



southsea

COASTAL SCHEME

Why

8,077 homes and 704 non-residential properties in Southsea are at risk of flooding from the sea. Current defence levels only offer limited protection from coastal flooding and the existing structures have residual lives of less than 10 years, with two major failures in recent years.

What

The Southsea Coastal Scheme will stretch 4.5km along Southsea's frontage and will reduce the risk of significant flooding for over 100 years. It presents a unique opportunity to stimulate regeneration, creating a vibrant place for business and leisure as well as protecting the cultural and heritage features that are important to us all.

How

Recommendations from the Shoreline Management Plan and the Portsea Island Coastal Strategy were used to develop a list of coastal defence options. The preferred option has been progressed to an outline concept design which has been submitted to Defra as part of an outline business case. The project will now move through the Design Development, Consultation, Principal Design, Consenting and Detailed Design phases before commencing construction.

Who

The project is being led by PCC and ESCP. The outline concept design was undertaken by Royal HaskoningDHV. Balfour Beatty have been appointed as principle contractor through the SCAPE framework. They will be appointing a multidisciplinary design team of industry experts to begin the development of the Principle Design. The scheme is funded and assured by the EA, Defra and HM Treasury.

When

Designers will be appointed by August 2017 with the principal design scheduled to be completed by July 2018. Consenting / Licensing and Full Business Case submission is programmed for October 2018. Construction is anticipated to commence in April 2019.

Figure 1: Map showing the 7 sub-frontages of the Southsea scheme

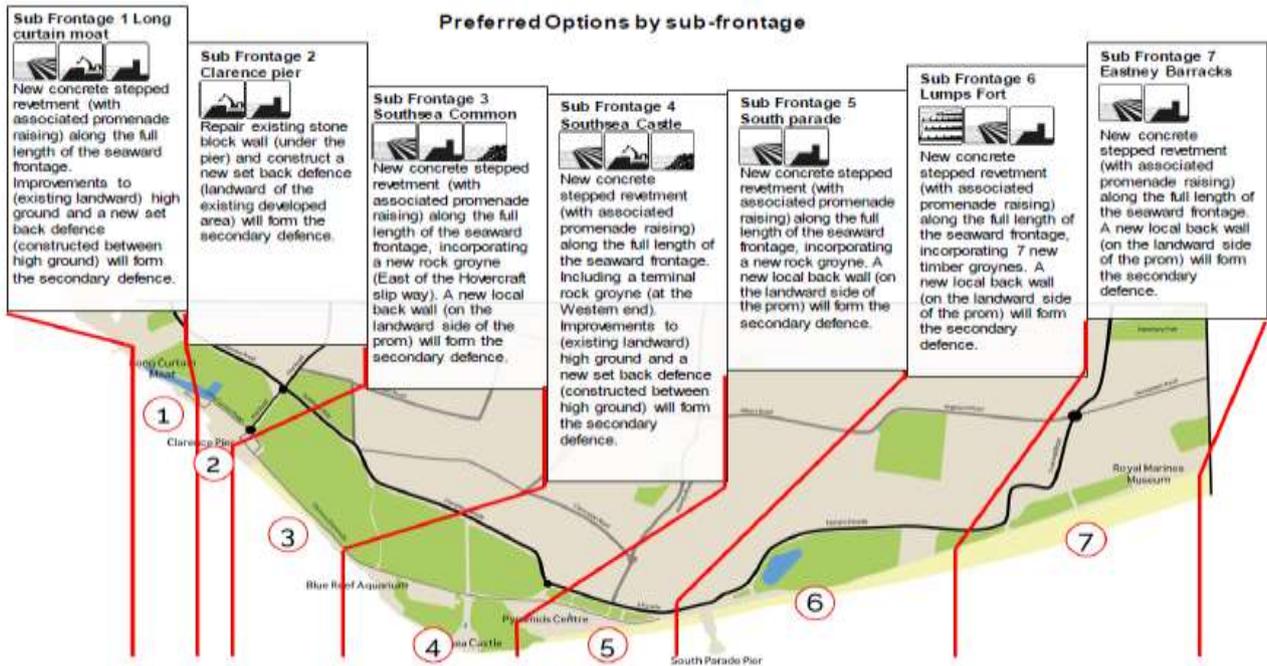


Figure 2: Flood extent showing depth of water (Present day 1 in 200 year event)



Figure 3/4: Southsea’s ageing defences have already experienced failures.



