



Moffat Beach Seawall Reconstruction Project

Community Focus Group

Meeting 13 November 2024

Meeting Agenda

Item no.	Agenda Topics	Time	By Whom
1.	Introduction and Apologies	4:00pm	Chairperson
2.	Acknowledgement of Country	4:05pm	Open to Floor
3.	Acceptance of Previous Minutes	4:10pm	Chairperson
4.	Previous meeting action items and CFG member feedback from previous meeting	4:20pm	Adam Connell
5.	Design update – refined footprint, landscaping elements, ramp access	4:30pm	Project Team
6.	Seawall Design and Coastal Modelling with Prof. James Carley, University of New South Wales	4:50pm	Prof. James Carley
7.	Q&A Discussion (incl. Prof. James Carley)	5:15pm	Project Team
8.	Next Steps	6:00pm	Adam Connell
9.	General business and next meeting - Community pop-up - UnityWater outfall pipe	6:15pm	Chairperson



Acknowledgement of Country

Acceptance of Previous Minutes

Previous Meeting

- Action items
- Feedback from meeting

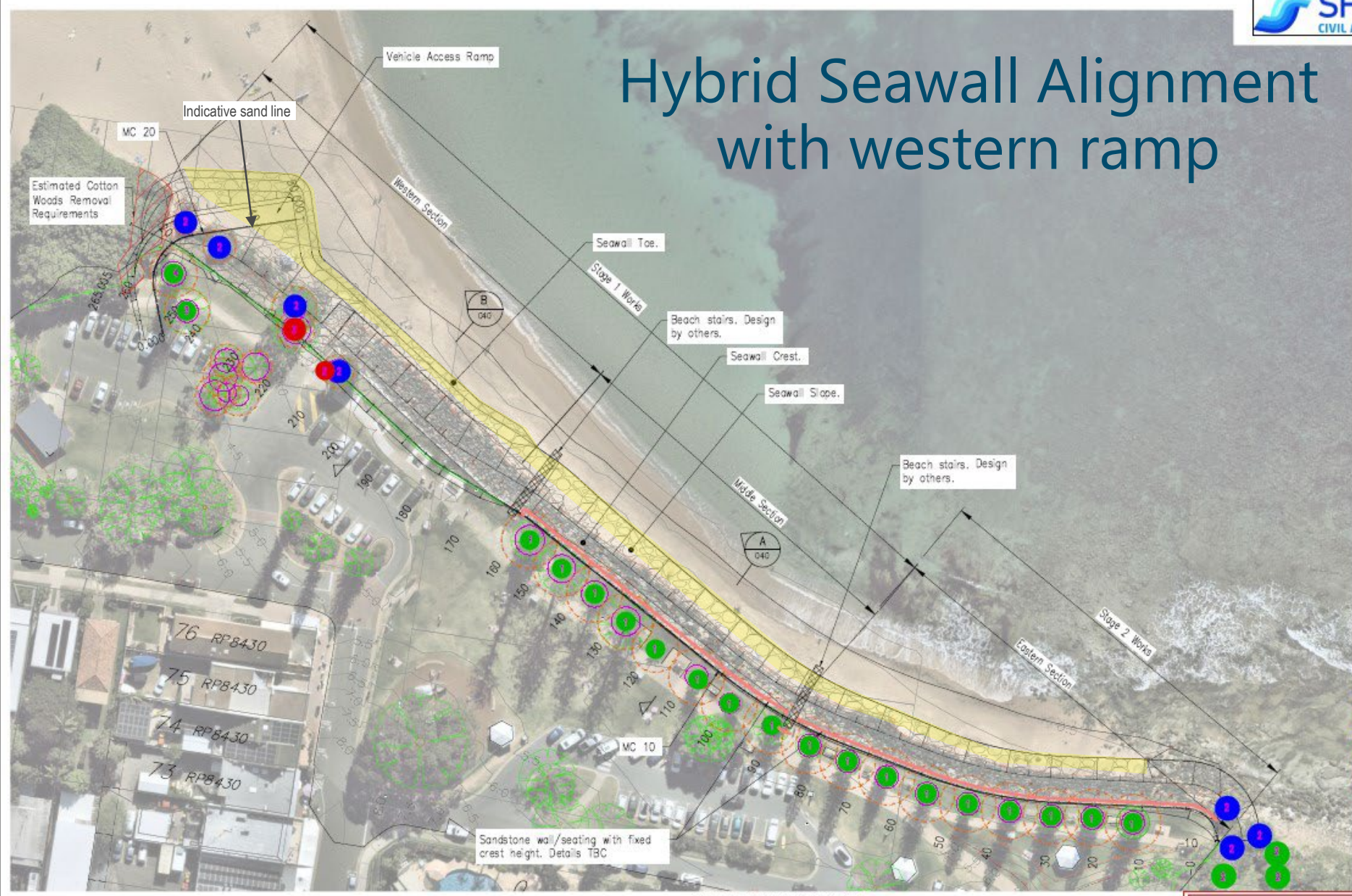
Design update

- Refined alignment/footprint
- Landscaping elements
- Ramp access
- Surf impact model

