

BRETTS WHARF RIVERWALK REHABILITATION

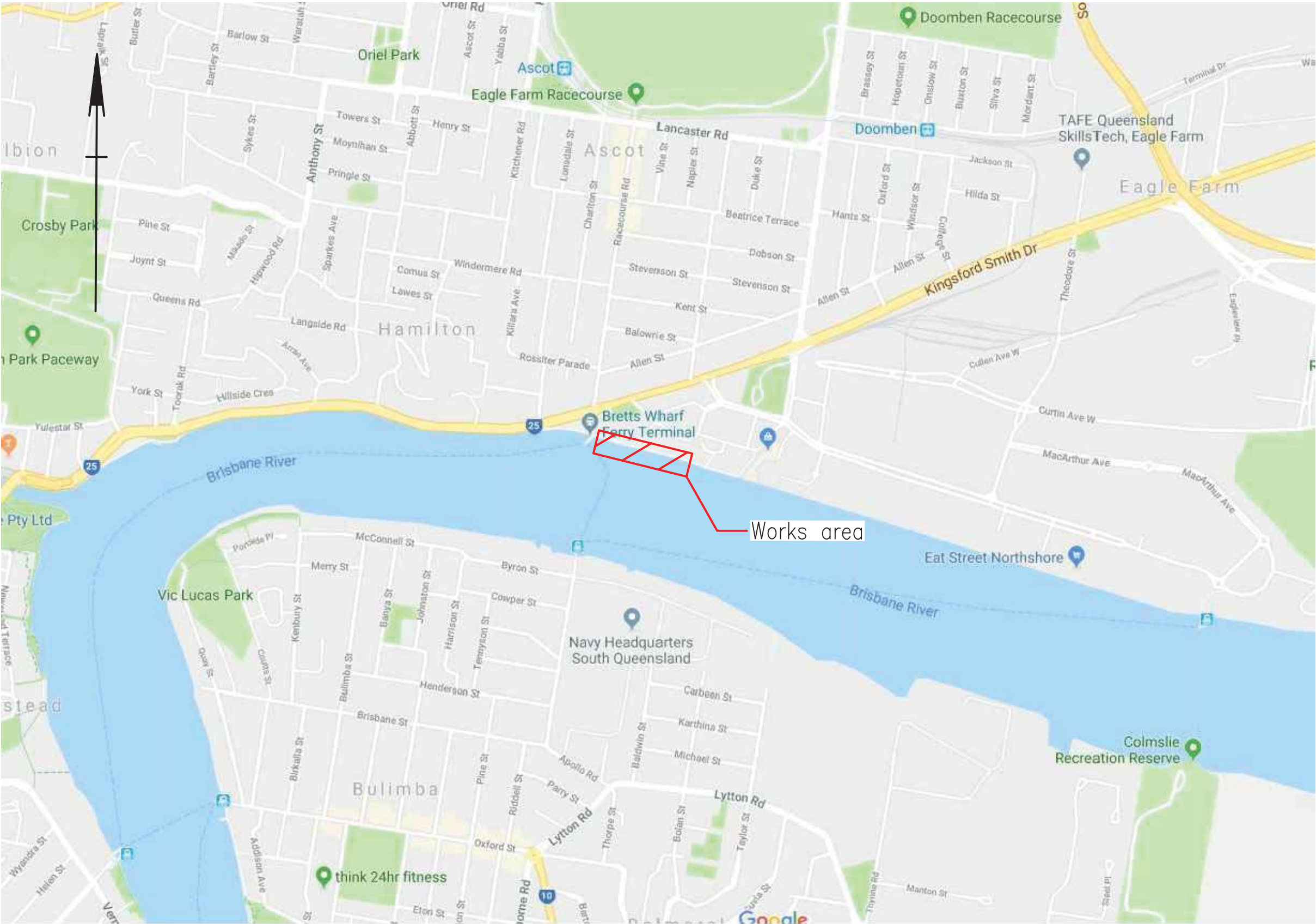
HAMILTON, QUEENSLAND

Drawing Index

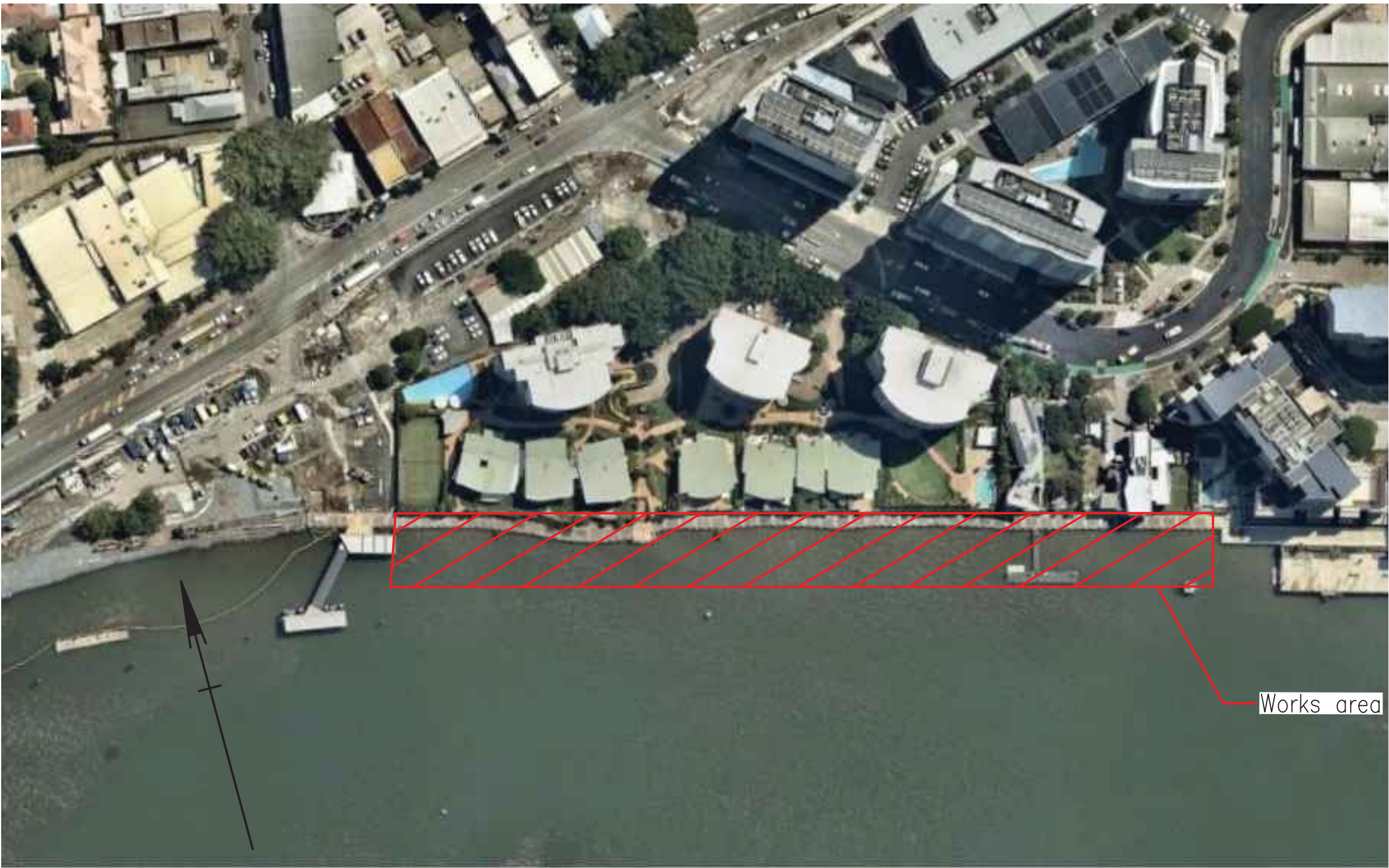
Drawing Number	Drawing Description
259540-DRG-001	Cover Sheet, Drawing Index and Locality Plan
259540-DRG-002	General Notes
259540-DRG-003	General Arrangement
259540-DRG-004	Stage 1 Works Plan
259540-DRG-005	Stages 2, 3 & 4 Works Plan
259540-DRG-006	Typical Repair Details

Design References Index

Document Reference	Description
259540-00-SPEC-001	Project Technical Specification
259540-30-SID-001	Safety in Design Report
	Marq Inspection Report (Stage 1,2,3,4)
259540-30-BOD-001	Basis of Design Report
S-9693-001-A Stage 1, 2 & 3	B9693 Stages 1-3 Jensen Bowers Survey
S-9693-002-A Stage 4	B9693 Stage 4 Jensen Bowers Survey



LOCALITY PLAN
NTS



SITE LOCATION PLAN
NTS

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2019/1009
Date: 29 April 2019



FOR APPROVAL

NOT TO SCALE

Approved by:
Name

Matt Reane

RPEQ No. 17380

Issue	Description	Date	By	Chkd	Appd
A	Issued For Approval	21/11/18	GHB	AT	MD

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Client



Job Title

BRETTS WHARF
RIVERWALK REHABILITATION

COVER SHEET,
DRAWING INDEX
AND LOCALITY PLAN

Scale at A1 NTS

Discipline Drainage

Job No

259540-00

Drawing No

259540-DR-001

Drawing Status

Approval

Issue

A

General Notes

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Design Criteria

14.
15.

	m CD	m AHD
HAT	2.89	1.65
MHWS	2.30	1.06
MHWN	1.89	0.65
MSL	1.34	0.1
AHD	1.24	0
MLWN	0.81	-0.43
MLWS	0.39	-0.85
LAT	0	-1.24

16.
17.
- a.
- b.

