

## APPENDIX A – SOUTHERN LAND RECLAMATION DRAWINGS

### Location Plan

- 2024-TnT-5076-DRG-GEO-70705

### Construction Arrangements

- 2024-TnT-5075-DRG-GEO-70515
- 2024-TnT-5075-DRG-GEO-70516
- 2024-TnT-5075-DRG-GEO-70517

### Scour Protection Details

- 2024-TnT-5076-DRG-GEO-70715

### Cross-sections

- 2024-TnT-5076-DRG-GEO-70725
- 2024-TnT-5076-DRG-GEO-70726
- 2024-TnT-5076-DRG-GEO-70727
- 2024-TnT-5076-DRG-GEO-70740
- 2024-TnT-5076-DRG-GEO-70745

**TASMANIAN  
PLANNING COMMISSION**

**Endorsed**



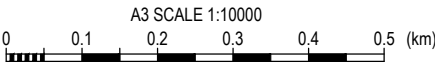
**Date: 12 September 2022**





SITE LOCALITY PLAN  
SCALE: 1:10,000

- NOTES:
- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - 2. CO-ORDINATE SYSTEM: GDA94/MGA ZONE 55.
  - 3. DESIGN STRINGS PROVIDED BY JACOBS.
  - 4. AERIAL PHOTO SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 28/11/2021.



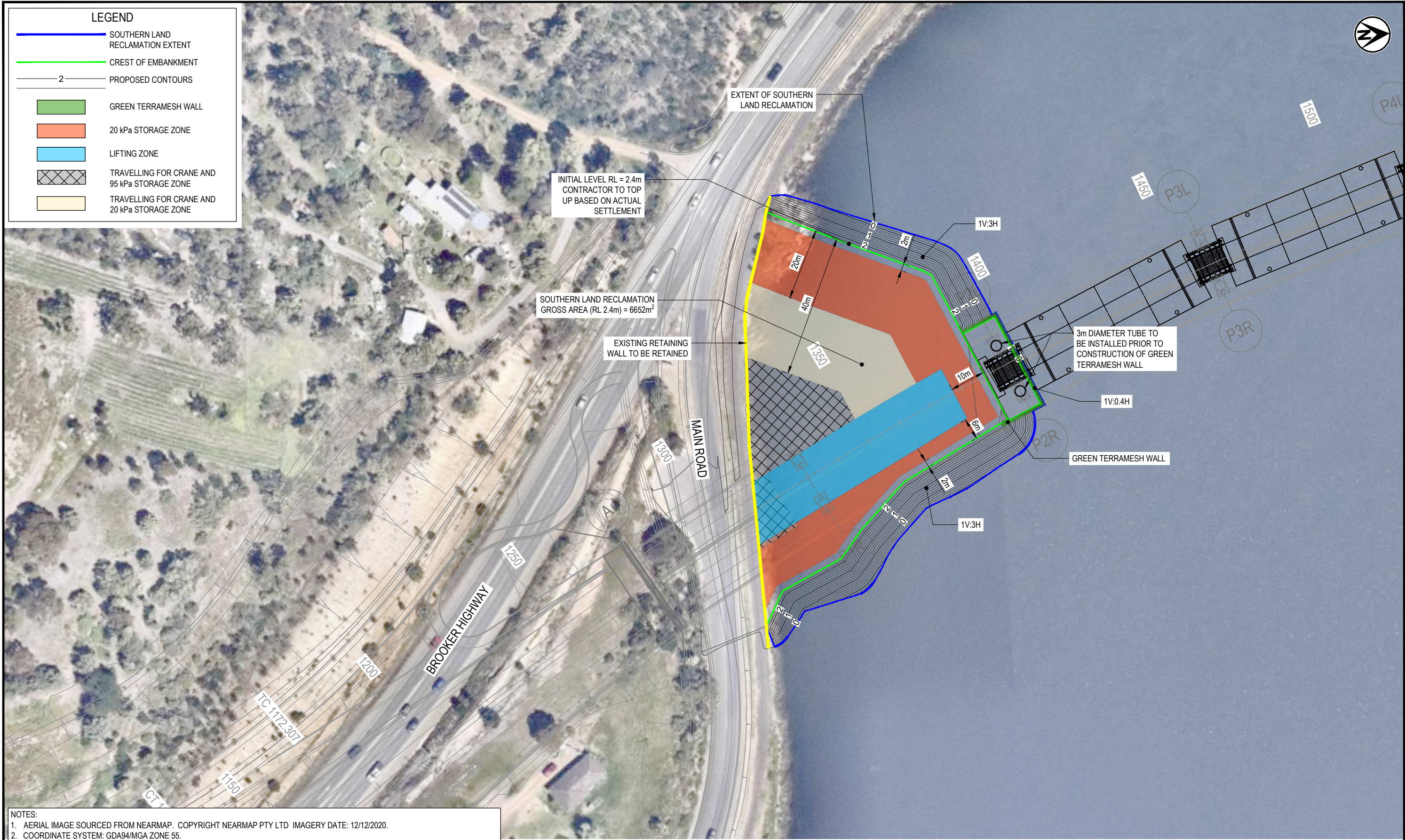
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**SUBSTANTIAL DETAILED DESIGN**

