

Langstone FCERM Scheme Detailed Design Artistic Impressions

As presented to the Langstone Stakeholder Working Group at the
50% design milestone (4th July 2022)

50% Design Run-through

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For each of the frontages, the following is presented:

- An image/photo which is representative of the frontage (Present Day)
- A map showing the alignment of the proposed design
- Typical cross sections of the proposed design
- An artistic impression of the proposed design

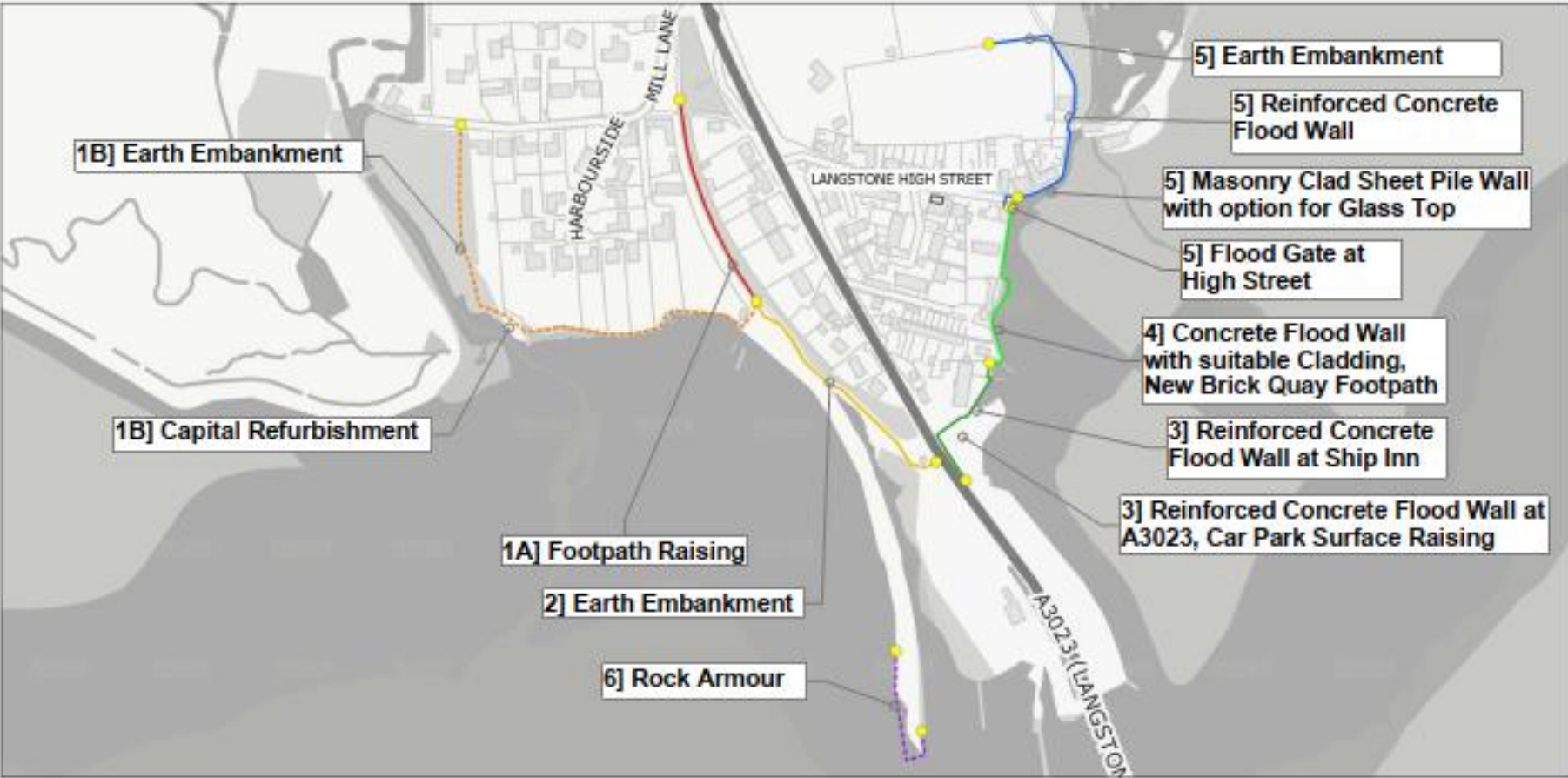
These were also presented to the Langstone Stakeholder Working Group on the 4th July and are part of the 'Design Update' slide pack presented.

There will be further opportunity to view the artistic impressions at the 80% design milestone engagement events and provide feedback.

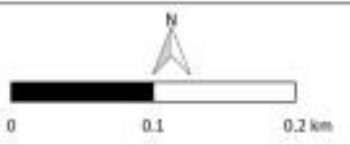
Frontages Map



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Legend	
● Frontage End Points	— Frontage 3
— Frontage 1A	— Frontage 4
--- Frontage 1B	— Frontage 5
— Frontage 2	--- Frontage 6



DRAWN BY: BR	CHECKED BY: JS
DATE: 20/11/2020	

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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.



Aspects to be shaped by Stakeholders

Frontage/Area	Item	Design Influence
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



Frontage 1A

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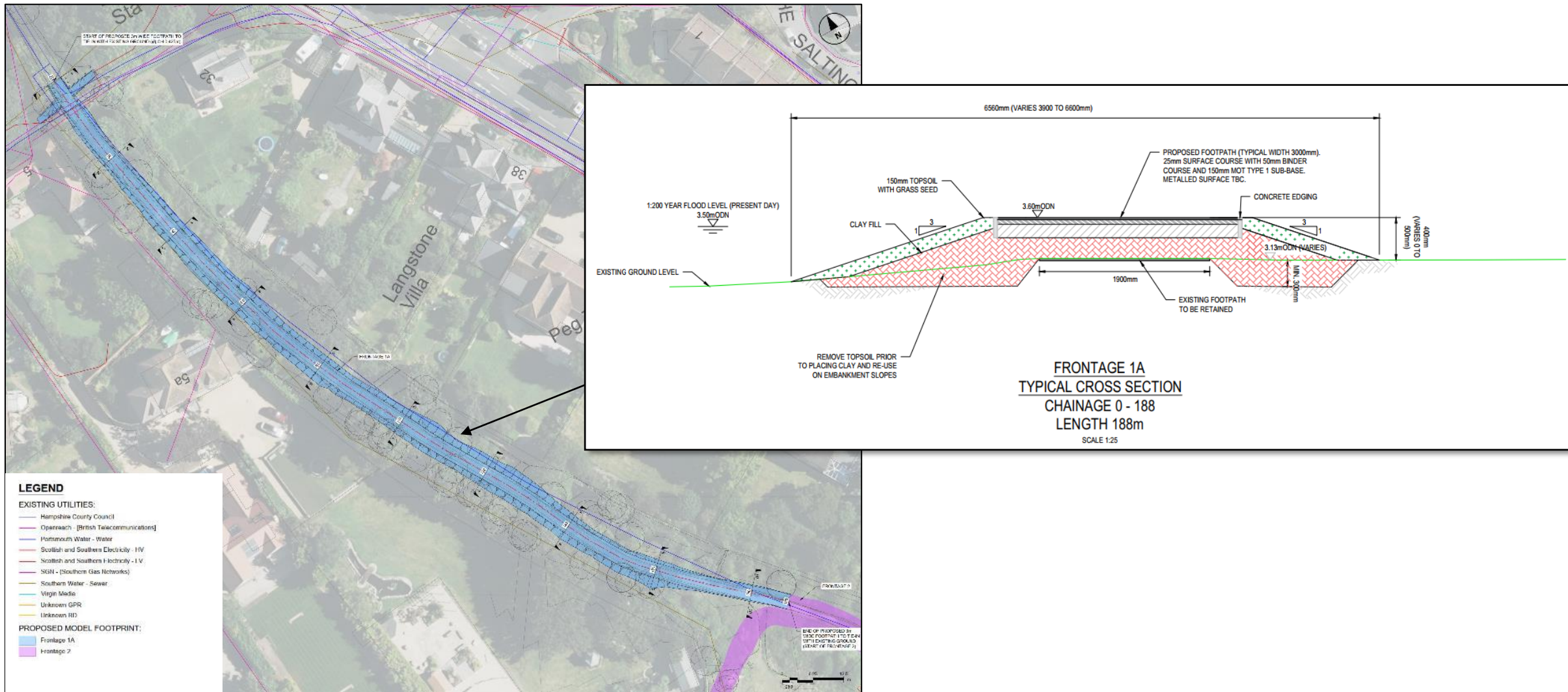
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Billy Line North – Raised Embankment



Frontage 1 A

Billy Line North – Raised Embankment



Frontage 1 A



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Billy Line North – Raised Embankment



Frontage 2

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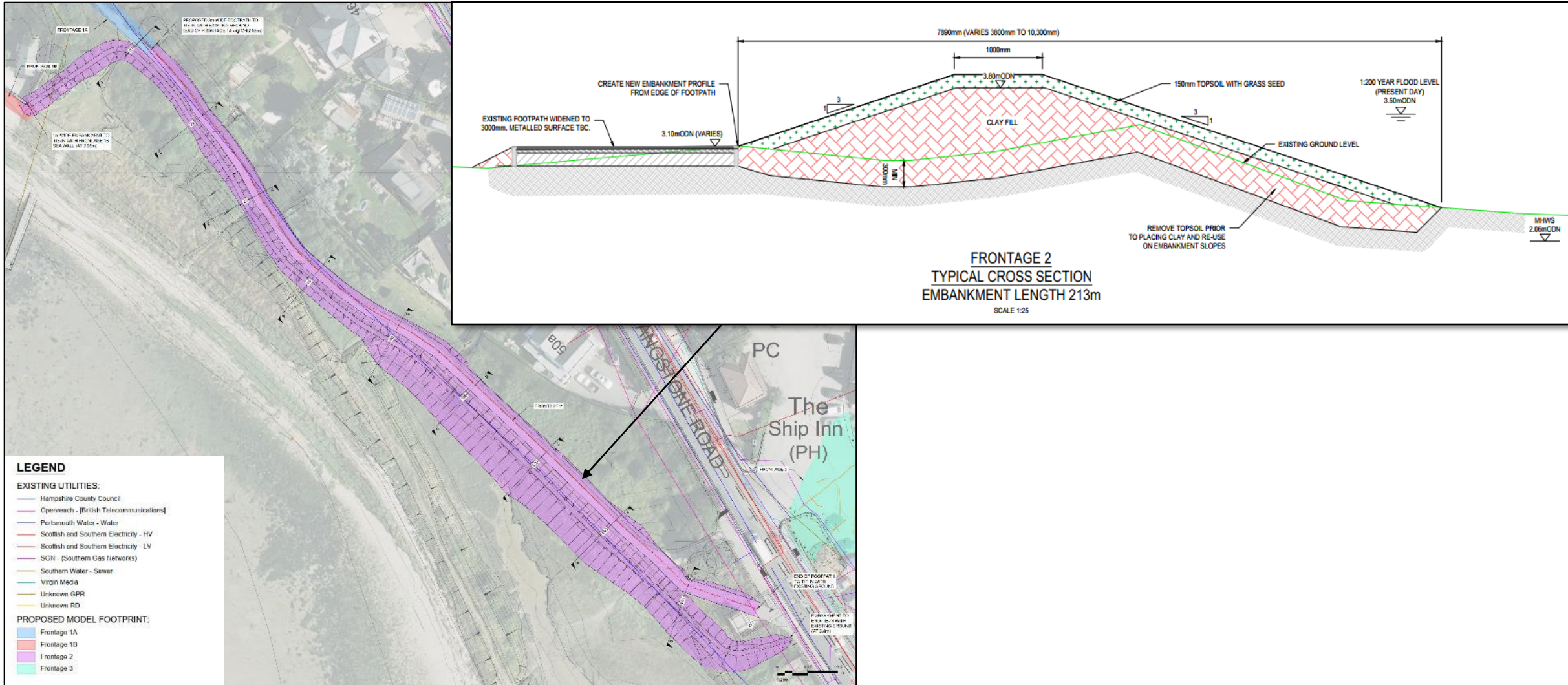