Case	Return Period ARI	Flood Level (m AHD)	Flood Velocity (m/s)
Extreme Case (ULS)	100 yrs	2.35	2.2
Operational Case (SLS)	20 yrs	1.8	1.4

Site Conditions, Removal and Reuse

17.
18.
- a.
- b.
- c.

Erosion and Sediment Control

19.
20.

Vegetation Removal and Protection

21.
22.

Revetment Wall

23.
24.
25.
26.
27.
28.
29.
30.
31.
32.

Rock Gradation Table										
	Weight (kg)					Nominal Diameter (m)				
	Wmin	W15	W50	W85	Wmax	Dmin	D15	D50	D85	Dmax
Revetment Rock	6	16	39	83	157	.16	.22	.29	.37	.46

33.
34.

Depth of Placing	On Individual Measurements	Design Profile to Actual Mean Profile
Dry i.e. Above MLWS	±0.25 D ₅₀	+0.30 D ₅₀ -0.20 D ₅₀

35.

Light Weight Cementitious Fill

36.

Stormwater Service Pipe Extensions (Stage 1 only)

37.
38.
39.

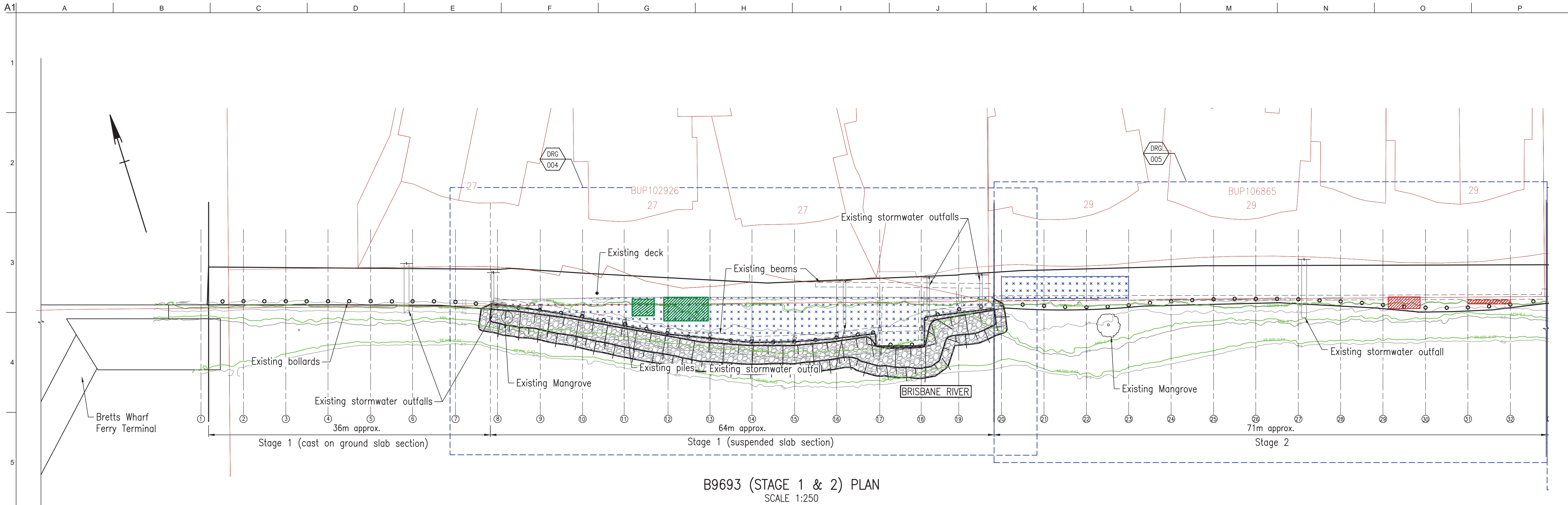
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1009

