

Comhairle Cathrach  
Bhaile Átha Cliath  
Dublin City Council



Dún Laoghaire-Rathdown  
County Council Comhairle Contae  
Dhún Laoghaire-Ráth an Dúin



OPW

Oifig na  
nOibreacha Poiblí  
Office of Public Works



Rialtas  
na hÉireann  
Government  
of Ireland

Tionscadal Éireann  
Project Ireland  
2040

# River Dodder Flood Alleviation Scheme Phase 3

Presentation to Dundrum Area Committee, Dublin  
22 April 2024



Jannie Burger & Seán Harrington

## Contents

Background

Public Participation and Consultation

Current Status

Initial Screening

Emerging Option

Overall Scheme

Current Design

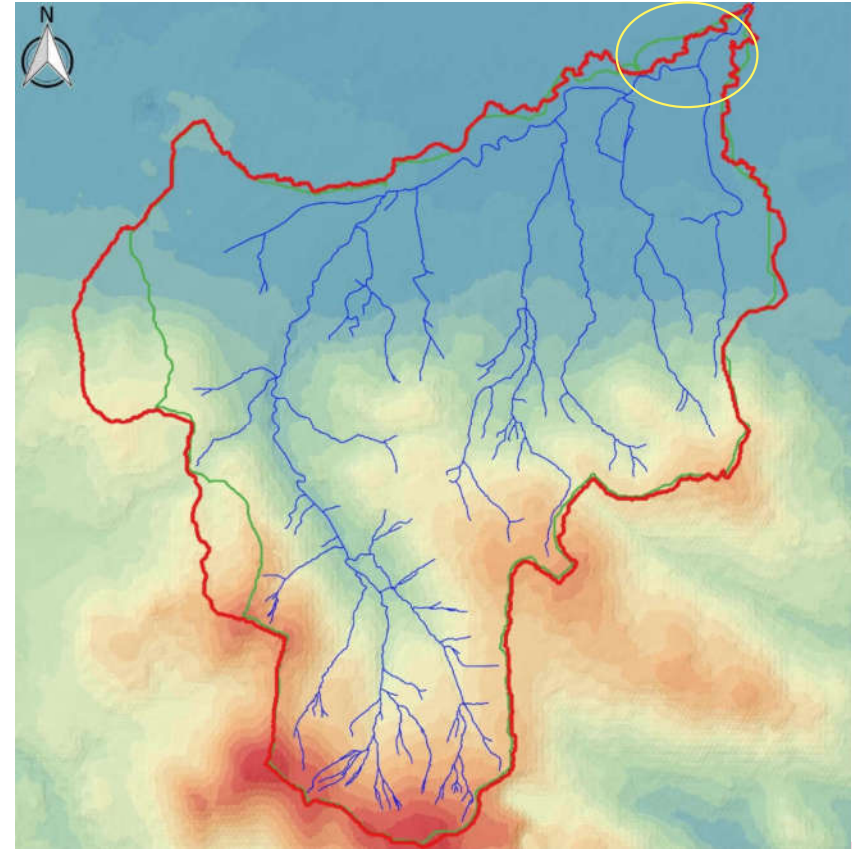
Programme





## Background

- Significant flood risk along Dodder Valley
- Flashy Catchment due to Topography and Urbanisation
- Steering Group
  - Dublin City Council – Lead Authority
  - Dun Laoghaire-Rathdown County Council and OPW
- Phase 3 - Orwell Road (Waldron's) Bridge to Clonskeagh Road Bridge



1. Public Consultation Day	14 <sup>th</sup> January 2020
2. Presentation to Councillors	12 <sup>th</sup> June 2023
3. Public Participation Event	22 <sup>nd</sup> June 2023
4. Final Public Consultation Day	May 2024
5. Planning Stage (Part X)	October 2024



Final Public Consultation Day for Stage 1 to be held in May/June 2024 at a venue to be confirmed

## Current Status – Works Completed



- Topographical Surveys
  - Culvert and Manhole Survey
  - Hydrology Assessment
  - Hydraulic Modelling and Baseline Flood Mapping
  - Invasive Species Treatment Contract (2020-2023)
  - Hydrogeomorphology Study
  - Initial Screening of Options
  - Options Development
- Environmental Surveys & Reports
    - Biodiversity (Bats, Aquatic Ecology, Mammals, Birds)
    - Noise and Vibration
    - Air & Climate
    - Landscape & Visual
    - Cultural Heritage
    - EIA Screening & Scoping
    - AA Screening

## Current Status – Works Ongoing



1. Site Investigation Contract Awarded - ongoing
2. Invasive Species Treatment Contract (2024)
3. Top-up Ecology Surveys ongoing (Birds, Bats)
4. Arboreal Impact Assessment - Trees
5. Landscape Design
6. Photomontages
7. Finalising Preferred Option
8. Assessment of Scheme Benefits
9. Estimates for Scheme Cost and Benefit/Cost Ratio
10. Preparation of Environment Impact Assessment Report
11. Preparation of Natura Impact Statement

## Flood Defence Measures Screened Out

- Structural Measures
  - Individual Property Protection
  - Property Relocation
  - Property / Infrastructure Reconstruction
  - Upstream Flood Storage
  - Diversion of entire river
  - Flood flow bypass channel
- Do Nothing
- Do Minimum
- Non-Structural Measures
  - Sustainable Urban Drainage Systems (SuDS)
  - Flood Forecasting/ Flood Warning



