

Progress in Detailed Design



Activities have included:

- Data Review
- Community Participation Evenings Summer 2021
- Site Investigations (Ground, Structural and Ecological)
- Options Review
- Landowner Engagement
- Utilities Data
- Refined Design Solutions
- Commencement of Detailed Design

Progress in Detailed Design



Detailed design 0-50%

- Refinement of key characteristics alignment, geometry, footprint and tie in
- · Geotechnical analysis for seepage, settlement and stability.
- Liaison with contractor and other specialists to confirm buildability.
- Liaison with utility providers regarding assets.
- · Liaison with key stakeholders, including 'frontline' properties.
- · Identification of landscape constraints and opportunities.
- · Liaison with potential suppliers for finishes of cladding, flood glass and flood gates.
- 3D Model, updated General Arrangement, sections, artistic impressions

Outcomes of Structural Investigation







Investigations confirmed that we cannot rely on existing structures/walls



Existing walls would not provide necessary standard of protection



Existing walls cannot form part of the design of the new structures



Utilities and services locations identified



50% Design Run-through

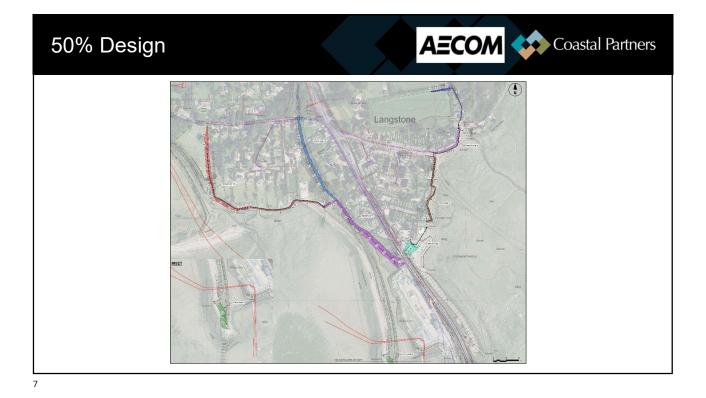


For each of the frontages, the following will be presented:

- An image which is representative of the frontage (Present Day)
- · An overview of any design considerations and key constraints
- · A map showing the alignment of the proposed design
- Cross sections of the proposed design and overview of solution proposed
- An artistic impression of the proposed design

FRONTAGES HANDOUT - We'd like your feedback on each frontage

Any Questions? Note them down on the 'Frontages Handout'



Progress in Detailed Design



Further Influence from Stakeholders on the Design

Frontage/Area	Item	Design Influence
Frontage 3	Car park raising	Defence type changed from flip-up flood gate to car park raising, enabling a more passive defence
Frontage 4 and 5	Using existing building and garden walls as part of the defence.	Structural survey undergone to investigate incorporation into the defence.
Frontage 5	Views from the Royal Oak and Highstreet	Flood glass barrier incorporated into defence where seating outside the Royal Oak is.
Frontage 1B	Residual flood risk if only core scheme is implemented.	Design alignment updated to include a flood embankment that ties the Billy Line Defence in with the existing sea wall along Frontage 1B.

AECOM Coastal Partners Progress in Detailed Design Aspects to be shaped by Stakeholders Frontage/Area **Design Influence** Item All Frontages Wall Appearance Finishes for each of the quay and flood walls. All Frontages Flood Gate Appearance Finishes for each of the flood gates. **All Frontages** Landscaping Wider landscaping opportunities or ecological improvements to the shorefront, e.g. coastal planting. Frontage 4 Wall positioning Steer on whether alternative option is worth pursuing.

