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## Kenmare Flood Relief Scheme

### Public Consultation Day 01 Summary Report

#### Kerry County Council

**Report No. W3680-BLP-R-W-006**

22 November 2022

Revision 2



Rialtas  
na hÉireann  
Government  
of Ireland

Tionscadal Éireann  
Project Ireland  
2040

OPW

Oifig na  
nOibríochtaí Poiblí  
Office of Public Works

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## Document Control

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Revision	Revision/ Review Date	Details of Issue	Authorised		
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**Disclaimer: Please note that this report is based on specific information, instructions, and information from our Client and should not be relied upon by third parties.**

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# 1 Introduction

## 1.1 Background

Kenmare has suffered from serious flooding including recent floods in 2015 and 2020. Areas which are particularly susceptible to flooding include the Town Square, Scarteen Park, Finnihy Banks and at Kenmare pier and the adjacent roads/properties. The Southwestern Catchment Flood Risk Assessment and Management (CFRAM) identified Kenmare as an Area for Further Assessment (AFA). The resulting CFRAM Flood Risk Management Plan for Kenmare was finalised in 2018.

Kerry County Council in partnership with the Office of Public Works (OPW) are now advancing with the Kenmare Flood Relief Scheme. In June 2022 Kerry County Council appointed Byrne Looby as Engineering and Environmental Consultants to undertake the design and implementation of the proposed Flood Relief Scheme.

This Flood Relief Scheme is part of the €1bn National Fund announced by the Government for Flood Relief Schemes throughout the Country in May 2018.

As part of the development of the scheme it is intended to engage substantially and meaningfully with the public, landowner and stakeholders in order to understand all the issues affecting them. From this approach it is envisaged that the optimum solution to reduce the flood risk can be found.

## 1.2 Purpose of Report

A Public Consultation Day (PCD) was held in Kenmare on 22<sup>nd</sup> September 2022. This was the first public consultation event in relation to the proposed Flood Relief Scheme. The event was hosted by Kerry County Council in partnership with the Office of Public Works and ByrneLooby Consulting Engineers.

The purpose of the public consultation day was to gather valuable local knowledge from the residents and interested stakeholders, to get their views and experiences of flooding in Kenmare and to offer an opportunity to engage directly with the project team who outlined the flood relief scheme development process and programme for delivering the Kenmare flood relief scheme.

The purpose of this report is to describe how the event was organised and to summarise the valuable insights which were shared at the event so that this information can be recorded, reviewed and considered as part of the development of the proposed Kenmare Flood Relief Scheme.

## 2 Event Promotion and Invitation to Participate

As noted above, a Public Consultation Day was held in the Gateway Methodist Church, Kenmare on 22<sup>nd</sup> September 2022. The table below outlines the steps that were taken to ensure that the public were aware of the Public Consultation Day in advance to ensure good and appropriate attendance on the day.

<b>Promotion means</b>	<b>Details</b>
<b>Radio</b>	A radio advert featured on Radio Kerry from September 15 <sup>th</sup> – 21 <sup>st</sup> . The advert featured 3 times per day over the seven days leading up to the event. The advert informed the public of the purpose of the PCD, the venue, time and where further information on the event could be found.
<b>Newspaper</b>	An advert featured in the September 15 <sup>th</sup> publication of the Kerry’s Eye, a locally circulated weekly newspaper. The advert informed the public of the purpose of the PCD, the venue, time and where further information on the event could be found.
<b>Email</b>	Consultation letters were issued to a total of 81 identified potential interested parties to inform them that the scheme was underway. These included national and local third-party stakeholders. This letter also notified the parties of the upcoming Public Consultation Day and asked their views about how they saw the scheme impacting on their interest areas
<b>Social Media</b>	On September 9 <sup>th</sup> , Kerry County Council published the event details on their Twitter page.
<b>Websites</b>	Information informing the public of the public consultation day was posted on the project website in advance of the event along with further information in relation to the flood relief scheme. Kenmare Flood Relief Scheme website - <a href="https://www.floodinfo.ie/frs/en/kenmare/home/">https://www.floodinfo.ie/frs/en/kenmare/home/</a>
<b>Press Release</b>	A press release was prepared by ByrneLooby which was circulated to local media outlets by Kerry County Council. The purpose of the press release was to introduce the Kenmare Flood Relief Scheme and to inform the public of the upcoming public consultation day.
<b>Posters</b>	In advance of the public consultation day, posters were erected in various public locations informing the public of the upcoming event. Posters were put up in SuperValu, Carnegie Library and the courthouse as well as other locations.

## 3 Public Consultation Event

### 3.1 Target Audience

Efforts were made to inform all relevant parties of the PCD event in advance with a focus on residents, landowners, and business owners. This included local property owners who either have been or have not been impacted by flooding in the past, and non-residents who may have an interest in the proposed flood relief scheme and the potential impact it will have on the catchment.

### 3.2 Event Details

The Public Consultation Day took place at the Gateway Methodist Church, Kenmare on the 22<sup>nd</sup> of September 2022 between 2pm and 7pm. Representatives from the project team (ByrneLooby and Kerry County Council) were present for the duration of the event to engage with attendees, introduce the scheme, answer questions and to listen to and record the flood related experiences and views expressed throughout the day.

### 3.3 Supporting Material

The following material was available on the day:

- Information leaflet, presenting the format of the stakeholder consultation process. This was handed to each attendee on arrival.
- Three visual display stations were set up at the venue to provide background information on the flood relief scheme). Each visual display station consisted of seven posters included the following.
  1. Kenmare Flood Relief Scheme introductory poster.
  2. Proposed CFRAM measures/Flood extent map poster.
  3. A poster showing typical flood defence measures.
  4. Protected Sites (monuments and architectural heritage) poster.
  5. Protected Sites (protected structures and architectural conservation area) poster.
  6. Natura sites poster.
  7. Protected structures poster.

See photos of displays overleaf.



Figure 3-1 Poster boards on display at the public consultation day



Figure 3-2 Poster boards on display at the public consultation day

- Questionnaires to fill in and return within the response period along with freepost envelopes to enable the public to easily return the questionnaire to the project team free of charge.

All of the above material was also made available online via the Kenmare Flood Relief Scheme website (<https://www.floodinfo.ie/frs/en/kenmare/home/>).

Copies of the information material is included in **Appendix A**.

### 3.4 Questionnaire

The questionnaire referenced above was given to all who attended the public consultation day along with a freepost envelope so facilitate the return of the questionnaires to the project team. The questionnaire was also made available on the project website for any interested parties to complete. The questionnaire sought to gain an understanding of each attendee's experience with flooding, their main concerns with the scheme and their opinions on potential solutions. Questions 1-17 sought views on various topics relating to flooding. Question 18 sought the personal contact details of the respondent. Individuals were given a 4 week period to return all questionnaires to the project team i.e. until 21<sup>st</sup> October. A summary of the public feedback which was provided in relation to the PCD is provided in Section 4 of this report.

