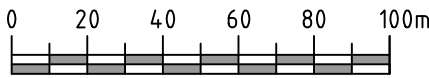




SITE LOCATION PLAN

SCALE 1:2000



SCALE 1:2000 AT ORIGINAL SIZE

CONCEPT

C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW
Amendments		



PROJECT:
EMU PARK SEAWALL DESIGN
LIVINGSTONE SHIRE COUNCIL

DESIGNED BY: RWR	DRAWN BY: RWR
DRAWING DATE: 22.10.2025	CHECKED: AXS
SHEET: 1 OF 9	SCALE: AS SHOWN
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COVER PAGE		
PROJECT No. 25020156	DRAWING No. D01	REV. C

EMU PARK SEAWALL DESIGN

A3

DRAWING NO. SHEET TITLE

D01	COVER PAGE
D02	NOTES
D03	OVERALL PLAN LAYOUT
D04	ROCKWORK LAYOUT PLAN
D05	DESIGN LAYOUT PLAN
D06	DETAILS SHEET 1 OF 3
D07	DETAILS SHEET 2 OF 3
D08	DETAILS SHEET 3 OF 3
D09	RAMP LONGSECTION

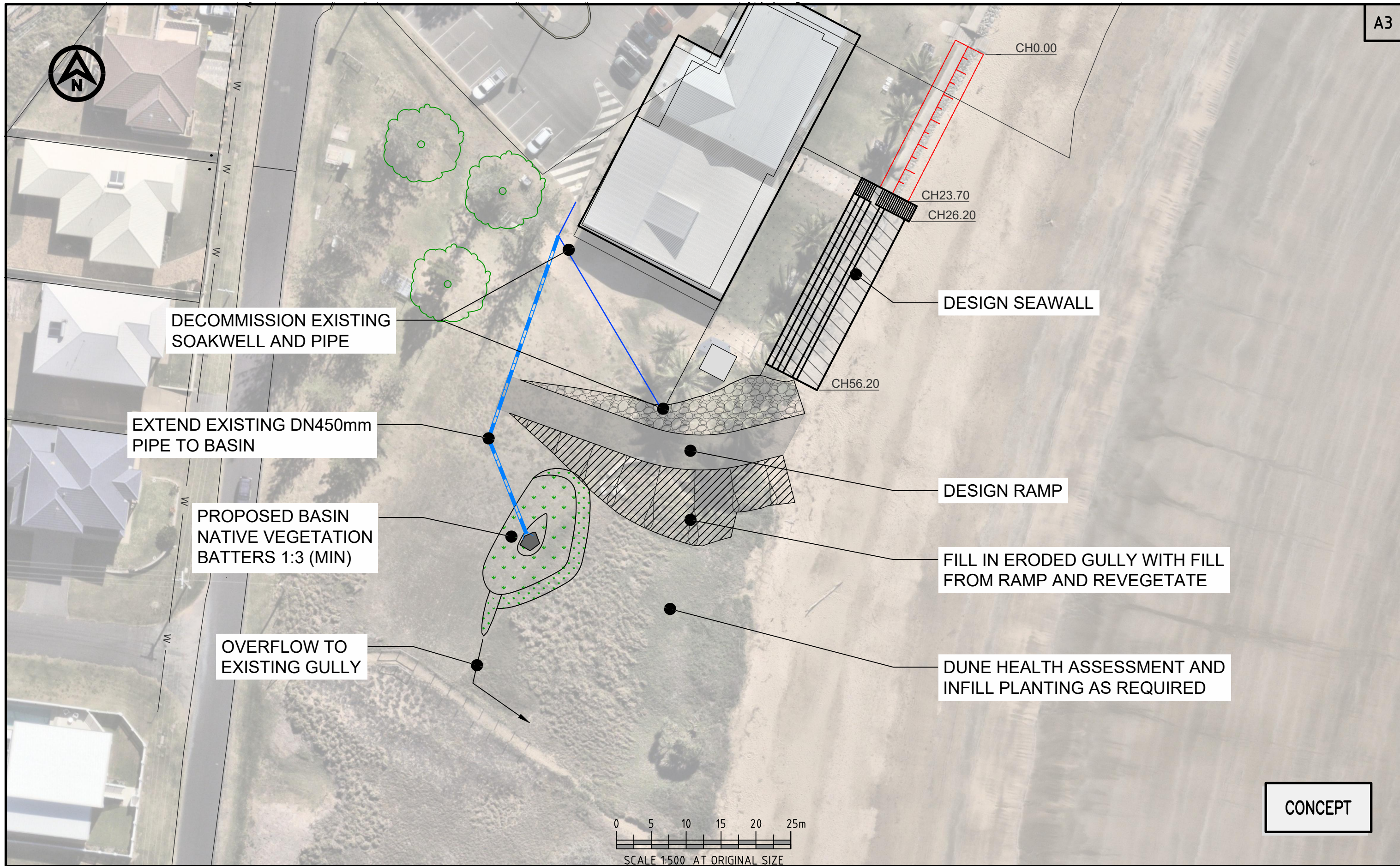
NOTES

- DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
- ALL LEVELS ARE RELATIVE TO AUSTRALIAN HEIGHT DATUM (AHD)
- DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT REPORT.
- THE CONTRACTOR SHALL MAINTAIN ALL WORK SITES, SITE EXCAVATIONS,AND BATTERS IN A SAFE AND STABLE CONDITION.
- DO NOT OBTAIN DIMENSION FROM SCALING OF DRAWINGS
- NOMINATED ITEMS DO NOT INDICATE EXCLUSIVE PREFERENCE, BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL.
- FILL AND BACKFILL SHALL BE CLEAN GRANULAR MATERIAL COMPRISING OF SAND AND ROCK, NO LARGER THAN 37.5MM GAUGE, AND FREE OF ORGANIC MATTER AND ANY DELETERIOUS OR CHEMICAL CONTAMINANTS.
