



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 Dublin South East Area Committee
08 April 2024



Jannie Burger & Seán Harrington

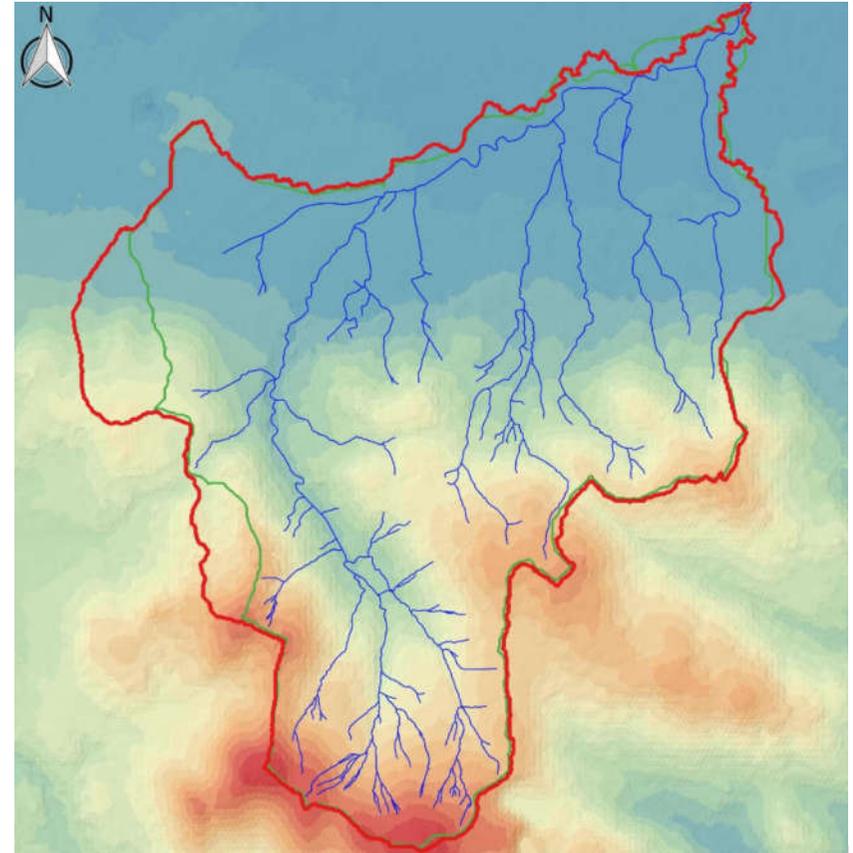
Contents

- Background
- Public Participation and Consultation
- Current Status
- Initial Screening
- Emerging Option
- Overall Scheme
- Current Design
- Programme

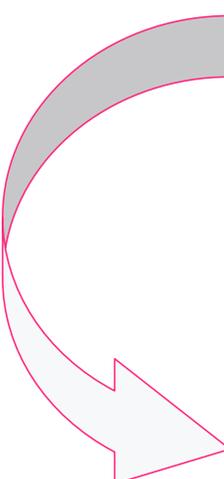


Background

- 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 th January 2020 |
| 2. Presentation to Councillors | 12 th June 2023 |
| 3. Public Participation Event | 22 nd 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 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
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

- 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

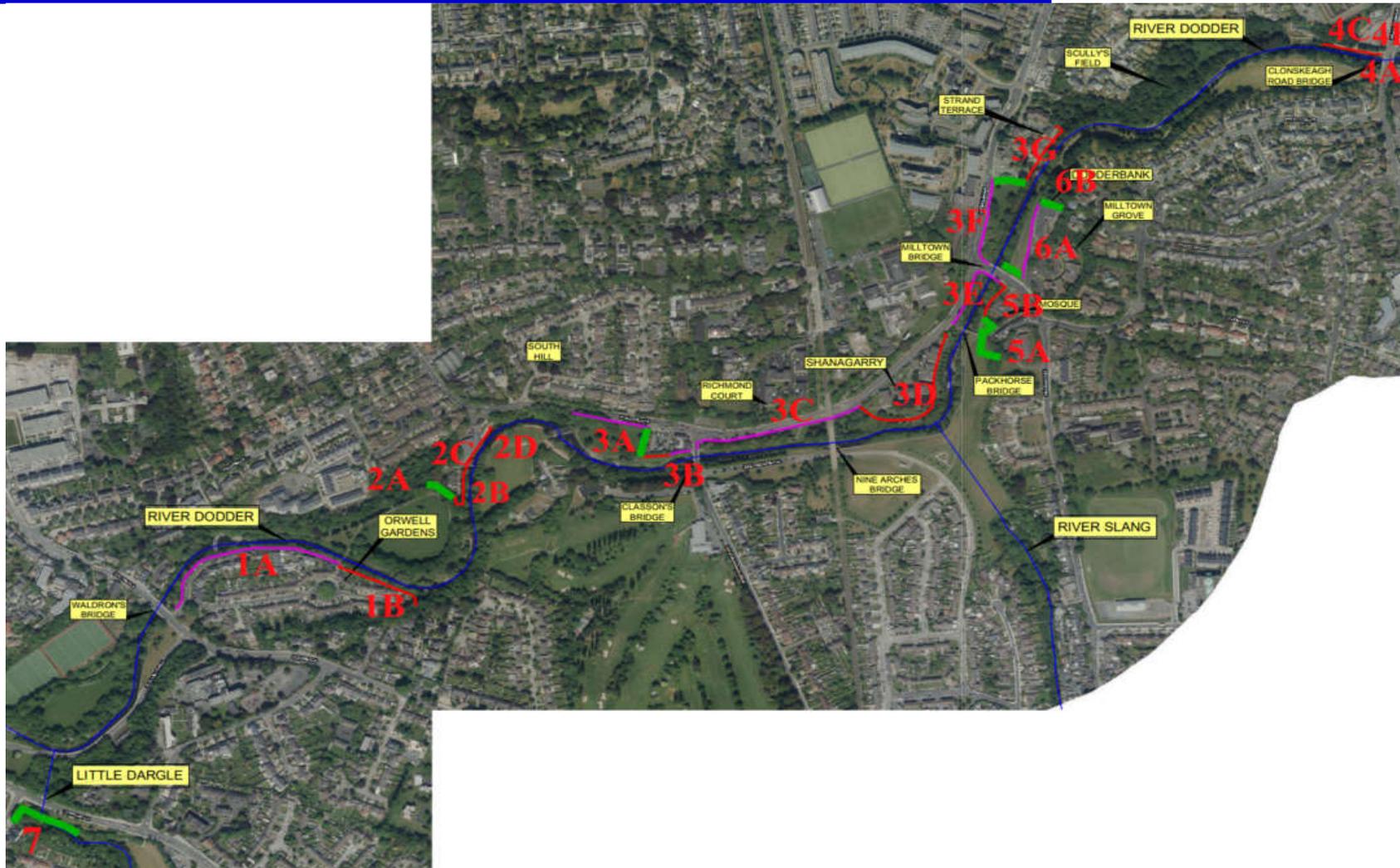
- Rehabilitate / Improve Existing Defences.
- New Flood Defence Walls / Embankments.