### 3.5 Public Attendance

All public attendees were invited to sign an attendance register with their name, address and contact information in an attendance sheet if they so wished. A total of 39 attendees signed the register but it was noted that many attendees did not sign it. It is estimated that the total attendance was approximately 50.

### 3.6 Project Team Representation

Three members of the ByrneLooby staff were present at the event: Kieran Thornton (Project Manager), Owen Lynch (Project Liaison Officer) and Andrea Brogan (Environmental Consultant). Client representative Eoghan O' Brien (Kerry County Council) was also present throughout the day to engage with attendees.

## 4 Public Feedback

### 4.1 General Overview of Tone and Perception

Following the event, the public sentiment towards the flood relief scheme was positive and welcoming.

Several local residents whose properties are located along the banks of the River Finnihy described the ongoing soil erosion and the ongoing impact it has on their properties when the River Finnihy is in high flow.

Several local residents described the flooding which has been experienced in the Scarteen Park residential estate during storm events. This includes water backing up and spilling out through sewer access chambers when high water levels are experienced in the Kealnagower River during a storm event. Several of these access chambers are located internally, providing a direct flood path to the interior of these properties.

Two individual local residents described the coastal flooding which has been experienced in the Bay View area, immediately to the north of the suspension bridge. The build-up of sediment within Kenmare Bay was suggested as a contributing factor to the coastal flooding as well as an existing drainage channel in the area which was noted as being blocked due to vegetation and debris.

Several attendees suggested that recent commercial development in the scheme area have contributed to the flood risk by increasing the rate of runoff due to the development of hard standing areas.

One attendee expressed concern that the flood risk to Kenmare town has been exaggerated and then suggested that the scope of the proposed flood relief scheme be minimised.

### 4.2 Questionnaire Responses

ByrneLooby received a total of 8 questionnaire responses which were all sent via post. The returned questionnaires have been digitalised by ByrneLooby to allow for review and future reference. The submissions received are summarised as follows:

- The frequency and severity of flooding experienced in the Scarteen Park area was highlighted.
- The frequency of flooding experienced in the Bay View area was highlighted. Dredging of Kenmare Bay was suggested as a possible solution as well as the clearing of a local drainage channel.
- Soil erosion to residential properties along banks of the River Finnihy and the ongoing impact it has on these properties when the River Finnihy is in high flow was described.

Question 16 of the questionnaire lists various environmental constraints which are to be considered as the proposed flood relief scheme progresses and asks the respondent to rate the importance of each constraint on a scale of 1 to 5. The given environmental constraints are shown below as well as the average rating based on the 8 returned questionnaires.

Environmental Constraints	Rating					AVERAGE RESPONSE BASED ON RETURNED QUESTIONNAIRES
	Not Important	Less Important	Moderately Important	Important	Very Important	
	1	2	3	4	5	
Socio-Economic and Social Issues						3.4
Biodiversity (Flora, Fauna, Habitats)						3.9
Water Quality & River Flows						4.1
Soil/Geology/ Groundwater						3.7
Air Quality and Odours						3.4
Climate						3.0
Traffic						2.3
Noise and Vibration						2.5
Architectural and Cultural Heritage						3.3
Landscape and Visual Amenity						3.6
Angling, Tourism and Recreation						3.1
Local Fisheries						3.7
Others, Please Specify:						-

**Table 1 Summary of Questionnaire Question 16 Responses**

As illustrated above, water quality and river flows was considered to be the most important environmental constraint followed by biodiversity by those that returned the questionnaires.

### 4.3 Third Party Submissions

Following the PCD event, several attendees forwarded information to the ByrneLooby’s project email address which featured on the PCD event leaflets and posters and which the project team direct PCD attendees to on the day. The following is a summary of the information which has been submitted.

- Several attendees followed on with photos of flooding which has occurred at their properties in areas such as Bay View and Finnihy Park.

- Reports and correspondence highlighting the presence of a dam at Lough Eirk (upstream along the Finnihy River) were submitted.
- A document was submitted summarising the flooding which was experienced in Kenmare area in December 2015. The document summarises the flooding which occurred in the following areas. Cill Mhuire Estate, Finnihy Banks Estate, The Square and Bridge Street. The document also puts forward recommended actions to alleviate the flooding.
- A copy of the '*Biodiversity and likely Ecological Assessment Requirements Kenmare Peninsula Lands*' (April 2021) was forwarded.

#### **4.4 Stakeholder Engagement**

Of the 81 national and local third-party stakeholders who were engaged with in advance of the PCD, the following noteworthy responses were received.

- EPA (Environmental Protection Agency) responded to note that they don't have any active hydrometric stations in the scheme area. The EPA referred to their hydroNet database, catchments.ie, EPA's mapping portal as sources of relevant and up to date information.
- TII (Transport Infrastructure Ireland) responded to note the potential impact the flood relief scheme would have on the N70 and N71 national roads and drew attention to the Kenmare and Finnihy Bridges. TII requested that the impact of potential scour be assessed.

#### **4.5 Next Steps**

Responses to each of the submissions have been issued to thank the participants for their contributions.

In the short term, the project team will be following-up on items highlighted in the consultation in addition to activities already ongoing as part of the scheme development. In particular, issues raised will be considered for suitability as advance or interim works.

Appendix A – Public Consultation Material

# KENMARE FLOOD RELIEF SCHEME

## Stakeholder and Public Consultation Event



Thursday, 22nd September 2022  
Gateway Methodist Church, Killarney Road

2-7pm



### Your Experiences

We want to hear about your **past experiences** of flooding.



### Your Concerns

We welcome your **concerns** e.g; environmental and ecological impacts and risks



### Your Ideas

You may have **ideas & views** about how flooding can be reduced and mitigated



### Your Opinions

By hearing your opinions, we can build a successful flood relief scheme **TOGETHER.**

## FIVE PHASES

**STAGE 1:** Scheme Development & Preliminary Design (**WE ARE HERE**)

**STAGE 2:** Planning

**STAGE 3:** Detailed Design & Tender

**STAGE 4:** Construction

**STAGE 5:** Handover of Works

## Why a Flood Relief Scheme?

The purpose of the **Kenmare Flood Relief Scheme** is to alleviate the risk of flooding to the community of Kenmare by providing a scheme that is technically, socially, environmentally, and economically acceptable.

Kerry County Council is working with the Office of Public Works to deliver this important project. ByrneLooby have been appointed as Engineering and Environmental Consultants to design and implement the Flood Relief Scheme.