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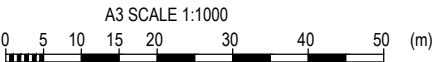
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A		ISSUED FOR SUBSTANTIAL DETAILED DESIGN		KMJA	04/08/2022	DESIGNED: RAR		REVIEWED: DYA		REGISTRATION NUMBER				70705
No.	Amendment Description			Initials	Date					A0087.062				
A3 original		This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: GDA2020 MGA55		Height Datum: AHD83							
														REVISION A
						Exceptional thinking together www.tonkintaylor.com.au								







NOTES:

1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 12/12/2020.
2. COORDINATE SYSTEM: GDA94/MGA ZONE 55.
3. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m).
4. DESIGN STRINGS PROVIDED BY JACOBS. DRAWING REFERENCE: 2024-JAC-1020-M2D-CIV-10101\_CFN, 2024-JAC-1020-M2D-CIV-10312\_C01, 2024-JAC-2020-M2D-CIV-10101\_CFN, 2024-JAC-2021-M2D-CIV-10101\_CFN.
5. BARGE ARRANGEMENT PROVIDED BY MCCONNELL DOWELL. DRAWING REFERENCE: BARGE LAYOUT - ACIS SOLIDS - 01JULY2022.dwg. DATE RECEIVED: 05/07/2022.



**NOT FOR CONSTRUCTION**  
**FINAL DESIGN**

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										MIDLAND HIGHWAY (A0087) BRIDGEWATER BRIDGE REPLACEMENT LAND RECLAMATION - NORTHERN & SOUTHERN SOUTHERN LAND RECLAMATION GENERAL ARRANGEMENT PLAN		3210	2024-TnT-5075-DRG-GEO-70515
B	ISSUED FOR FINAL DESIGN			KMJA	15/07/2022					REGISTRATION NUMBER			REVISION B
A	ISSUED FOR DEVELOPED CONCEPT DESIGN			KMJA	5/06/2022					A0087.062			
No.	Amendment Description			Initials	Date	DESIGNED: RAR	REVIEWED: DYA						
A3 original		This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: GDA2020 MGA55		Height Datum: AHD83	 Exceptional thinking together www.tonkintaylor.com.au					





LEGEND

SOUTHERN LAND RECLAMATION EXTENT

CREST OF EMBANKMENT

2

PROPOSED CONTOURS

6m DEEP MASS SOIL MIXING (MSM)

4m DEEP MASS SOIL MIXING (MSM)

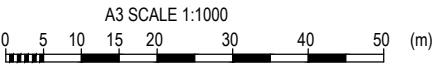
- NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 12/12/2020.

2. COORDINATE SYSTEM: GDA94/MGA ZONE 55.

3. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m).

4. DESIGN STRINGS PROVIDED BY JACOBS. DRAWING REFERENCE: 2024-JAC-1020-M2D-CIV-10101\_CFN, 2024-JAC-1020-M2D-CIV-10312\_C01, 2024-JAC-2020-M2D-CIV-10101\_CFN, 2024-JAC-2021-M2D-CIV-10101\_CFN.

5. BARGE ARRANGEMENT PROVIDED BY MCCONNELL DOWELL. DRAWING REFERENCE: BARGE LAYOUT - ACIS SOLIDS - 01JULY2022.dwg. DATE RECEIVED: 05/07/2022.