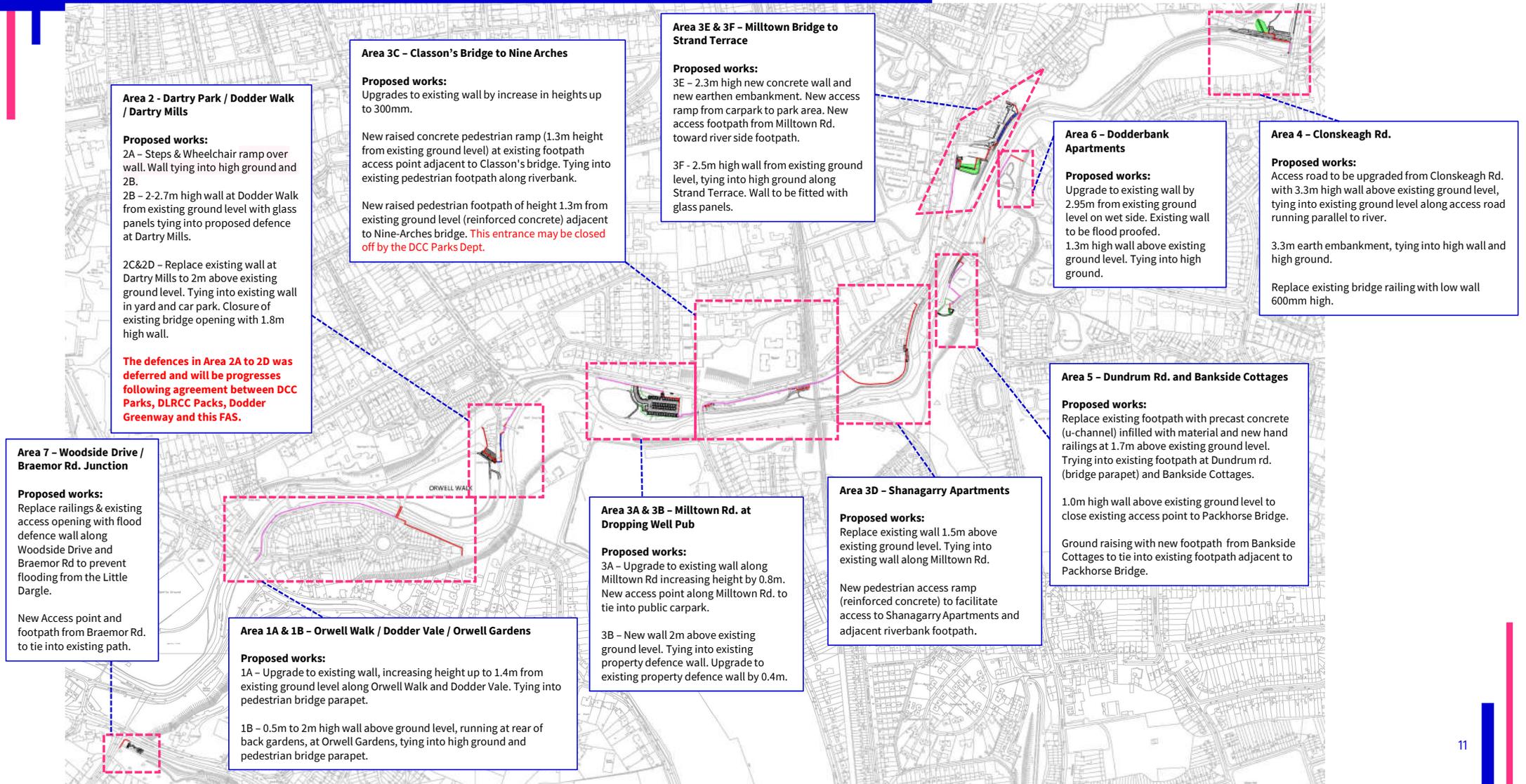
Coordination with Other Projects.

- Dodder Greenway.
- Nine Arches Rain Garden.

River Dodder FAS Phase 3 Overall Scheme Layout



River Dodder FAS Phase 3 Overall Scheme Layout



Area 2 - Dartry Park / Dodder Walk / Dartry Mills

Proposed works:

2A - Steps & Wheelchair ramp over wall. Wall tying into high ground and 2B.
2B - 2-2.7m high wall at Dodder Walk from existing ground level with glass panels tying into proposed defence at Dartry Mills.

2C&2D - Replace existing wall at Dartry Mills to 2m above existing ground level. Tying into existing wall in yard and car park. Closure of existing bridge opening with 1.8m high wall.

The defences in Area 2A to 2D was deferred and will be progresses following agreement between DCC Parks, DLRCC Packs, Dodder Greenway and this FAS.

Area 3C - Classon's Bridge to Nine Arches

Proposed works:

Upgrades to existing wall by increase in heights up to 300mm.

New raised concrete pedestrian ramp (1.3m height from existing ground level) at existing footpath access point adjacent to Classon's bridge. Tying into existing pedestrian footpath along riverbank.

New raised pedestrian footpath of height 1.3m from existing ground level (reinforced concrete) adjacent to Nine-Arches bridge. **This entrance may be closed off by the DCC Parks Dept.**

Area 3E & 3F - Milltown Bridge to Strand Terrace

Proposed works:

3E - 2.3m high new concrete wall and new earthen embankment. New access ramp from carpark to park area. New access footpath from Milltown Rd. toward river side footpath.

3F - 2.5m high wall from existing ground level, tying into high ground along Strand Terrace. Wall to be fitted with glass panels.

Area 6 - Dodderbank Apartments

Proposed works:

Upgrade to existing wall by 2.95m from existing ground level on wet side. Existing wall to be flood proofed.

1.3m high wall above existing ground level. Tying into high ground.

Area 4 - Clonskeagh Rd.

Proposed works:

Access road to be upgraded from Clonskeagh Rd. with 3.3m high wall above existing ground level, tying into existing ground level along access road running parallel to river.

3.3m earth embankment, tying into high wall and high ground.

Replace existing bridge railing with low wall 600mm high.

Area 5 - Dundrum Rd. and Bankside Cottages

Proposed works:

Replace existing footpath with precast concrete (u-channel) infilled with material and new hand railings at 1.7m above existing ground level. Tying into existing footpath at Dundrum rd. (bridge parapet) and Bankside Cottages.

1.0m high wall above existing ground level to close existing access point to Packhorse Bridge.

Ground raising with new footpath from Bankside Cottages to tie into existing footpath adjacent to Packhorse Bridge.

Area 7 - Woodside Drive / Braemor Rd. Junction

Proposed works:

Replace railings & existing access opening with flood defence wall along Woodside Drive and Braemor Rd to prevent flooding from the Little Dargle.

New Access point and footpath from Braemor Rd. to tie into existing path.

Area 3A & 3B - Milltown Rd. at Dropping Well Pub

Proposed works:

3A - Upgrade to existing wall along Milltown Rd increasing height by 0.8m. New access point along Milltown Rd. to tie into public carpark.

3B - New wall 2m above existing ground level. Tying into existing property defence wall. Upgrade to existing property defence wall by 0.4m.

Area 3D - Shanagarry Apartments

Proposed works:

Replace existing wall 1.5m above existing ground level. Tying into existing wall along Milltown Rd.

New pedestrian access ramp (reinforced concrete) to facilitate access to Shanagarry Apartments and adjacent riverbank footpath.

