

# ELFIN HILL ROAD RESERVE FORESHORE STABILISATION SITE - ELFIN HILL ROAD, GOSFORD



**LOCALITY PLAN**  
1:10,000 (A1)

## DRAWING SCHEDULE

DRG No.	TITLE
PA1635/MA/0001	TITLE SHEET, LOCALITY PLAN AND DRAWING LIST
PA1635/MA/1001	SITE PLAN
PA1635/MA/1011	GENERAL ARRANGEMENT PLAN - SHEET 1 OF 3
PA1635/MA/1012	GENERAL ARRANGEMENT PLAN - SHEET 2 OF 3
PA1635/MA/1013	GENERAL ARRANGEMENT PLAN - SHEET 3 OF 3
PA1635/MA/2001	ROCK TREATMENT - TYPICAL SECTIONS - SHEET 1 OF 2
PA1635/MA/2002	ROCK TREATMENT - TYPICAL SECTIONS - SHEET 2 OF 2
PA1635/MA/2011	SALTMARSH TREATMENT - TYPICAL SECTIONS
PA1635/MA/2021	STORMWATER EXTENSION - SECTIONS AND DETAILS
PA1635/MA/2101	DINGHY SKID - TYPICAL SECTIONS
PA1635/MA/2102	DINGHY SKID - DETAILS

REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



**SURVEY:**  
 TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
 BATHYMETRIC: -  
 HORIZ. DATUM: MGA VERT. DATUM: AHD