- ROCK ARMOUR SHALL BE OF IGNEOUS OR METAMORPHIC ORIGIN, DENSE, SOUND, RESISTANT TO ABRASION AND FREE OF CRACKS, CLEAVAGE PLANES, SEAMS AND OTHER DEFECTS WHICH CAN RESULT IN BREAKAGE IN A MARINE ENVIRONMENT
- ANY ROCK WICH WILL UNDERGO PHYSICAL CHANGE CAUSING SPALLING, FRACTURING OR WEATHERING IN A MARINE ENVIRONMENT WILL BE REJECTED.
- METHODS USED IN HANDLING AND PLACEMENT OF ROCK SHALL BE SO AS TO MINIMISE BREAKDOWN AND THE PRODUCTION OF FINES.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS3600
- CONCRETE FINISHES SHALLL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL CONCRETE WORKS SHALL BE CURED IN ACCORDANCE WITH THE SPECIFCATIONS.
- CONCRETE SHALL BE SPECIAL CLASS PERFORMANCE FOR THE USE IN A MARINE ENVIRONMENT
- SIZES OF CONRETE ELEMENTS DO NOT INCLUDE THICKNESS OF ANY APPLIED FINISHES.
- ALL HANDRAILS ARE TO BE STAINLESS STEEL GRADE 316 AND PICKLED POLISHED TO PREVENT TEA STAINING
- CONTOURS SHOWN ON PLANS AND SECTIONS ARE SUBJECT TO CHANGE AND THEREFORE MIGHT NOT PROVIDE AN ACCURATE ESTIMATE OF CUT AND FILL QUANTITIES.

CONCEPT

			 WATER, COASTAL & ENVIRONMENTAL CONSULTANTS	CLIENT: 	PROJECT: EMU PARK SEAWALL DESIGN LIVINGSTONE SHIRE COUNCIL	DESIGNED BY: RWR	DRAWN BY: RWR	NOTES			
						DRAWING DATE: 22.10.2025	CHECKED: AXS				
						SHEET: 2 OF 9	SCALE: AS SHOWN				
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C	01.12.2025	ISSUED FOR CLIENT REVIEW							PROJECT No.		25020156
B	22.10.2025	ISSUED FOR CLIENT REVIEW									
A	11.07.2025	ISSUED FOR CLIENT REVIEW									
Amendments											