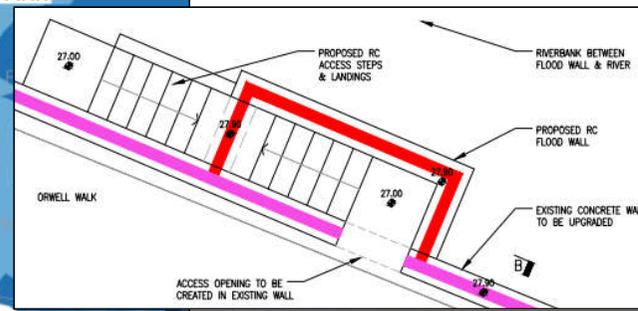
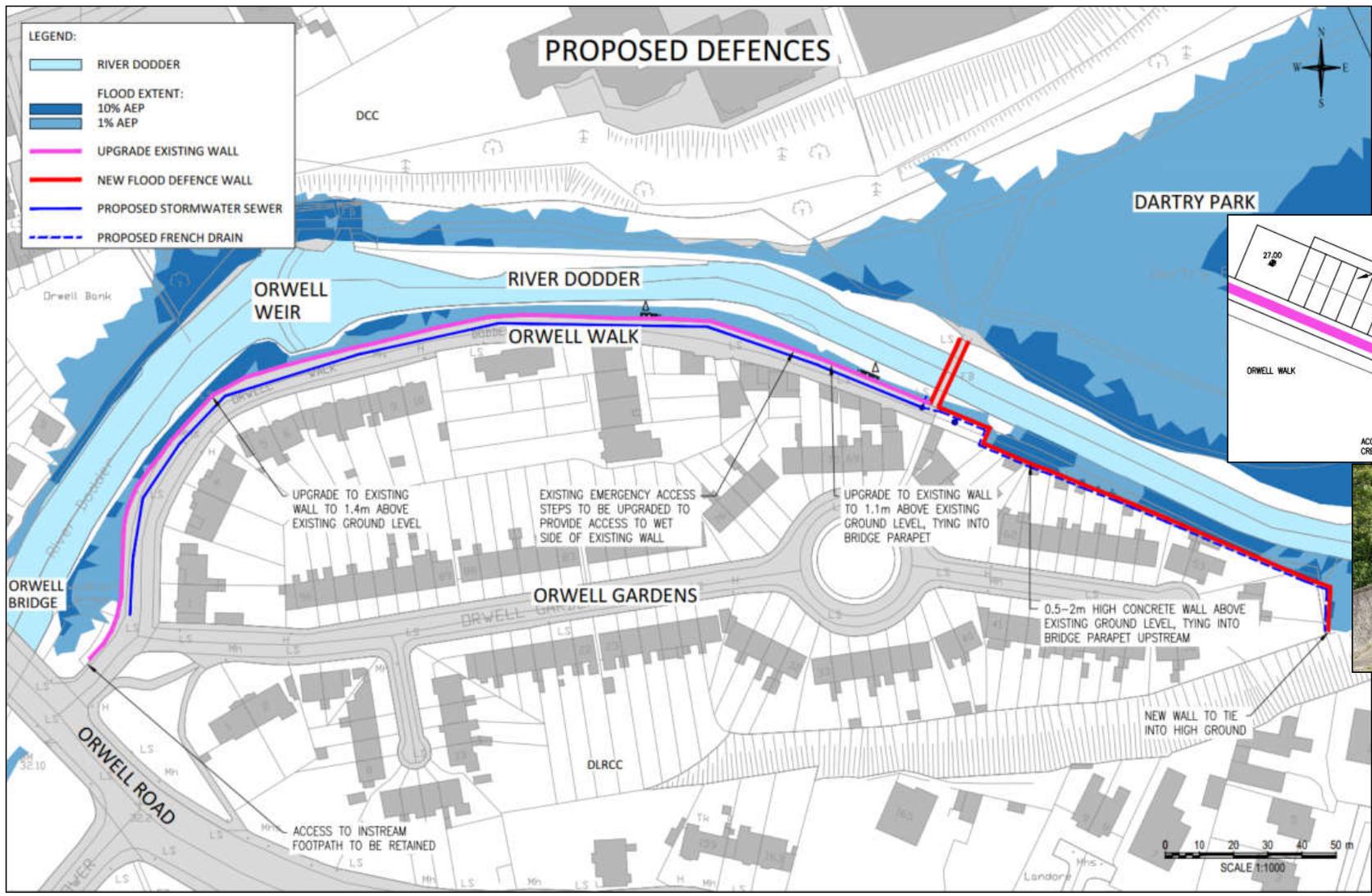
Area 1A & 1B - Orwell Walk / Dodder Vale / Orwell Gardens

Proposed works:

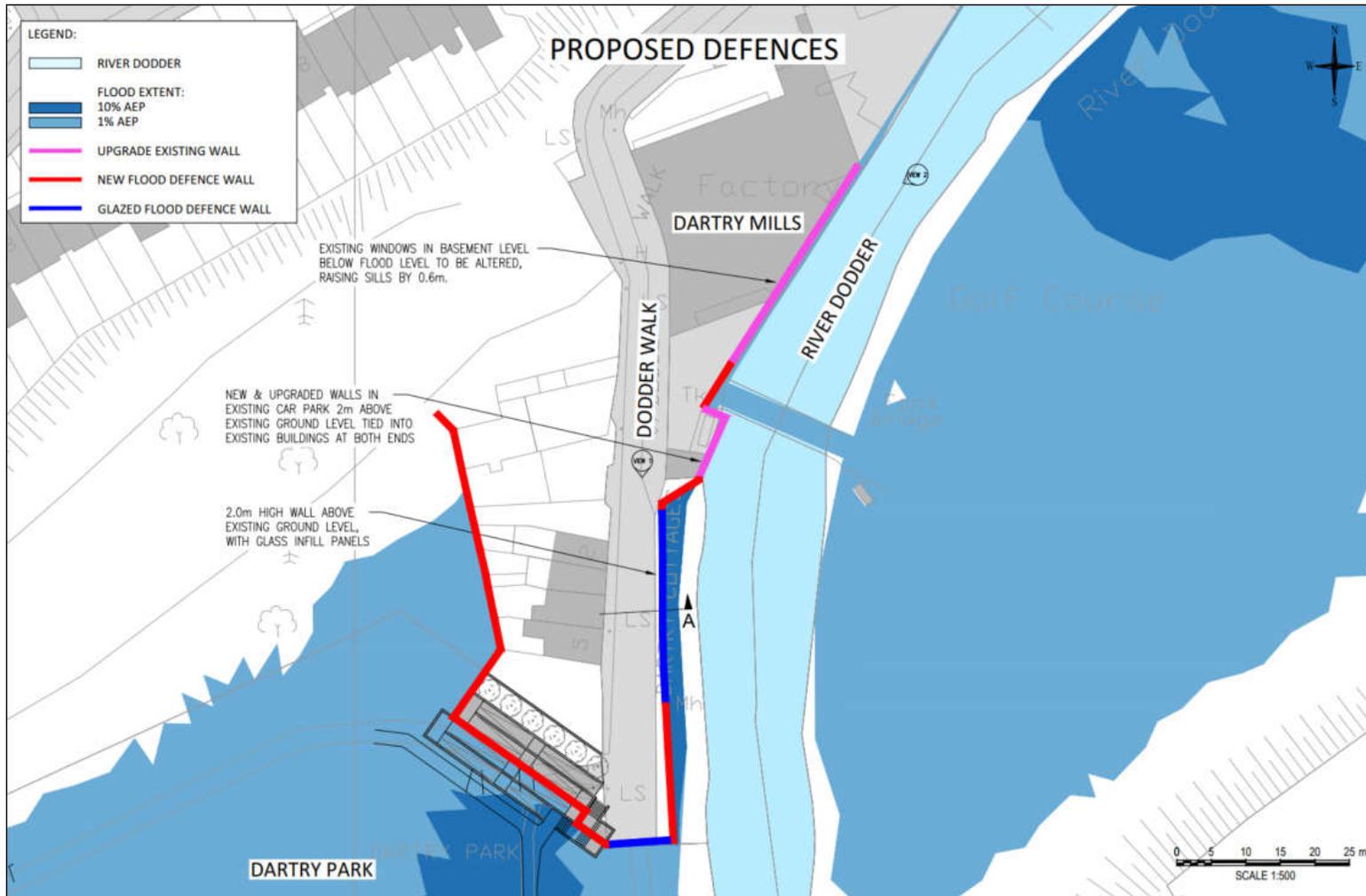
1A - Upgrade to existing wall, increasing height up to 1.4m from existing ground level along Orwell Walk and Dodder Vale. Tying into pedestrian bridge parapet.