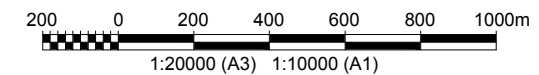
**PROJECT:**  
 ELFIN HILL ROAD RESERVE  
 FORESHORE STABILISATION

**DRAWING TITLE:**  
 TITLE SHEET, LOCALITY PLAN  
 AND DRAWING LIST

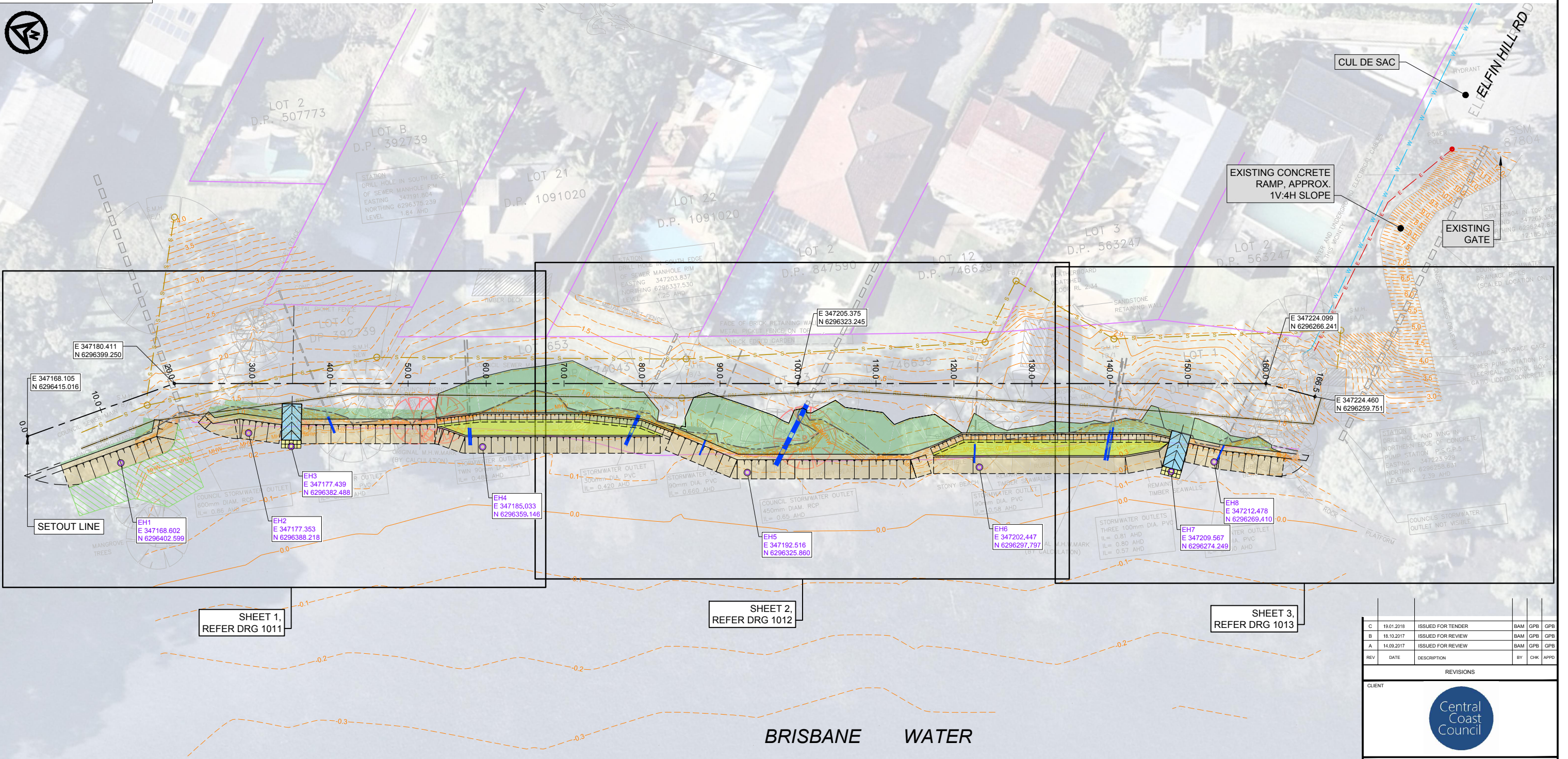
HASKONING AUSTRALIA PTY LTD  
 SYDNEY  
  
 Level 14  
 50 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 9820 9660 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-CIVIL MODEL		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/0001	REVISION C	

**FOR TENDER**







SHEET 1, REFER DRG 1011

SHEET 2, REFER DRG 1012

SHEET 3, REFER DRG 1013

**NOTES**

- ALL DIMENSIONS SHOWN IN METRES. LEVELS SHOWN IN METRES ABOVE AHD.
- SEWER RISING MAIN IS WITHIN THE VICINITY. DEPTH UNKNOWN BETWEEN CH 0 TO CH 100.
- ALL MINOR STUMPS WITHIN 0.5m OF PROPOSED ROCK WORK TO BE REMOVED (MINOR STUMPS <math>\varnothing</math> 0.5m)
- CLEAR BED OF DEBRIS TO 3m BEYOND LIMIT OF ROCK PLACEMENT.
  - BRICK DEBRIS TO BE RECYCLED UNDER ROCK ARMOUR.
  - CONCRETE SLABS TO BE BROKEN TO 600x600 OR SMALLER AND BURIED UNDER
- SALTMARSH BERMS, LOGS CAN REMAIN UNLESS IN WAYS OF SHORELINE TREATMENTS.
- CONCRETE RAMP IS TOO STEEP FOR ACCESS BY 10T TRUCK. COULD USE A SMALL FRONT END LOADER TO CARRY ROCK DOWN TO RESERVE. NO STORAGE OR STOCKPILING PERMITTED IN CUL DE SAC.
- PROPOSED REINSTATED PE OUTLET DESIGNED TO AS 4130:2009. ALL MINIMUM PRESSURE RATING SDR 41 (REFER VINIDEX PRODUCT SHEETS). REFER DRG 2020 FOR STORMWATER EXTENSION DETAILS.