### Non-Structural Measures

- Planning Control / Land Use Management
- Upstream Catchment Management
- Building Regulations
- Public Awareness

### Flood Containment

- Rehabilitate / Improve Existing Defences
- New Flood Walls and Embankments
- Demountable Flood Defence Barriers / Gates

### Conveyance Improvements

- Channel Upgrade
- Removal of Local Constraints
- Channel Maintenance
- Stormwater Drainage





## Evaluation Criteria



- Social
- Economic
- Environmental
- Technical

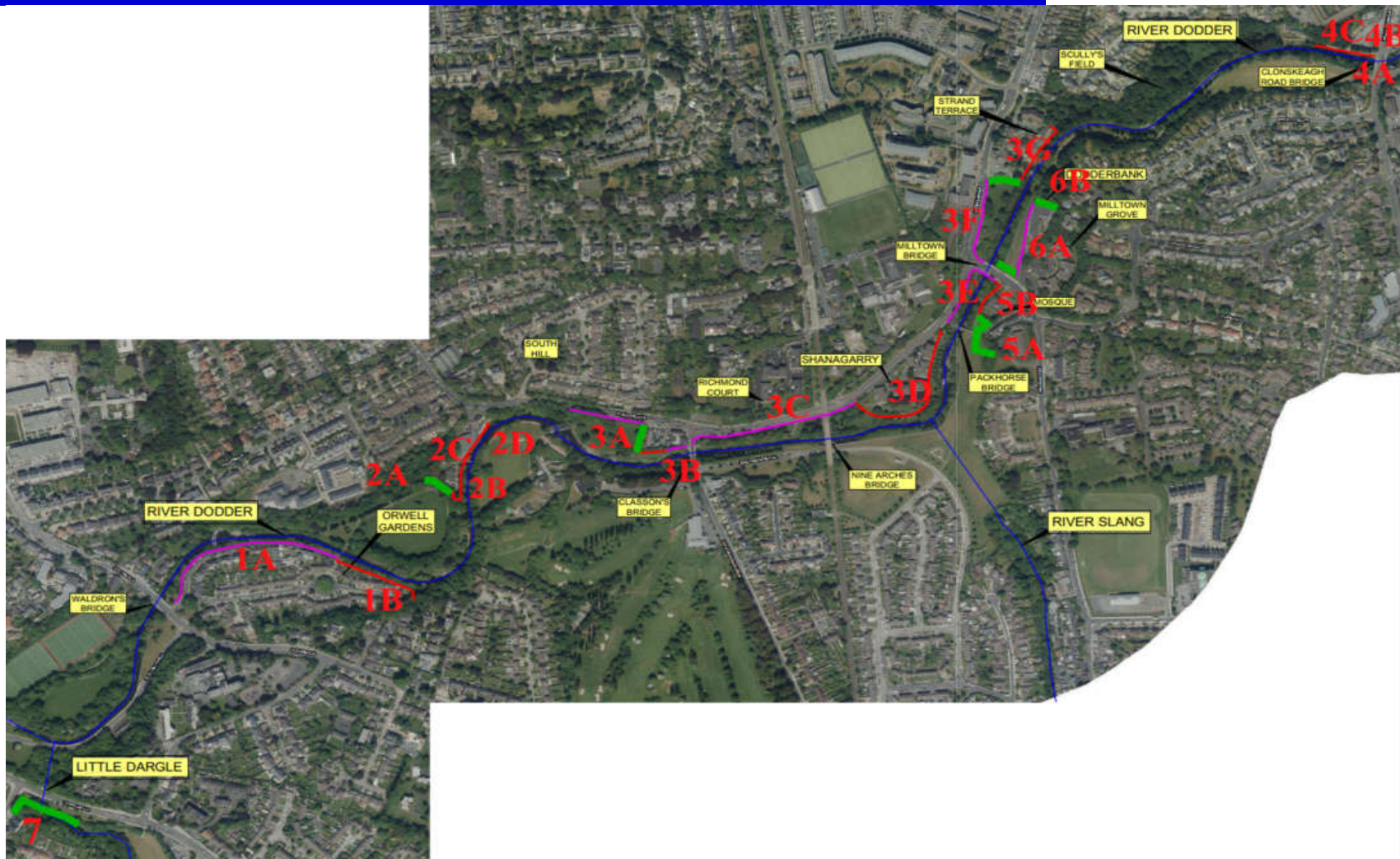
- Rehabilitate / Improve Existing Defences.
- New Flood Defence Walls / Embankments.