Preamble

- Residual risks – approvals, tree assessment, surf modelling, internal stakeholder reviews.
- Concept form, still at 30%.
- Things are subject to change!

Hybrid Seawall Alignment with western ramp



SITE GENERAL ARRANGEMENT
SCALE 1:400

FOR APPROVAL
NOT FOR CONSTRUCTION OR TENDER

ENGINEER CERTIFICATION <i>Peter Kallup</i>	SURVEYOR DSQ	SURVEY OF Maffat Beach Park and Seawall	
NAME: Peter Kallup	SURVEY NO.	FIELD BK	LEVEL BK
RFQD No: 10585	14551-01M-01	HORIZ DATUM GDA 2020 Z36	VERT DATUM
	09/09/22	ORIG PSM	ORIG RL
		182433	5.097

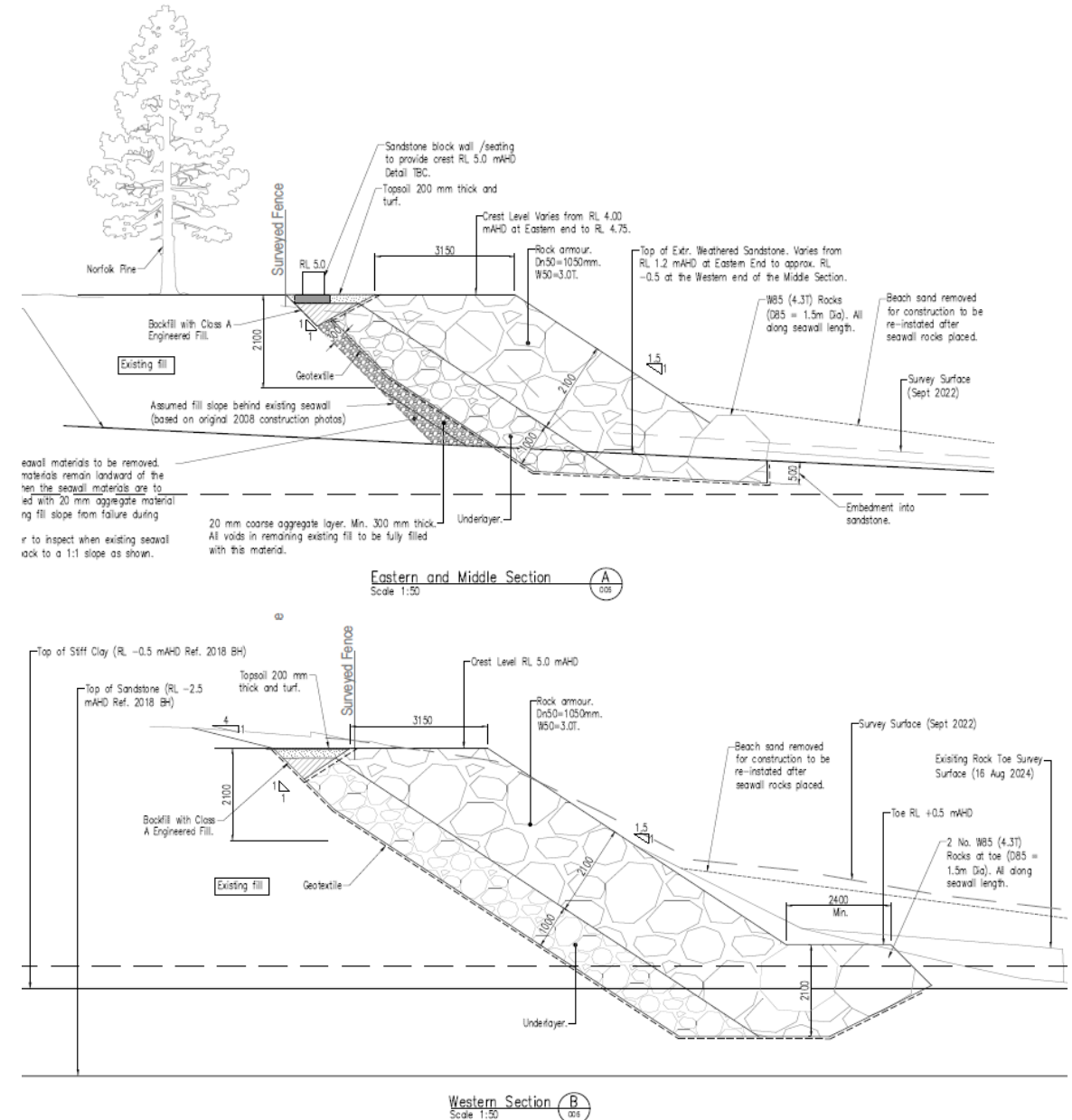
PROJECT:	Maffat Beach Seawall Reconstruction
TITLE:	Site General Arrangement New Seawall and Ramp