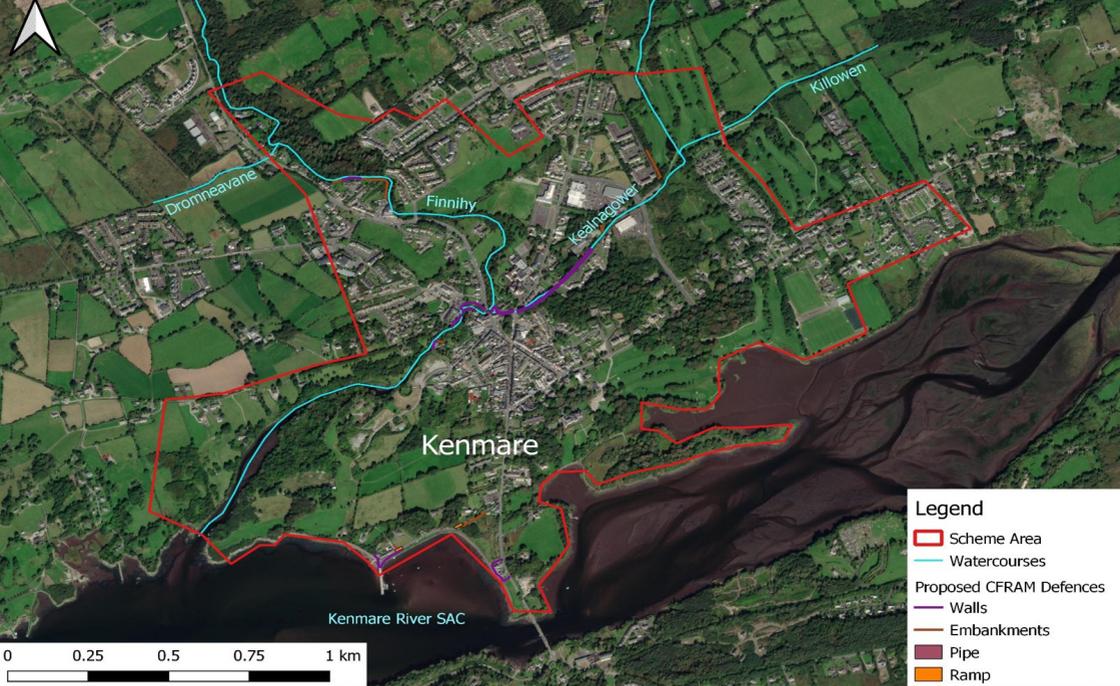
Local experience, knowledge and insight is an essential pre-requisite for any successful Flood Relief Scheme.

We will be gathering feedback from the public at our first public consultation event on **Thursday 22nd September 2022, at the Gateway Methodist Church, Killarney Road from 2-7pm.** If you cannot attend, please email, call or post your feedback per the details overleaf.

**We welcome your input on potential environmental issues within the Study Area (see overleaf).**

**We also appreciate your views on constraints around environmental impacts and the application of potential solutions.**

**We look forward to hearing from you.**



## Your Feedback is Important

This is your opportunity to take part in the early stages of the planning of the Kenmare Flood Relief Scheme. Kerry County Council and the Office of Public Works wishes to consider all viewpoints in relation to the study area being examined. Please review the Study Area above and let your views be known by completing and returning the questionnaire by **Friday 21st October 2022** or attending our **Public consultation event on 22 September 2022**.



EMAIL US

## What Happens Next?

If you can't make the event, check out the content online using the website address or scan the QRC codes.

We encourage everybody to let their views be known before **Friday 21st October 2022**.

**Use any of the contact points below:**

-  **EMAIL:** KenmareFRS@ByrneLooby.com
-  **POST:** Kenmare FRS Project Manager, ByrneLooby, Building 2100, Cork Airport Business Park, Kinsale Road, Cork T12 KV8R
-  **CALL:** +353 (0) 21 240 7988

 **USE THE QRC CODE TO VISIT THE PUBLIC CONSULTATION PAGE:**

<https://www.floodinfo.ie/frs/en/kenmare/project-info/public-engagement/>

 **USE THE QRC CODE OR VISIT FOR UPDATES:**

<https://www.floodinfo.ie/frs/en/kenmare/home/>



**Freedom of Information**  
Any information provided will be subject to the provisions of the Freedom of Information Act. Personal information will be subject to the provisions of the Data Protection Acts and will not be disclosed.

## Kenmare Flood Relief Scheme

### Stakeholder and Public Consultation Event

### Questionnaire

Please complete this questionnaire and return to ByrneLooby, Attention: Project Manager,  
Building 2100, Cork Airport Business Park, Kinsale Road, Cork,  
Email: [KenmareFRS@ByrneLooby.com](mailto:KenmareFRS@ByrneLooby.com) by Friday 21st October 2022.  
Kindly sign GDPR Compliance on Pg 3 of 3 of this questionnaire.

1 Are you aware of the South-Western Catchment Flood Risk Assessment and Management (CFRAM) Study and its findings or recommendations?

Yes  No

2 Do you own, rent or occupy a property within the study area being considered?

Yes  No

3 Address of Property (if different from home address) \_\_\_\_\_

4 Have you had any personal experience of flooding?

Yes  No

5 If yes, do you have information which can be used to inform the scheme? Please describe information available.

6 The date(s) of the flooding \_\_\_\_\_

7 Can Kerry County Council contact you to collect this information?

Yes  No

8 Do you have photographs or videos of flooding?

Yes  No

9 If yes, may Kerry County Council have permission to use them?

Yes  No

*Note: Photographs / videos can be collected at a later date.*

10 Also if yes, could you please describe the photograph?

11 Type of property flooded?

Residential

Retail

Office

Workshop

Open Space

Other

If other, please describe:

12 Approximate maximum depth of flooding? (Please state whether the depth is in meters or feet):

13 Source of Flooding: Directly from river/ Stream

From Drains/ Sewer

Overground flow (surface water)

14 Have you put in place measures to prevent or reduce the impact of flooding? Yes  No

If yes, please describe measures \_\_\_\_\_

15 How do you think the issue of flooding can be resolved?

16 In your opinion, how important are the following environmental constraints to the proposed Flood Relief Scheme?

*(Please tick appropriate boxes)*

Environmental Constraints	Rating				
	Not Important	Less Important	Moderately Important	Important	Very Important
	1	2	3	4	5
Socio-Economic and Social Issues					
Biodiversity (Flora, Fauna, Habitats, etc)					
Water Quality & River Flows					
Soil/Geology/ Groundwater					
Air Quality and Odours					
Climate					
Traffic					
Noise and Vibration					
Architectural and Cultural Heritage					
Landscape and Visual Amenity					
Angling, Tourism and Recreation					
Local Fisheries					
Others, Please Specify:					

17 Please provide below any other comments or observations you wish to make with respect to flooding on the Kenmare Flood Relief Scheme?