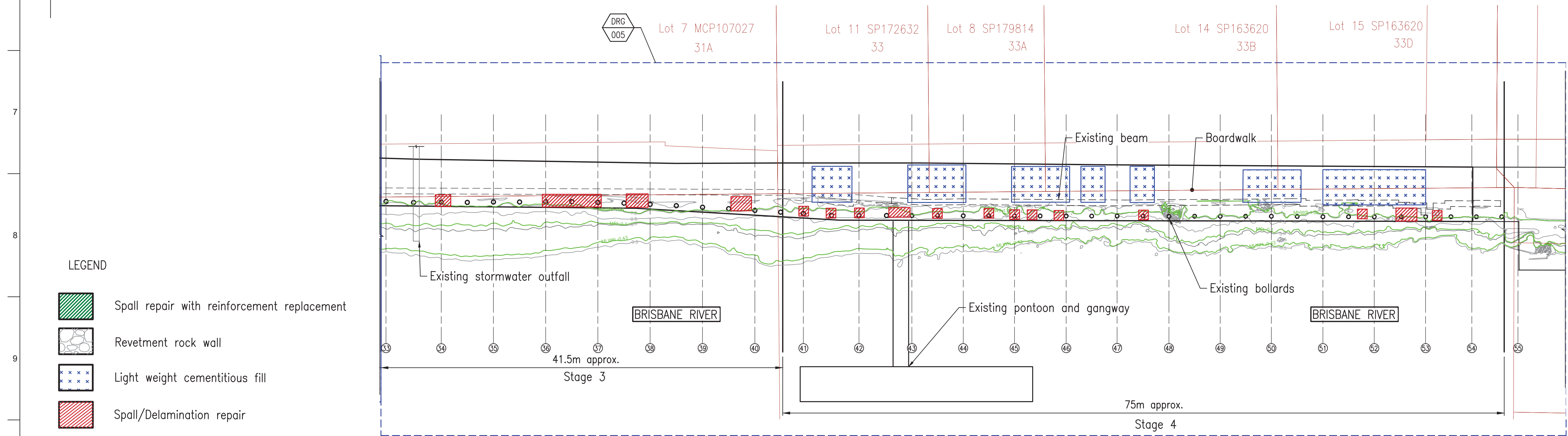
Date: 29 April 2019


Queensland
Government

FOR APPROVAL



B9693 (STAGE 1 & 2) PLAN
SCALE 1:250



B9693 (STAGE 3) & STAGE 4 PLAN
SCALE 1:250

- LEGEND
- Spall repair with reinforcement replacement
 - Revetment rock wall
 - Light weight cementitious fill
 - Spall/Delamination repair
 - RP Boundary

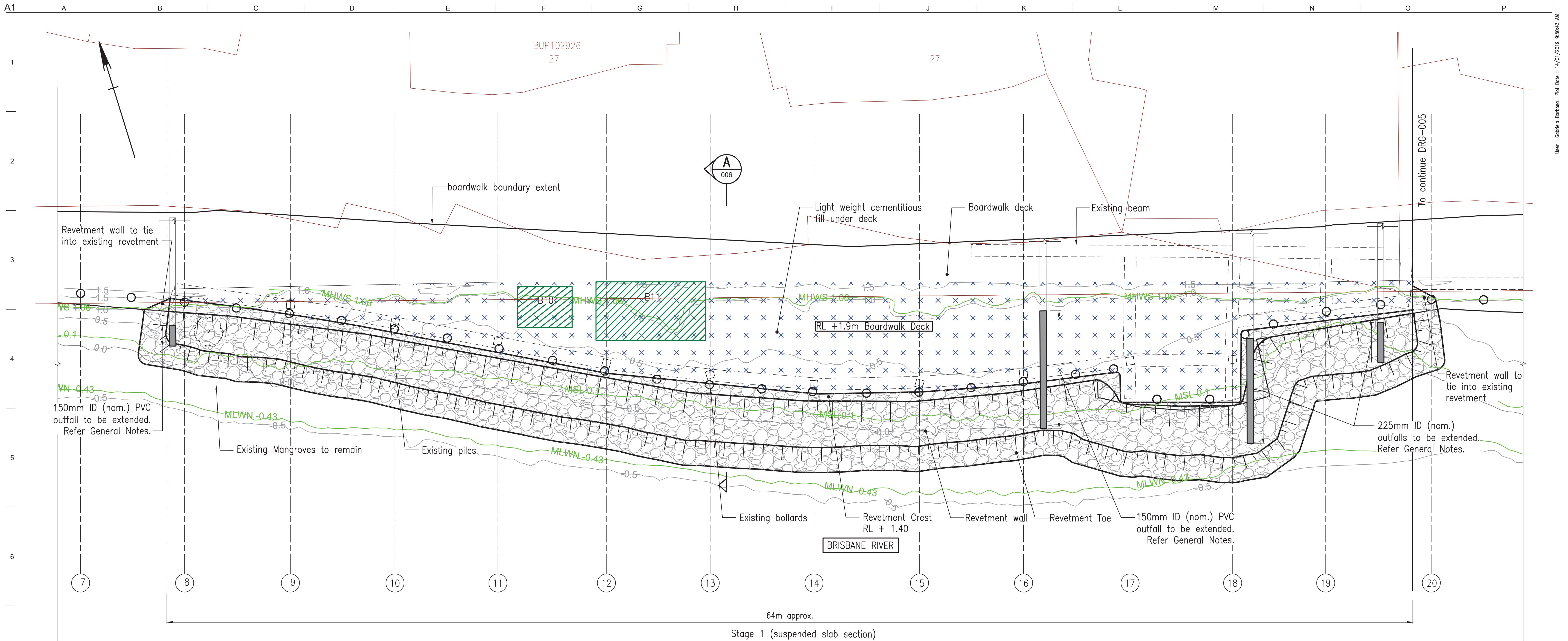
- Notes:
- Refer to drawing 259540-DRG-002 for General Notes.
 - Datum for drawing and design levels is mAHD. Tidal planes for design are as follows, and are based on values at New Farm:

