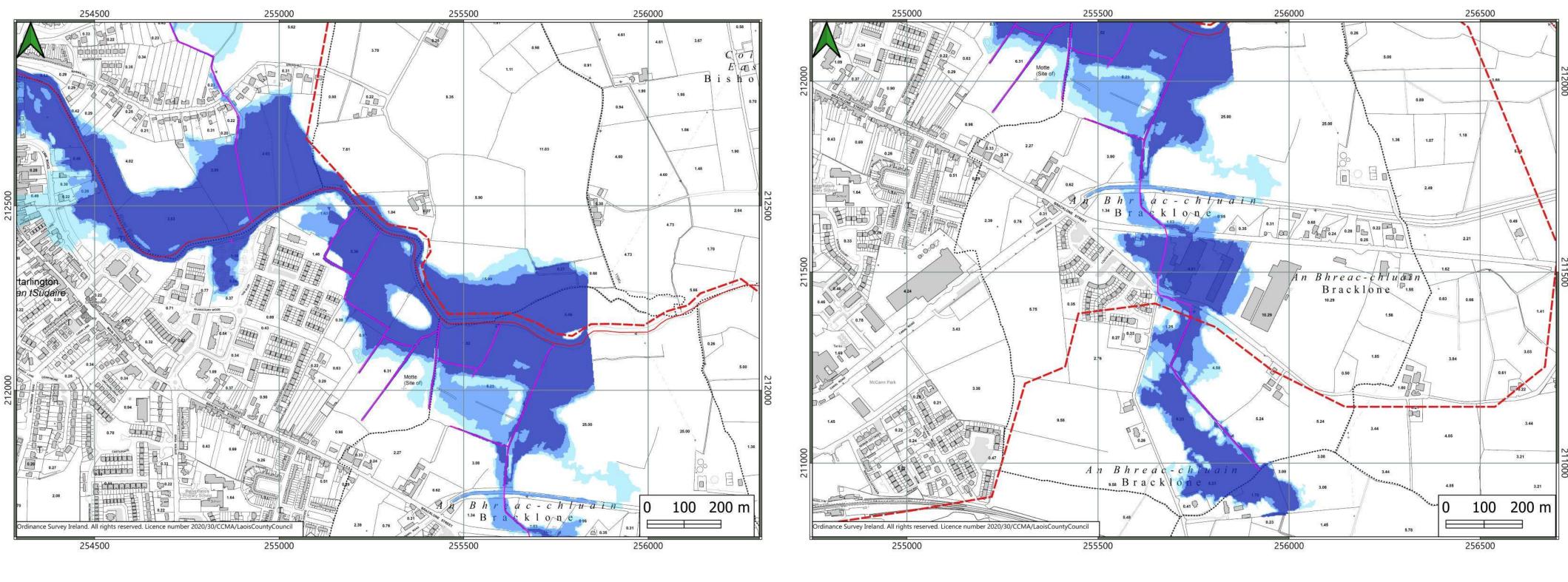
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Flood Extent Map 4