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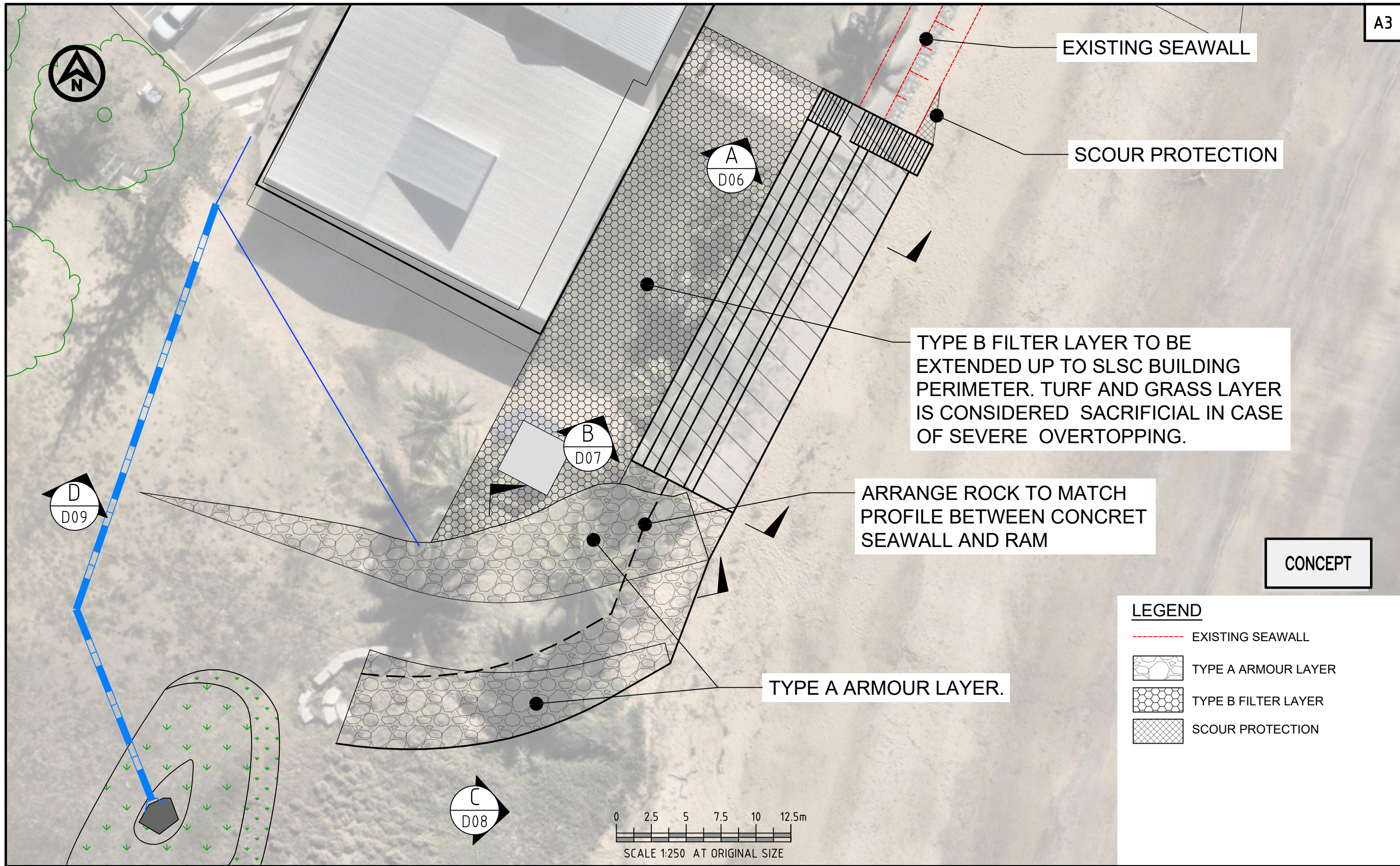
C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW
Amendments		



PROJECT:
EMU PARK SEAWALL DESIGN
LIVINGSTONE SHIRE COUNCIL

DESIGNED BY: RWR	DRAWN BY: RWR
DRAWING DATE: 22.10.2025	CHECKED: AXS
SHEET: 3 OF 9	SCALE: NOT TO SCALE
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OVERALL LAYOUT PLAN		
PROJECT No. 25020156	DRAWING No. D03	REV. C