Table 1 – Current Stage

Current Scheme Status	Pre-Construction Phase
Lead Authority	Portsmouth City Council
Project Management	Eastern Solent Coastal Partnership

Table 2 – Assets at risk from a 1 in 200 year (0.5% annual) probability tidal flood event

	Present day Year 0 (2015)
Residential (All)	8,077
Residential properties at risk of internal flooding	4,114
Residential properties indirectly affected (upper floors)	3,963
Non-residential	704
Critical access routes	A288, B2151, B2154, B2155
Scheduled ancient monuments	5
Listed Buildings	34

Table 3 – Total Whole Life Cash Cost

	Cost
Appraisal Costs	£0.8million
Design Costs	£7.1million
Construction Costs	£67.9million
Maintenance (Over 100 years)	£19.5million
Risk Contingency (95%ile Monte Carlo)	£19.2million
Total Whole Life Cost	£114.5million

Table 4 – Contributions

Contributor	Contribution
Portsmouth City Council [PCC]	£6.0million
Total Contribution	£6.0million

Table 5 – Partnership Funding and Benefit Cost

Parameter	Score
Life Benefits (£)	~ £950 Million
Benefit to Cost Ratio (B:C)	10.72

Key Updates:

Outline Business Case Approval

The Outline Business Case has been approved by the Environment Agency, Defra and HM Treasury. This approval has released £5.9m of Grant in Aid funding to progress the pre-construction and design phase of the project.

Appointment of Balfour Beatty

Balfour Beatty has been working with the project team through the feasibility stage and has formed an integrated team with officers from PCC/ESCP.

Balfour Beatty has been commissioned for 18 months of pre-construction services totalling circa £1m in early June 2017. Balfour Beatty will provide expert construction advice to the design process while undertaking extensive scheme costing and market testing to advise the full business case.

Design Consultant

Tenders have been received from three design consortiums to provide engineering design, landscape design, urban planning and associated professional services for the design phase of the project.

The project team are in the final stages of appointing the preferred design consortium of Arup and Ramboll to join the integrated team for immediate commencement of the design development work packages.

Integrated Delivery Team

The project will be delivered by an Integrated Delivery Team (IDT) co-located within the project office on Floor 1 of the PCC Civic Offices. The IDT welcome all officers and councillors to drop in to meet the team.

The key IDT partners are, Portsmouth City Council, Eastern Solent Coastal Partnership, Balfour Beatty (ECI Contractor), Arup (Lead Designer), Ramboll (Designer), and Faithful and Gould (Cost Consultants).

Communications and Engagement

PCC have appointed a dedicated Communication and Engagement officer for the project.

The stakeholder engagement plan is being refreshed for the pre-construction phase. Extensive engagement will be undertaken during 2017 with Members and Officers in PCC and external statutory consultees. Public consultation will re-commence as the scheme design and delivery plans are developed over the next 6-12 months.

Delivery Programme:

Design Development

The Design Development phase will consider fundamental design decisions and gain agreement from decision makers on the design parameters to be progressed forward. During this phase we will be conducting extensive engagement with the public and wider stakeholders to ensure we develop a final proposal that takes into account their ideas and concerns.

Scheduled Completion: December 2017

Principal Design

The principal design phase will develop the agreed design into planning level drawings and plans. The planning and marine licence applications and Environmental Impact Assessment will be prepared and submitted and formal public consultation on the designs will be conducted.

Scheduled Completion: July 2018

Detailed Design

The detailed design phase will further develop the design into construction level drawings and consider all final structural and interface details to allow the scheme to be built.

Scheduled Completion: June 2019

Full Business Case

The Full Business Case (FBC) will be developed throughout the Pre-Construction phase. The FBC will require ‘planning certainty’ and a ‘contract offer’ for construction to be presented to the Environment Agency, Defra and HM Treasury for scrutiny and approval. The scheduled submission date is October 2018 however there is an ambition to bring this forward.

Construction

Construction of the first works on site will commence on approval of the Full Business Case and release of construction funding from central government.

Scheduled Construction Start: April 2019

Figure 3: High Level Programme