1B - 0.5m to 2m high wall above ground level, running at rear of back gardens, at Orwell Gardens, tying into high ground and pedestrian bridge parapet.

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

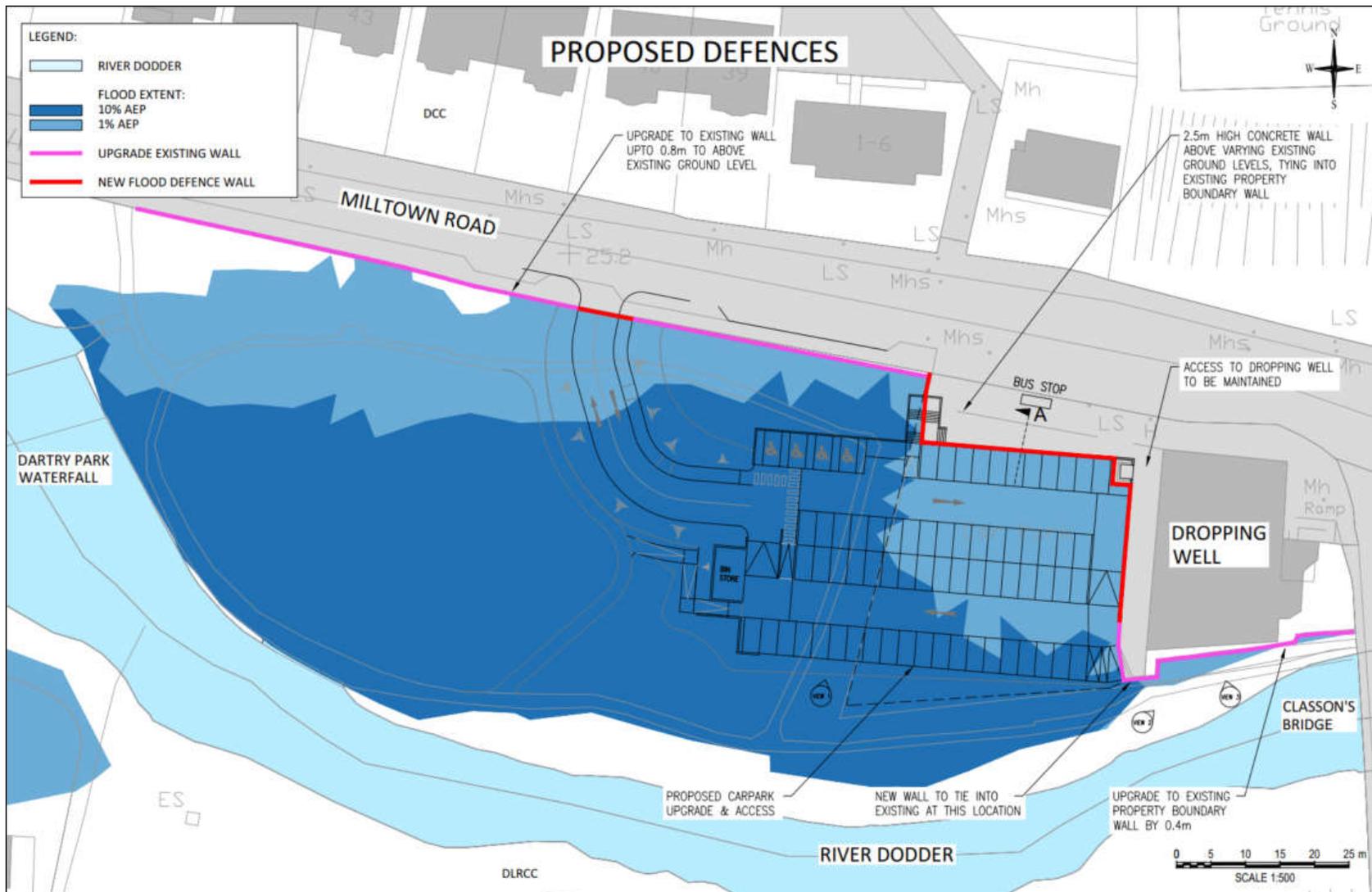


Area 2A to 2D – Dartry Park / Dodder Walk / Dartry Mills