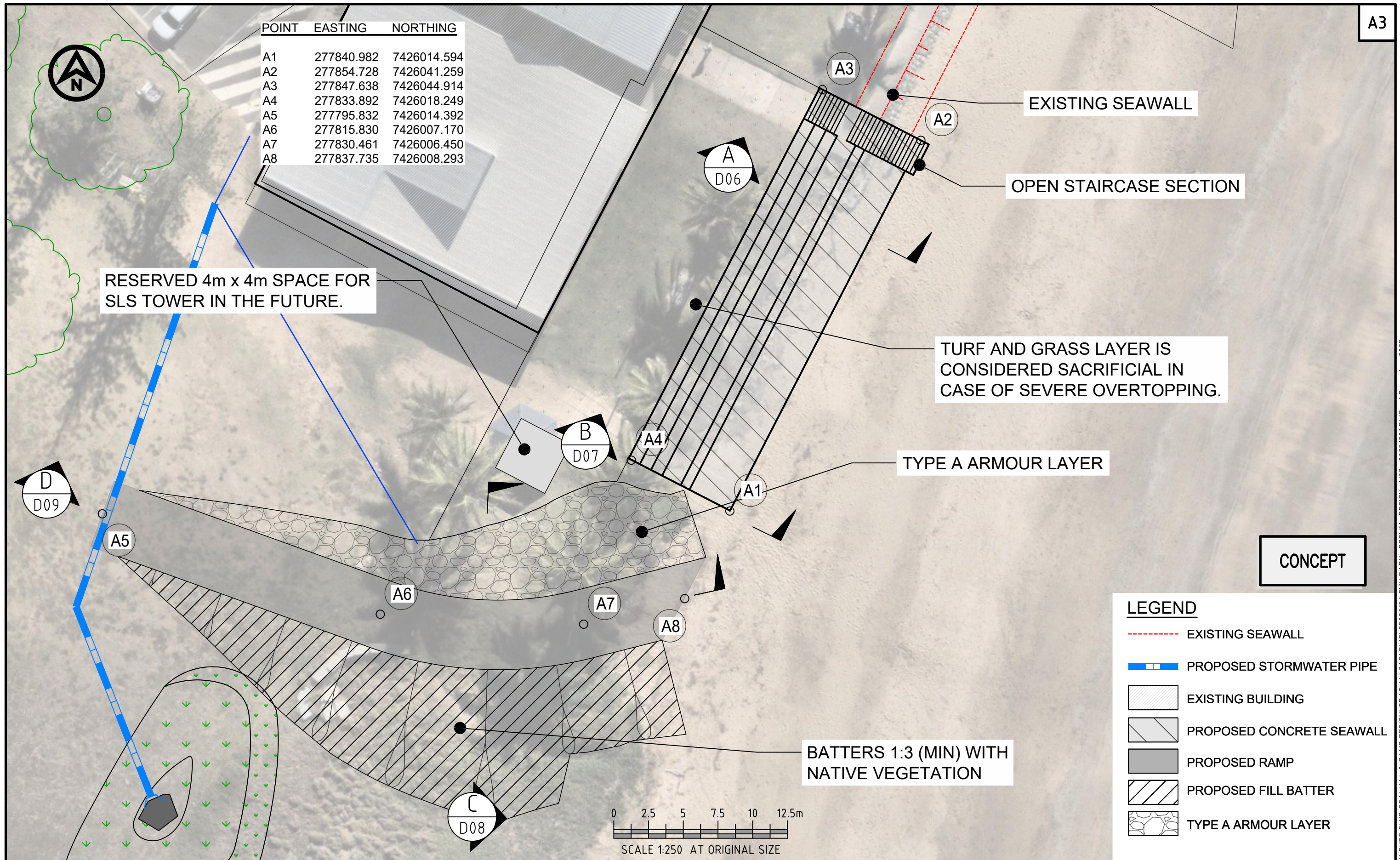


LEGEND

- EXISTING SEAWALL
- [Pattern] TYPE A ARMOUR LAYER
- [Pattern] TYPE B FILTER LAYER
- [Pattern] SCOUR PROTECTION