Core Scheme

Publicly Funded Core Scheme

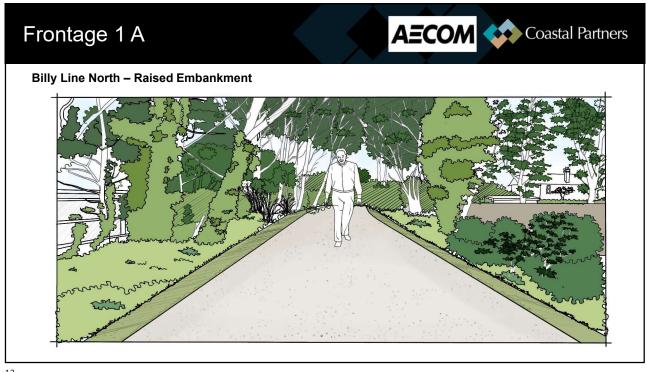
Publicly Funded Core Scheme



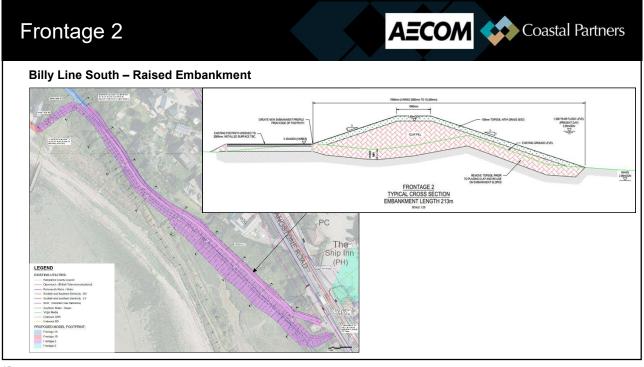
Billy Line North – Raised Embankment

Coastal Partners

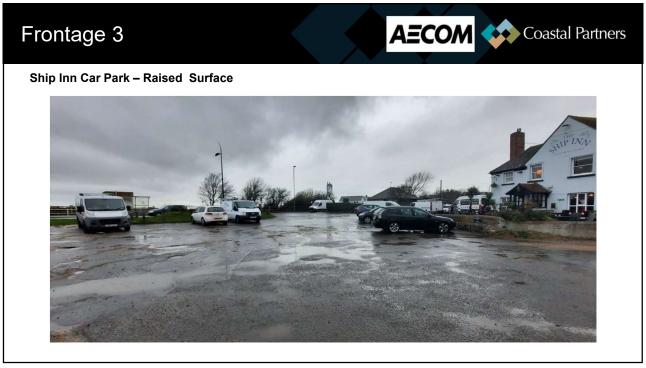
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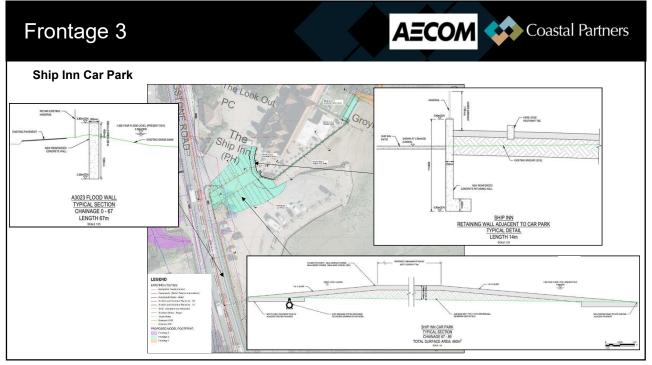