**18 Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**Phone (Optional):** \_\_\_\_\_ **Email: (Optional):** \_\_\_\_\_

**GDPR COMPLIANCE**

Your contact details have been collected to aid the development of the flood relief scheme for Kenmare. The details will only be used for the purposes of contacting you in relation to the scheme, which may include some or all of the following:

- Notifying you of future consultation opportunities
- Arranging access to your lands for the purposes of data collection by project staff and approved third party surveyors
- Clarifying information, you have already provided to the project team and obtaining further inputs
- Discussing future works and options

Your details will be securely kept on file for the duration of the project.

Signature:

I agree to the above use and retention of my contact details

Freedom of Information: Any information provided will be used subject to the provisions of the Freedom of Information Act. Personal information will be subject to the provisions of the Data Protection Acts and will not be disclosed.

THANK YOU FOR YOUR CO-OPERATION

# Kenmare Flood Relief Scheme

## Background, Timeline and Public Consultation Process

### Introduction

Kerry County Council as the Lead Authority, in partnership with The Office of Public Works (OPW) is now advancing with the Kenmare Flood Relief Scheme.

This Flood Relief Scheme is part of the €1bn National Fund announced by the Government for Flood Relief Schemes throughout the country in May 2018.

The OPW has recommended the development of a Flood Relief Scheme for Kenmare as a result of the work completed in the South-Western Catchment Flood Risk Assessment and Management (CFRAM) Study.

The CFRAM identified numerous structural and non-structural options which could be adopted for effective and sustainable management of flood risks within the study area. These options were then screened under the following headings:

- Technical
- Economic
- Environmental
- Social

The CFRAM Study identified a preferred option for Kenmare which can be summarised as comprising mainly of a series of flood embankments and walls.

To progress the scheme to the next stage ByrneLooby have been commissioned to develop and

implement a Flood Relief Scheme for Kenmare. The project will not be limited to the recommendations of the CFRAM study and will appraise, at project specific level of detail, all potential flood relief measures to ensure the most suitable scheme is developed.

### DESIGN STANDARD

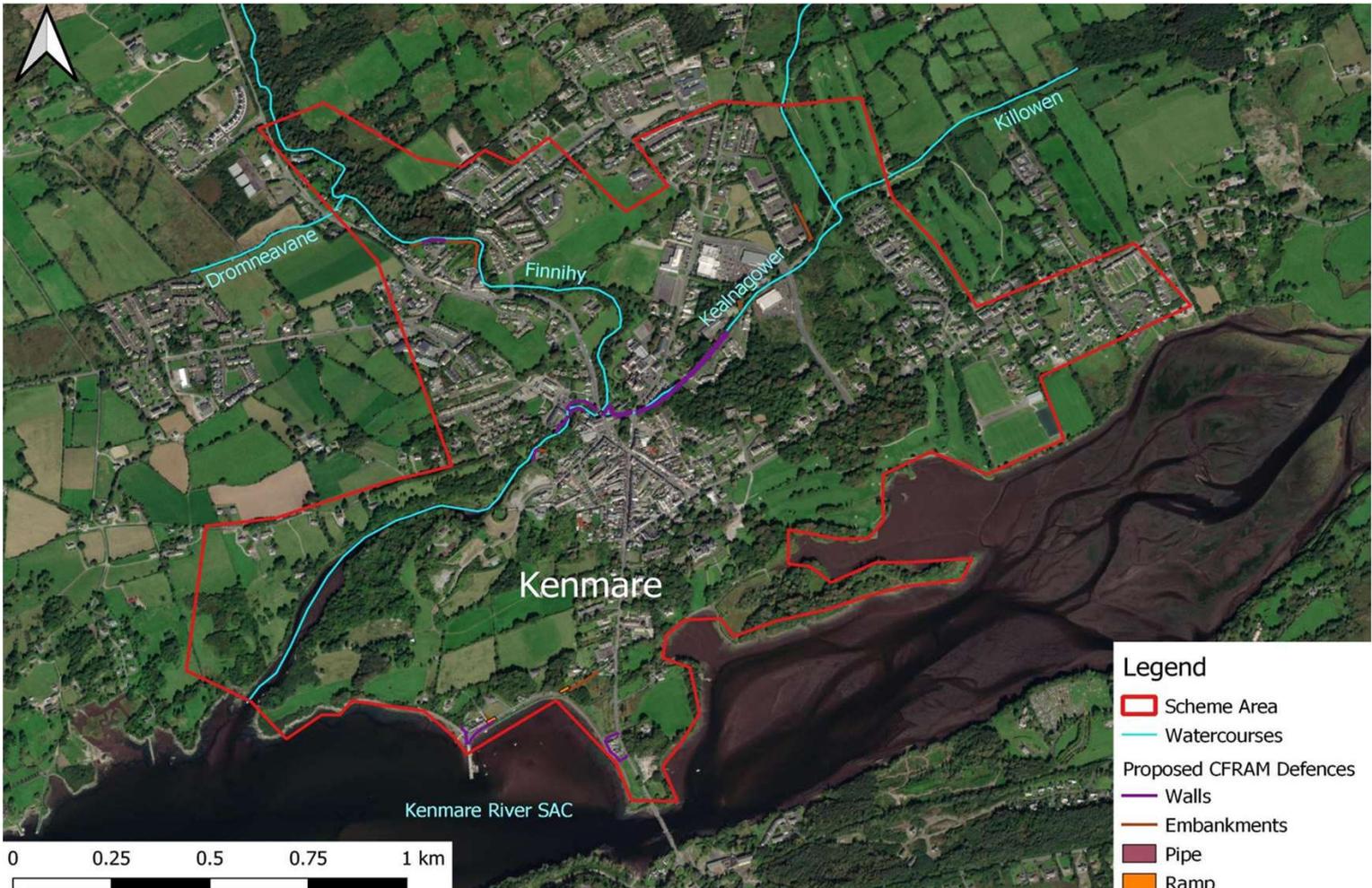
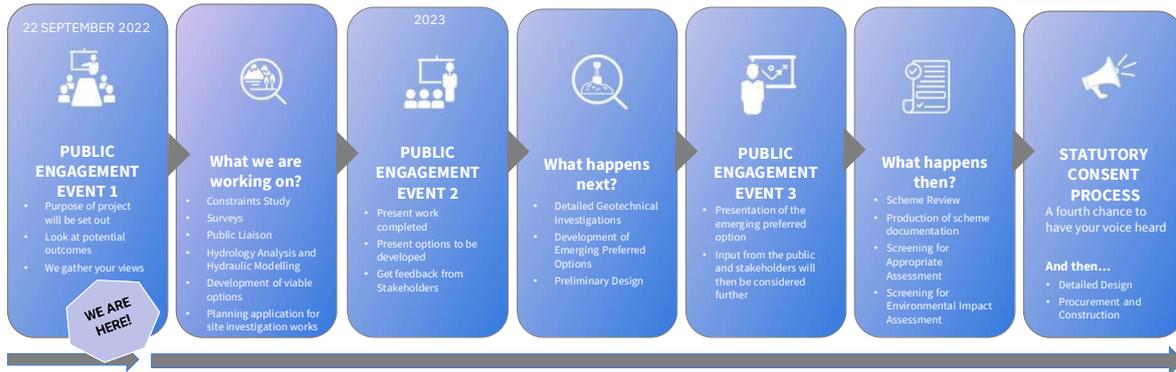
The design Standard of Protection (SoP) sought for the Kenmare Flood Relief Scheme (FRS) is the 1% annual exceedance probability (AEP) event for fluvial flooding and the 0.5% AEP event for coastal flooding. This can be thought of as a flood with a magnitude such that it has a 1%/0.5% chance of occurring in any given year and is sometimes referred to as the 100-year/200-year flood.