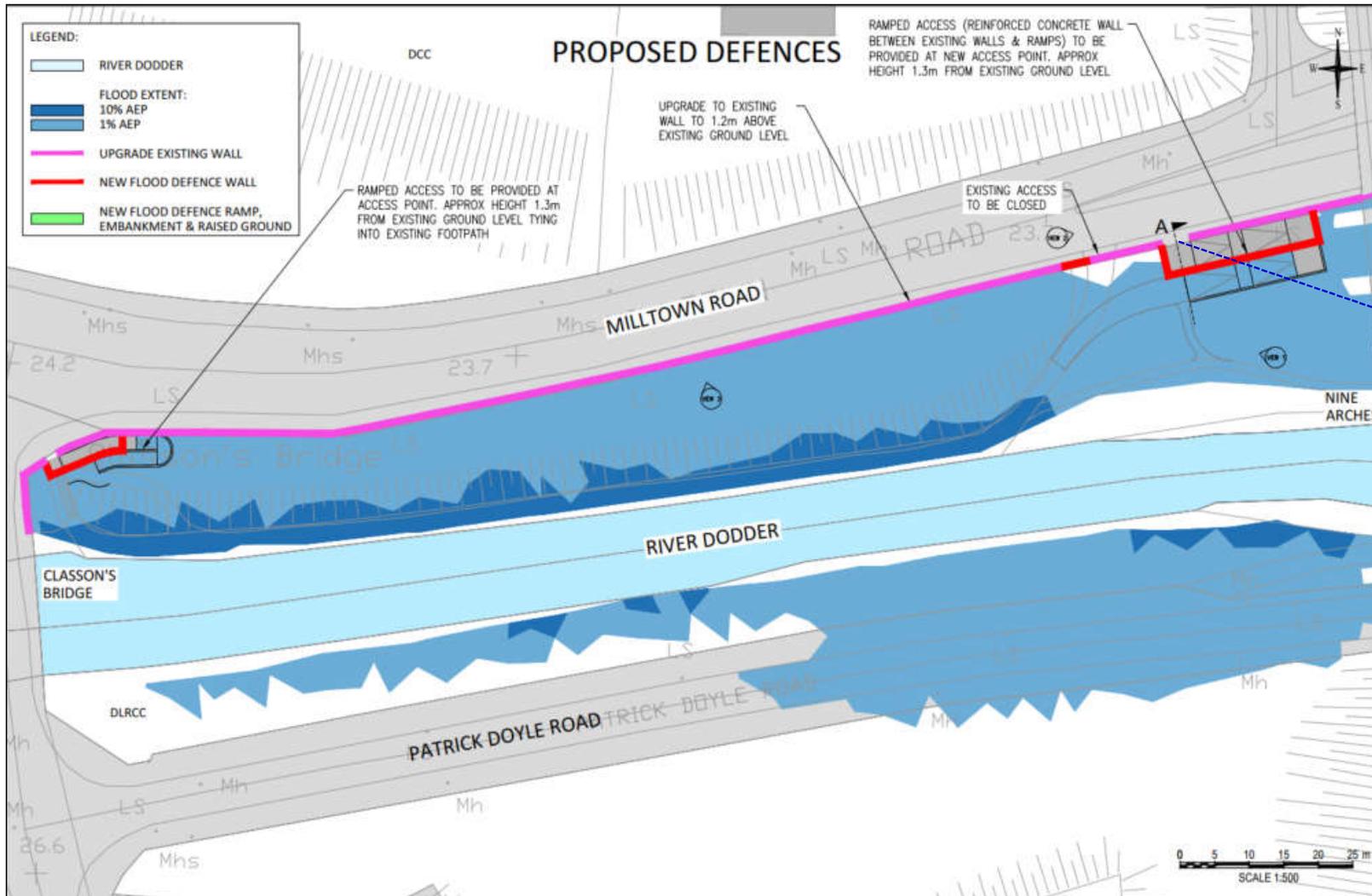


The defences at this location will be omitted from the initial Planning Submission in order to finalise an integrated agreement on a combined solution between DCC Parks, DLRCC Parks & Dodder Greenway.

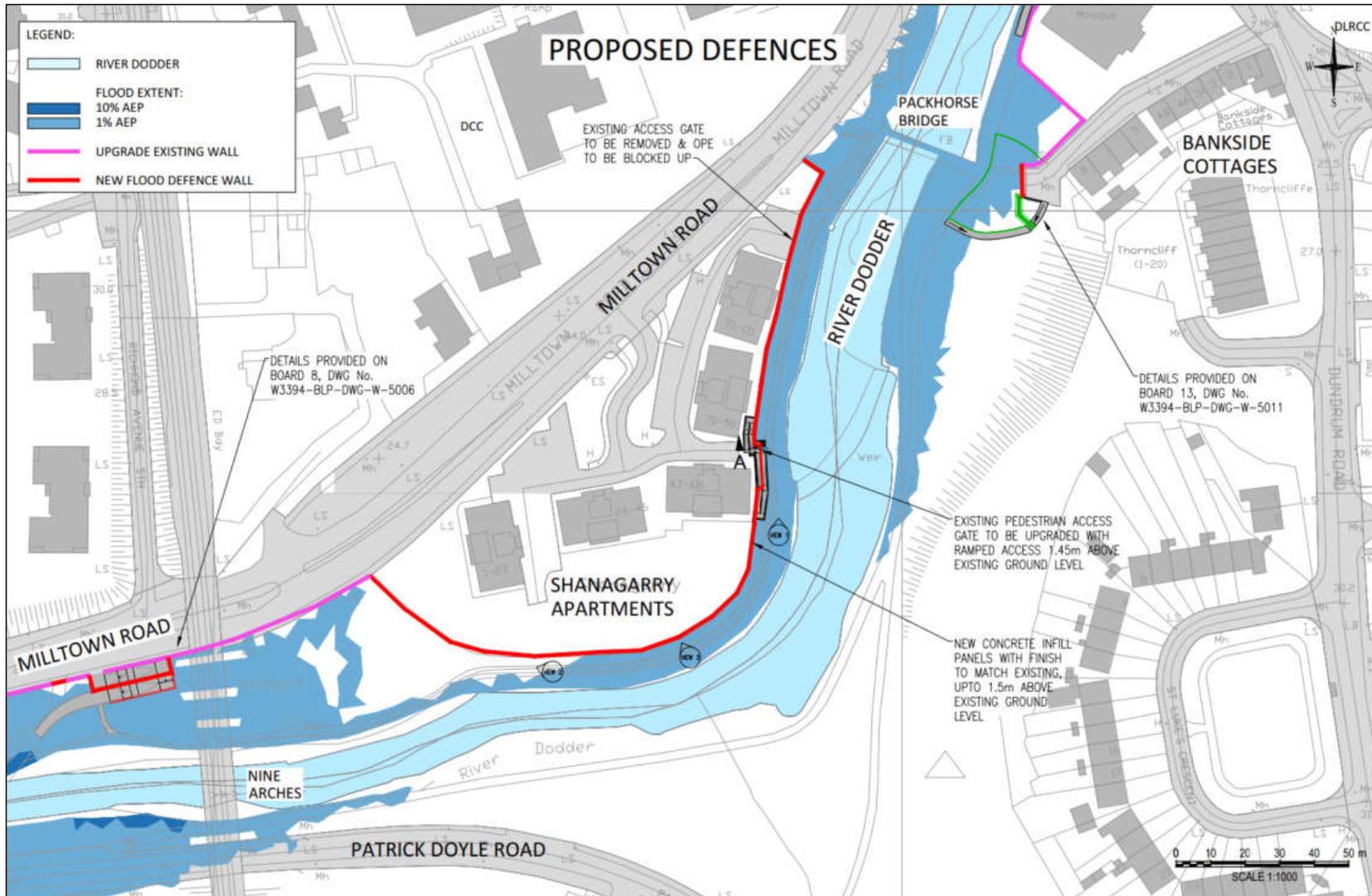
Area 3A & 3B – Milltown Road and Dropping Well