### Coordination with Other Projects.

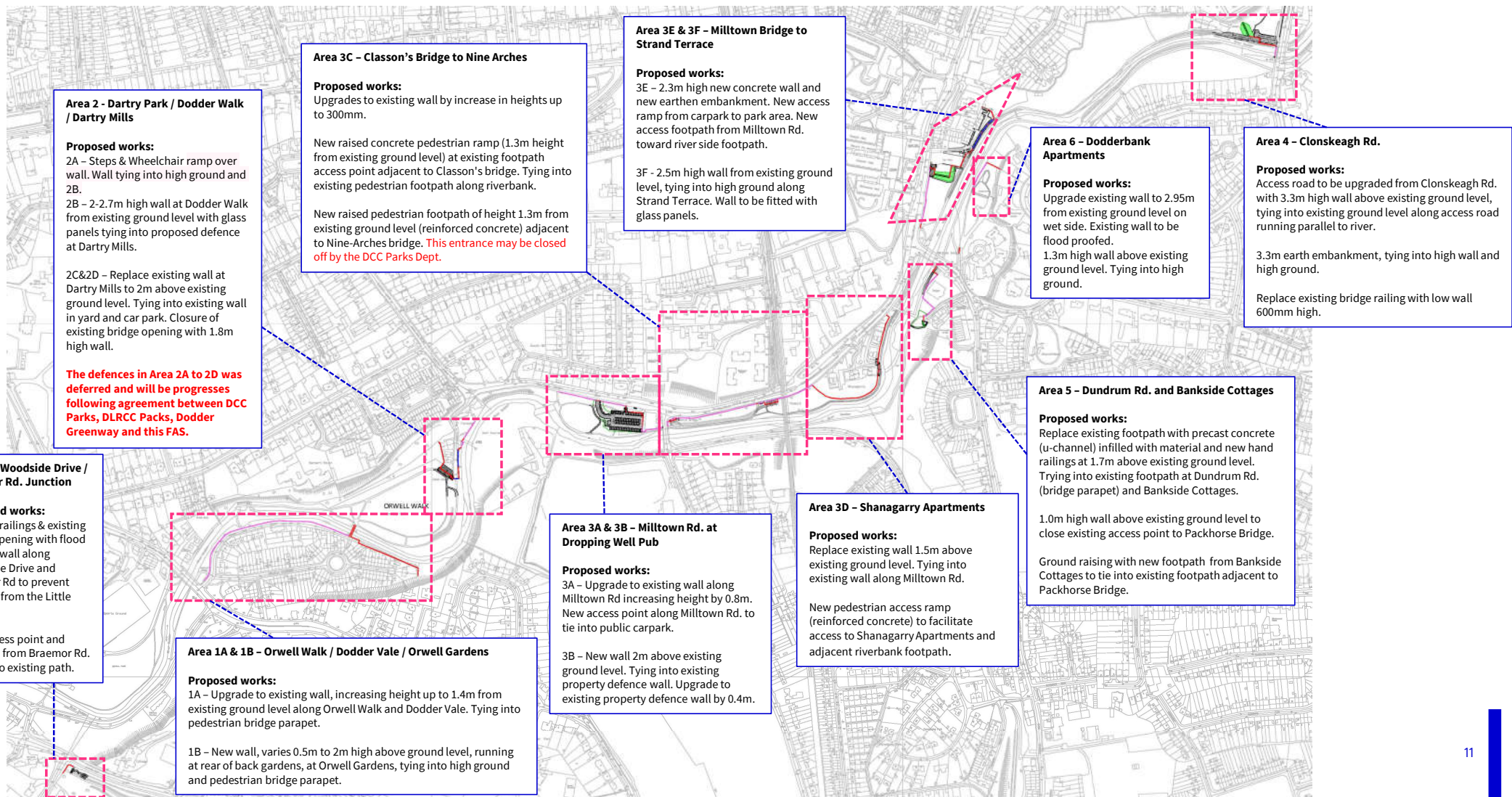
- Dodder Greenway.
- Nine Arches Rain Garden.