	m CD	m AHD
HAT	2.89	1.65
MHWS	2.30	1.06
MHWN	1.89	0.65
MSL	1.34	0.1
AHD	1.24	0
MLWN	0.81	-0.43
MLWS	0.39	-0.85
LAT	0	-1.24

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
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Stage 1 (suspended slab section)

B9693 STAGE 1 PLAN

1:100

LEGEND

- Spall repair with reinforcement replacement
- Revetment rock wall
- Light weight cementitious fill
- Spall/Delamination repair
- G23 Marq Observation ID Number
- RP Boundary

Spall Repair With Reinforcement Replacement				
Grid Ref.	Marq Observation	Description of Defect	Measured Dimension (approx.)	Estimated Repair Quantity (m2)
Stage 1				
11-12	B10	Delaminated/Spall zone	3x3	9.0
12-13	B11	Delaminated/Spall zone	3x6	18.0
Total:				27.0

Light Weight Cementitious Fill Type 1				
Grid Ref.	Marq Observation	Description of Defect	Measured Dimension (approx.)	Estimated Repair Quantity (m3)
Stage 1				
8-20	B10	Scour zone	1	372.0
Total:				372.0

Notes:

1. Refer to drawing 259540-DRG-002 for General Notes.
2. The repair quantities shown on this drawing are estimates and shall be measured and agreed with Superintendent in writing before commencing work. The Contractor shall allow for preparing the quantity of repairs as shown on this drawing in their lump sum price. Repairs in excess of these quantities are to be performed on a schedule of rates basis as agreed with the Superintendent.
3. Datum for drawing and design levels is mAHD. Tidal planes for design are as follows, and are based on values at New Farm:

	m CD	m AHD
HAT	2.89	1.65
MHWS	2.30	1.06
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MSL	1.34	0.1
AHD	1.24	0
MLWN	0.81	-0.43
MLWS	0.39	-0.85
LAT	0	-1.24

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2019/1009
Date: 29 April 2019



FOR APPROVAL

A1 / A3
1:100 / 1:200

Approved by:
Name
RPEQ No. 17380

Issue	Description	Date	By	Chkd	Appd
C	Issued For Approval	09/01/19	GHB	AT	MD
B	Issued For Approval	06/12/18	GHB	AT	MD
A	Issued For Approval	21/11/18	GHB	AT	MD