Coastal Partners

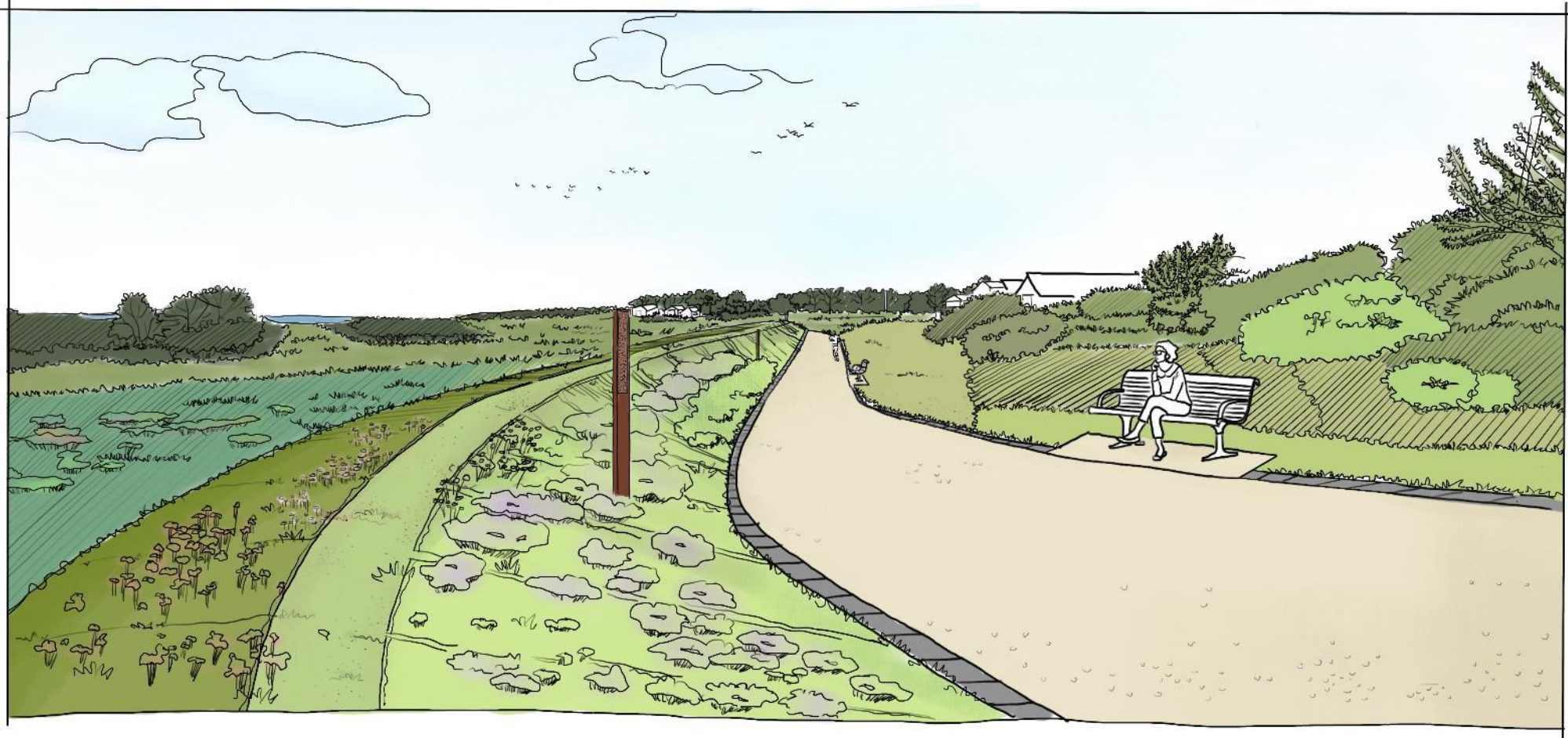
Billy Line South – Raised Embankment



Billy Line South – Raised Embankment



Billy Line South – Raised Embankment



Frontage 3

AECOM



Coastal Partners

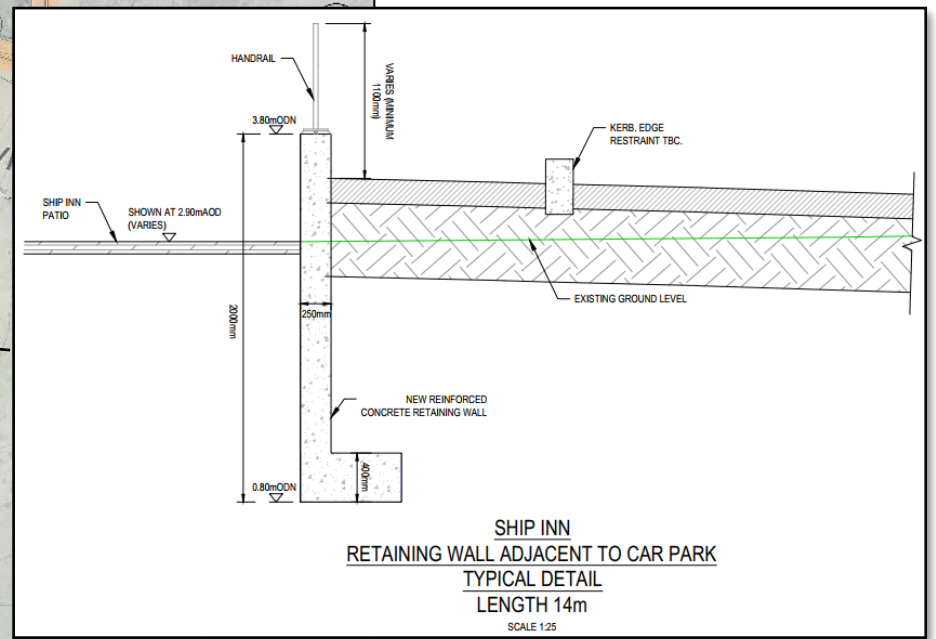
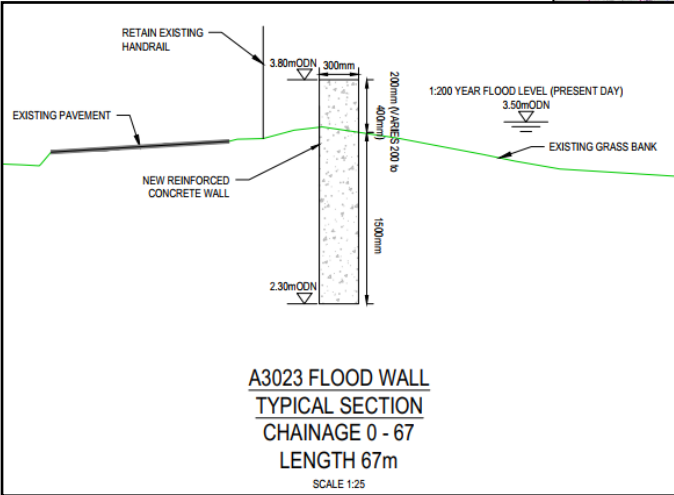
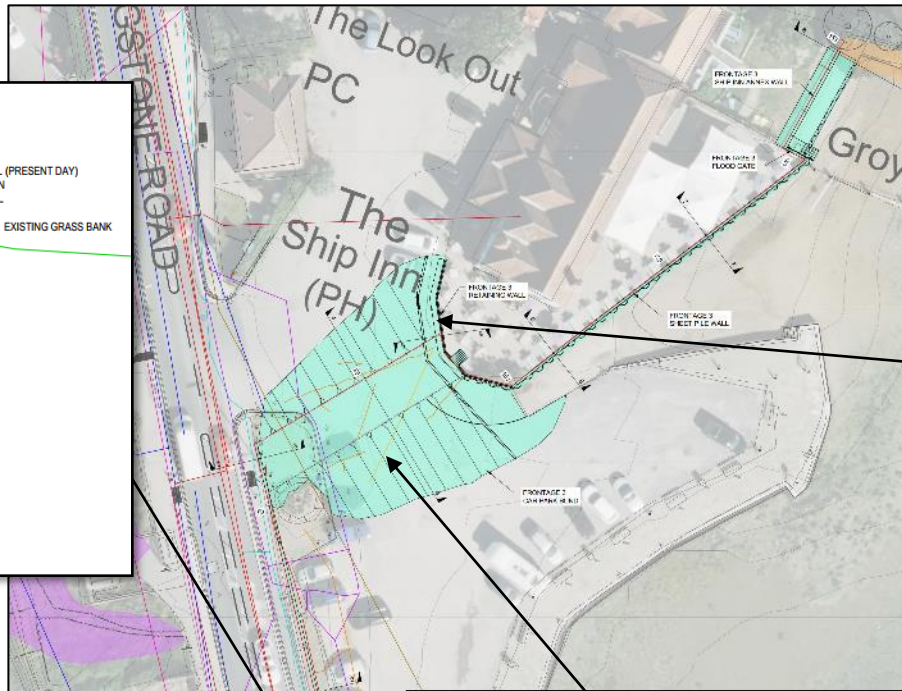
Ship Inn Car Park – Raised Surface