CLIENT DRAWING NO:	REV:
SCMC-22006-DRG-006	B
PLAN:	OTHER DRG. NO. / SIZE:
- OF -	- AT

Refined Seawall Footprint

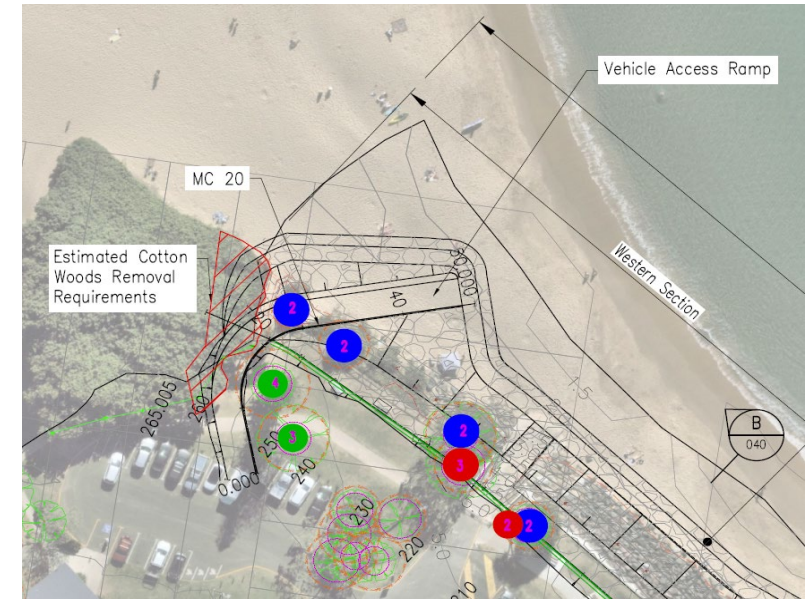
Seawall:

- Seawall footprint has been reduced as much as possible whilst maintaining a suitably high factor of safety (long term FOS of 1.5 adopted)
- Slope of 1:1.5 adopted
- Seawall footprint varies between 10-13m for the middle and eastern section and approximately 15.5m for western section
- 0.5m embedment into the sandstone rock shelf (around MSL) and 1.1-1.3m embedment into stiff clay layer
- A return is required at the end of the eastern section, this will change the look of the area. Some vegetation will be impacted however we are looking at improving the beach access.
- Potential for increased construction timeframes and costs associated with the seaward design (excavators need to work on the beach and in tidal zone to avoid tree impacts).



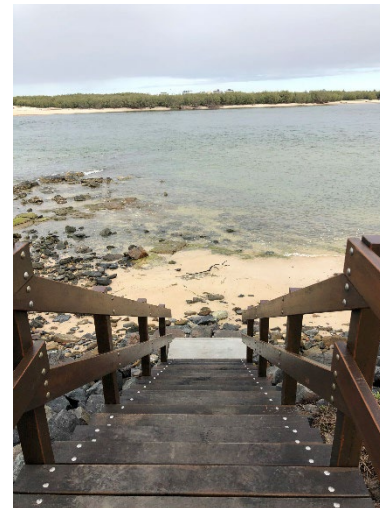
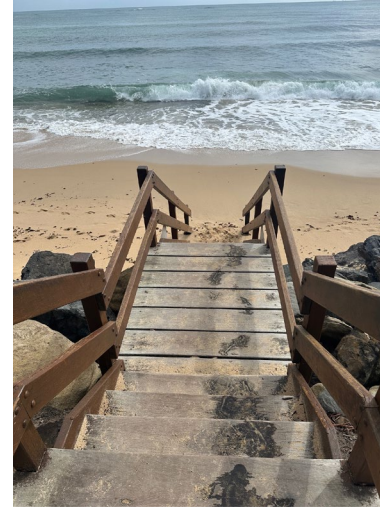
Ramp Alignment