NOT FOR CONSTRUCTION

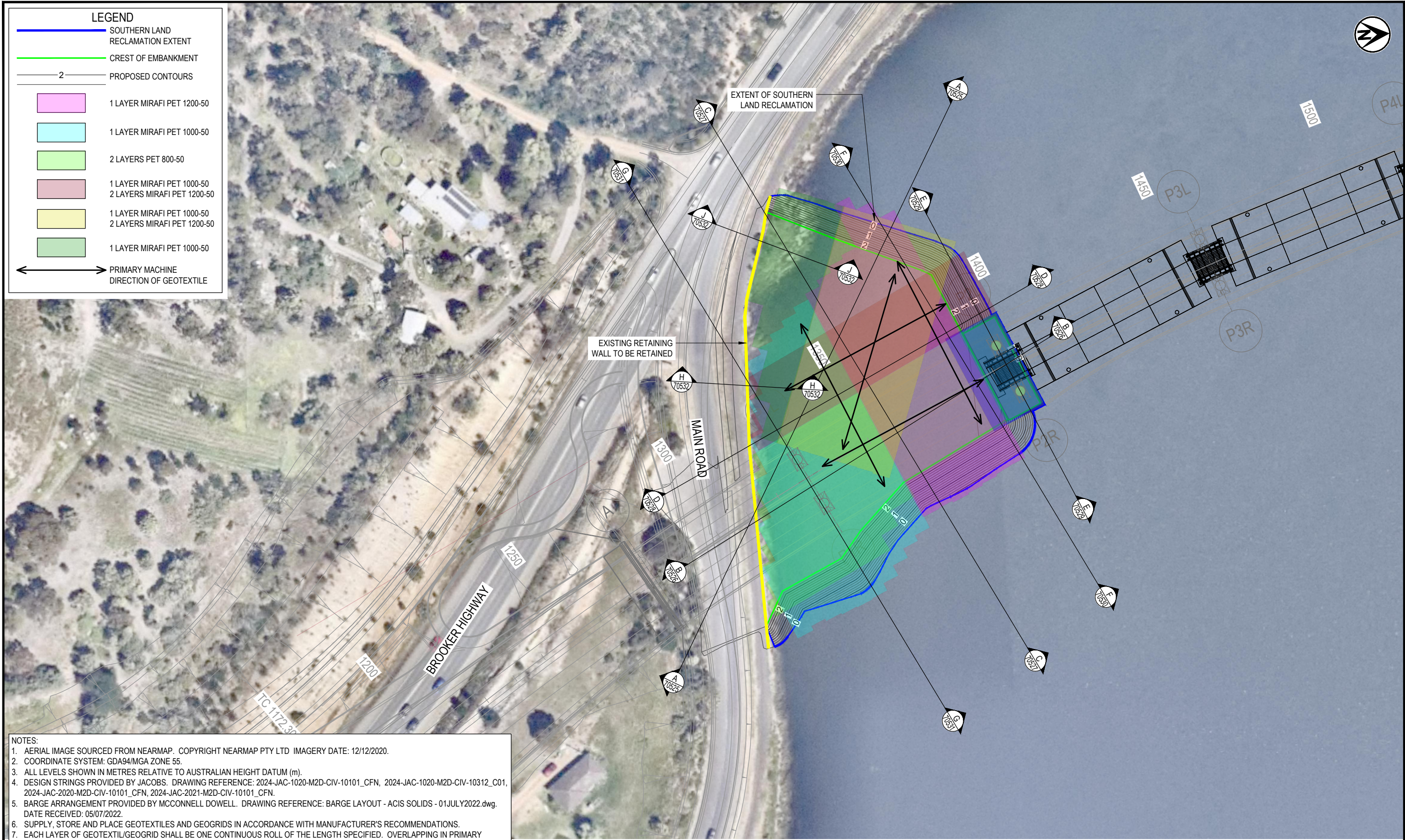
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B	ISSUED FOR FINAL DESIGN			KMJA	15/07/2022	DESIGNED: RAR      REVIEWED: DYA				REGISTRATION NUMBER			
A	ISSUED FOR DEVELOPED CONCEPT DESIGN			KMJA	5/06/2022					A0087.062			
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LEGEND

SOUTHERN LAND RECLAMATION EXTENT

CREST OF EMBANKMENT

2

PROPOSED CONTOURS

1 LAYER MIRAFI PET 1200-50

1 LAYER MIRAFI PET 1000-50

2 LAYERS PET 800-50

1 LAYER MIRAFI PET 1000-50  
2 LAYERS MIRAFI PET 1200-50

1 LAYER MIRAFI PET 1000-50  
2 LAYERS MIRAFI PET 1200-50

1 LAYER MIRAFI PET 1000-50

PRIMARY MACHINE DIRECTION OF GEOTEXTILE

- NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 12/12/2020.

2. COORDINATE SYSTEM: GDA94/MGA ZONE 55.

3. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m).

4. DESIGN STRINGS PROVIDED BY JACOBS. DRAWING REFERENCE: 2024-JAC-1020-M2D-CIV-10101\_CFN, 2024-JAC-1020-M2D-CIV-10312\_C01, 2024-JAC-2020-M2D-CIV-10101\_CFN, 2024-JAC-2021-M2D-CIV-10101\_CFN.

5. BARGE ARRANGEMENT PROVIDED BY MCCONNELL DOWELL. DRAWING REFERENCE: BARGE LAYOUT - ACIS SOLIDS - 01JULY2022.dwg. DATE RECEIVED: 05/07/2022.

6. SUPPLY, STORE AND PLACE GEOTEXTILES AND GEOGRIDS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

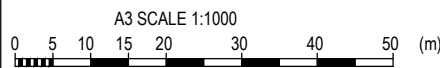
7. EACH LAYER OF GEOTEXTIL/GEOGRID SHALL BE ONE CONTINUOUS ROLL OF THE LENGTH SPECIFIED. OVERLAPPING IN PRIMARY MACHINE DIRECTION IS NOT PERMITTED WITHOUT APPROVAL FROM GEOTECHNICAL DESIGNER.