C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW
Amendments		

 WATER TECHNOLOGY WATER, COASTAL & ENVIRONMENTAL CONSULTANTS	 Livingstone SHIRE COUNCIL	PROJECT: EMU PARK SEAWALL DESIGN LIVINGSTONE SHIRE COUNCIL	DESIGNED BY: RWR	DRAWN BY: RWR	ROCKWORK LAYOUT PLAN			
			DRAWING DATE: 22.10.2025	CHECKED: AXS				
			SHEET: 4 OF 9	SCALE: 1:250	PROJECT No. 25020156	DRAWING No. D04		
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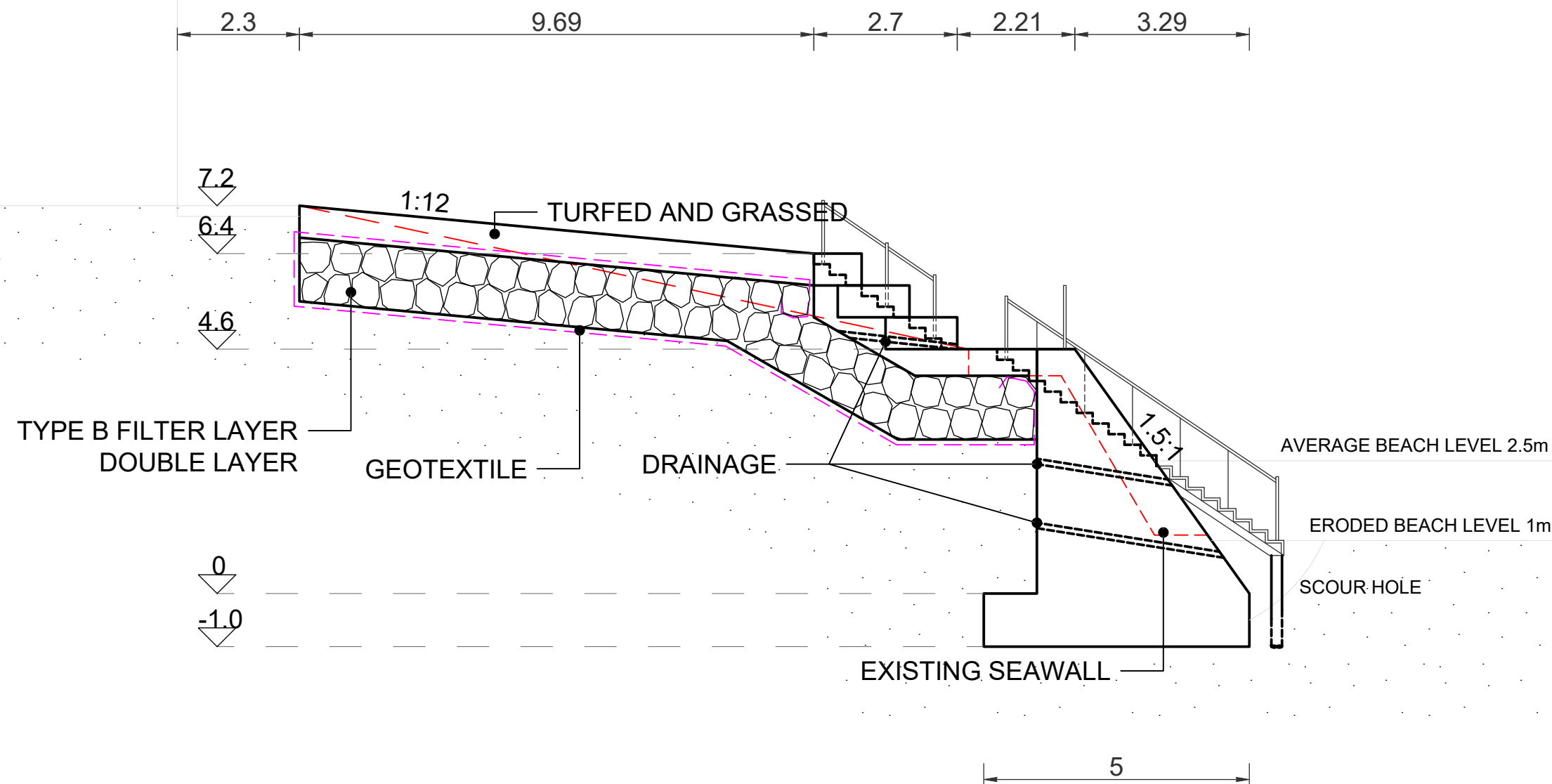
C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW
Amendments		



PROJECT:	EMU PARK SEAWALL DESIGN
	LIVINGSTONE SHIRE COUNCIL

DESIGNED BY:	RWR
DRAWING DATE:	22.10.2025
SHEET:	5 OF 9
DRAWN BY:	RWR
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SCALE:	1:250
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DESIGN LAYOUT PLAN		
PROJECT No.	25020156	DRAWING No.
	D05	REV.
		C