## River Dodder FAS Phase 3 Overall Scheme Layout



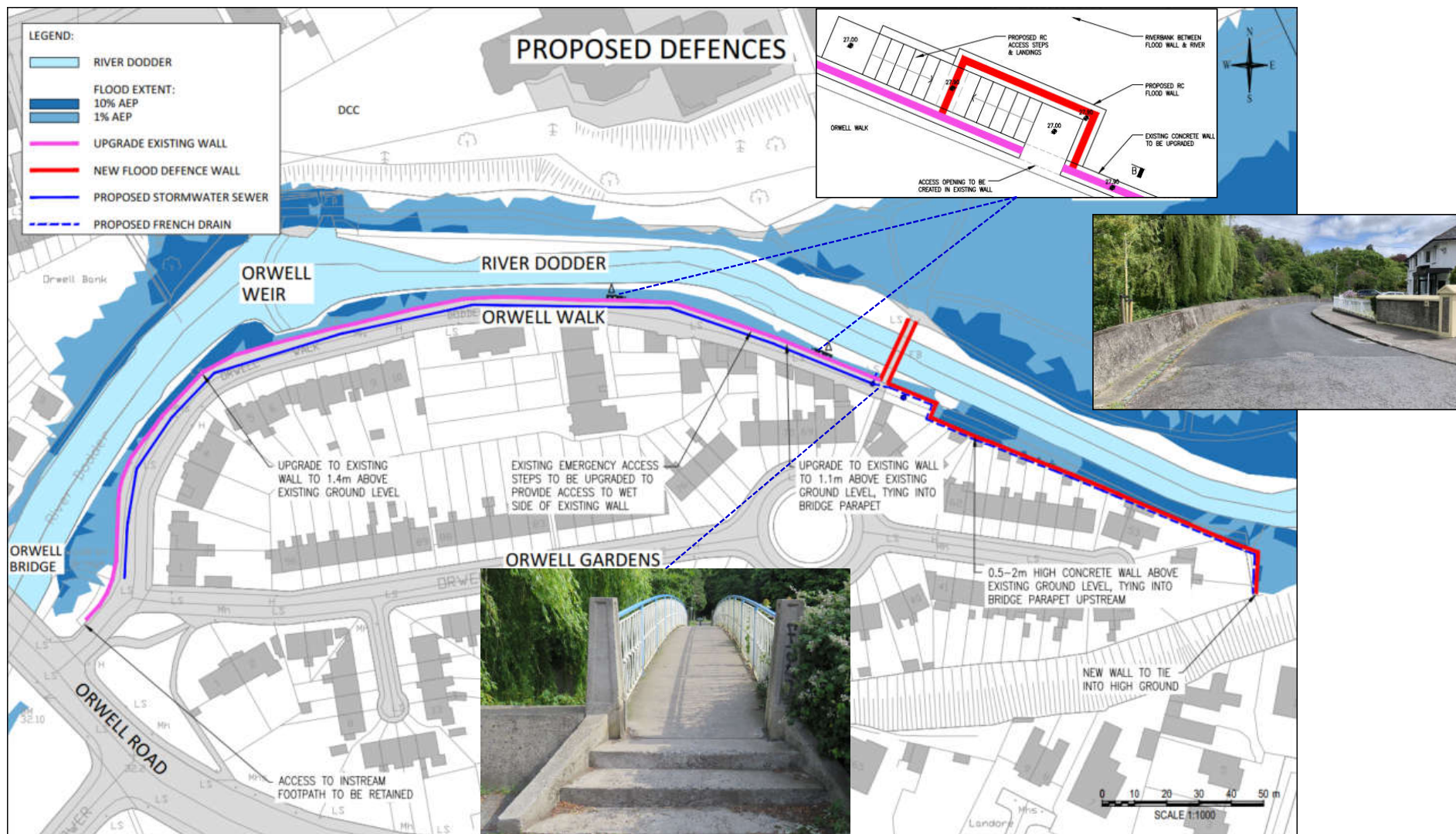


# River Dodder FAS Phase 3 Overall Scheme Layout

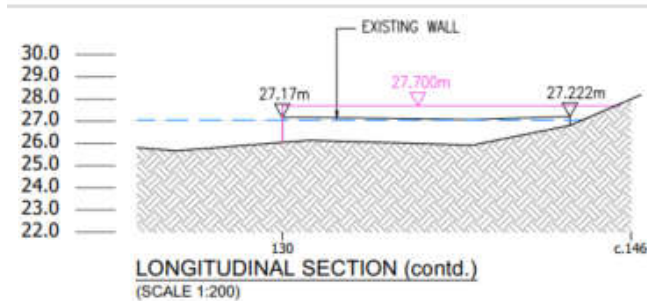
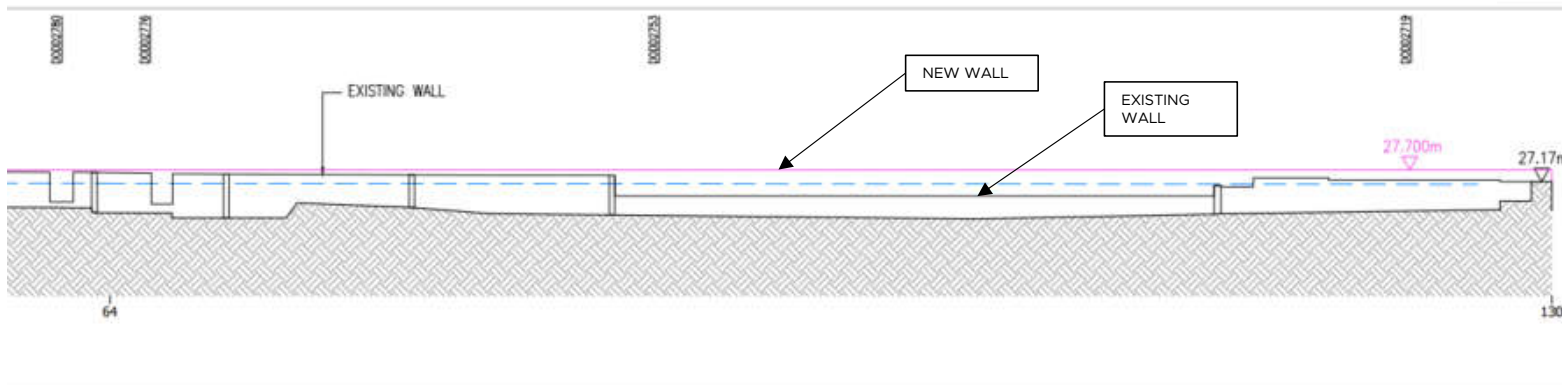
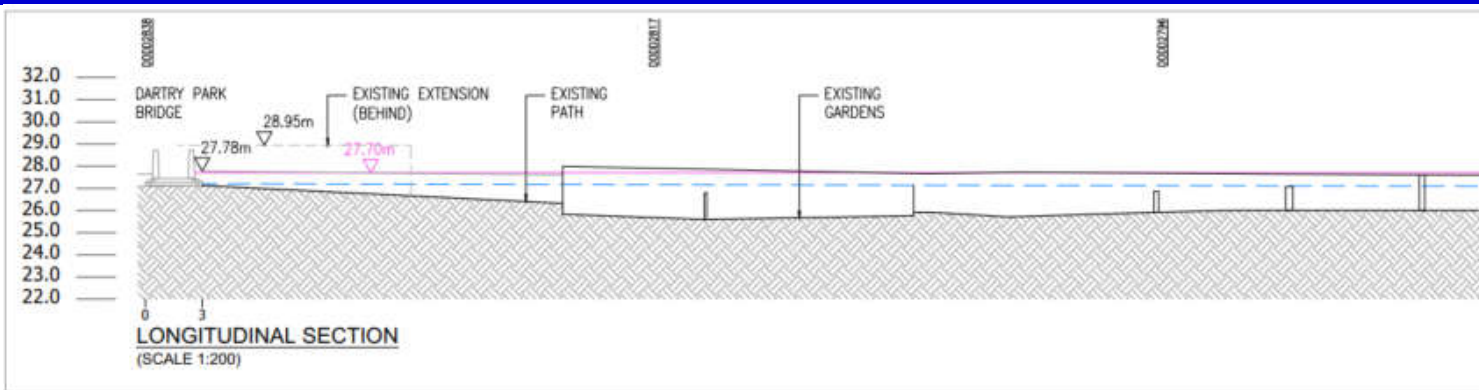