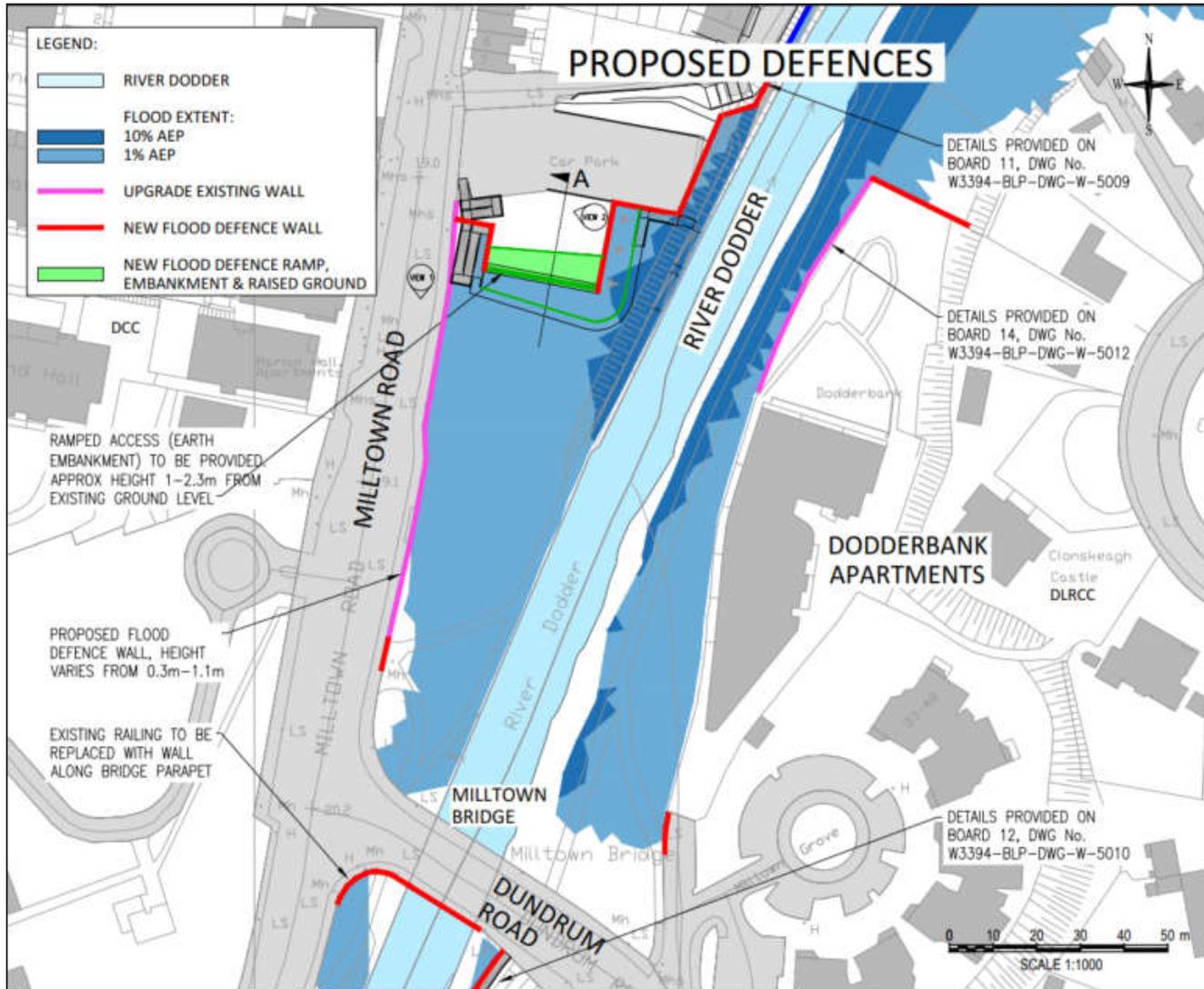
Area 3C – Classon’s Bridge to Nine Arches