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Client



Job Title

BRETT'S WHARF
RIVERWALK REHABILITATION

STAGE 1 WORKS PLAN

Scale at A1
1:100

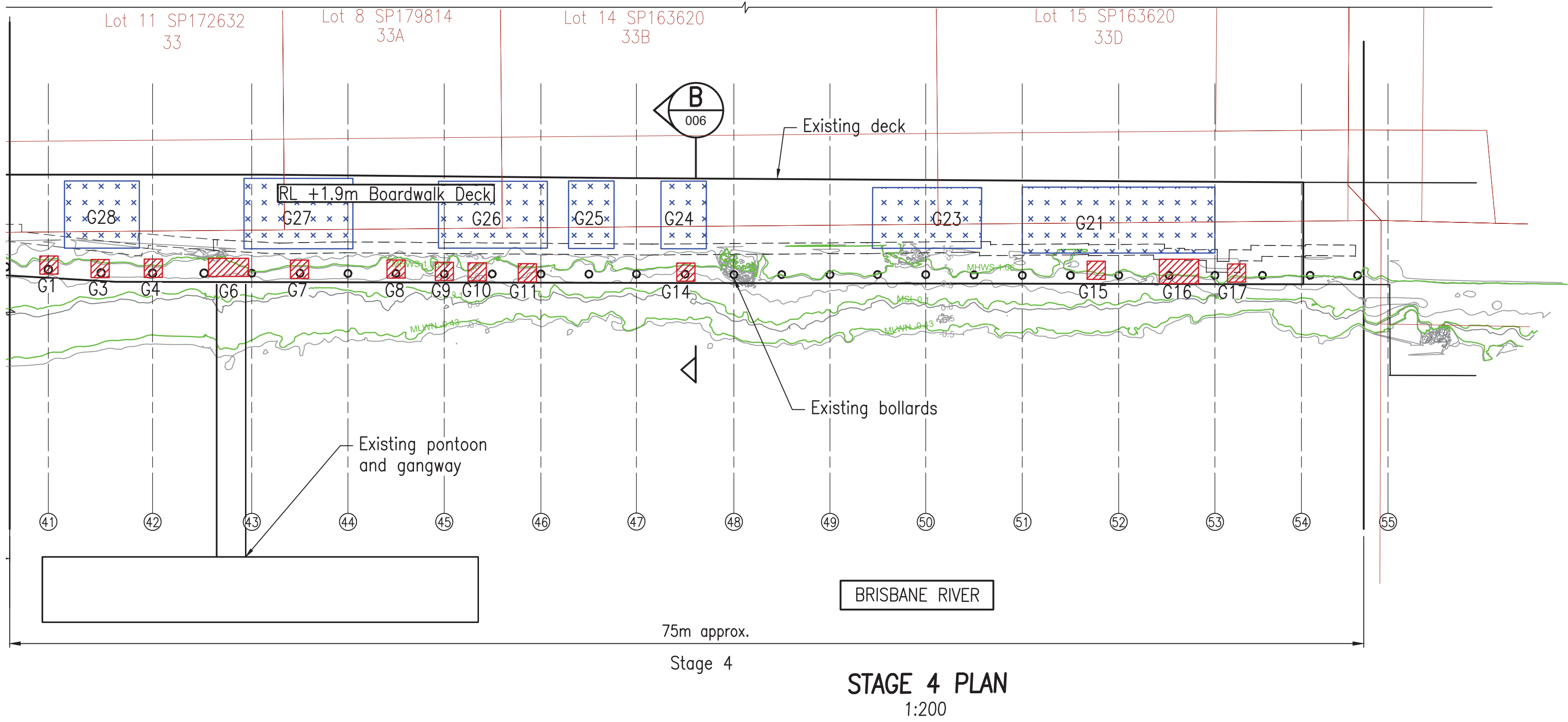
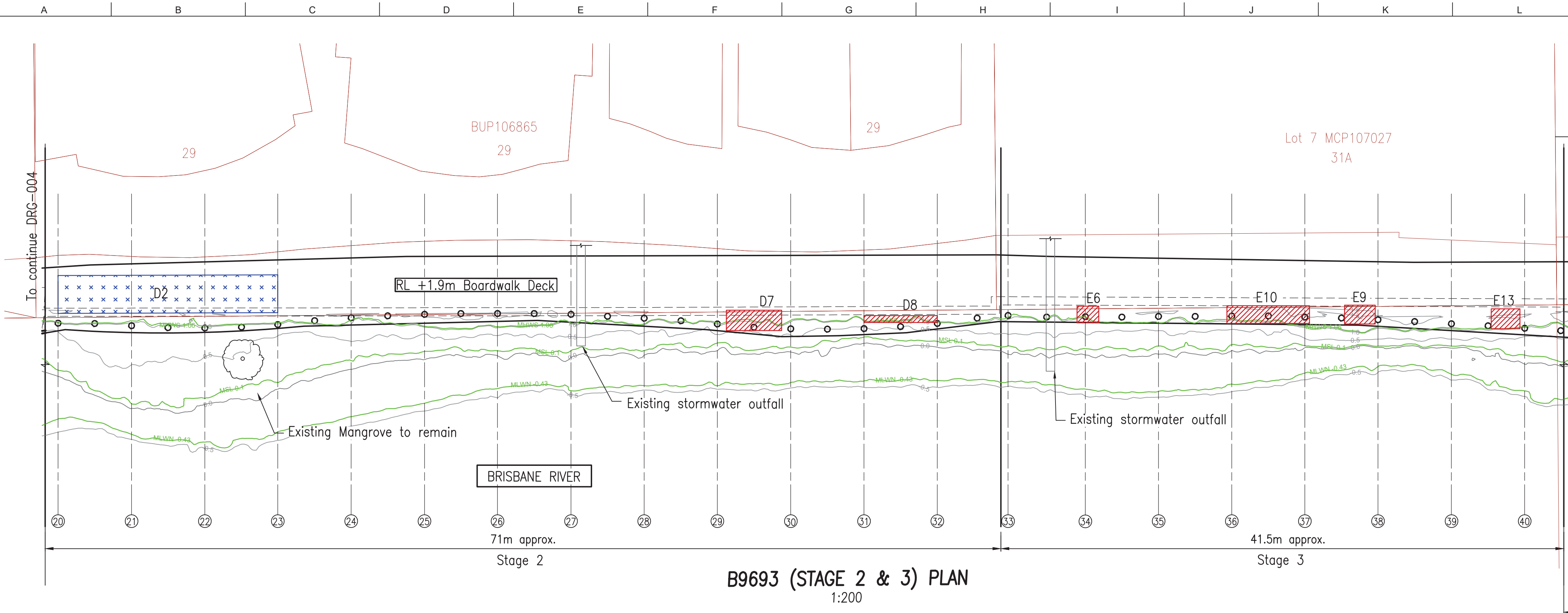
Discipline
Civil Structures

