Clontarf Flood Protection Project

Clontarf Flood Protection Project is all about protecting people
- Their lives
- Their homes
- Their livelihoods

Clontarf has flooded before
- In February 2002 a 1/60 year event devastated the area.
- At risk of a repeat of this event every year
- Doing nothing to protect people of Clontarf is not an option

2003 – 2005 Coastal Flood Protection Project
- Flood Maps of area at risk
- Tidal surge early warning system

2003-2005 Outline Design
- Range of potential solutions examined to protect people of Clontarf
- Recommended option is NOT a 9 Ft wall for 3 Km.
- Recommended option is a landscaped mounding and some limited walls where not possible (e.g. at car parks).
Photomontages (sample) of Approved Scheme compared to Bord Pleanala Scheme

- Based on indicative output from Design Review.
- Full Design Review to be confirmed in November and requires assessment by OPW and Dublin City Council that it will provide required level of protection.

Photomontage Locations

1. Seaview Av
2. Sports ground
3. Oulton Rd
4. Kincora Rd

Photomontage Locations

View 1
View 2
View 3
View 4

Existing View

Coastal Flooding Clontarf 2002

Historical Flooding on Clontarf Road
Seaview Av

View following construction of current design (ABP approved). Approx 2.1m high

View following construction of Design review heights (1.41m)
0.69m reduction in height

Existing View

Sports ground

Existing View

Sports ground

View following construction of current design (ABP approved). Approx 2.6m high

View following construction of Design review heights (1.43m)
1.17m reduction in height
View following construction of current design (ABP approved). Approx 2.6 m high

View following construction of Design review heights (2.15m) - 0.45m reduction in height (Area lower and most at risk)
**Existing View**

View following construction of current design (ABP approved). Approx 1.15m high.

**Existing View**

View following construction of Design review heights (1.04m) 0.11m reduction in height.

**Animation Locations**

1. From Stranville moving East
2. From Clontarf baths moving East
3. From the Bull wall (wooden Bridge) moving west
2005 – 2007 Detailed Design
- Everyone agrees flood defences in Coastal areas are essential
- Design carried out by International Consultants expert in complexity of coastal design and considered best technical information.
  - Design:
    - Predicted sea level 1/200 year storm event
    - Predicted sea level rise over 50 years
    - Impact of wave action in 1/200 year storm
    - No point in investing in defences which do not protect people!

2007 – 2009 Statutory Process
- EIS to An Bord Pleanala
- Non Technical Summary
- Public Display
- Meetings
- Notified to Residents and Business Associations
- Approved by An Bord Pleanala after detailed consideration

2009 – 2010 Funding Approval
- OPW 2011 budget
- DECLG Water Services Investment Programme 2010 to 2012

2010 - 2011
- Tendering and Procurement of Contractor
- Plan to construct in 2012-2014
- People fully protected by 2014 after a 7 year long process (2003 – 2011).

2011 Design Review due to concern about height of mounding and enjoyment of promenade
- Confirmed
  - Clontarf at high risk of flooding
    - Highest Astronomical tide = 1.99 m. OD
    - 1/200 Storm event still water level = 3.13 m
    - Climate change sea rise to 2055 = 3.34 m. OD
    - Wave height varies 0.5 m. to 0.9 m. due to coast exposure.
  - It is possible to reduce height while providing protection to people of Clontarf.

Summary of Design Review
- Reduced levels will improve views and amenity
- Anything lower will not protect people of Clontarf from Flooding.
Adaptive Management Approach

- An adaptive management approach should be adopted now, whereby the new defence structures are built with their foundations and layout designed to allow them to be raised in due course, if necessary.
- Ongoing monitoring and maintenance will deal with risks such as settlement of or damage to embankments.
- The versatility to allow the defences to be raised in the future, for whatever reason, would ensure that the scheme will provide a 1 in 200 year standard for at least the next 50 years.

Next Steps

- Public Briefing and opportunity to make views known
- Report on Planning and Funding issues to December City Council meeting

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