# Area 1A & 1B – Orwell Walk / Dodder Vale / Orwell Gardens – Right Bank

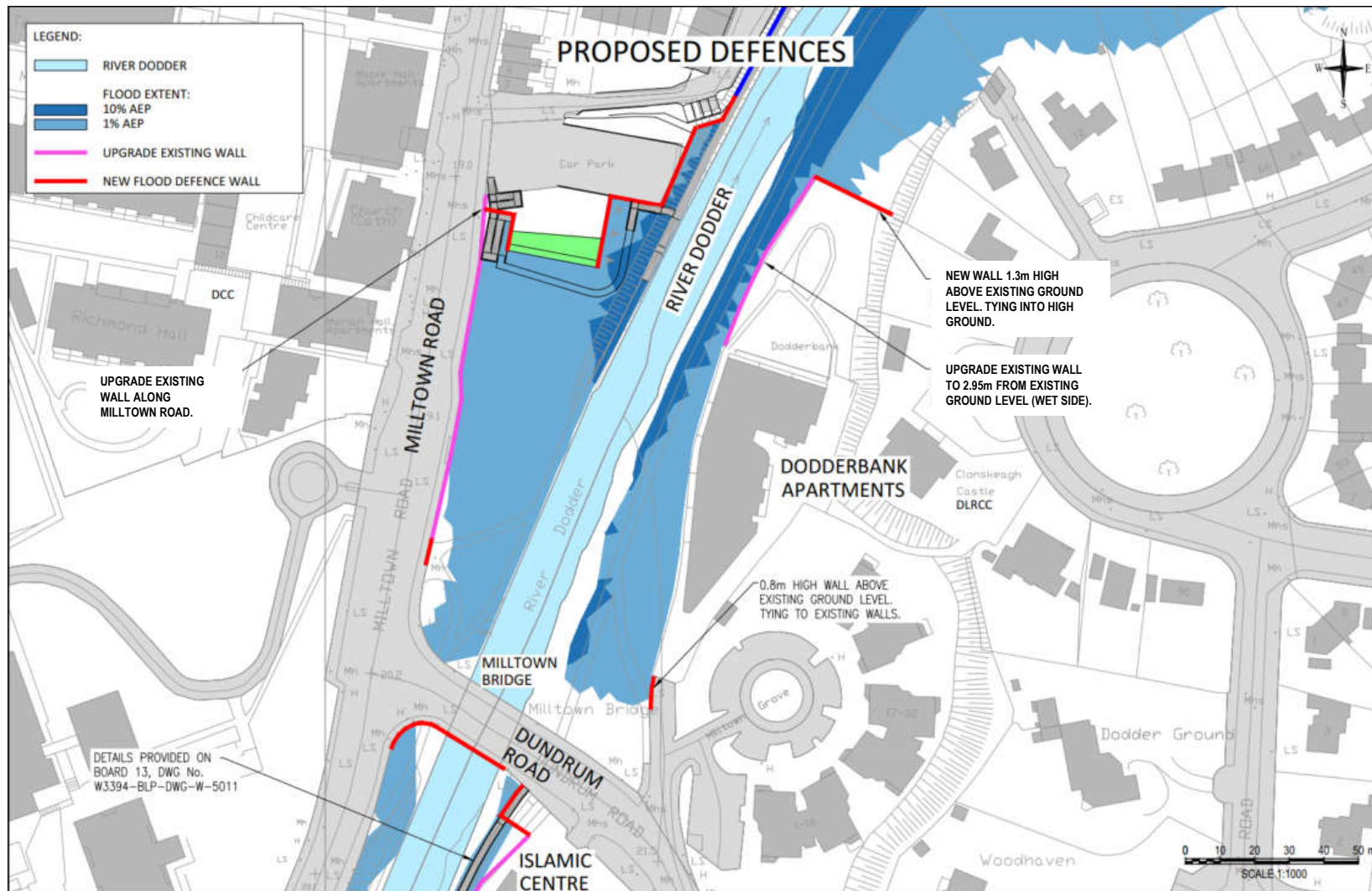