8. NOMINAL 200mm FILL LAYERS SHALL BE PLACED ABOVE EACH GEOTEXTILE LAYERS BEFORE UNDERTAKING COMPACTION.

9. REFER TO DRAWINGS 2024-TnT-5075-DRG-GEO-70519 TO 2024-TnT-5075-DRG-GEO-70523 FOR GEOTEXTILE LAYOUT PLANS.

10. REFER TO DRAWINGS 2024-TnT-5075-DRG-GEO-70518 FOR GREEN TERRAMESH WITH GEOGRID REINFORCEMENT PLAN.

11. REFER TO DRAWING 2024-TnT-5075-DRG-GEO-70561 FOR GEOTEXTILE AND GEOGRID OVERLAP DETAILS.

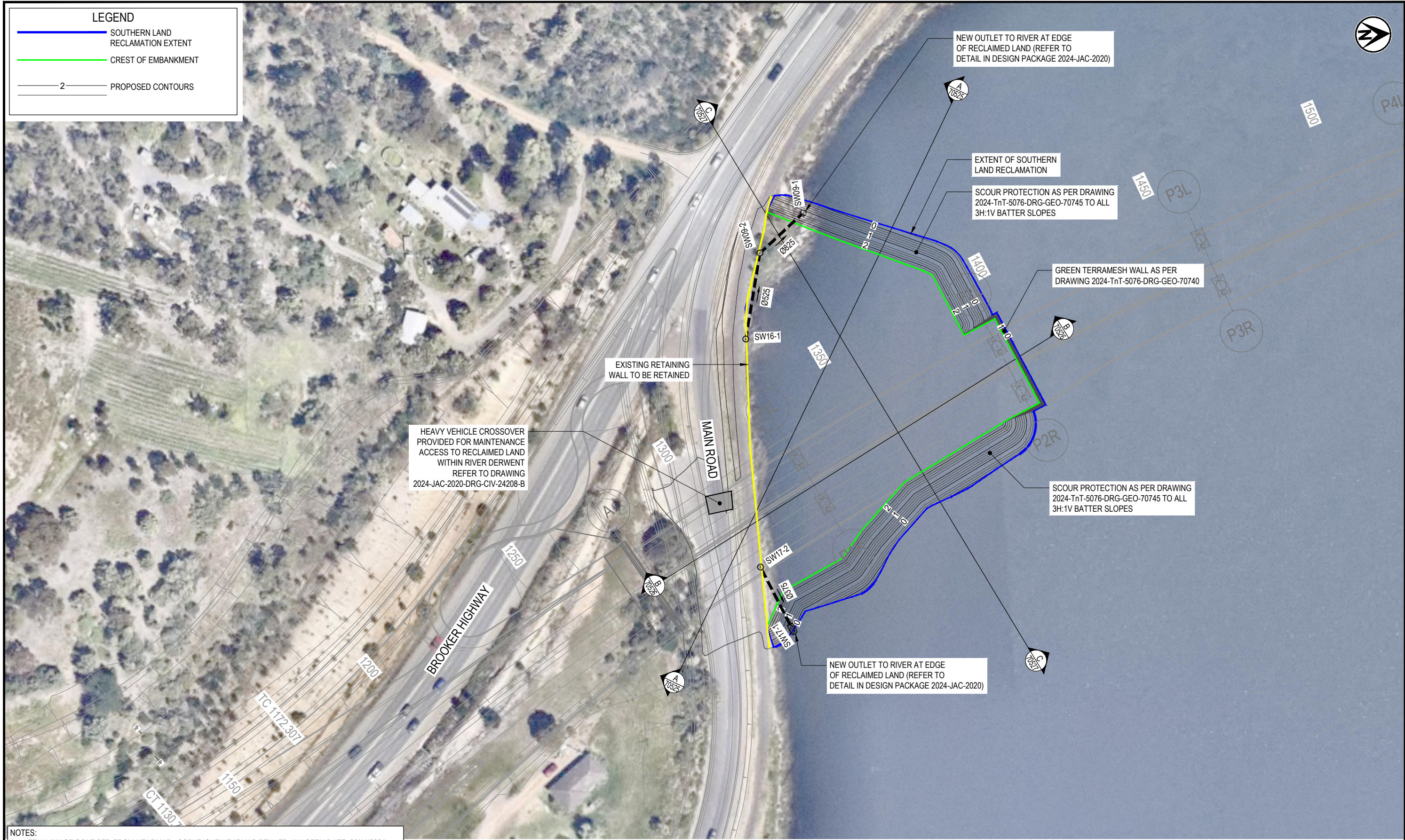


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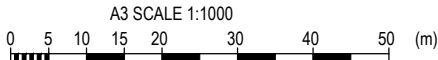
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A		ISSUED FOR DEVELOPED CONCEPT DESIGN		KMJA		5/06/2022		DESIGNED: RAR		REVIEWED: DYA								
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  3. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m).
  4. DESIGN STRINGS PROVIDED BY JACOBS. DRAWING REFERENCE: 2024-JAC-1020-M2D-CIV-10101\_CFN, 2024-JAC-1020-M2D-CIV-10312\_C01, 2024-JAC-2020-M2D-CIV-10101\_CFN, 2024-JAC-2021-M2D-CIV-10101\_CFN.