2075 TOTAL WATER LEVEL 4.46m
2025 TOTAL WATER LEVEL 3.86m
1%AEP STORM TIDE 3.56m
HAT 2.82m
MHWS 1.89m
MHWN 0.91m
AHD 0.0M MSL 0.09m
MLWN -0.73m
MLWS -1.72m
LAT -2.39m

TYPICAL SEAWALL CROSS SECTION - A

SCALE 1:00



CONCEPT

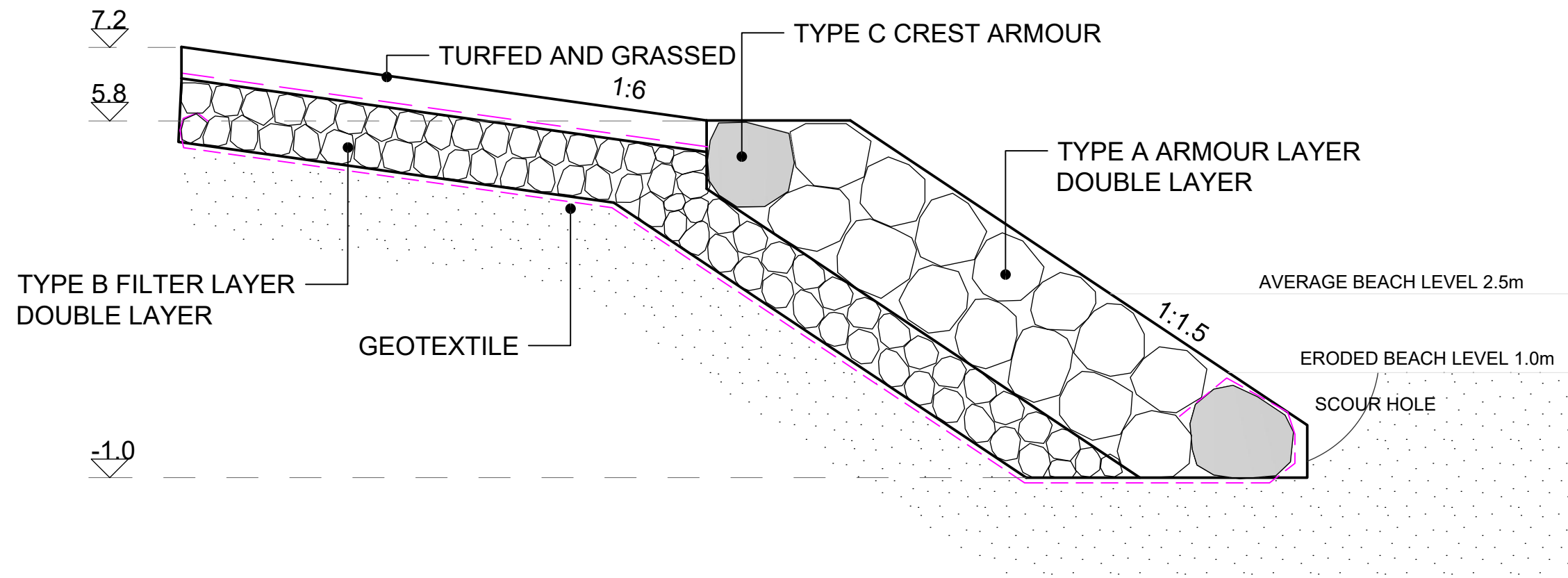
Amendments		
C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW



PROJECT:
EMU PARK SEAWALL DESIGN
LIVINGSTONE SHIRE COUNCIL

DESIGNED BY: RWR	DRAWN BY: RWR
DRAWING DATE: 22.10.2025	CHECKED: AXS
SHEET: 6 OF 9	SCALE: 1:100
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DETAILS SHEET 1 OF 3		
PROJECT No. 25020156	DRAWING No. D06	REV. C



2075 TOTAL WATER LEVEL 4.46m
2025 TOTAL WATER LEVEL 3.86m
1%AEP STORM TIDE 3.56m
HAT 2.82m
MHWS 1.89m
MHWN 0.91m
AHD 0.0m MSL 0.09m
MLWN -0.73m
MLWS -1.72m
LAT -2.39m