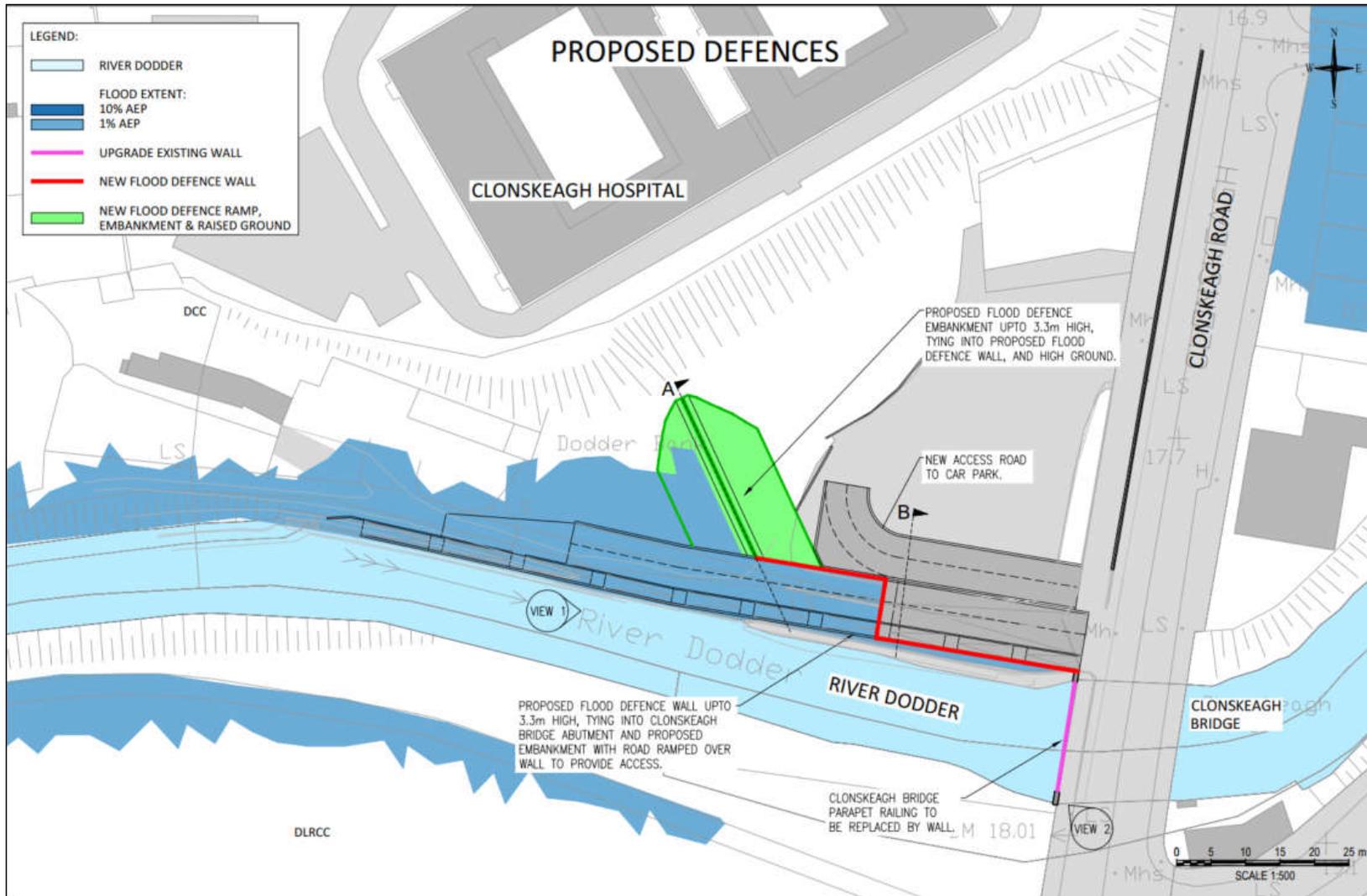
Area 3D – Shanagarry Apartments



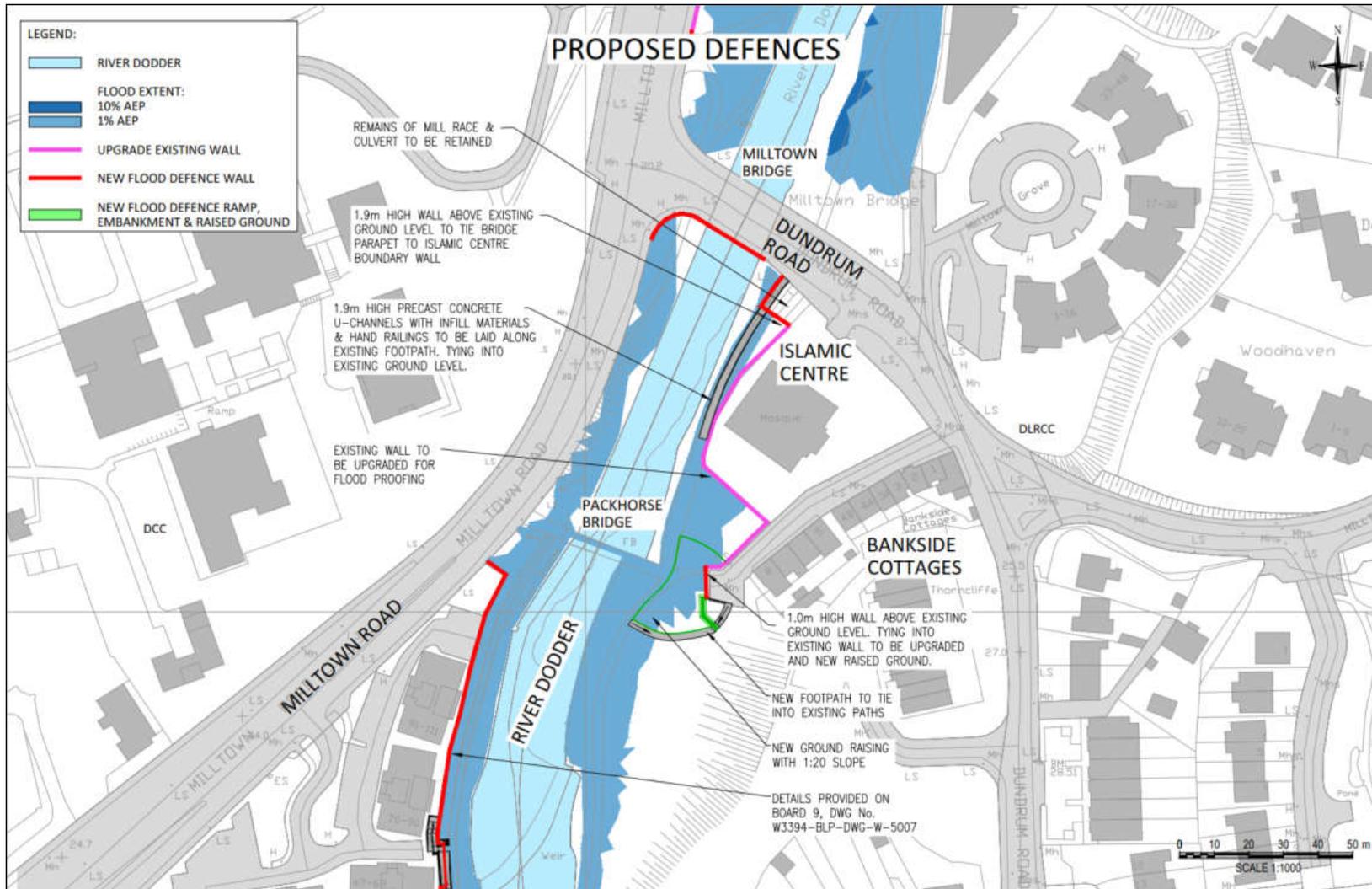
Area 3E & 3F – Milltown Bridge to Strand Terrace



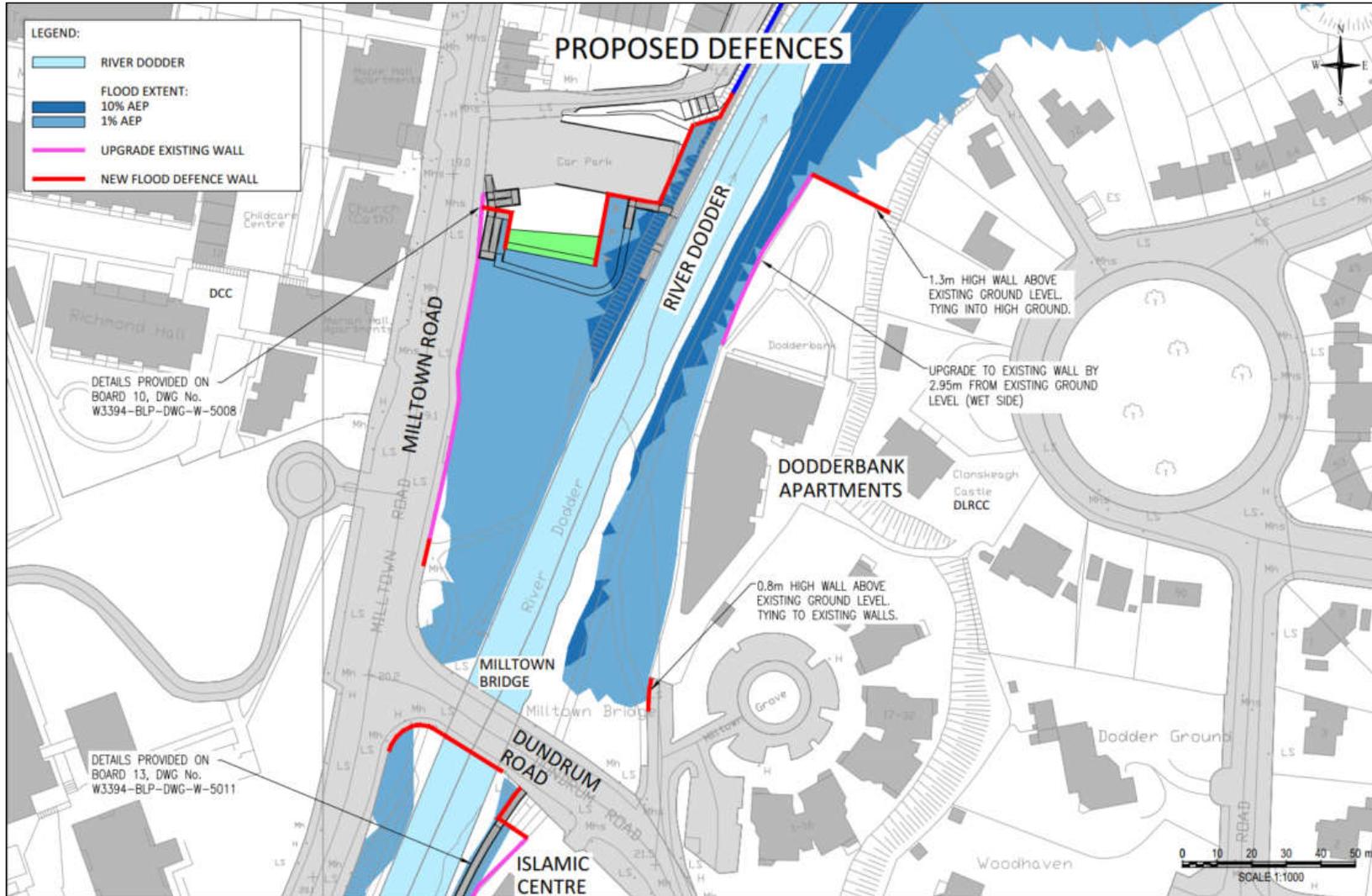
Area 4 – Clonskeagh Road / Farmer Browns