Job No
259540-00
Drawing Status
Approval

Drawing No
259540-CS-004

Issue
C

A1
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AHD	1.24	0
MLWN	0.81	-0.43
MLWS	0.39	-0.85
LAT	0	-1.24

Spall Repair				
Grid Ref.	Marq Observation	Description of Defect	Measured Dimension (approx.)	Estimated Repair Quantity (m2)
Stage 2				
29-30	D7	Delaminated/Spall zone	1x1.5	1.5
31-32	D8	Delaminated/Spall, drummy zone	6x0.5	3.0
Stage 3				
34	E6	Delaminated/Spall zone	0.4x0.4	0.2
36-37	E10	Delaminated zone	1.5x6	9.0
37-38	E9	Delaminated/Spall zone	1x1	1.0
39-40	E13	Delaminated zone	1x1	1.0
Stage 4				
41	G1	Delaminated zone	1x1	1.0
41-42	G3	Delaminated zone	0.3x0.3	0.1
42	G4	Delaminated/Crack	0.1x0.3	0.0
42-43	G6	Delaminated zone	0.3x0.3	0.1
43-44	G7	Delaminated/Spall Zone	0.3x0.2	0.1
44-45	G8	Delaminated/Spall Zone	0.3x0.3	0.1
45	G9	Delaminated/Spall zone	0.3x0.3	0.1
45-46	G10	Delaminated/Spall zone	0.3x0.3	0.1
45-46	G11	Spall zone	0.1x0.1	0.0
47-48	G14	Delaminated zone	0.2x0.2	0.0
51-52	G15	Delaminated zone	0.5x0.5	0.3
52-53	G16	Delaminated zone	1.5x1	1.5
53-54	G17	Delaminated zone	0.3x0.3	0.1
Total:				19.1

Light Weight Cementitious Fill Type 2				
Grid Ref.	Marq Observation	Description of Defect	Measured Dimension (approx.)	Estimated Repair Quantity (m3)
Stage 2				
20-23	D2	Scour zone	10x2x0.3	6.0
Stage 4				
41-42	G28	Scour zone	2x2x0.3	1.2
43-44	G27	Scour zone	7x3x0.3	6.3
45-46	G26	Scour zone	7x2x0.4	5.6
46-47	G25	Scour zone	1x2x0.3	0.6
47-48	G24	Scour zone	2x1x0.3	0.6
49-51	G23	Scour zone	6x2x0.3	3.6
51-53	G21	Scour zone	10x2.5x0.3	7.5
Total:				31.4

LEGEND

- Spall repair with reinforcement replacement
- Revetment rock wall
- Light weight cementitious fill
- Spall/Delamination repair
- G23 Marq Observation ID Number
- RP Boundary

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2019/1009
Date: 29 April 2019



FOR APPROVAL

A1 / A3
1:200 / 1:400
0 2 4 6 8m

Approved by:
Name
Matt Reane
RPEQ No. 17380

Issue	Description	Date	By	Chkd	Appd
C	Issued For Approval	09/01/19	GHB	AT	MD
B	Issued For Approval	06/12/18	GHB	AT	MD
A	Issued For Approval	21/11/18	GHB	AT	MD

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Client
BRETT'S WHARF
RIVERWALK REHABILITATION

STAGES 2, 3 & 4 WORK PLAN

Scale at A1 1:200
Discipline Civil Structures
Job No 259540-00 Drawing Status Approval
Drawing No 259540-CS-005 Issue C