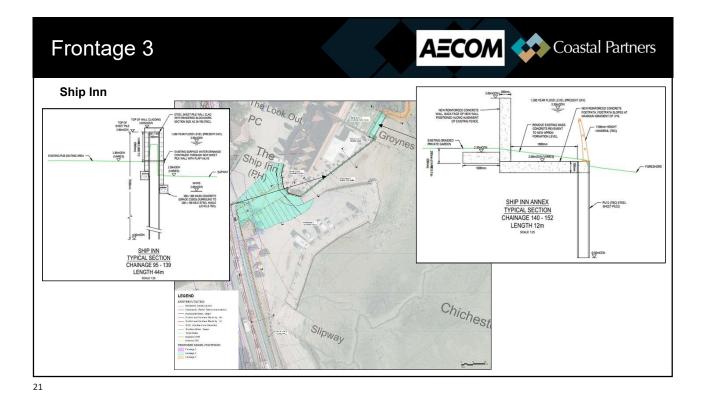






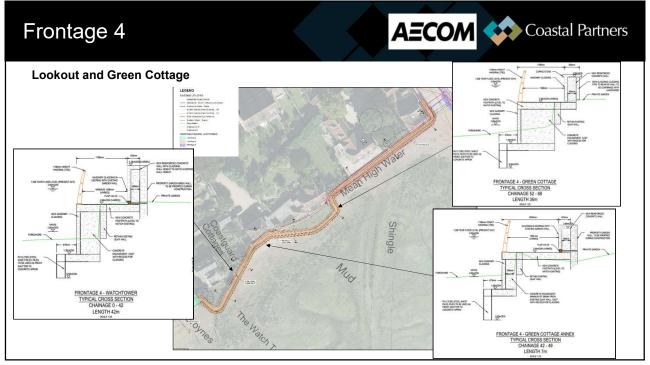






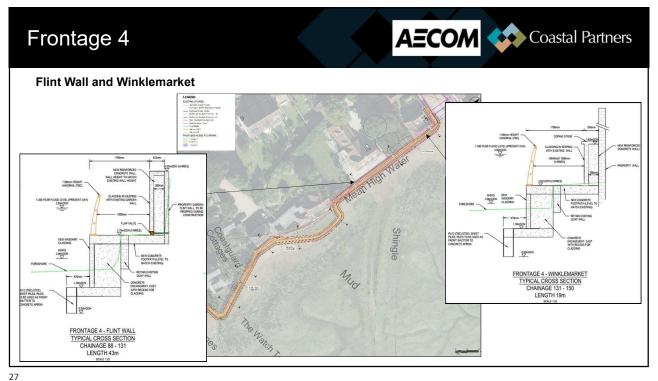






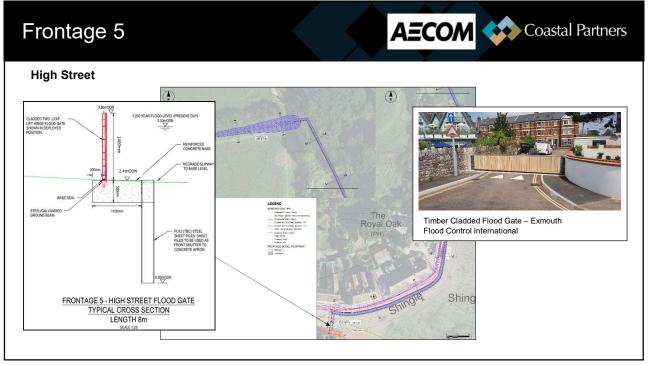




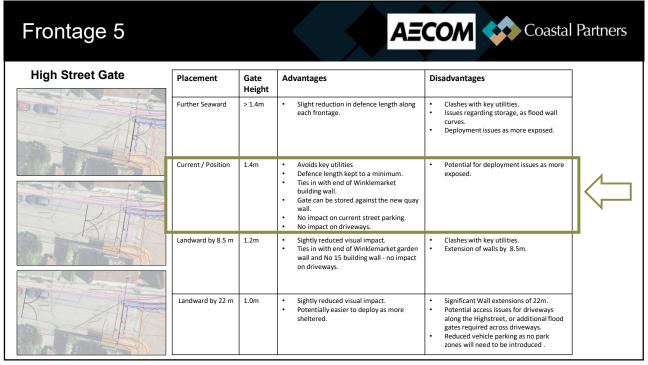




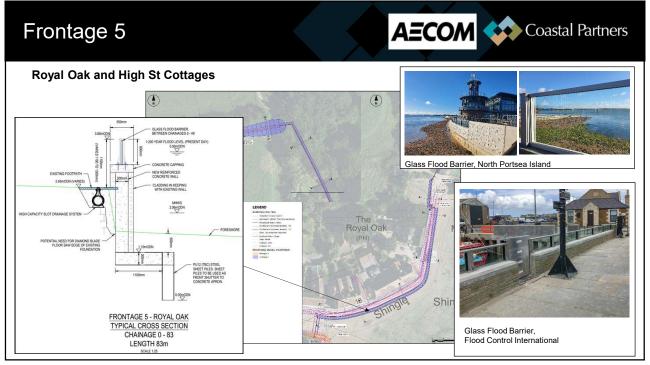