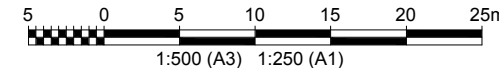
**LEGEND**

- |                   |  |
|-------------------|--|
| <b>EXISTING:</b>  | <b>PROPOSED:</b>                               |
| CADASTRE          | ARMOUR ROCK                                    |
| ELECTRICAL        | SALTMARSH                                      |
| SEWER             | MANGROVES (ESTABLISHED NATURALLY)              |
| SEWER RISING MAIN | ENGINEERED FILL (GRADE FLAT OR SLOPED SEAWARD) |
| WATER             | DINGY SKID                                     |
| STORMWATER        | SANDSTONE BLOCK                                |
| TREE              | STORMWATER EXTENSION                           |
| TOP OF BANK       | TREE TO BE REMOVED                             |

STORMWATER EXTENSION SCHEDULE				
EXISTING SW OUTLET		REINSTATED PE OUTLET (REFER NOTE 6)		
No.	SHOWN ON SURVEY (mm)	ID (mm)	WALL THICKNESS (mm)	DN
5	90 PVC	133	3.5	140
3	100 PVC	133	3.5	140
1	150 PVC	215	5.5	225
1	300 PVC	380	9.8	400
1	450 RCP	534	13.7	560

**AUSTRALIAN HEIGHT DATUM**

**FOR TENDER**



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

**REVISIONS**

CLIENT

SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
 BATHYMETRIC: -  
 HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: **ELFIN HILL ROAD RESERVE FORESHORE STABILISATION**