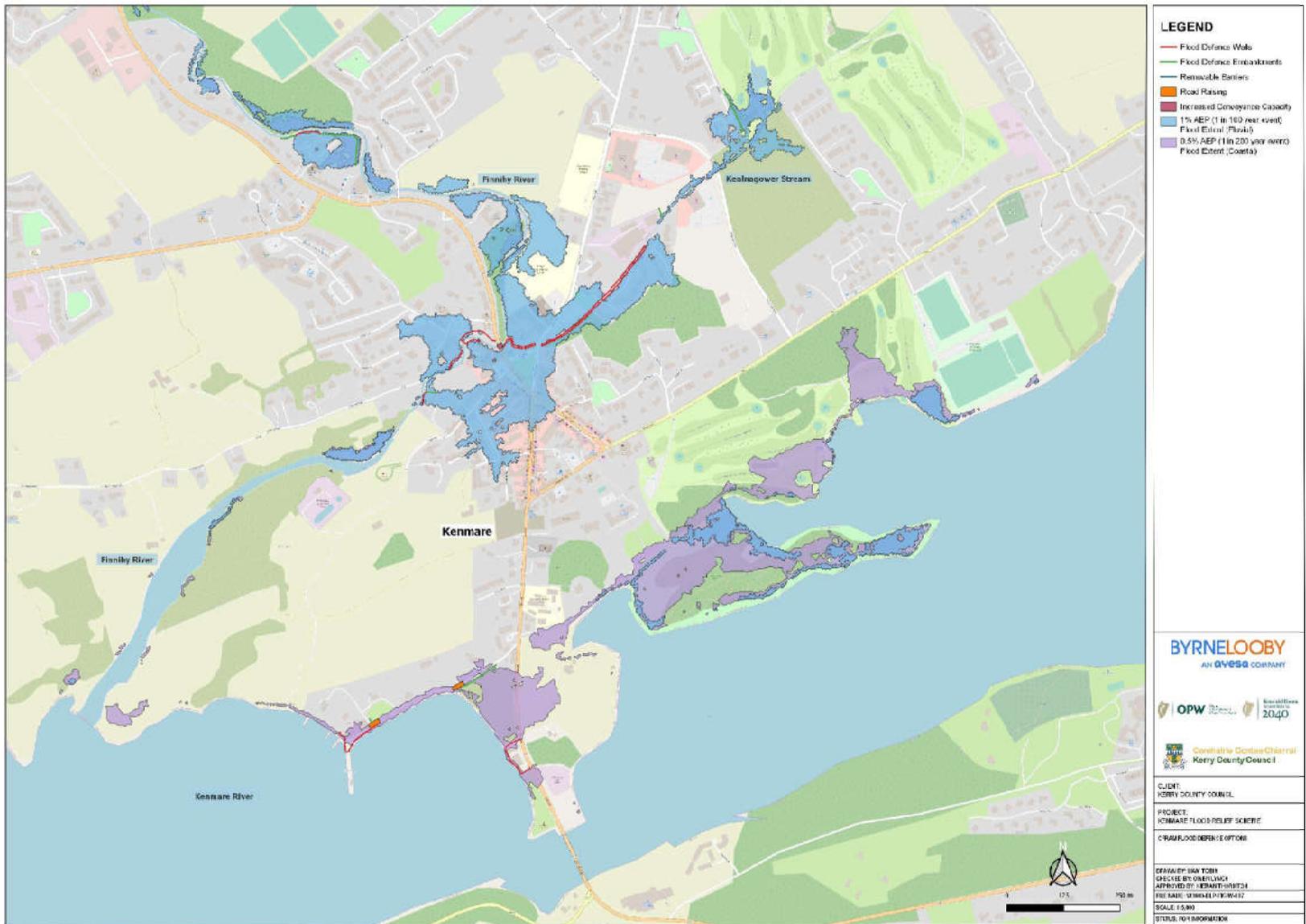
The scheme will also be assessed for resistance/adaption to climate change for flood events that are greater than the design flood event.

### STAGES & TIMELINES

The diagram below outlines the steps in Stages 1-2 that lead up to the statutory approval for the scheme. Once this is obtained, the detailed design will begin, and a construction contractor will then be procured to build the scheme. The timeline for the entire project is shown inset below.

Stage	2022	2023	2024	2025	2026	2027	2028	2029	2030
I	█								
II			█						
III					█				
IV						█			
V								█	





- LEGEND**
- Flood Defence Walls
  - Flood Defence Embankments
  - Removable Barriers
  - Road Raising
  - Increased Conveyance Capacity
  - 1% AEP (1 in 100 year event) Flood Extent (Fluvial)
  - 0.5% AEP (1 in 200 year event) Flood Extent (Coasta)

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**OPW** Office of Public Works  
New Flood Risk Management Strategy 2040

**Comhairle Contae Chiarraí**  
Kerry County Council

CLIENT: KERRY COUNTY COUNCIL

PROJECT: KENMARE FLOOD RELIEF SCHEME

CFRAM FLOOD DEFENCE OPTION

DESIGNED BY: IAN TORRY  
CHECKED BY: DERMOT LUNNEY  
APPROVED BY: NERAMHUAH HUGHES  
FILE NAME: KENMARE FLOOD RELIEF SCHEME  
SCALE: 1:500  
STATUS: FOR INFORMATION

## Proposed CFRAM Flood Defence Measures

The OPW in partnership with Kerry County Council have completed the Catchment Flood Risk Assessment and Management (CFRAM) Study.

The study assessed the existing and future flood risk to Kenmare and proposed flood defence measures to protect the area from coastal and fluvial flooding which are shown in the map.