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**SUBSTANTIAL DETAILED DESIGN**

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No.	Amendment Description			Initials	Date															
A3 original	This sheet may be prepared using colour and may be incomplete if copied					Co-ordinate System: GDA2020 MGA55		Height Datum: AHD83												



LEGEND

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MSL

EXISTING GROUND LEVEL

INFERRED GEOLOGICAL BOUNDARY

DESIGN FINISHED SURFACE LEVEL

MEAN SEA LEVEL - PRESENT DAY

FILL

HOLOCENE ESTUARINE CLAY/SILT/SAND (Qhi)

TRIASSIC SANDSTONE (Rcq)

PERMIAN SANDSTONE/MUDSTONE (Pua)

TRIASSIC SEDIMENTARY BRECCIA

QUATERNARY ALLUVIAL SAND/GRAVEL (Qpf)

PLEISTOCENE ESTUARINE MUD

6m DEEP MASS SOIL MIXING (MSM)

4m DEEP MASS SOIL MIXING (MSM)

MIRAFI PET 1200-50

MIRAFI PET 1000-50

MIRAFI PET 800-50

WORKING PLATFORM (COMPACTED ENGINEERED FILL)

WELL COMPACTED GRANULAR FILL

UNCOMPACTED EMBANKMENT FILL

NOTES:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.  
2. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m AHD).  
3. MSL DENOTES MEAN SEA LEVEL - PRESENT DAY.

SECTION A  
SCALE 1: 500  
70715

NOT FOR CONSTRUCTION  
SUBSTANTIAL DETAILED DESIGN

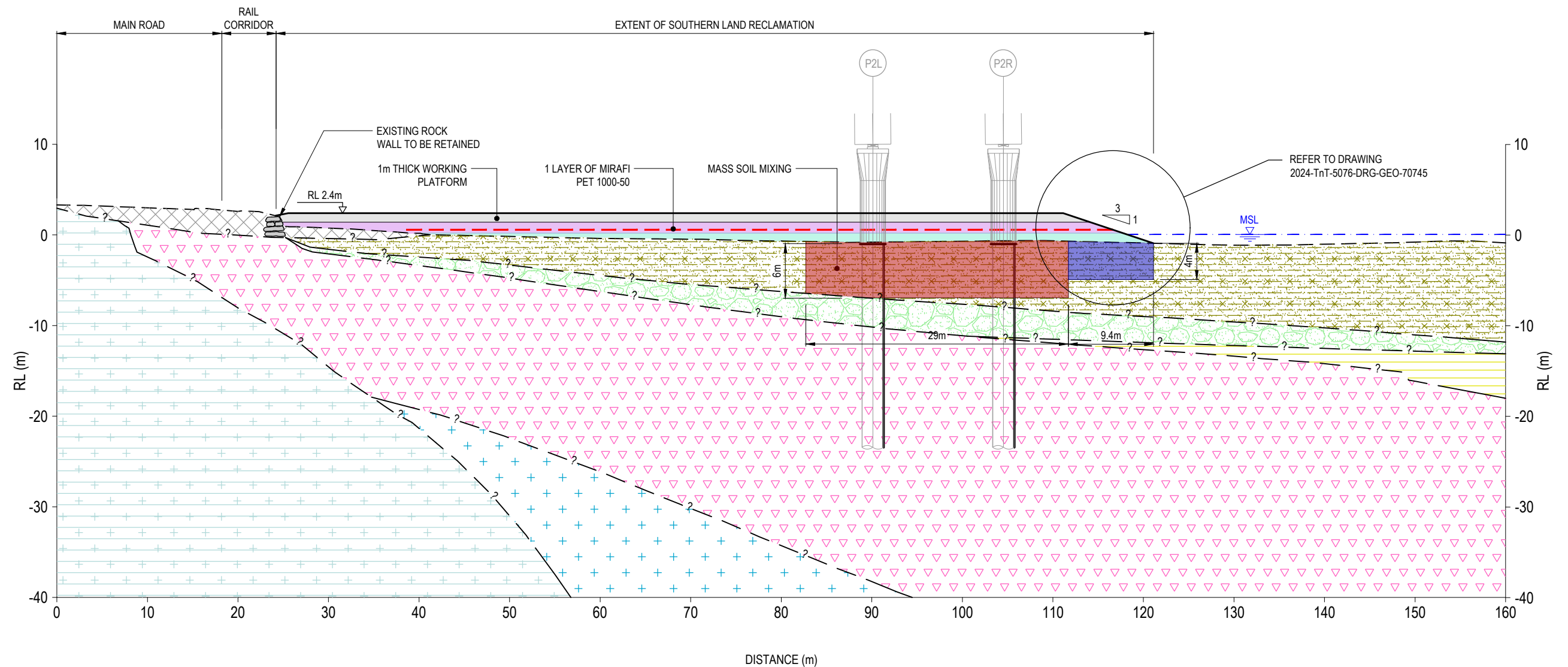
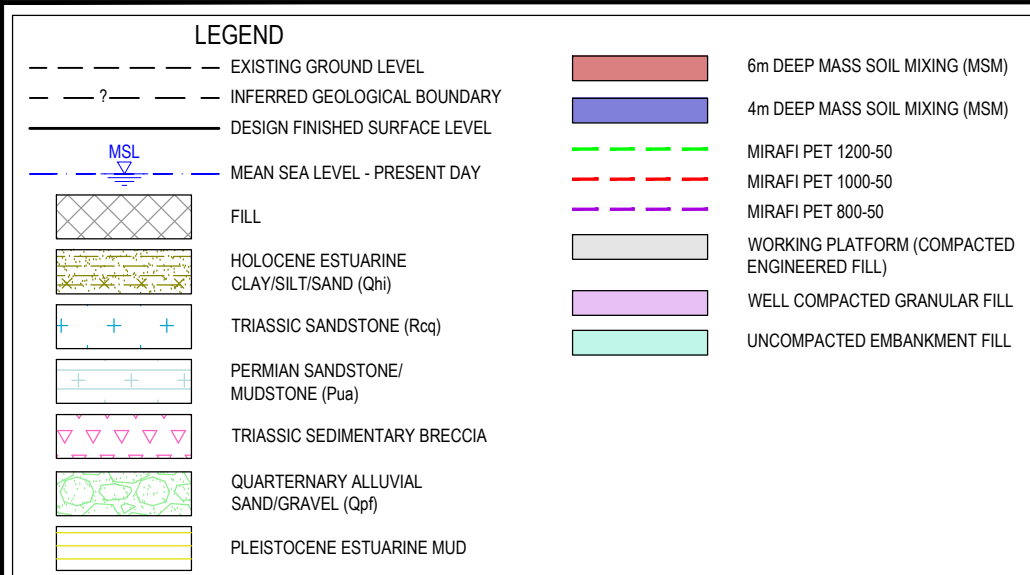
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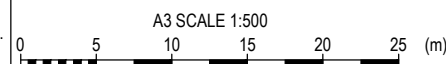






NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m AHD).
3. MSL DENOTES MEAN SEA LEVEL - PRESENT DAY.



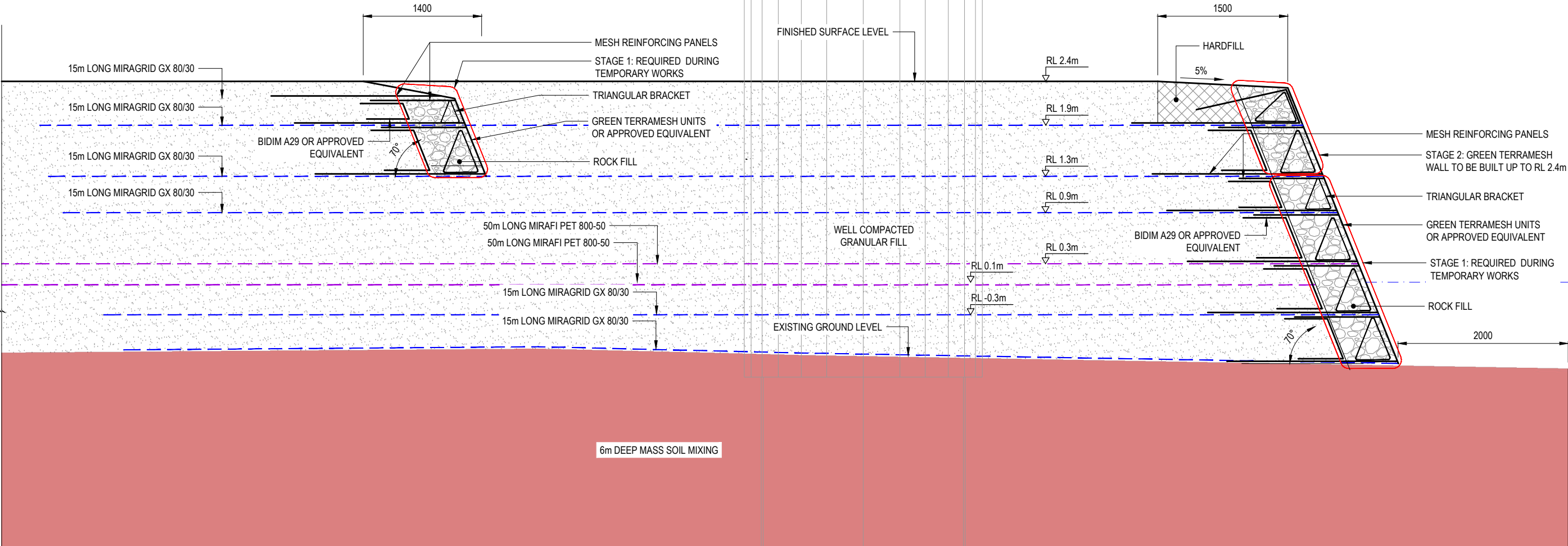
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A	ISSUED FOR SUBSTANTIAL DETAILED DESIGN			KMJA	04/08/2022	DESIGNED: RAR		REVIEWED: DYA		REGISTRATION NUMBER <b>A0087.062</b>					
No.	Amendment Description			Initials	Date										
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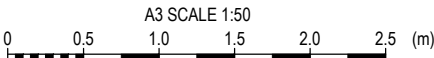
- NOTES:
- ROCK FILL FOR THE FACING SECTION OF THE GREEN TERRAMESH RETAINING WALL SYSTEM SHALL BE HARD, SUB-ROUNDED TO ROUND, DURABLE GRAVELS AND OF SUCH QUALITY THAT IT SHALL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING DURING THE LIFE OF THE STRUCTURE. THE ROCK FILL SHALL RANGE BETWEEN 80mm AND 150mm. VARIATION OF 5% OVERSIZE ROCK (BY NUMBER OF PARTICLES), IS ALLOWABLE.
  - THE FACING SECTION OF THE GREEN TERRAMESH UNIT SHALL BE FILLED WITH ROCK FILL. ROCK SHALL BE CAREFULLY PLACED SO AS TO ACHIEVE A TIGHT INTERLOCKED STRUCTURE. THE FRONT FACE SHALL BE "PACKED" WITH ROCK FILL PLACED SO AS TO PRODUCE A NEAT FACE FREE FROM EXCESSIVE BULGES, DEPRESSIONS AND PROTRUSIONS, AND VOIDS. DURING THE FILLING OPERATION SOME MANUAL STONE PLACEMENT WILL BE REQUIRED TO MINIMISE VOIDS. CARE SHALL BE TAKEN WHEN PLACING THE FILL MATERIAL TO ENSURE THAT THE TERRAMESH UNIT IS NOT DAMAGED. THE UNITS SHALL BE FILLED IN STAGES SO THAT LOCAL DEFORMATION MAY BE AVOIDED. ANY UNIT SHALL BE FILLED TO A DEPTH NOT GREATER THAN 0.3m HIGHER THAN THE ADJOINING UNIT. ROCK FILL SHALL BE OVERFILLED BY 25 TO 50mm TO ALLOW FOR SETTLEMENT OF ROCK.
  - GREEN TERRAMESH UNIT SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF THERE IS CONFLICT BETWEEN THE DRAWINGS, AND THE MANUFACTURER'S INSTALLATION GUIDELINES THIS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGNER. ONCE THE FIRST ROW OF UNITS ARE PLACED IN POSITION, THE UNITS SHALL BE CONNECTED TO THE UNDERLYING ROW AND GEOGRID REINFORCEMENT USING LACING WIRE OR STAINLESS STEEL FASTENERS.
  - ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m AHD).
  - MSL DENOTES MEAN SEA LEVEL - PRESENT DAY.