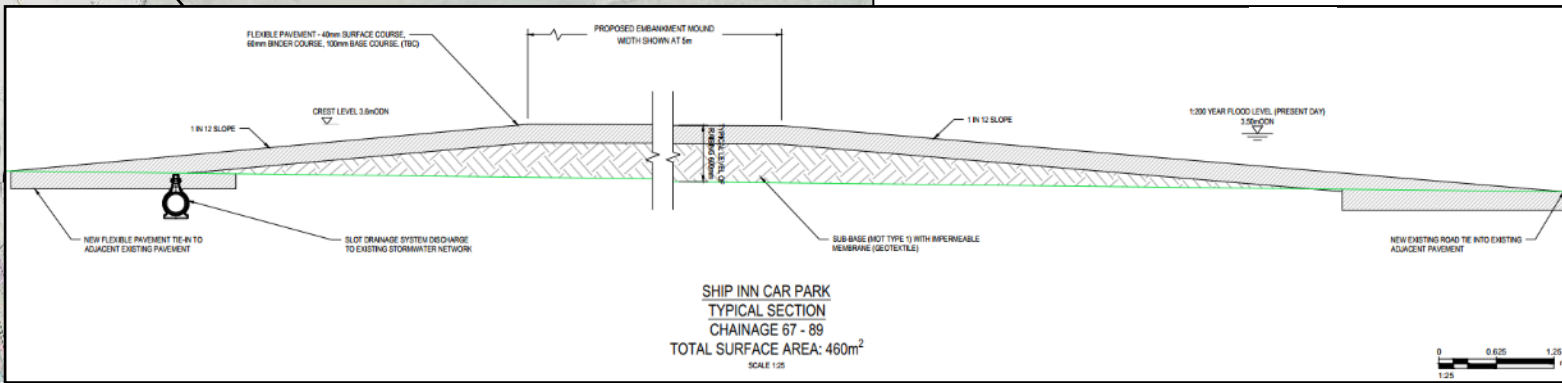
Frontage 3



Ship Inn Car Park



- LEGEND**
- EXISTING UTILITIES:**
- Hampshire County Council
 - Openreach (British Telecommunications)
 - Portsmouth Water - Water
 - Scottish and Southern Electricity HV
 - Scottish and Southern Electricity LV
 - SGH (Southern Gas Networks)
 - Southern Water - Sewer
 - Virgin Media
 - Unicon GPR
 - Unicon RD
- PROPOSED MODEL FOOTPRINT:**
- Frontage 2
 - Frontage 3
 - Frontage 4

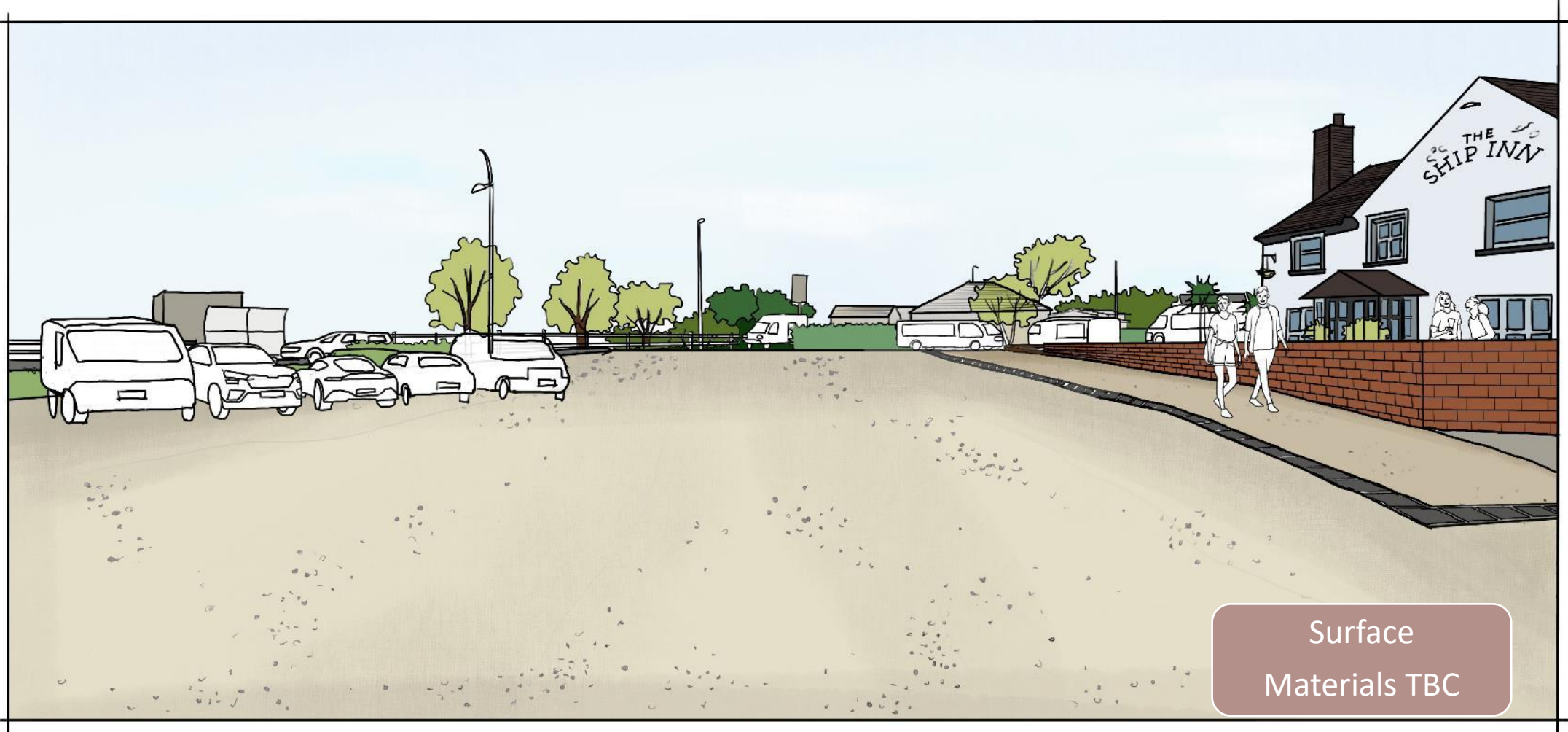


Frontage 3



Coastal Partners

Ship Inn Car Park



Surface
Materials TBC

Frontage 3

AECOM



Coastal Partners

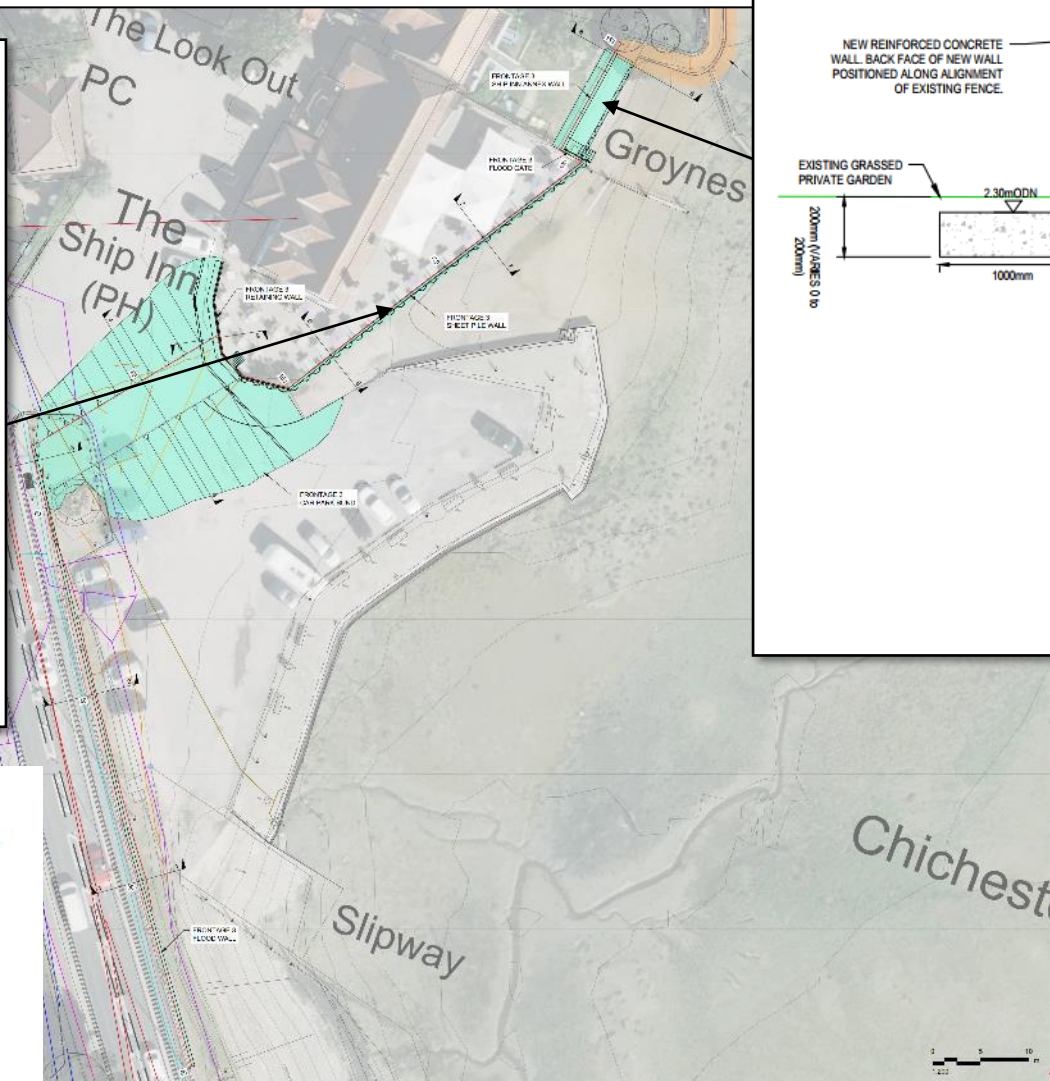
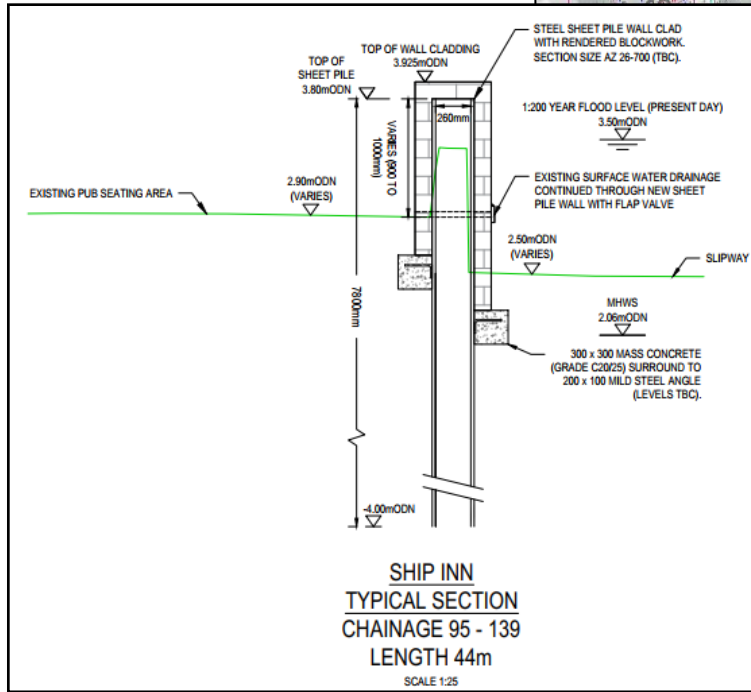
Ship Inn