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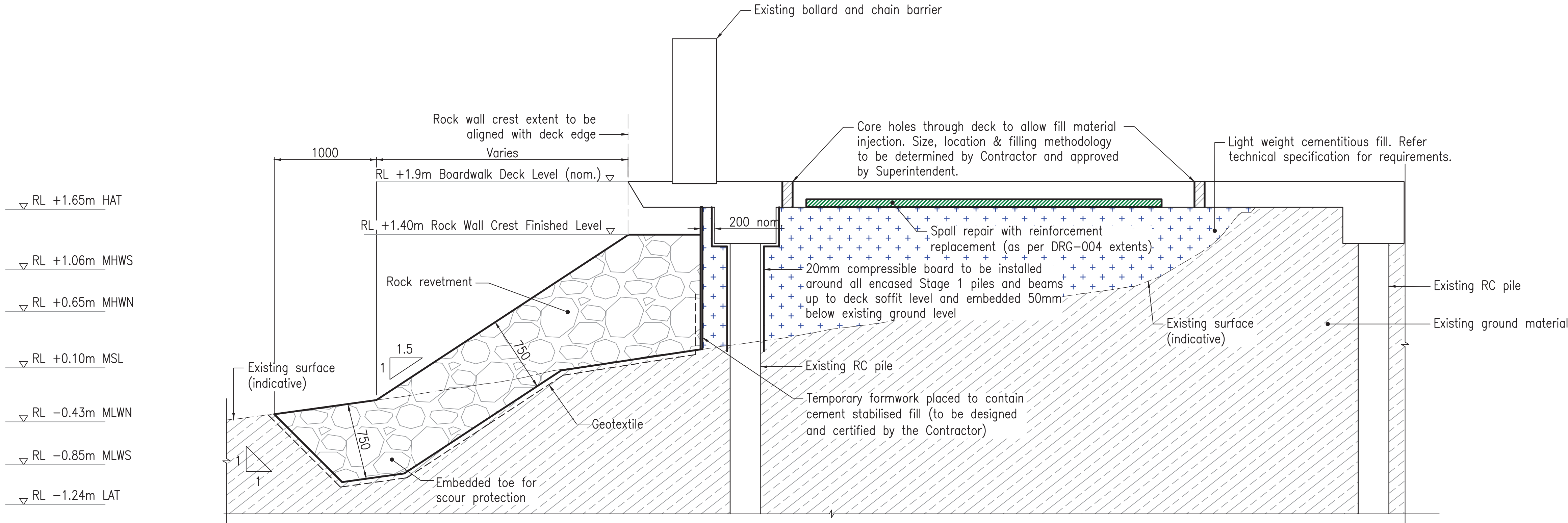
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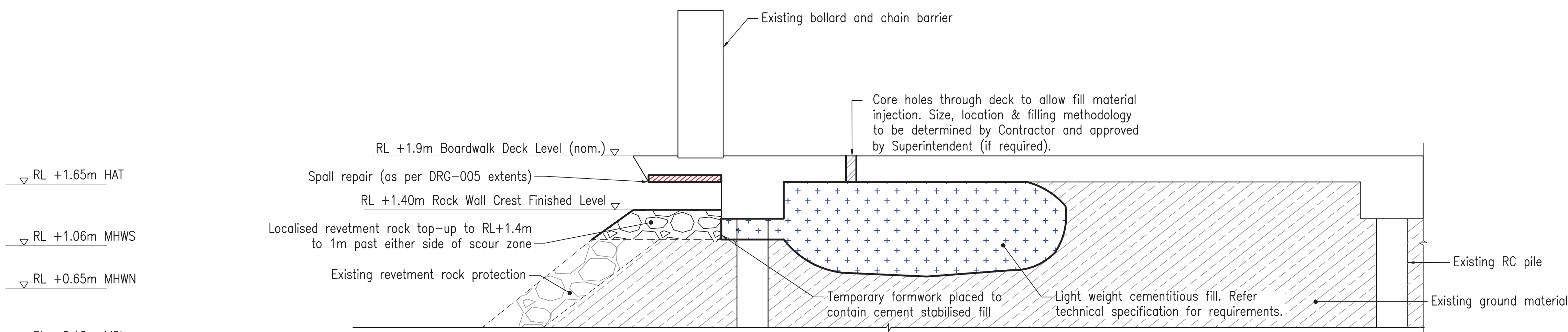
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10



TYPICAL DETAIL – STAGE 1 A
1:25 *Refer Note 2 004

- LEGEND
- Spall repair with reinforcement replacement – Stage 1
 - Revetment rock – Stage 1
 - Light weight cementitious fill zone – Stages 1, 2, 3 & 4
 - Spall/Delamination repair – Stages 2, 3 & 4



TYPICAL DETAIL – STAGE 2, 3 & 4 B
1:25 004

- Notes:
- Refer to drawing 259540-DRG-002 for General Notes.
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MLWS	0.39	-0.85
LAT	0	-1.24

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2019/1009

Date: 29 April 2019

FOR APPROVAL

A1 / A3 0 500 1000mm
1:25 / 1:50

Approved by:
Name
Matt Reane
RPEQ No. 17380

Issue	Description	Date	By	Chkd	Appd
B	Issued For Approval	06/12/18	GHB	AT	MD
A	Issued For Approval	21/11/18	GHB	AT	MD

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Client



Job Title

BRETTS WHARF
RIVERWALK REHABILITATION

TYPICAL REPAIR DETAILS

Scale at A1 1:25	
Discipline Civil Structures	
Job No 259540-00	Drawing Status Approval
Drawing No 259540-CS-006	Issue B