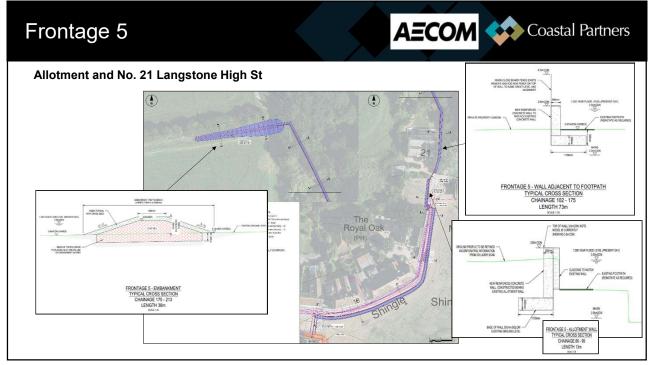




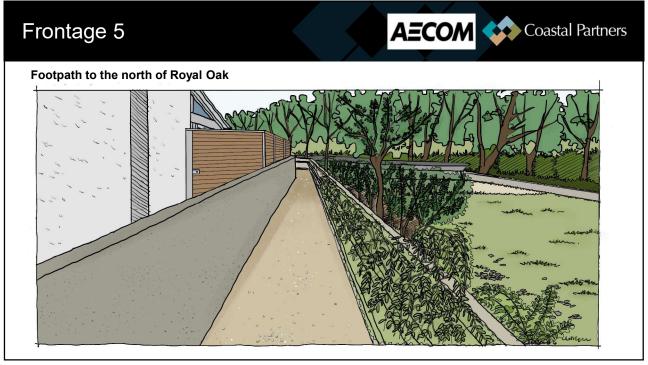






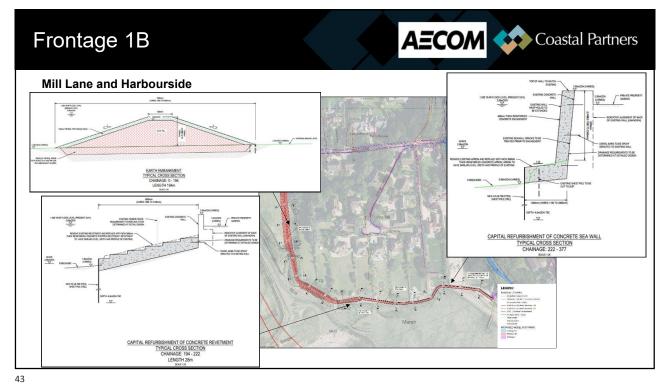






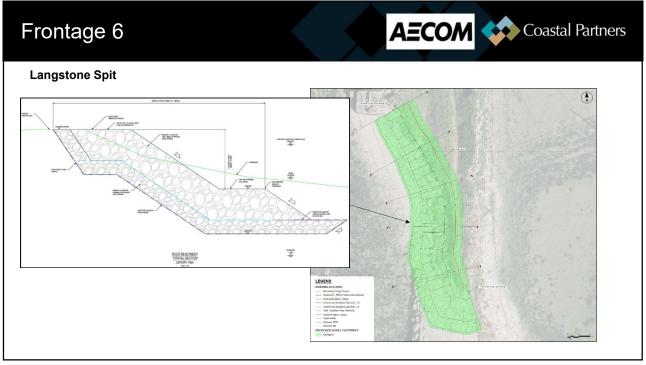














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