Frontage 3



Ship Inn



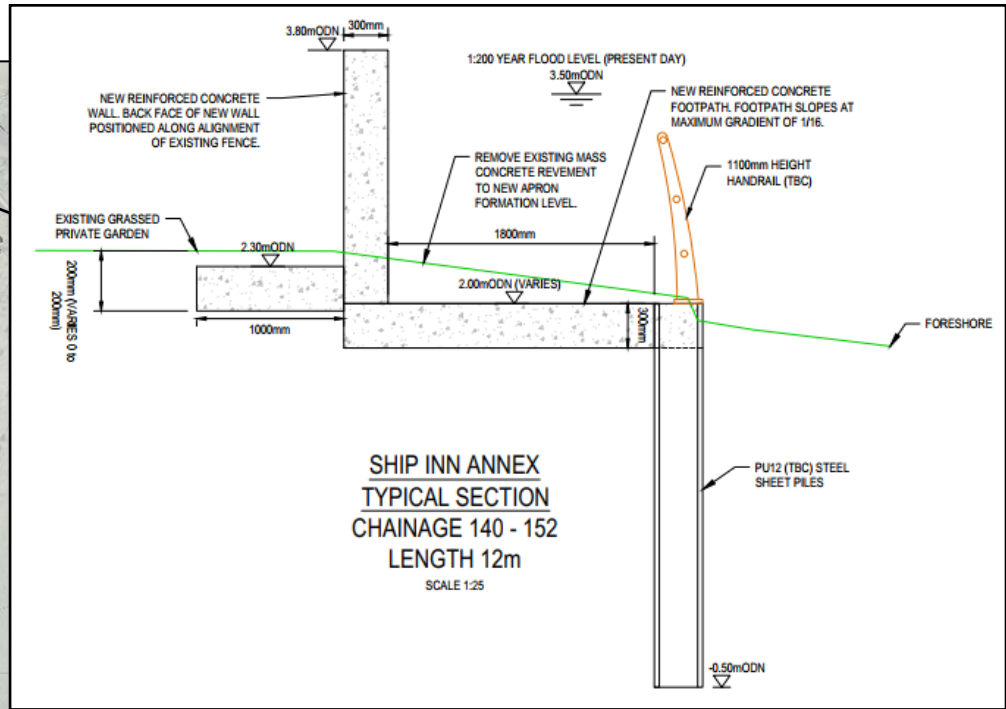
LEGEND

EXISTING UTILITIES:

- Hampshire County Council
- Openreach - (British Telecommunications)
- Portsmouth Water - Water
- Scottish and Southern Electricity - HV
- Scottish and Southern Electricity - LV
- SGH (Southern Gas Networks)
- Southern Water - Sewer
- Virgin Media
- Unwired GPR
- Unwired RD

PROPOSED MODEL FOOTPRINT:

- Frontage 2
- Frontage 3
- Frontage 4



Frontage 3



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Ship Inn



Cladding
Materials TBC

Frontage 4

AECOM



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Lookout and Green Cottage



Frontage 4



Lookout and Green Cottage

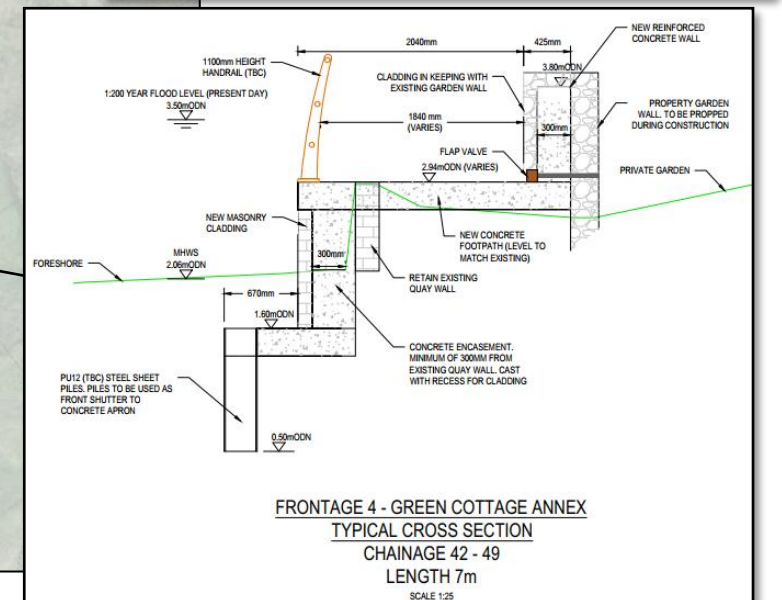
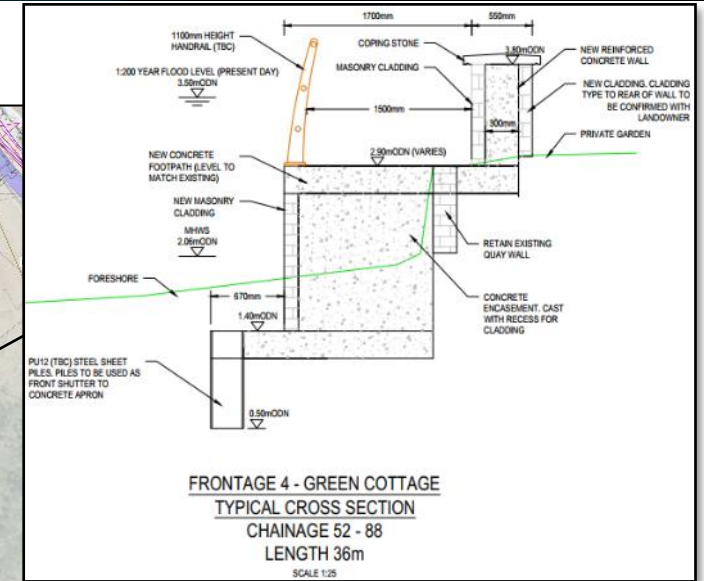
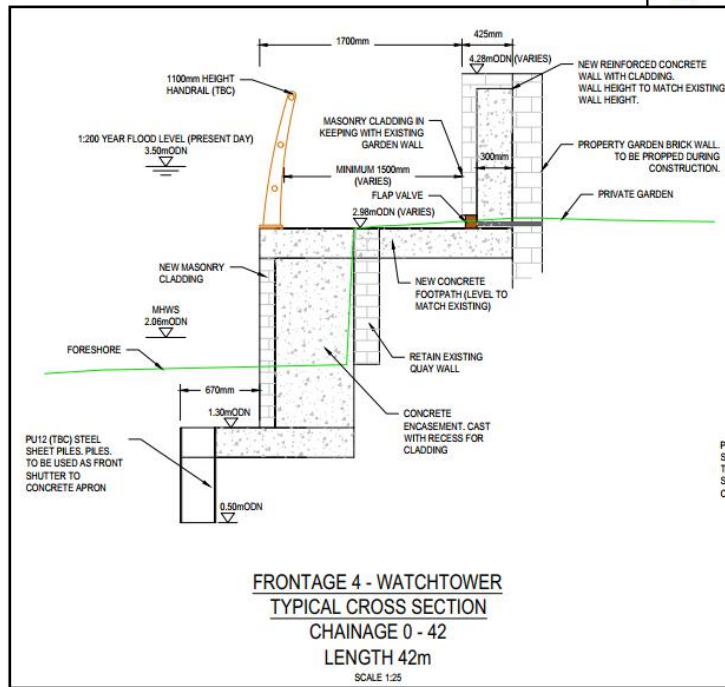
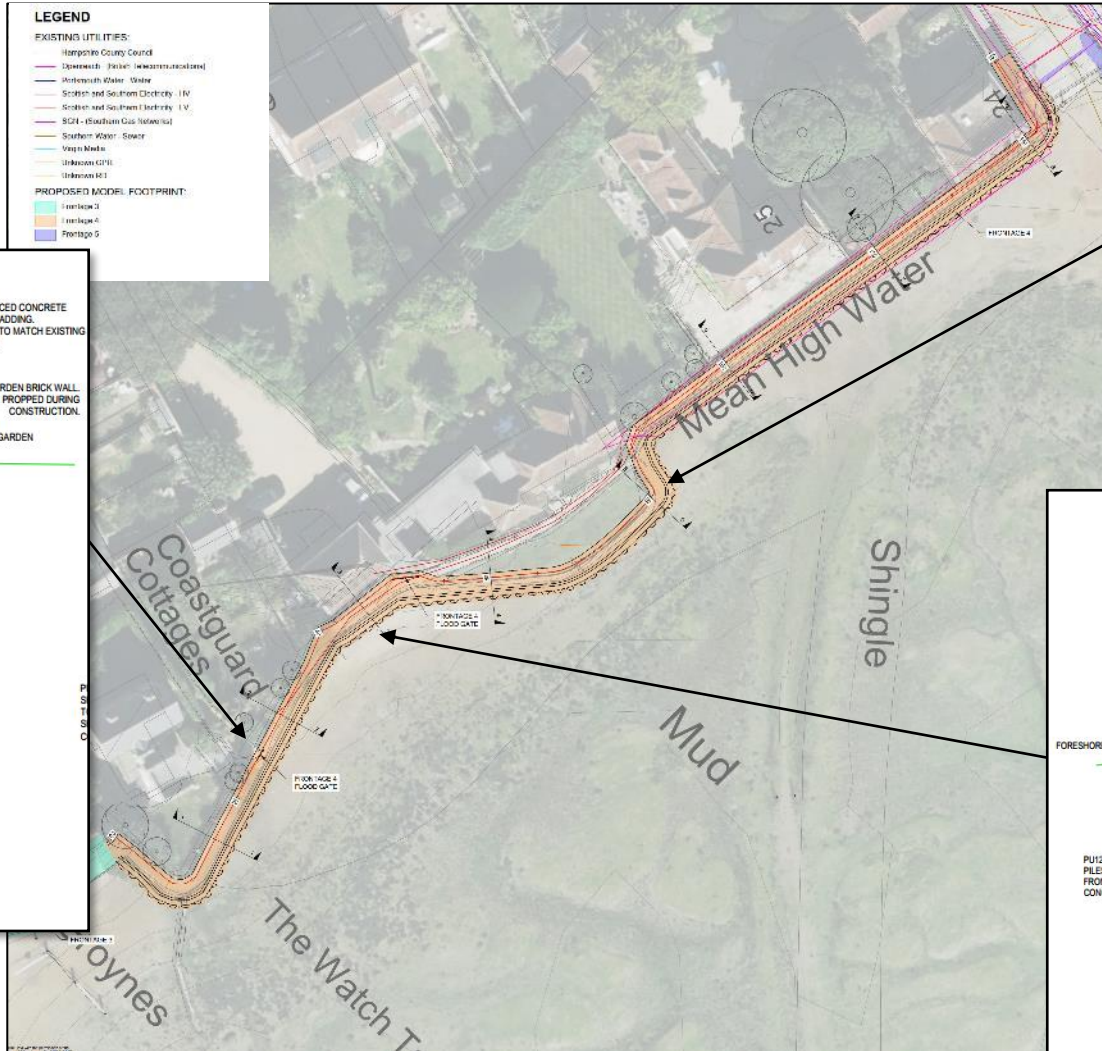
LEGEND