## Area 1B – Orwell Gardens, Wall Section – Right Bank

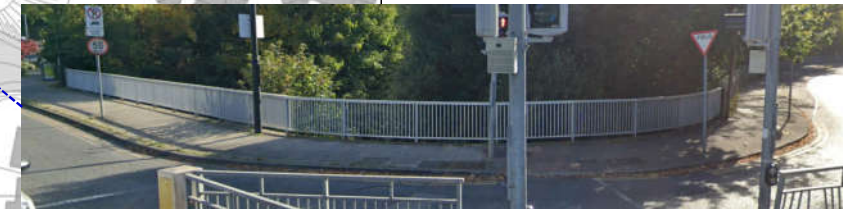
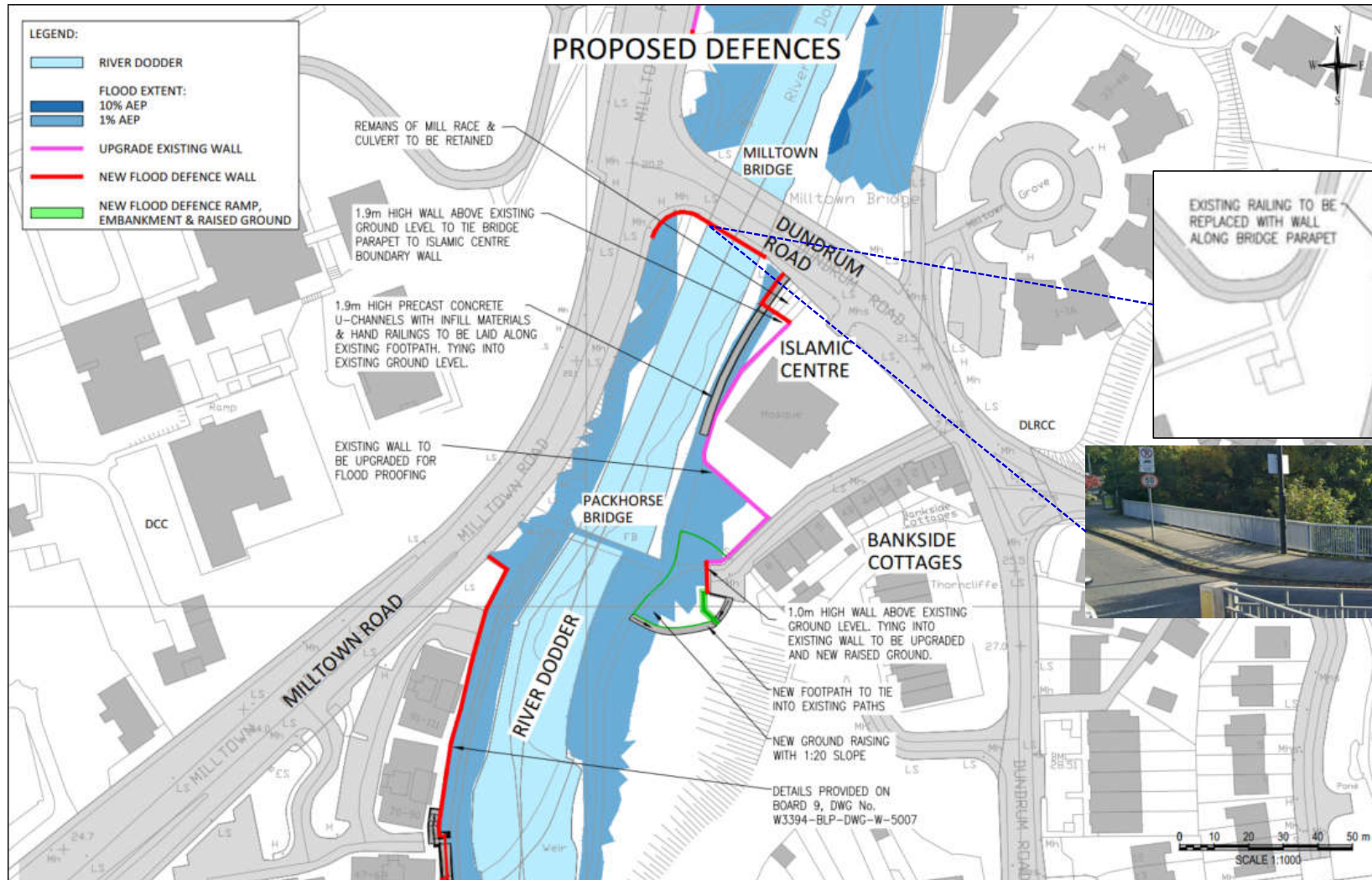




