Marine Defences Renewal



Topics

- Background and history
- Maintenance regime
- Proposed works
- Next Steps



Marine Defences

Southern Seawall

Breakwater

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Eastern Eroding area

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Sewerage to Moa Point WWTP & sludge back to Southern Landfill

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Western Seawall

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Moa Point Road

Potable Water supply

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Surveyore Description



Breakwater Construction

> Wellington Airport Lyall Bay Marine









Causeway Construction Moa Point Rd today

>>> Wellington Airport Lyall Bay Marine Defences 19 March 2024



Runway Construction 18 Sept 1957

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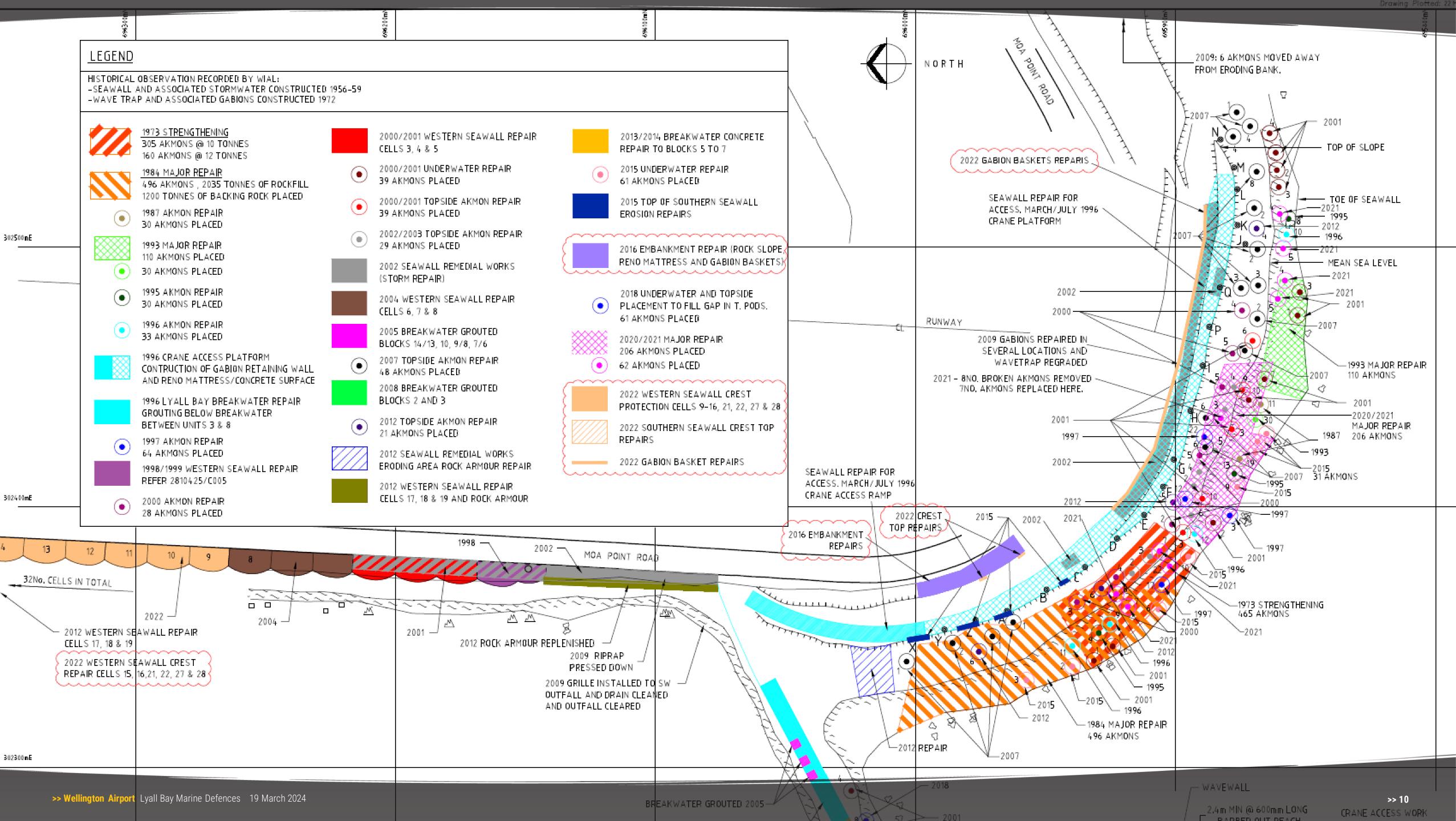
Runway Construction 8 Sept 1958