EXISTING UTILITIES:

- Hampton County Council
- Dorsetech: Jaxon (telecommunications)
- Worleworth Water: Water
- Scottish and Southern Electricity: HV
- Scottish and Southern Electricity: LV
- SCG: (Southern Gas Networks)
- Southern Water: Sewer
- Vision Media
- Unknown GFI
- Unknown HFI

PROPOSED MODEL FOOTPRINT:

- Frontage 3
- Frontage 4
- Frontage 5



Frontage 4



Coastal Partners

Lookout and Green Cottage



Materials TBC

Frontage 4

AECOM

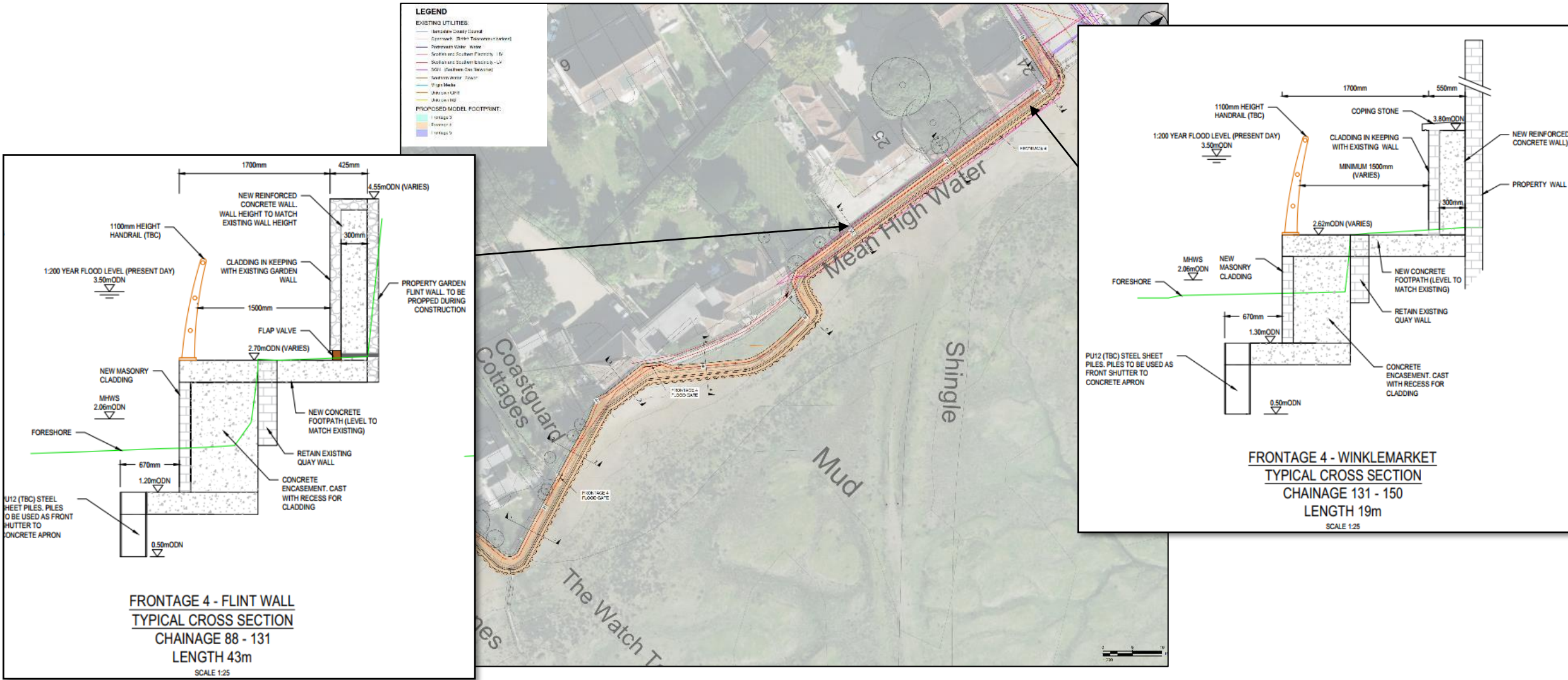


Coastal Partners

Flint Wall and Winklemarket



Flint Wall and Winklemarket



Frontage 4



Coastal Partners

Flint Wall and Winklemarket



Materials TBC

Frontage 5

AECOM

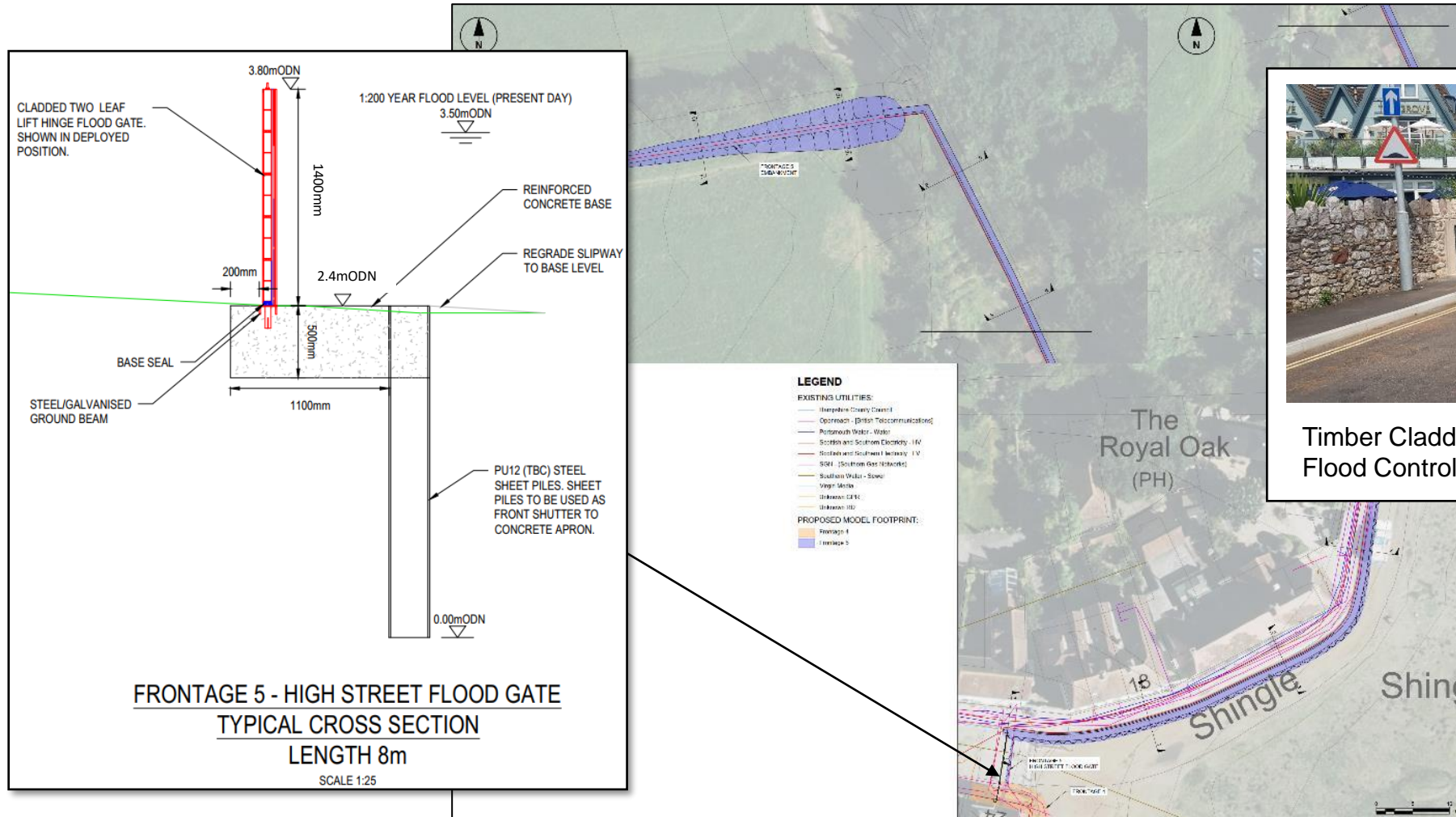


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High Street



High Street – Flood Gate



Timber Cladded Flood Gate – Exmouth
 Flood Control International

- LEGEND**
- EXISTING UTILITIES:**
- Horsham County Council
 - Openreach - (Fiber Telecommunications)
 - Potomac Water - Water
 - Scottish and Southern Electricity - HV
 - Scottish and Southern Electricity - LV
 - SSEI - (Southern Gas Networks)
 - Southern Water - Sewer
 - Virgin Media
 - Unknown GPR
 - Unknown IBI
- PROPOSED MODEL FOOTPRINT:**
- Frontage 4
 - Frontage 5

The Royal Oak
 (PH)