TYPICAL ROCK SEAWALL CROSS SECTION - B

SCALE 1:00



SCALE 1:100 AT ORIGINAL SIZE

CONCEPT

Amendments		
C	01.12.2025	ISSUED FOR CLIENT REVIEW
B	22.10.2025	ISSUED FOR CLIENT REVIEW
A	11.07.2025	ISSUED FOR CLIENT REVIEW

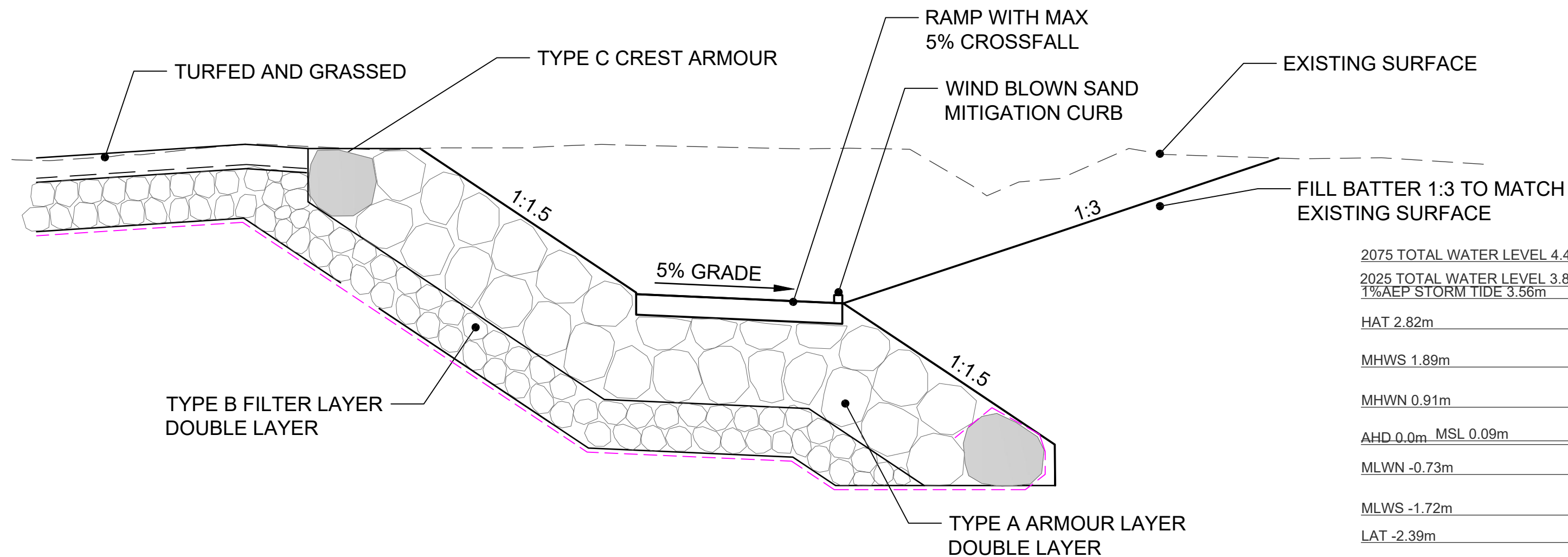


PROJECT:
 EMU PARK SEAWALL DESIGN
 LIVINGSTONE SHIRE COUNCIL

DESIGNED BY: RWR	DRAWN BY: RWR
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DETAILS SHEET 2 OF 3		
PROJECT No. 25020156	DRAWING No. D07	REV. C