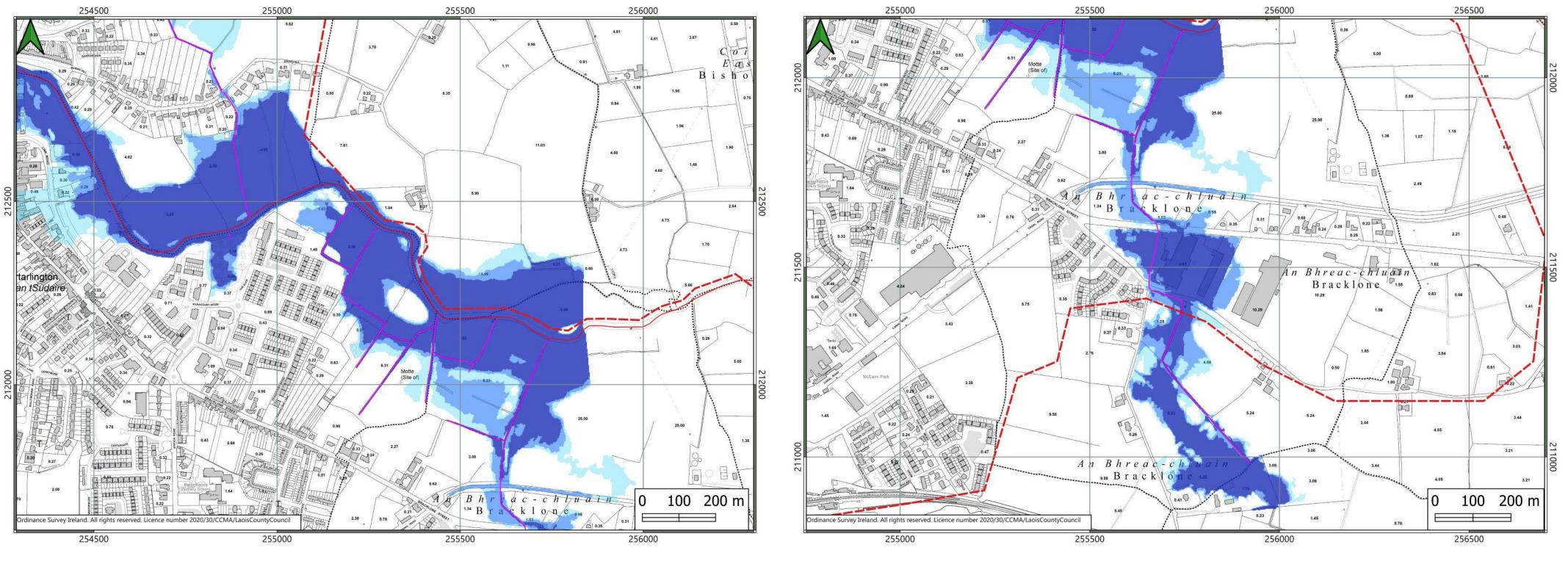




Flood Extent Map 3

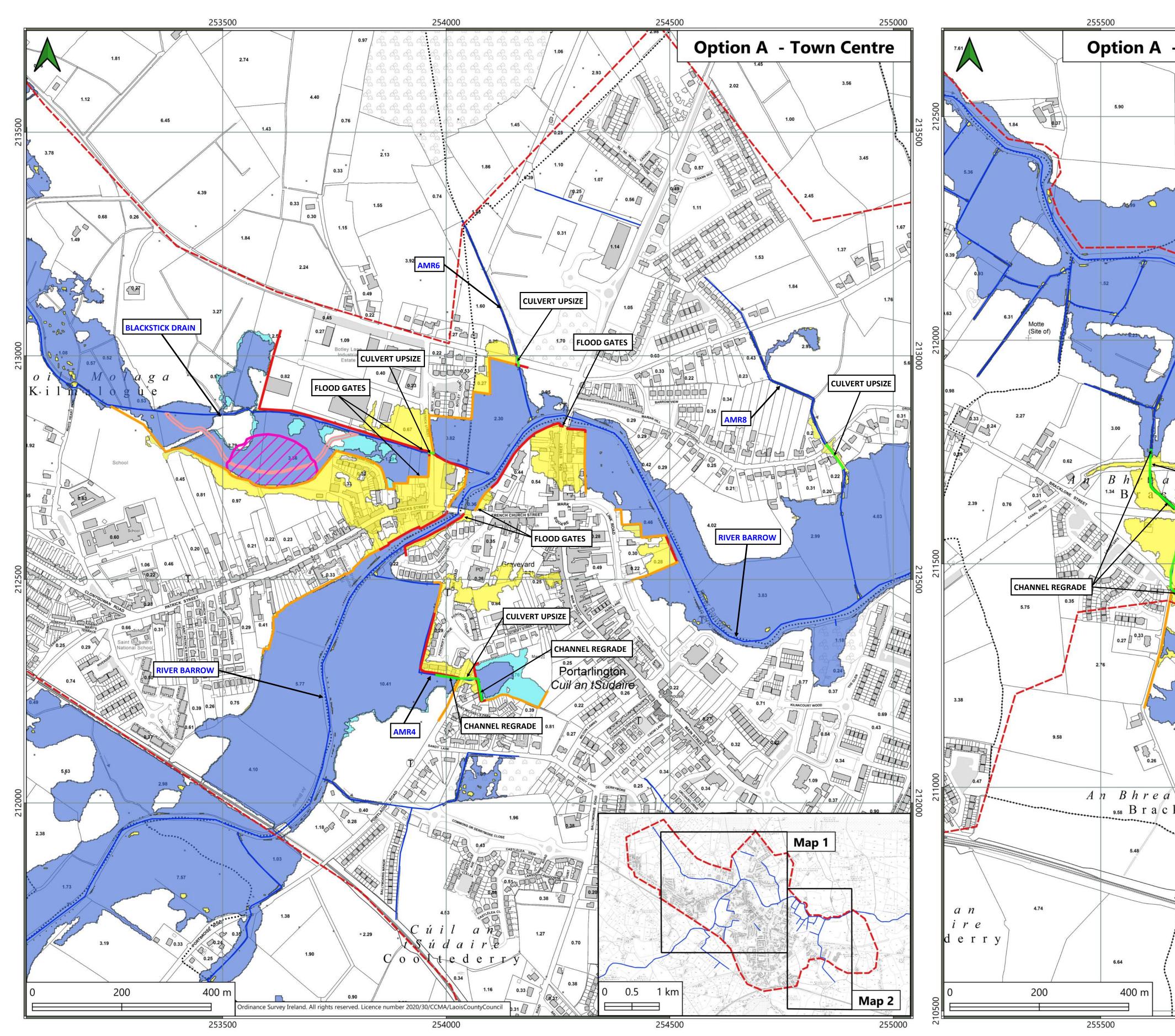


Flood Extent Map 5





Emerging Option A - Proposed Flood Relief Measures



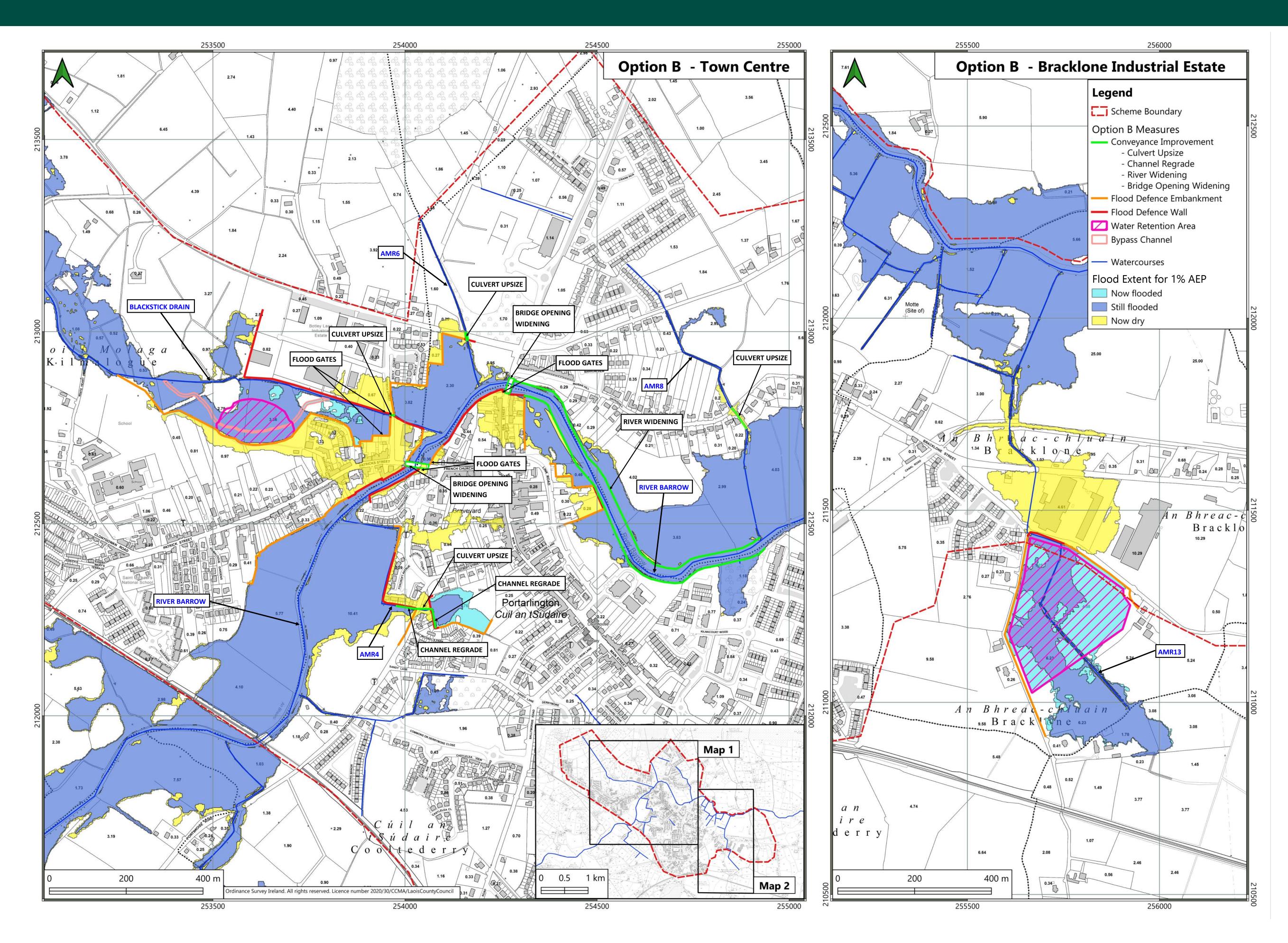
256000 **Option A** - Bracklone Industrial Estate Legend **Scheme Boundary Option A Measures** - Conveyance Improvement - Culvert Upsize - Channel Regrade Flood Defence Embankment Flood Defence Wall **Water Retention Area**] Bypass Channel - Watercourses 5.66 Flood Extent for 1% AEP Now flooded Still flooded Now dry 25.00 25.00 101 Bh/ ac-chludin k l o n e CULVERT UPSIZE Lon 20 0.24 \Box An Bhreac-c Bracklo 10.29 10.29 0.50 **MR13** 3.08 An Bhreac-chinain 9.58 Brack 1 6 n e 6.23 3.08 0.41 0.23 1.45 0.52 0.48 1.49 3.77 3.77 1.07 2.08 2.46 2.46 0.56 0.34

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3

Emerging Option B - Proposed Flood Relief Measures



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