## Area 6 – Dodderbank Apartments - Right Bank

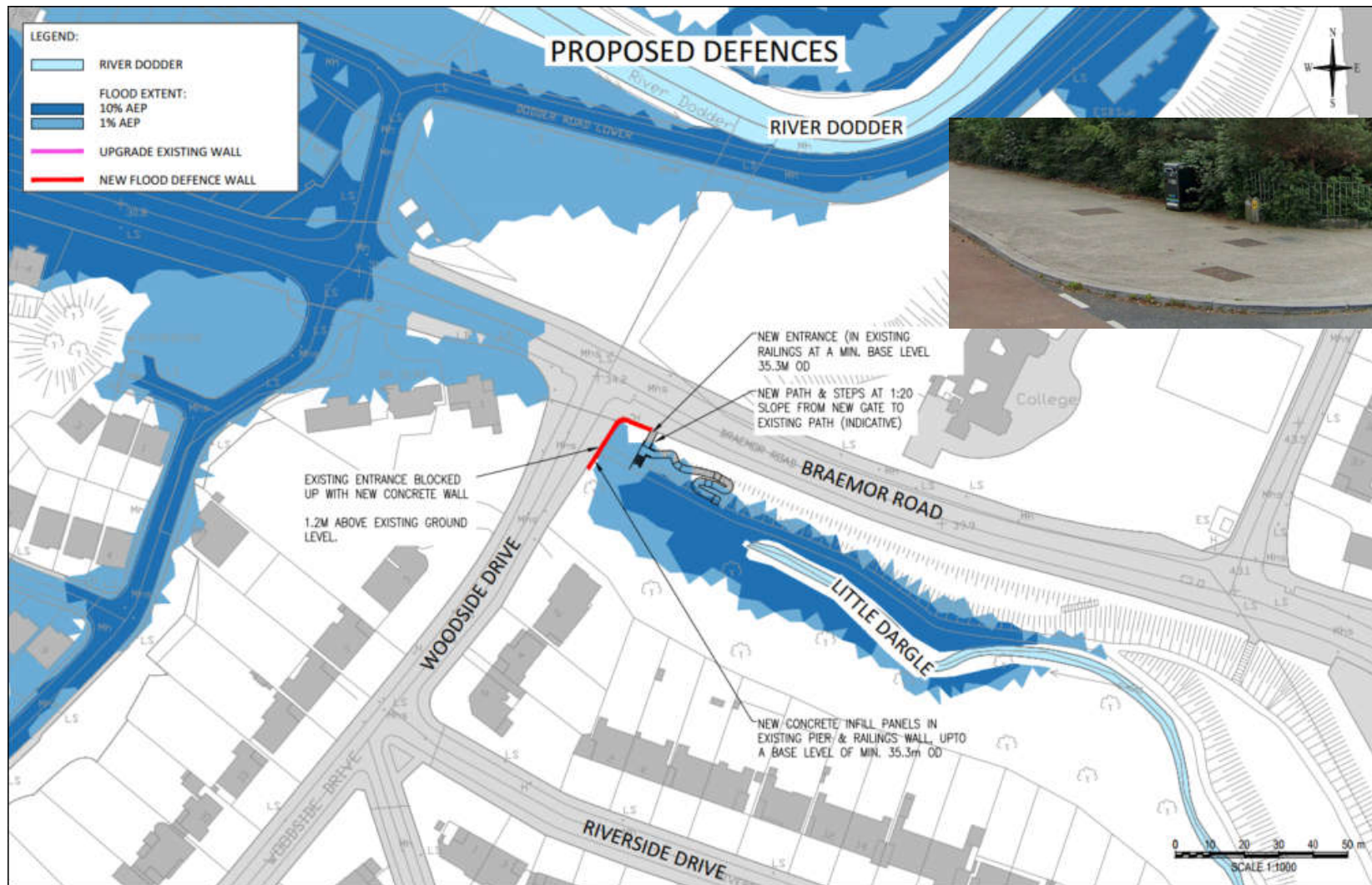


## Area 5 – Dundrum Road and Bankside Cottages - Right Bank

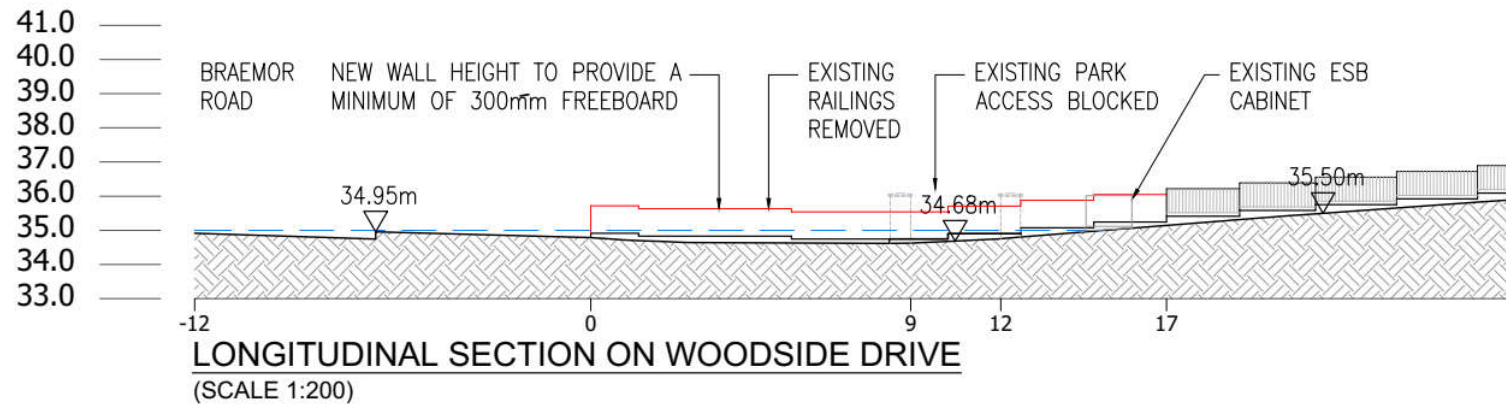
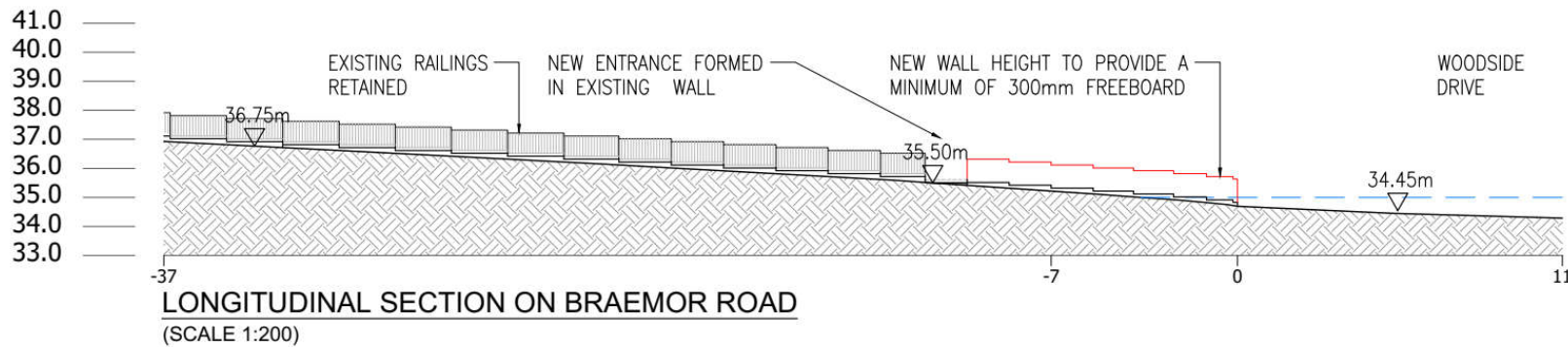