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1972 Runway Extension





Condition of Western Sheetpile cells



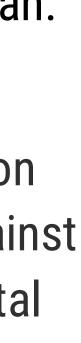
April 1984 Breach

CITER .



Project Overview

- Strategic resilience project in WIAL's 2040 Masterplan.
- **Objectives:** \bullet
 - Safeguard the long-term operation of Wellington Airport and adjacent council infrastructure against natural hazards, e.g., coastal inundation, coastal erosion.
 - Provide for continued safe airport operation during the sea defences construction period.
 - Deliver a sustainable solution that is adaptable for any future Wellington Airport development opportunity and delivers prudent use of capital.





Western Seawall





Site features

- Operational environment:
 - OLS (Obstacle Limitation Surface)
 - ILS (Instrument Landing System) glide path
- Wave, wind exposure
- Shallow water by Lyall Bay Breakwater & Western Seawall
- Moa Point Road traffic
- Underground services



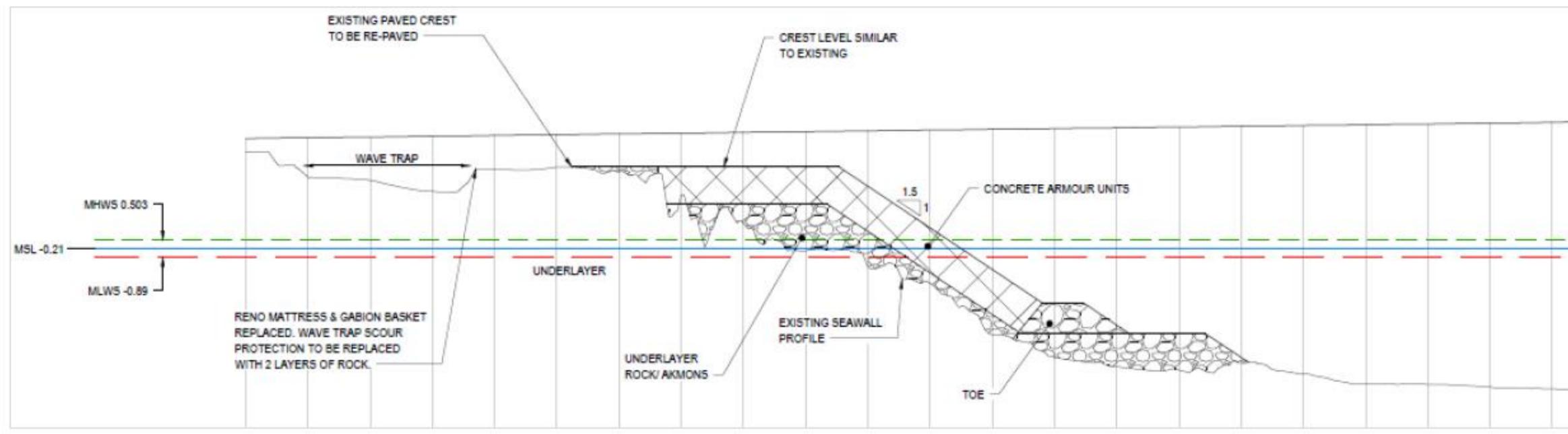




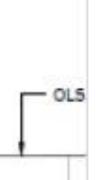


Southern Seawall options

Overlay option



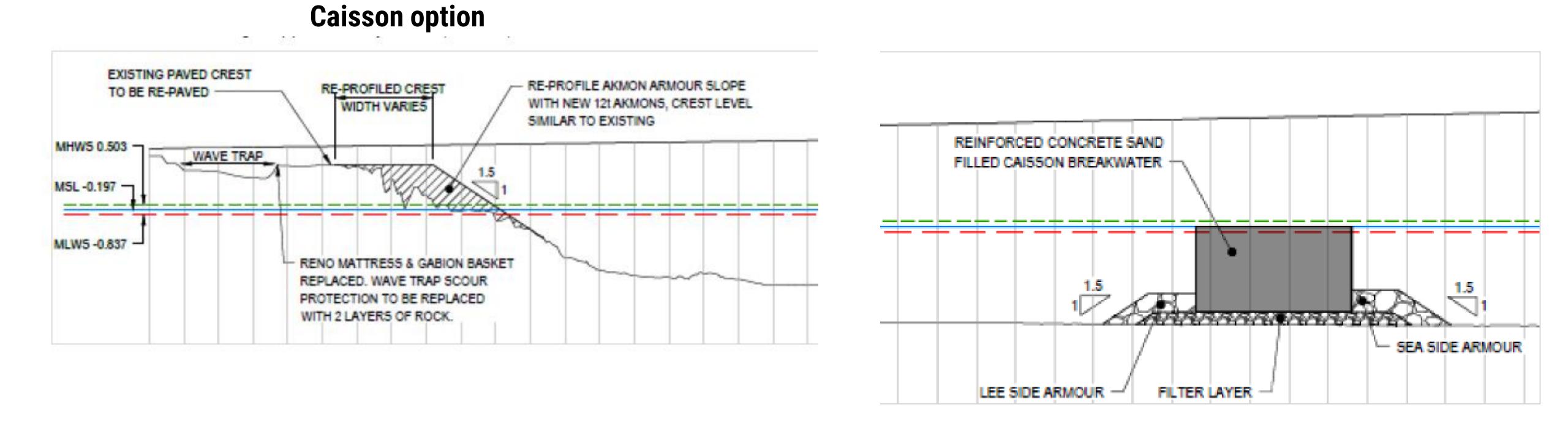








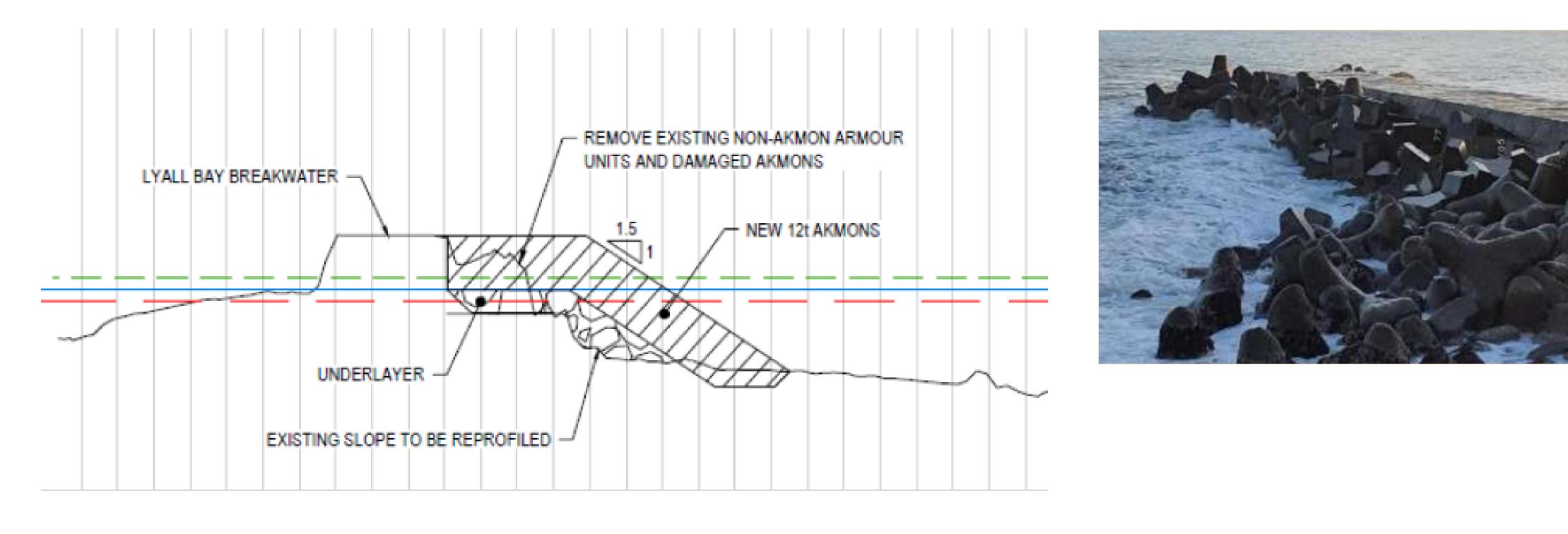
Southern Seawall options





Lyall Bay Breakwater options

Repair and armour





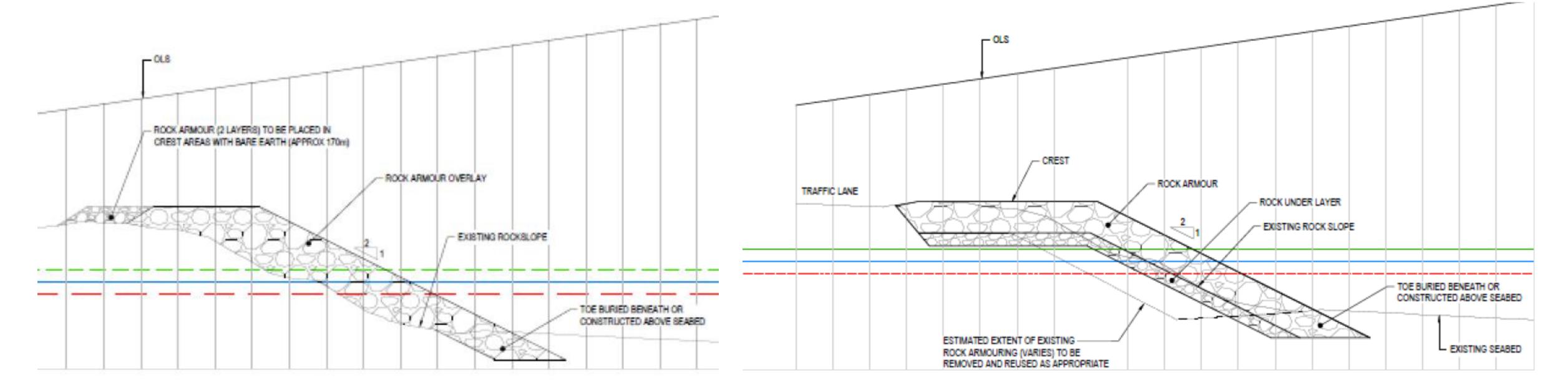
Monitor and manage





Western Seawall options

Rock overlay



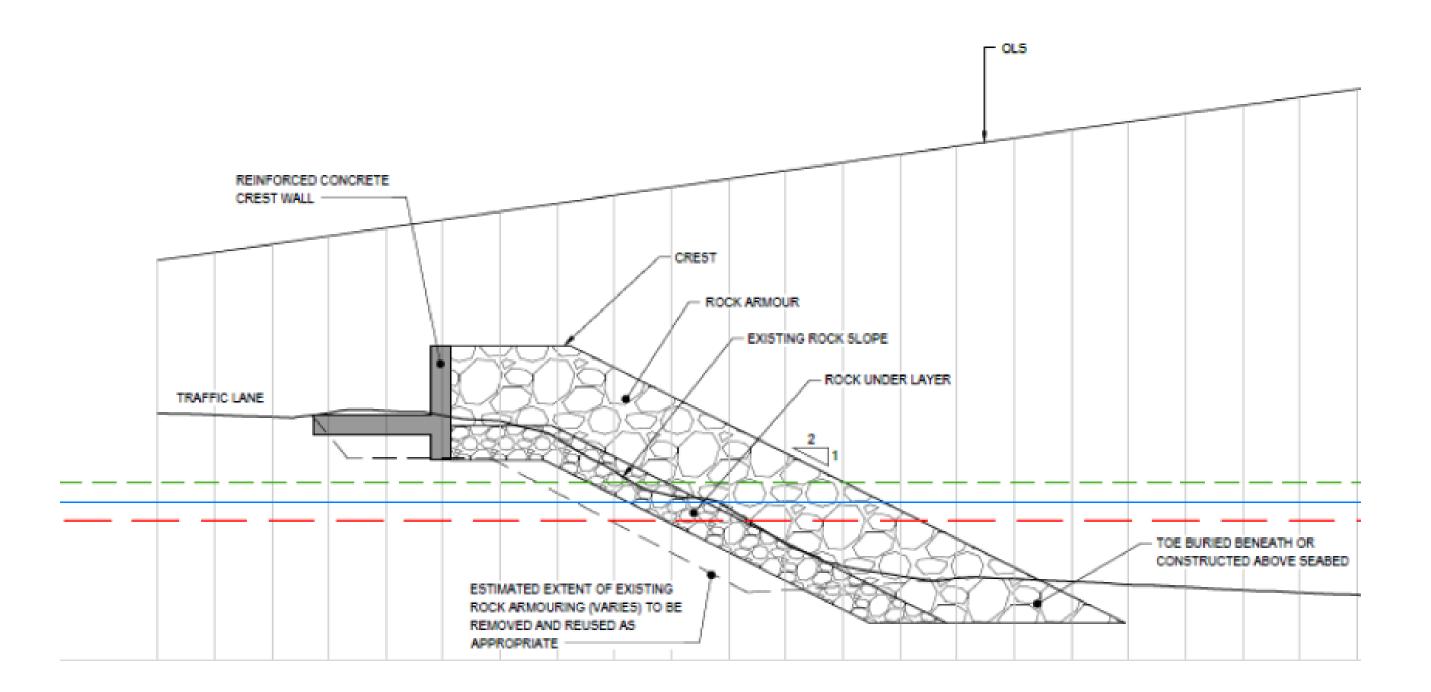
WELLINGTON

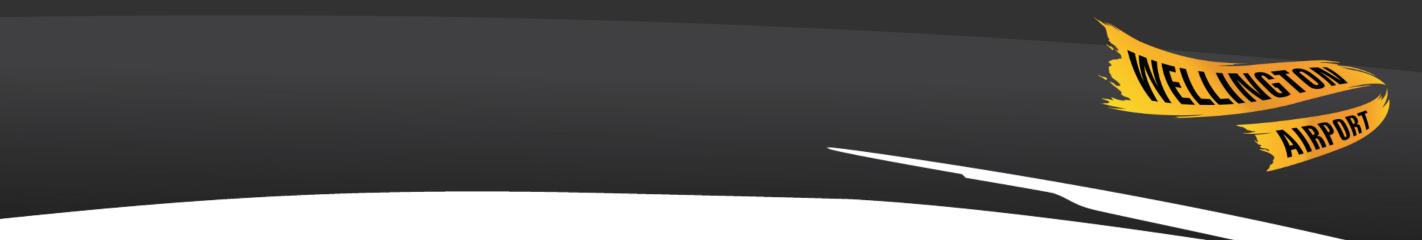
Rebuild and armour (low crest)



Western Seawall options

Rebuild and armour (high crest)





Community consultation and consenting – next steps

- feedback.
- landscape and natural character, coastal processes, heritage, cultural and recreational use assessments.
- Construction related effects (noise, vibration, dust, transportation) will also require detailed assessment.
- Technical assessments will be commissioned in October.

• GWRC Natural Resources Plan (NRP) includes rules that provide for routine repair and maintenance of coastal defence structures – scale of proposed works will not meet permitted activity standards.

• Resource consents will be required under NRP and WCC District Plan which will be open to public

• Range of technical assessments will be required to assist the consenting process including ecology,



Community consultation and consenting – next steps

- Wellington Airport is committed to engaging with community and key stakeholders, including mana whenua.
- manage them.
- How can we work together to best manage these effects?

• As technical work continues, this will be shared. Collaboration is key to getting community perspectives about the range of environmental effects that will likely occur and how best to

• A key challenge is to address amenity related effects arising from construction activities, some of which need to occur after daily airport operations cease (i.e. at night) and which require the movement of construction materials, plant and machinery to and around the site.



Questions?