PARTICLE SIZE DISTRIBUTION FOR HARD FILL	
SIEVE SIZE (mm)	MINIMUM TO MAXIMUM % PASSING
400	
150	
75	
63	100
37.5	
19	40 TO 80
4.75	10 TO 30
2.36	
1.18	
0.6	0 TO 12
0.3	
0.15	
0.075	0 TO 12



DETAIL 1 GREEN TERRAMESH WALL  
SCALE 1: 50

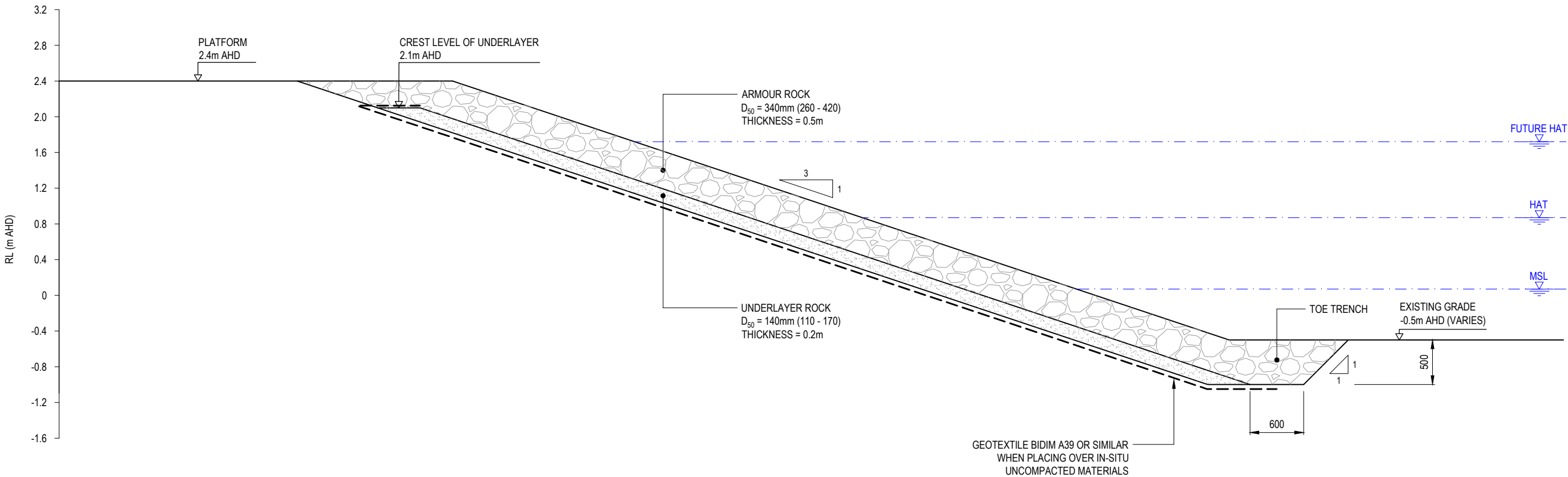
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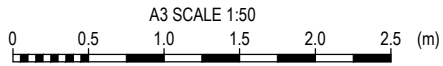
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A	ISSUED FOR SUBSTANTIAL DETAILED DESIGN			KMJA	04/08/2022	DESIGNED: RAR			REVIEWED: DYA										
No.	Amendment Description			Initials	Date														
A3 original	This sheet may be prepared using colour and may be incomplete if copied					Co-ordinate System: GDA2020 MGA55			Height Datum: AHD83			Exceptional thinking together www.tonkintaylor.com.au							






- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. ALL LEVELS SHOWN IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM (m AHD).
  3. MSL DENOTES MEAN SEA LEVEL - PRESENT DAY.
  4. HAT DENOTES HIGHEST ASTRONOMICAL TIDE - PRESENT DAY.
  5. FUTURE HAT DENOTES HIGHEST ASTRONOMICAL TIDE - BY 2090.



DETAIL 1 SOUTHERN RECLAMATION SCOUR PROTECTION  
SCALE 1: 50



NOT FOR CONSTRUCTION  
SUBSTANTIAL DETAILED DESIGN

				SCALES						Department of State Growth		CONTRACT No.	DRAWING NO.	PRINTED DATE	SHEET No.	
										MIDLAND HIGHWAY (A0087) BRIDGEWATER BRIDGE REPLACEMENT SOUTHERN LAND RECLAMATION - SCOUR PROTECTION SCOUR PROTECTION DETAIL		3210	2024-TnT-5076-DRG-GEO-70745	04/08/2022	70745	
A		ISSUED FOR SUBSTANTIAL DETAILED DESIGN		KMJA	25/07/2022	DESIGNED: RAR		REVIEWED: DYA				REGISTRATION NUMBER				REVISION A
No.		Amendment Description		Initials	Date							A0087.062				
A3 original		This sheet may be prepared using colour and may be incomplete if copied				Co-ordinate System: GDA2020 MGA55		Height Datum: AHD83								
																
								Exceptional thinking together www.tonkinataylor.com.au								



## APPENDIX B – NORTHERN LAND RECLAMATION DRAWINGS

### General Arrangement

- 2024-PNS-1099-DRG-TWD-23026

### Cross Section

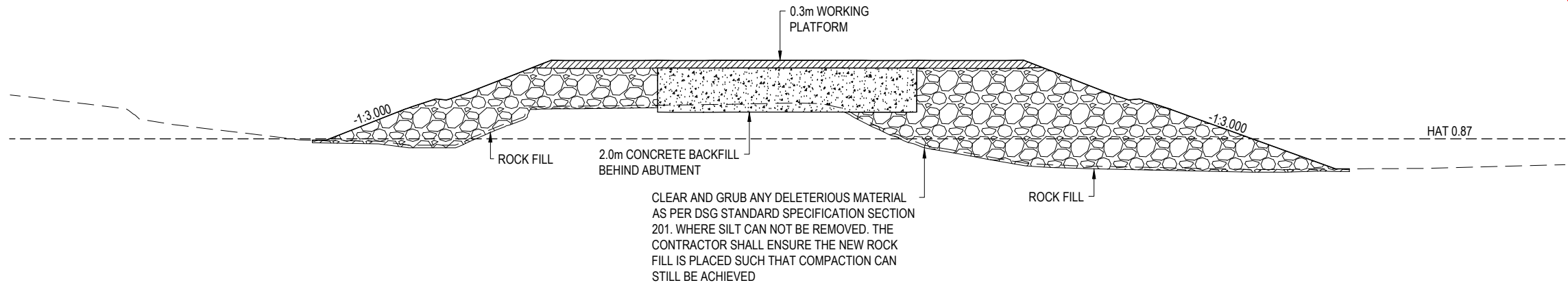
- 2024-PNS-1099-DRG-TWD-23037







**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATIONS OF UNDERGROUND/OVERHEAD SERVICES  
ARE APPROXIMATE ONLY AND THEIR EXACT POSITION  
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS  
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



**TEMPORARY ABUTMENT  
TYPICAL CROSS SECTION**  
SCALE 1:200 (m)

**NOT FOR CONSTRUCTION**

**PRELIMINARY**

24/08/2022 12:52:14 PM

24/08/2022

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No.	Amendment Description		Initials	Date									
A3 original		This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: GDA2020 MGA55			Height Datum: AHD83					