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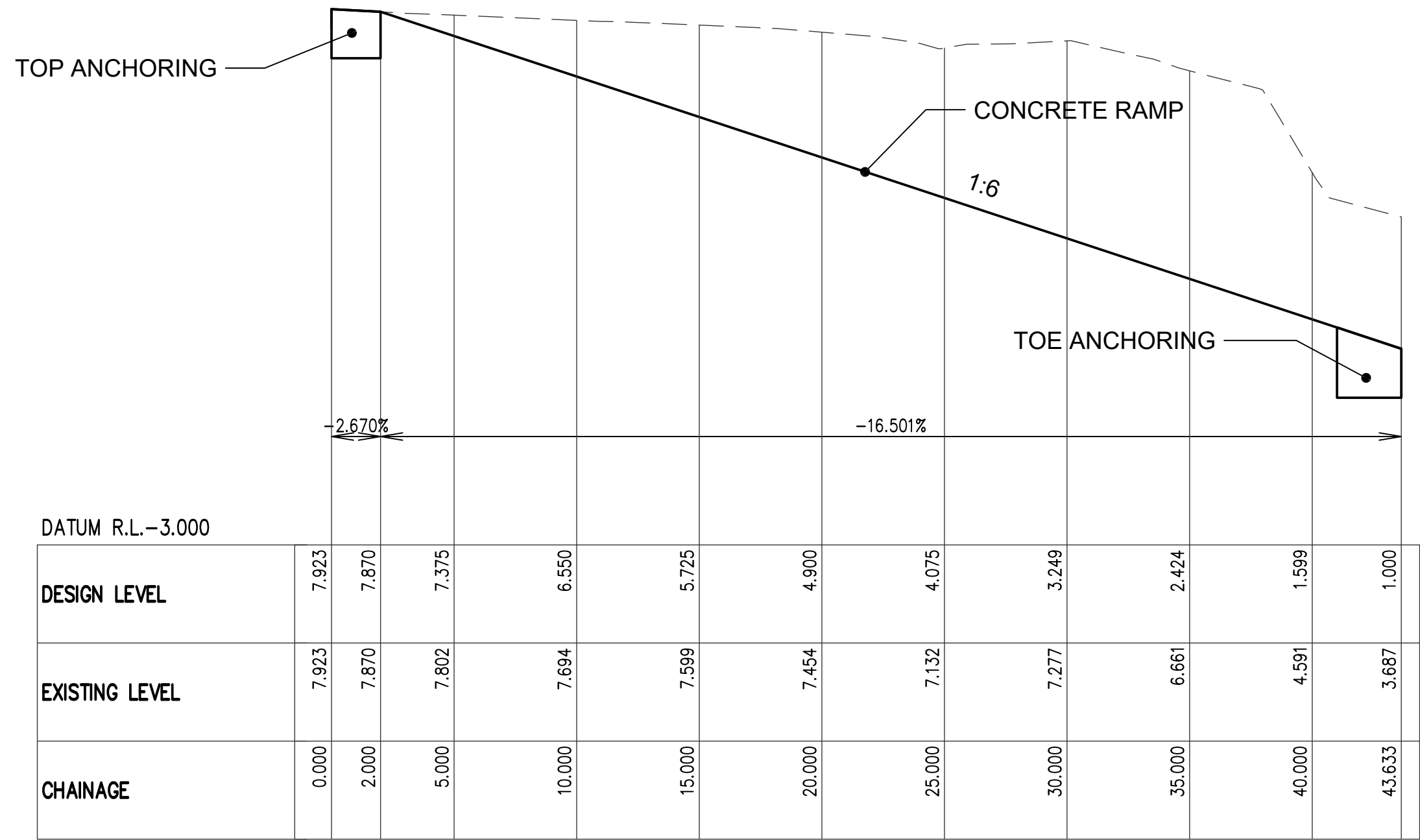


2075 TOTAL WATER LEVEL 4.46m
2025 TOTAL WATER LEVEL 3.86m
1%AEP STORM TIDE 3.56m
HAT 2.82m
MHWS 1.89m
MHWN 0.91m
AHD 0.0m MSL 0.09m
MLWN -0.73m
MLWS -1.72m
LAT -2.39m

RAMP SHORT SECTION - C
SCALE 1:100

			 WATER TECHNOLOGY WATER, COASTAL & ENVIRONMENTAL CONSULTANTS	 Livingstone SHIRE COUNCIL	PROJECT: EMU PARK SEAWALL DESIGN LIVINGSTONE SHIRE COUNCIL	DESIGNED BY: RWR	DRAWN BY: RWR	DETAILS SHEET 3 OF 3		
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Amendments						PROJECT No. 25020156		DRAWING No. D08	REV. C	

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RAMP LONG SECTION - D

SCALE H=1:200, V=1:40

			 WATER, COASTAL & ENVIRONMENTAL CONSULTANTS	 CLIENT: LIVINGSTONE SHIRE COUNCIL	PROJECT: EMU PARK SEAWALL DESIGN LIVINGSTONE SHIRE COUNCIL	DESIGNED BY: RWR	DRAWN BY: RWR	RAMP LONGSECTION		
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C	01.12.2025	ISSUED FOR CLIENT REVIEW								
B	22.10.2025	ISSUED FOR CLIENT REVIEW								
A	11.07.2025	ISSUED FOR CLIENT REVIEW								

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