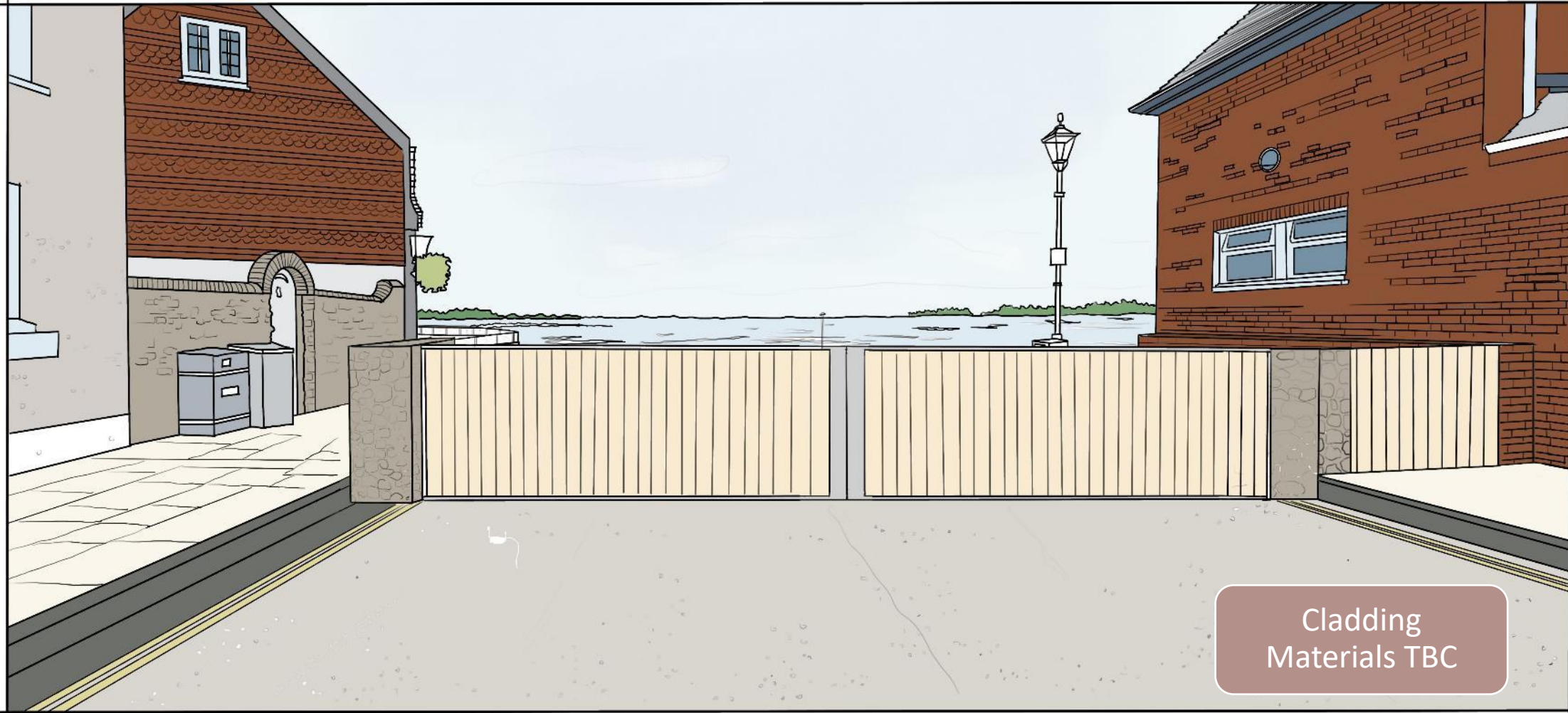
Shingle
 Shing

Frontage 5



Coastal Partners

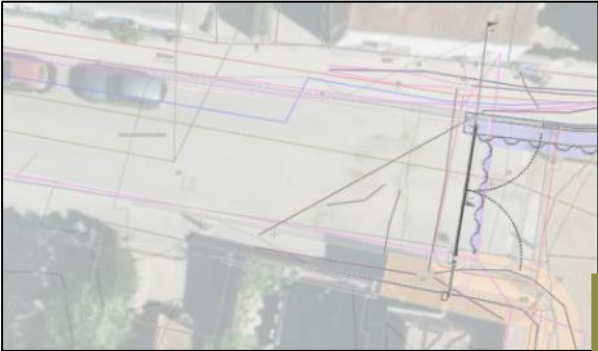
High Street – Flood Gates (closed)



Cladding
Materials TBC

Frontage 5

High Street Gate



Placement	Gate Height	Advantages	Disadvantages
Further Seaward	> 1.4m	<ul style="list-style-type: none"> Slight reduction in defence length along each frontage. 	<ul style="list-style-type: none"> Clashes with key utilities. Issues regarding storage, as flood wall curves. Deployment issues as more exposed.
Current / Position	1.4m	<ul style="list-style-type: none"> Avoids key utilities Defence length kept to a minimum. Ties in with end of Winklemarket building wall. Gate can be stored against the new quay wall. No impact on current street parking. No impact on driveways. 	<ul style="list-style-type: none"> Potential for deployment issues as more exposed.
Landward by 8.5 m	1.2m	<ul style="list-style-type: none"> Slightly reduced visual impact. Ties in with end of Winklemarket garden wall and No 15 building wall - no impact on driveways. 	<ul style="list-style-type: none"> Clashes with key utilities. Extension of walls by 8.5m.
Landward by 22 m	1.0m	<ul style="list-style-type: none"> Slightly reduced visual impact. Potentially easier to deploy as more sheltered. 	<ul style="list-style-type: none"> Significant Wall extensions of 22m. Potential access issues for driveways along the Highstreet, or additional flood gates required across driveways. Reduced vehicle parking as no park zones will need to be introduced .



Frontage 5

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Coastal Partners

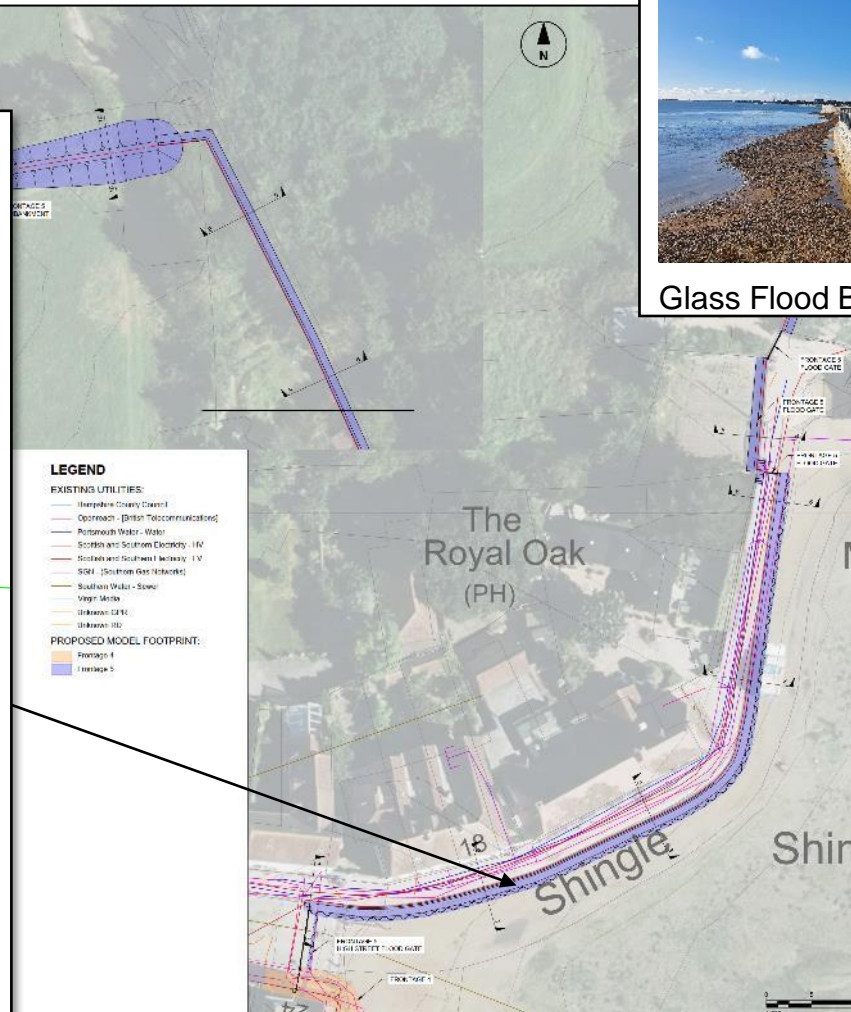
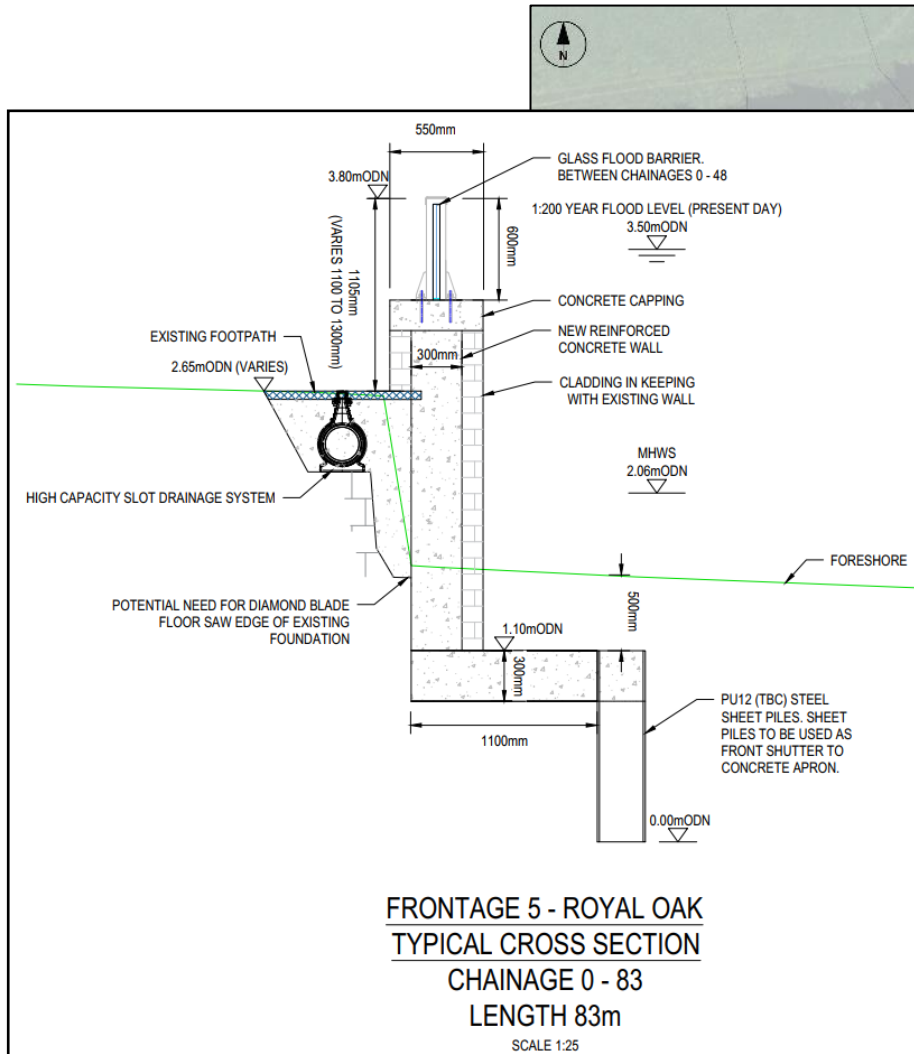
Royal Oak and High St Cottages



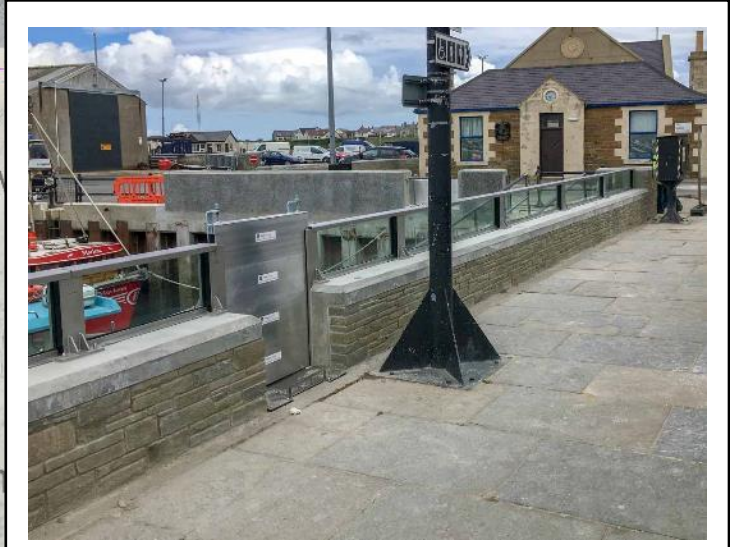
Frontage 5



Royal Oak and High St Cottages



Glass Flood Barrier, North Portsea Island



Glass Flood Barrier,
Flood Control International

Royal Oak and High St Cottages – potential option with Flood Glass Top



Cladding
Materials TBC

Frontage 5

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Allotment and No. 21 Langstone High St