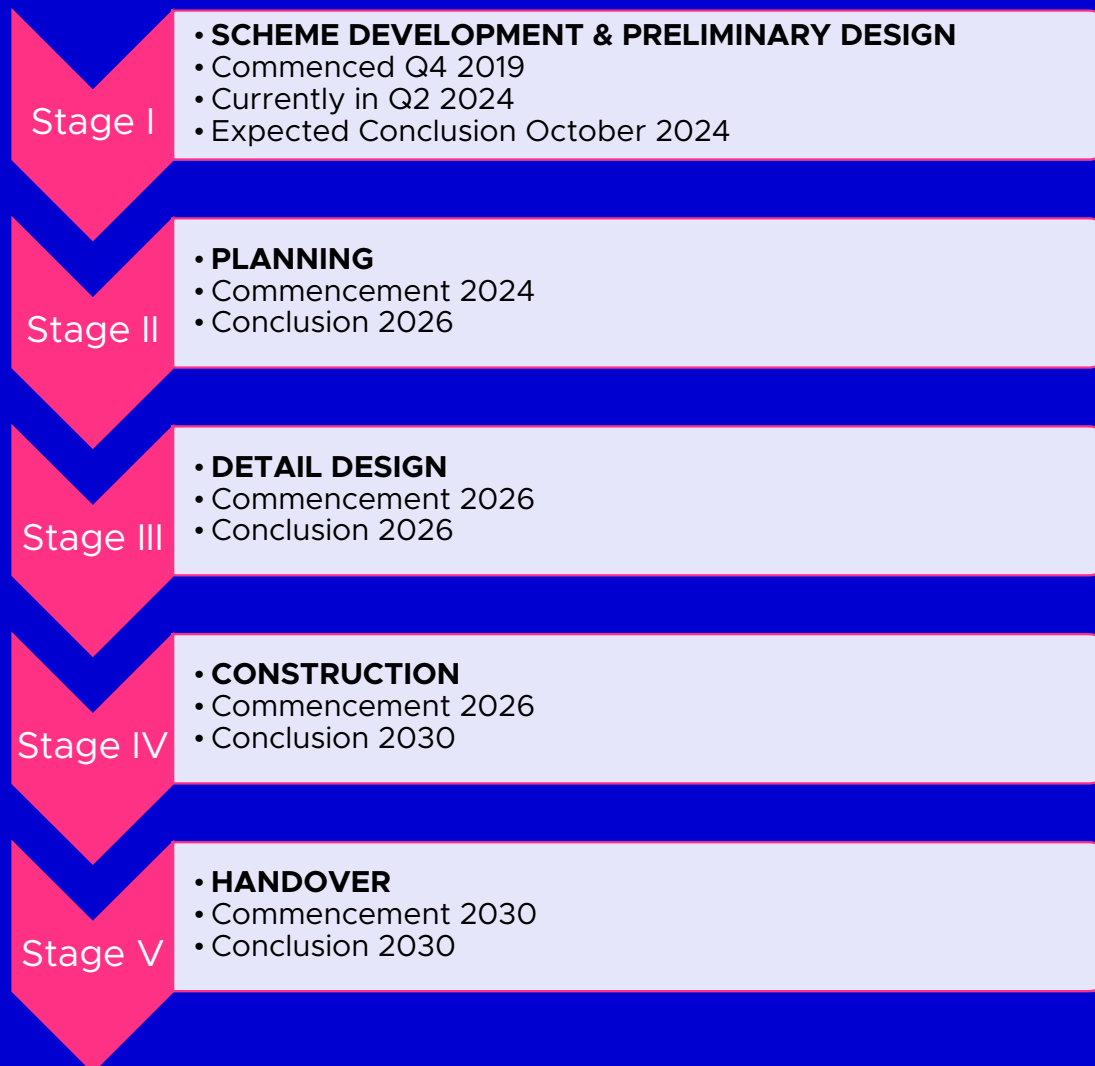
## Area 7 – Woodside Drive / Braemor Road Junction- South (DLR)



## Area 7 – Woodside Drive / Braemor Road Junction- South (DLR)



# Programme





Thank you!

[www.ayesa.com](http://www.ayesa.com)