- Ramp alignment has taken community feedback on board and is now closer to the water.
- Ramp extends into the beach and has rock armoring on both sides for wave impacts
- The new design is approximately half as steep than the old decommissioned ramp to support increased accessibility to the water.
- The ramp location will require changing the location of the disability parking to be on that side of the car park.
- Additional concreting will be required in the park linking the carpark and ramp.
- Council aims to retain the Cook Island Pine. The current ramp is on the edge of the tree protection zone (4m). Some removal of cotton woods will be required to accommodate retention of the Cook Island pine.
- No loss of parking is being proposed however changes may need to be made to layouts to improve traffic movement and improve location of the disability bays.



Beach access stairs

- Similar to other stairs built across the Sunshine Coast and a more durable version of those being replaced.
- New stairs to be similar in size and shape to BA77 Coolum and similar layout to BA296 Bulcock beach. Designs to align with SCC Landscape Infrastructure Manual (LIM)
- Marine grade aluminium frames.
- Durable native hardwood touch points (balustrades, treads), this keeps the timber aesthetic with lower maintenance costs.
- Minimesh landings for durability and to allow sand/water to fall through.
- Concrete and minimesh lower stairs when beach is extremely eroded (past the existing piles).
- Option for beach showers to be built on the side of stairs.
- Option for small viewing deck on opposite side of shower platform.



Option for terraced seating at eastern end of seawall

- Currently the top of wall is approximately 4.0m AHD, this needs to be raised to 5m AHD.
- There's an opportunity to do this with terraces which would act as large seats and blend in with the sandstone block barrier.
- Sandstone or concrete could be used or a mix of concrete, sandstone and timber structure sitting above 5m.
- Views of surf and area to hold (and judge?) surfing events.
- Council considering a minor upgrade to the eastern track and formalising this as a BA, it is intended the look and feel of this track would be similar but formalised with a stabilised decomposed granite pathway and some additional sandstone boulders to formalise the track extents.
- Move shower to drain over the seawall or hardstand area.



Surf impacts model update

- Completed review of existing topographic and bathymetric survey data to identify data gaps. While existing data will be suitable for beach and offshore areas, a requirement for high resolution hydrographic survey in surfing area was identified (inshore of -5m AHD contour).
- We're seeking a quote for this survey now.
- Completed a review of high resolution aerial imagery over past ~3 years to identify and map the surfing area (see example maps showing 'surfing wave tracks' below). Commenced initial setup of detailed SWASH numerical model to determine alongshore extent and offshore boundary
- The consultant has asked for help identifying and understanding the community's naming (if any) of the different zones/ sections of this surf break.



Landscaping Elements

- Landscaping elements such as the sandstone block wall at the crest is being considered as part of the overall design. These blocks reduce the risk of wave overtopping but also acts as a seat and safety barrier.
- Location of BA stairs will be in the same locations as previous and will be extended lower to ensure use during periods of beach scour.
- Council aims to run a 3.6m wide coastal path through the site pending design outcomes (3m minimum).
- Consideration for see through balustrades (fencing) at sections where the existing surface is at 5m AHD.
- Council aims to transplant several pandanus trees currently growing in the existing western section of the seawall back into the park (subject to arborist assessment and approval).
- Adequate seating and park benches to be reinstated, with accessibility to be considered to these areas.
- Council landscape architects will aim to retain the look and feel of the open space and be faithful to the character of Moffat Beach.



Presentation by James Carley UNSW

Q&A with James Carley UNSW

Next Steps

Next Steps

- Present seawall design and community feedback from this forum to Council's Coastal Planning and Hazard Management Program Steering Group for support to proceed
- Submit Tidal Works approvals to start the State Government approval process
- Begin and incorporate landscape elements and beach access designs into the final seawall construction documentation
- Prepare and respond to any RFI from the State Government regarding the approval
- Once approved by both the State and Council, update community on the outcome
- Finalise construction planning including cost forecasting, sourcing materials/rock, developing management plans etc.

General Business and Next Meeting

- Review arising actions
- Agree on next meeting date, time and location
- Nominations for agenda items

Thanks for your time



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