Frontage 5

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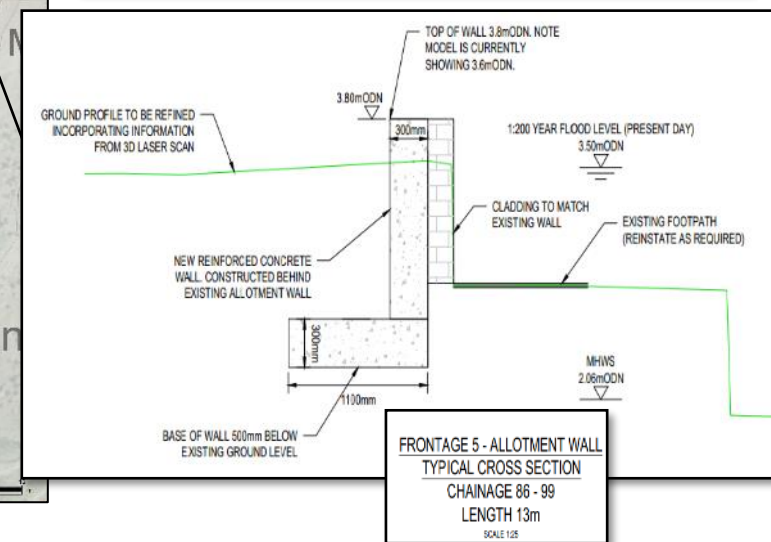
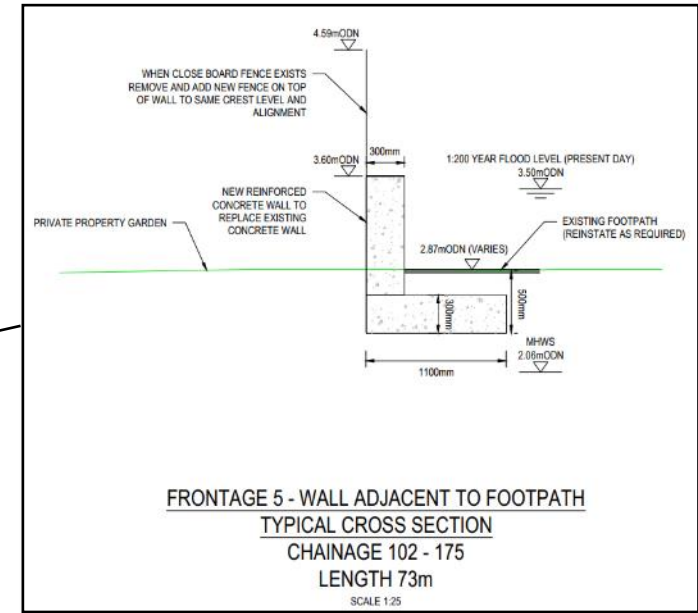
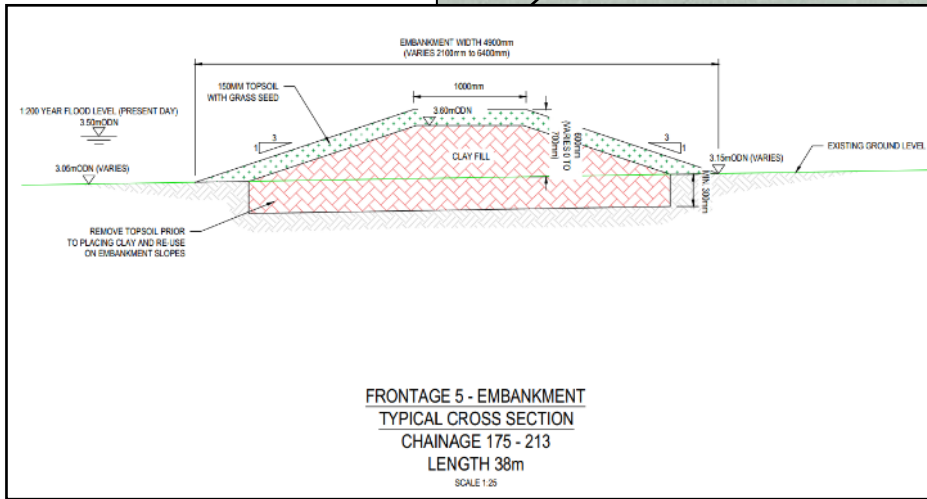
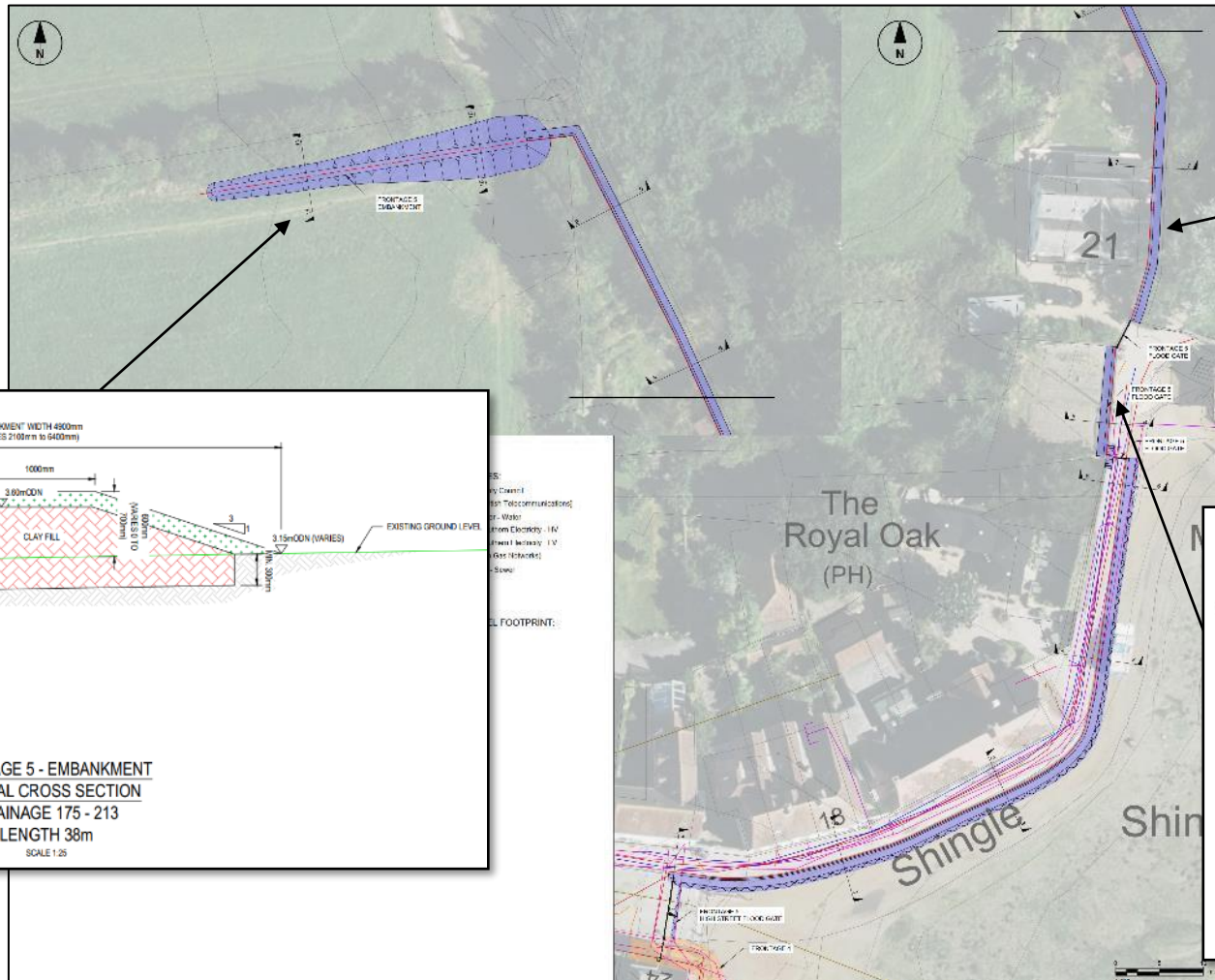


Footpath to the north of Royal Oak



Frontage 5

Allotment and No. 21 Langstone High St



Frontage 5



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Allotment and No. 21 Langstone High St



Cladding
Materials TBC

Frontage 5



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Footpath to the north of Royal Oak