## Flood Extent Maps

The proposed Kenmare flood relief scheme will be designed to protect the scheme area from a 1 in 100 year (1% AEP) fluvial flood event and a 1 in 200 year (0.5% AEP) coastal flood event. The extent to which these flood events would impact the scheme area are shown in the map.

# Kenmare Flood Relief Scheme



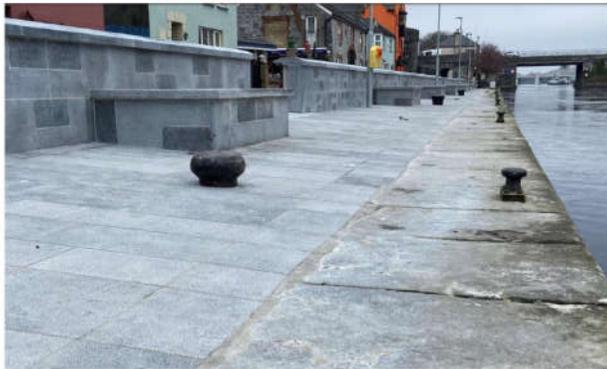
FLOOD DEFENCE WALL



GLASS FLOOD DEFENCE WALL



FLOOD DEFENCE EMBANKMENT



FLOOD DEFENCE INCORPORATED INTO PUBLIC REALM



FLOOD DEFENCE INCORPORATED INTO PUBLIC REALM



DEMOUNTABLE FLOOD DEFENCE BARRIER



FLOOD STORAGE



FLOOD DEFENCE GATE

## Typical Flood Defence Infrastructure

In the images shown are some typical flood defence measures such as flood defence walls and embankments. Similar infrastructure will be required to protect Kenmare town and the surrounding scheme area from flooding.

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**OPW** Office of Public Works

**Kerry County Council**

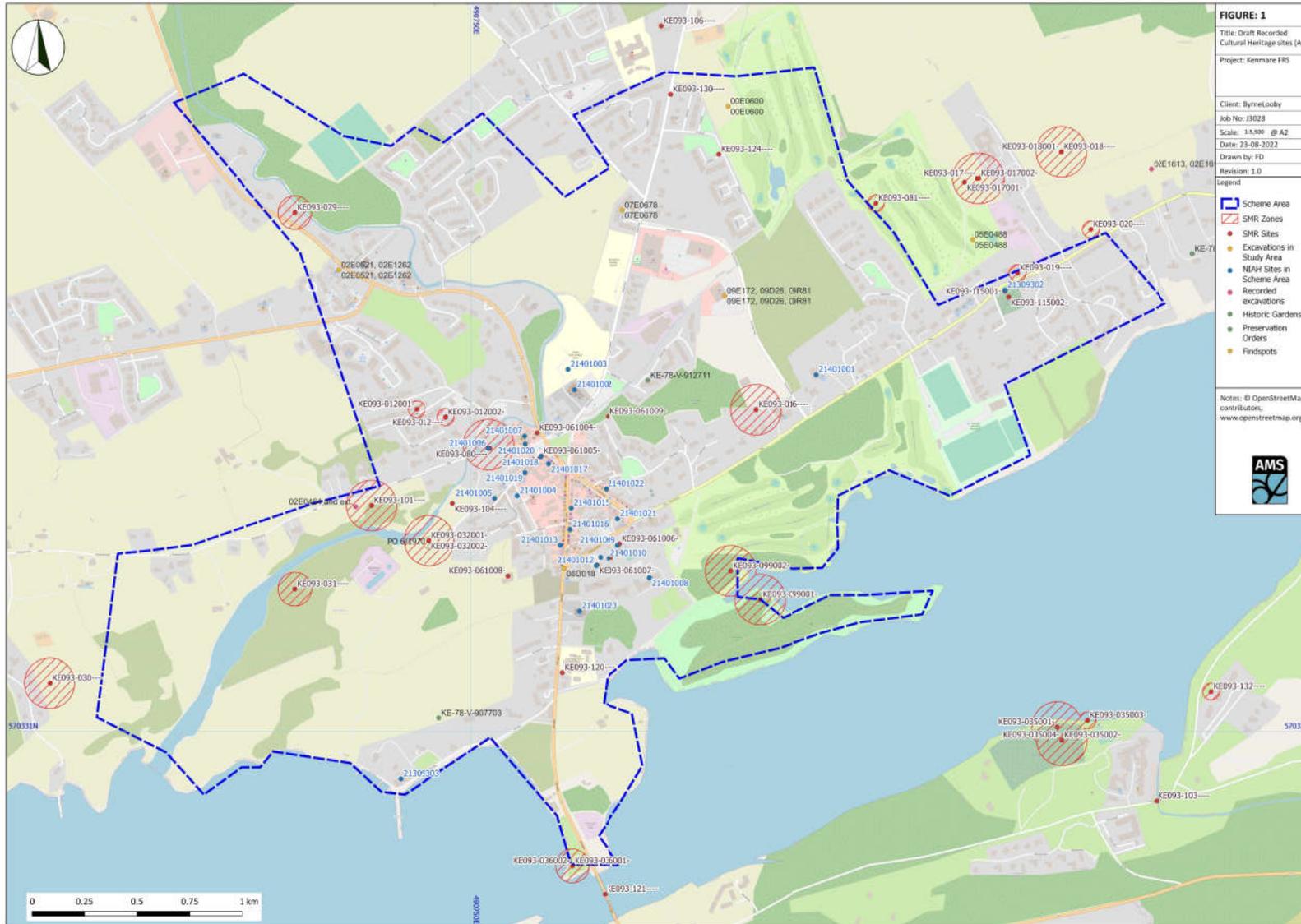
CLIENT  
KERRY COUNTY COUNCIL

PROJECT  
KENMARE FLOOD RELIEF SCHEME

TYPICAL FLOOD DEFENCE INFRASTRUCTURE

DRAWN BY: LIAH KYLE  
CHECKED BY: NICKY GILLESPIE  
APPROVED BY: JAMES DUFFY  
DATE: 15/08/2024  
SCALE: 1:100  
DRAWING NO: 2024-010

## Protected Sites to be considered in the FRS



### SMR – Sites and Monuments Record

Examples include:

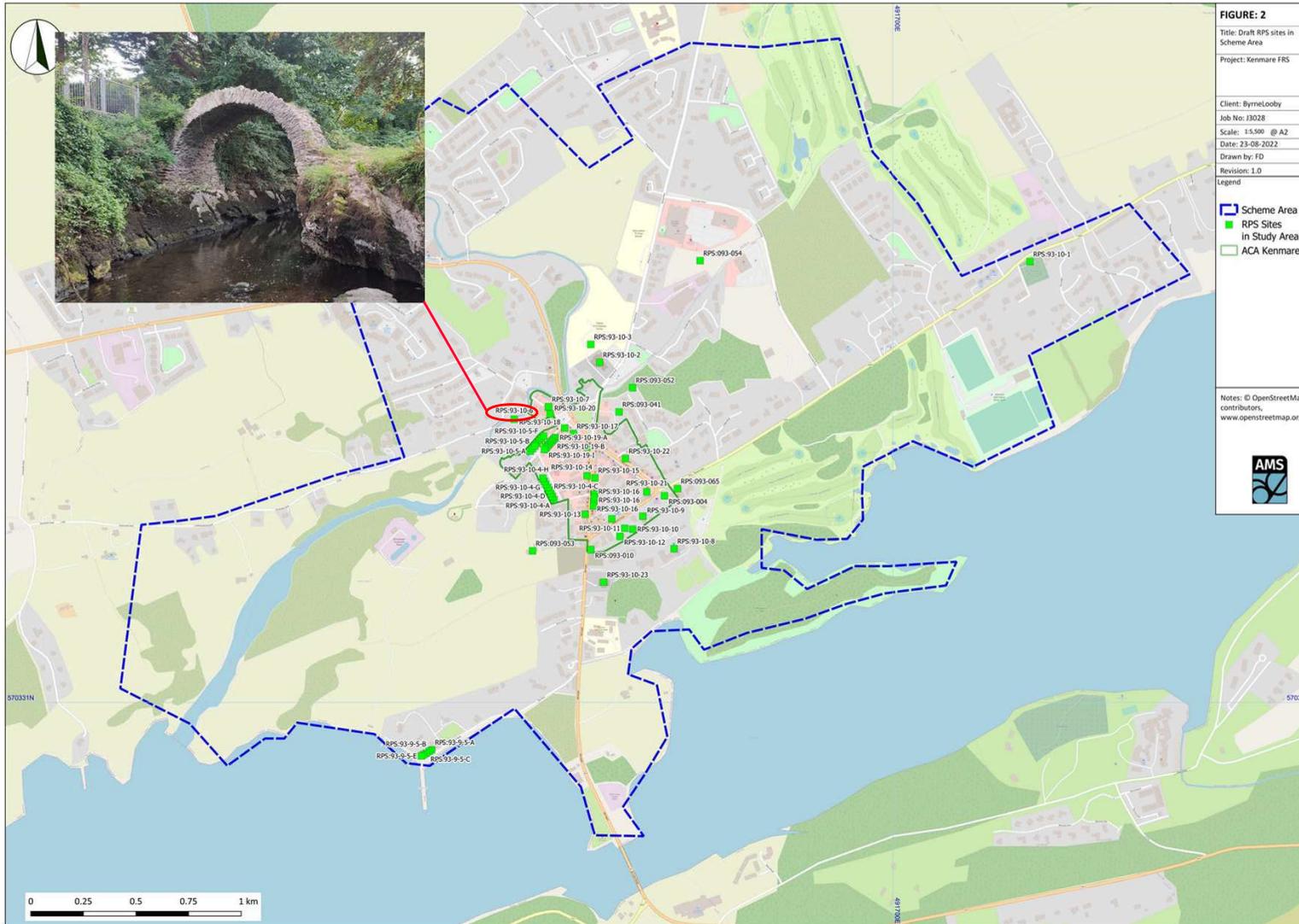
- Kenmare Market House (KE093-061005)
- Standing Stone (KE093-016)
- Stone Circle (KE093-03201)
- Children’s Burial Ground (KE093-031)

### NIAH – National Inventory of Architectural Heritage

Examples include:

- Kenmare Market House (21401018)
- Holy Cross Catholic Church (21401002)
- Poor Clare’s Convent (21401003)
- Shelburne Lodge (21401001)
- Park Hotel (21401008)

## Protected Sites to be considered in the FRS



### RPS – Record of Protected Structures

Examples include:

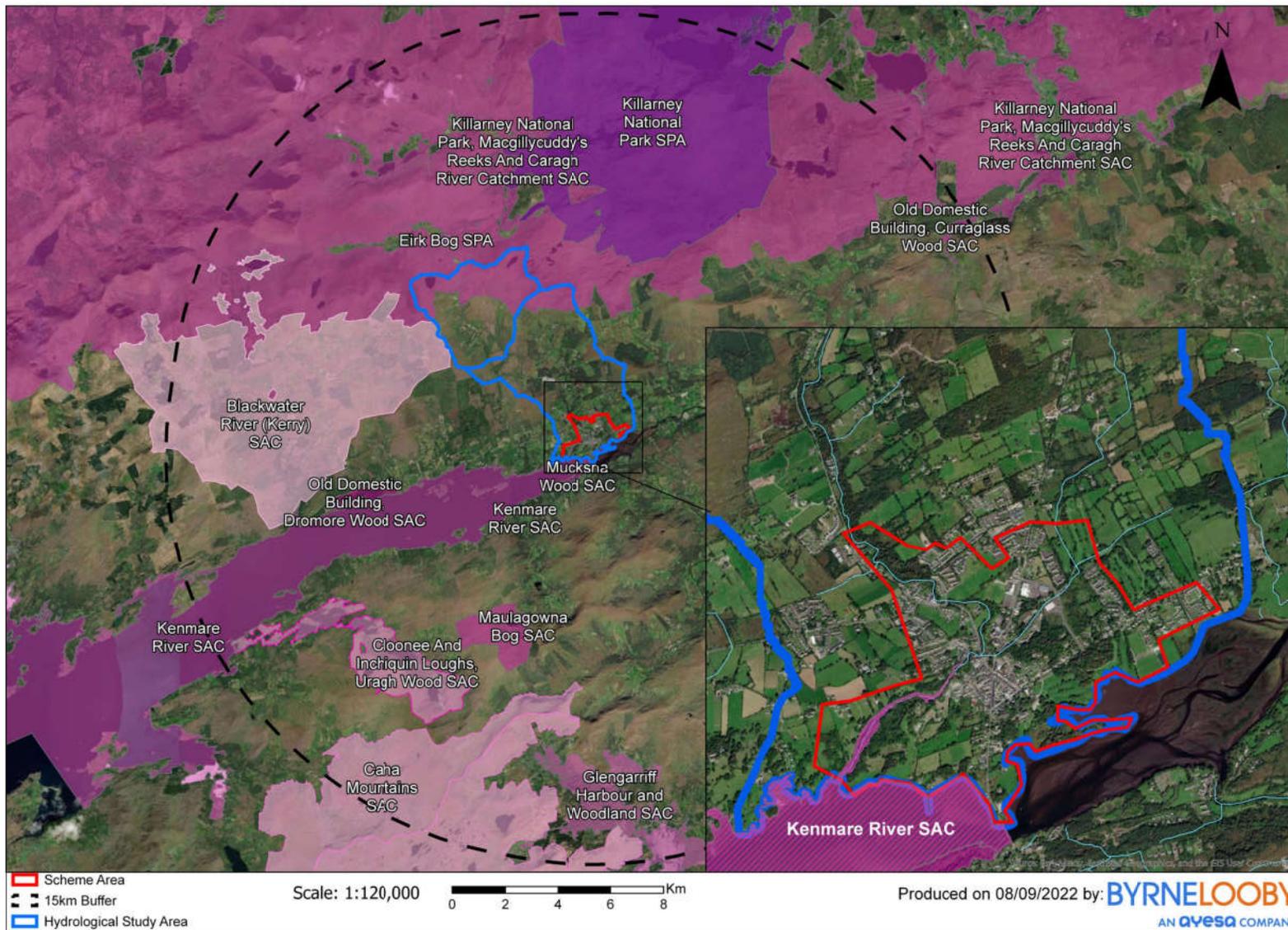
- The Quays Terrace (93-9-5(A-E))
- Holy Cross Catholic Church (93-10-2)
- Cromwell’s Bridge (93-10-6, highlighted in the map)
- Kenmare National School (93-10-12)
- Old Market House (93-10-18)