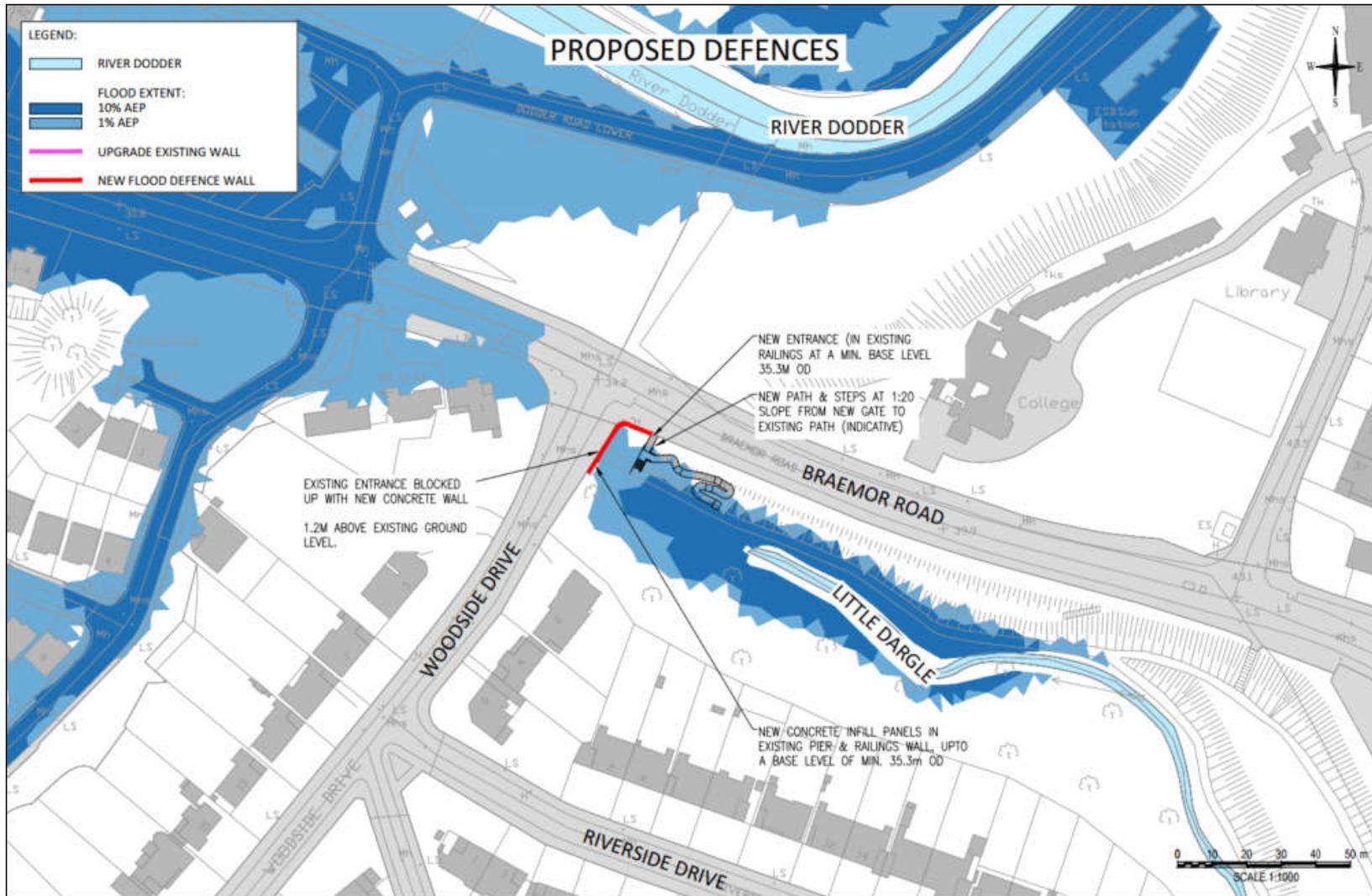
Area 5 – Dundrum Road and Bankside Cottages

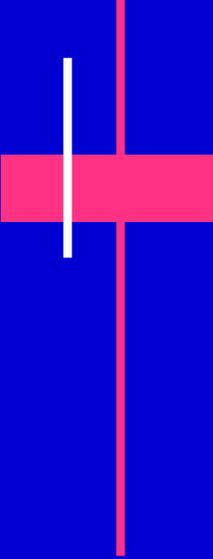


Area 6 – Dodderbank Apartments

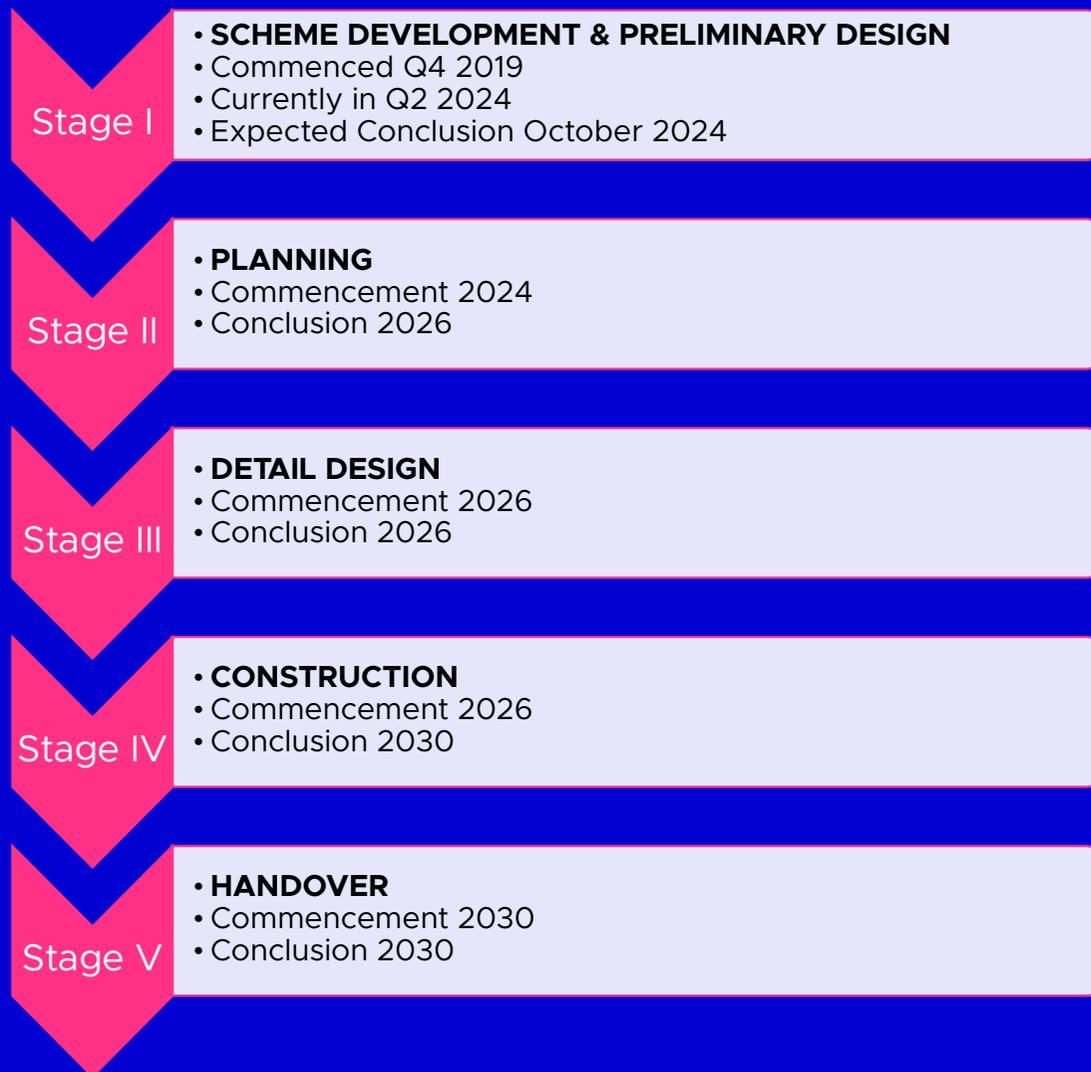


Area 7 – Woodside Drive / Braemor Road Junction





Programme





Thank you!

www.ayesa.com