Additional Scheme



Frontage 1B

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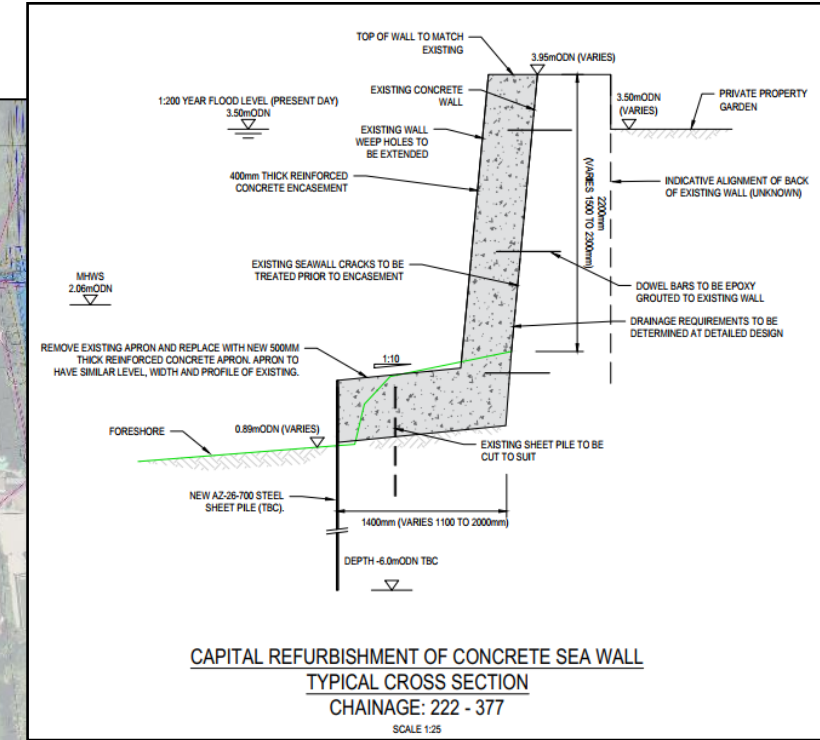
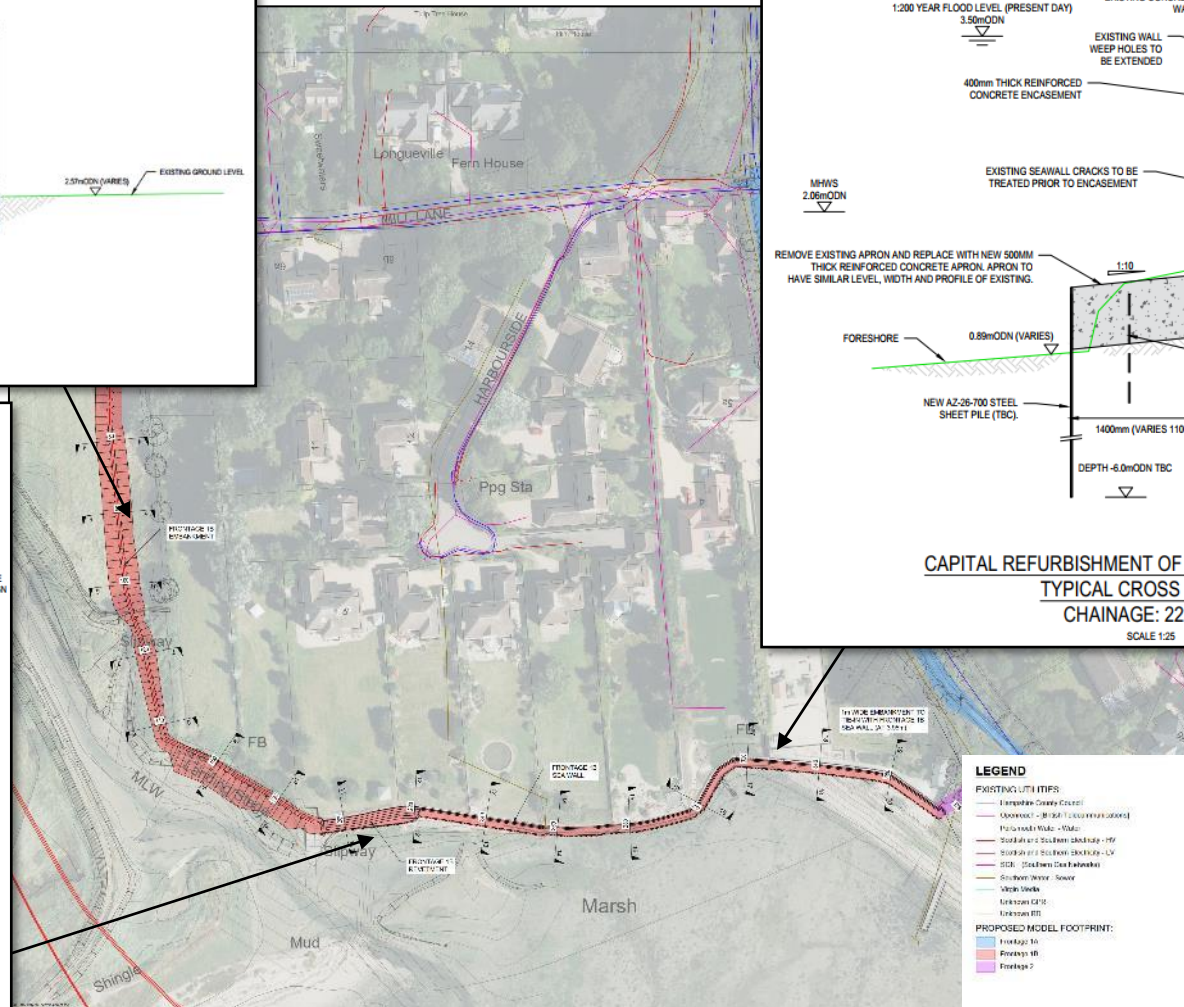
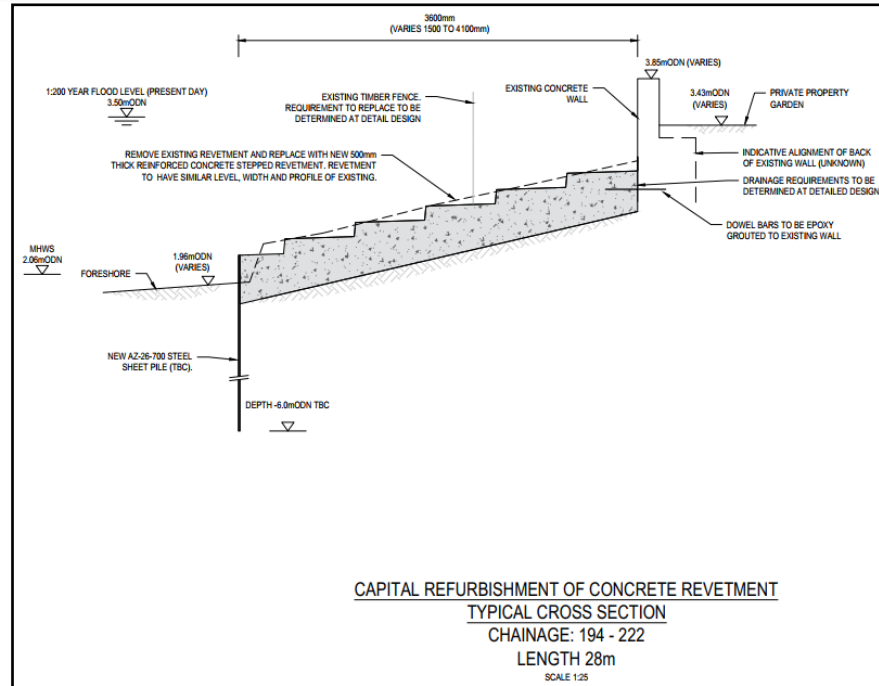
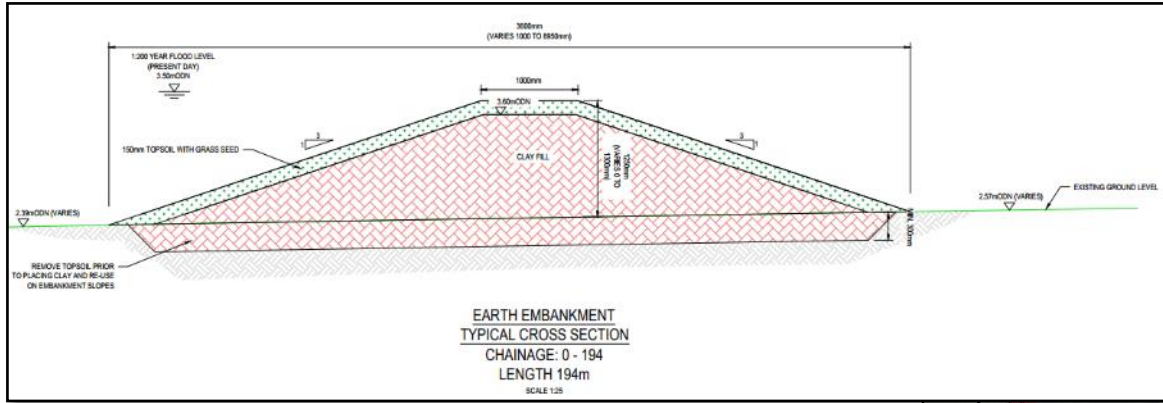


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Mill Lane and Harbourside



Mill Lane and Harbourside



Frontage 1B



Coastal Partners

Mill Lane and Harbourside



Frontage 6

AECOM



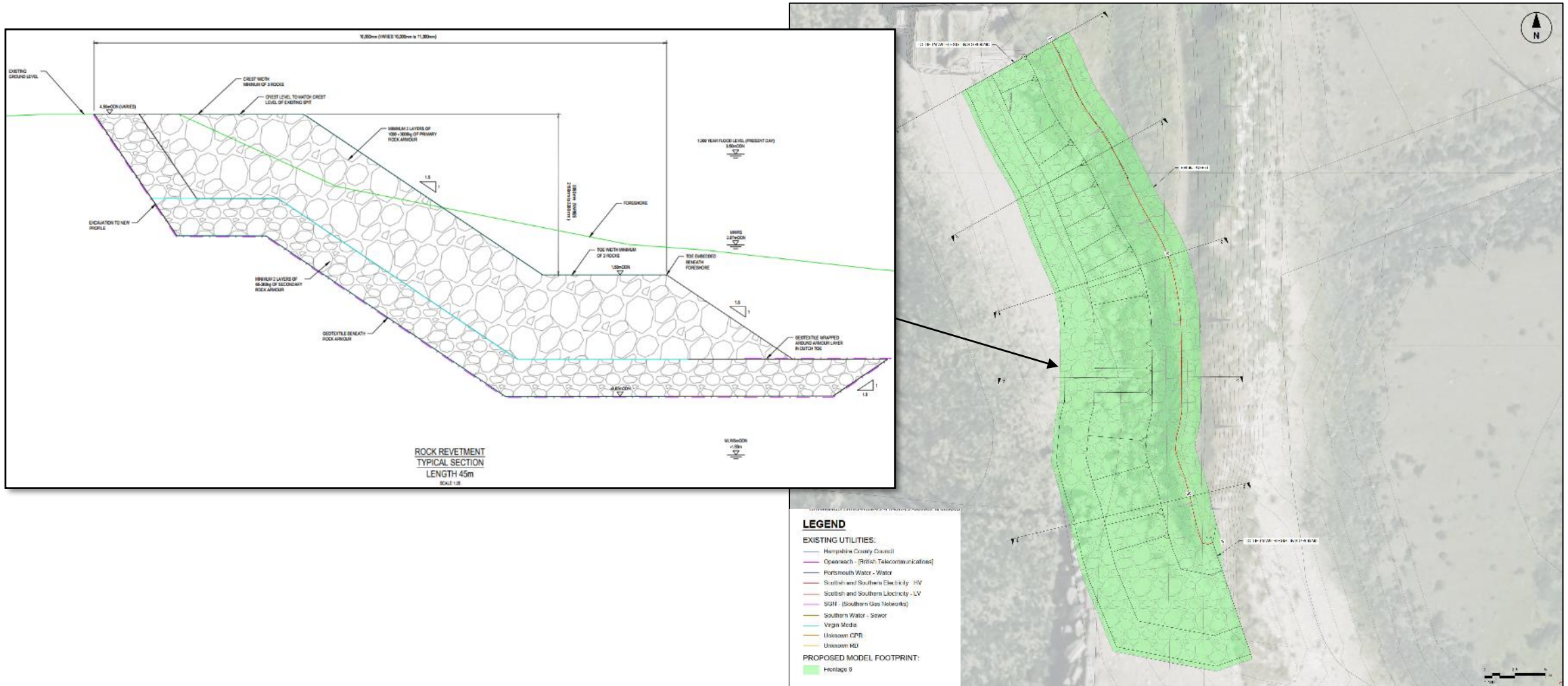
Coastal Partners

Langstone Spit



Frontage 6

Langstone Spit – 50m of Rock Armouring



Frontage 6



Coastal Partners

Langstone Spit