### ACA – Architectural Conservation Area

The entirety of Kenmare Town Centre is protected as an Architectural Conservation Area, encompassing the Square, Henry St., Main St., and Shelbourne St, also a section of Market St. and Parnell Place.

# Kenmare Flood Relief Scheme

## Protected Sites to be considered in the FRS



**SPA – Special Protection Areas**  
Protected under the Birds Directive

**SAC – Special Area of Conservation**  
Protected under the Habitats Directive

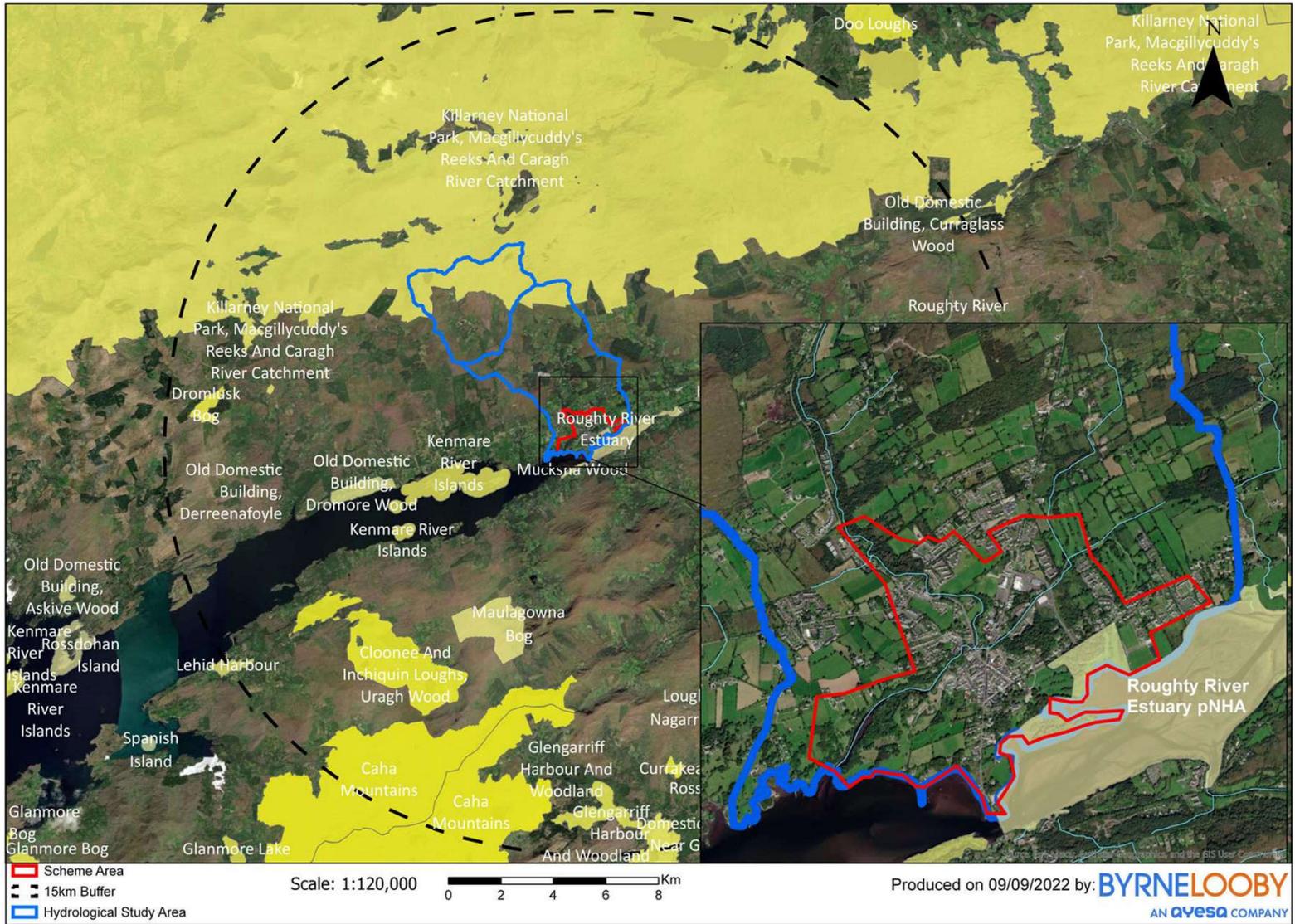
All Protected Areas within 15km must be considered in the development of the FRS.

Qualifying Interests for Kenmare River SAC (inset in the map, within the scheme area) include:

- Perennial vegetation of stony banks
- Large shallow inlets and bays
- *Vertigo angustior* (Narrow-mouthed Whorl Snail)
- *Rhinolophus hipposideros* (Lesser Horseshoe Bat)
- *Lutra lutra* (Otter)
- *Phoca vitulina* (Harbour Seal)

# Kenmare Flood Relief Scheme

## Protected Sites to be considered in the FRS



### pNHA – proposed Natural Heritage Areas

Protected under the Wildlife Amendment Act

All Protected Areas within 15km must be considered in the development of the FRS.

Qualifying Interests for Roughy River Estuary pNHA (inset in the map, within the scheme area) include:

- Hieracium scullyi – hawkweed, only known site in the world

### Other Ecological Considerations in the scheme area

- Annex 1 Habitats incl old Oak Woodlands and Estuaries on Roughy River Border
- Annex 1 habitats incl Blanket Bogs, Dry Heath, Wet Heath upstream of Finnihy
- Finnihy River is a Fresh Water Pearl Mussel (Margaritifera) Sensitive Area



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