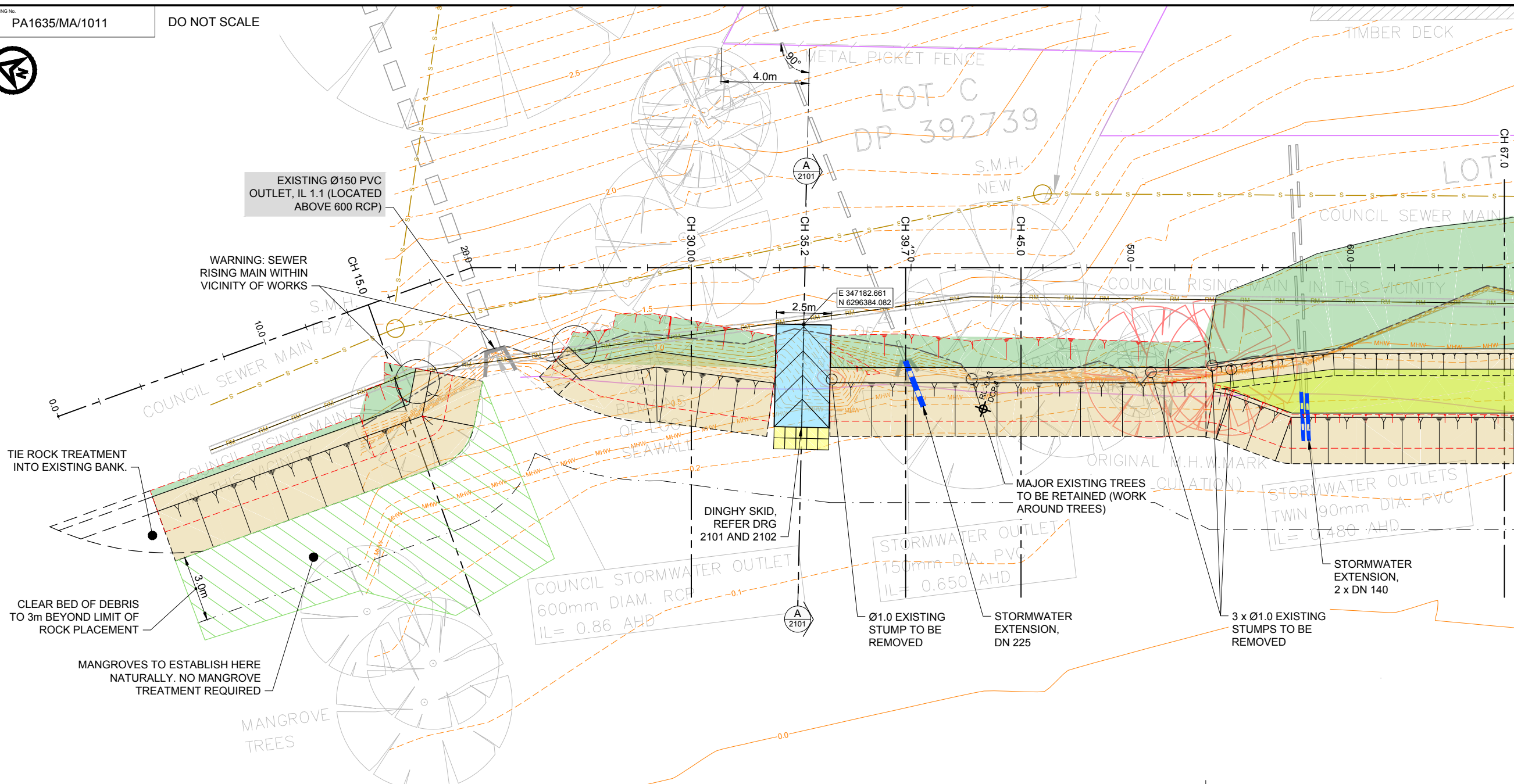
DRAWING TITLE: **SITE PLAN**

HASKONING AUSTRALIA PTY LTD SYDNEY

Level 14  
 56 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 9820 9650 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-CIVIL MODEL		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/1001	REVISION C	





JOINS SHEET 2 OF 3

ROCK TREATMENT (TYPE 2)  
APPROX. 13.0m

ROCK TREATMENT (TYPE 1)  
APPROX. 9.5m

ROCK TREATMENT (TYPE 1)  
APPROX. 17.1m

SALTMARSH TREATMENT  
APPROX. 13.6m

**NOTES**

1. ALL DIMENSIONS SHOWN IN METRES. LEVELS SHOWN IN METRES ABOVE AHD.
2. SEWER RISING MAIN IS WITHIN THE VICINITY. DEPTH UNKNOWN BETWEEN CH 0 TO CH 100.
3. ALL MINOR STUMPS WITHIN 0.5m OF PROPOSED ROCK WORK TO BE REMOVED (MINOR STUMPS < 0.5m)
4. CLEAR BED OF DEBRIS TO 3m BEYOND LIMIT OF ROCK PLACEMENT.
  - a. BRICK DEBRIS TO BE RECYCLED UNDER ROCK ARMOUR.
  - b. CONCRETE SLABS TO BE BROKEN TO 600x600 OR SMALLER AND BURIED UNDER

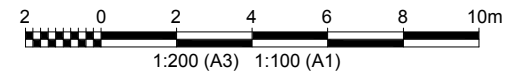
- c. SALTMARSH BERMS, LOGS CAN REMAIN UNLESS IN WAYS OF SHORELINE TREATMENTS.
5. REFER DRG 1001 FOR STORMWATER EXTENSION SCHEDULE. TO BE REVIEWED ON SITE.

**LEGEND**

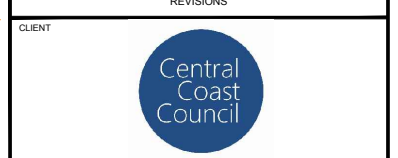
- |                              |  |
|------------------------------|--|
| <b>EXISTING:</b>             | <b>PROPOSED:</b>                               |
| CADASTRE                     | ARMOUR ROCK                                    |
| ELECTRICAL                   | SALTMARSH                                      |
| SEWER                        | MANGROVES (ESTABLISHED NATURALLY)              |
| SEWER RISING MAIN            | ENGINEERED FILL (GRADE FLAT OR SLOPED SEAWARD) |
| WATER                        | DINGHY SKID                                    |
| STORMWATER                   | SANDSTONE BLOCK                                |
| TREE                         | STORMWATER EXTENSION                           |
| TOP OF BANK                  | TREE TO BE REMOVED                             |
| DCP TEST (RHDHV, 20/10/2014) | EXCAVATION LIMITS                              |

**AUSTRALIAN HEIGHT DATUM**

**FOR TENDER**



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB



SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: **ELFIN HILL ROAD RESERVE FORESHORE STABILISATION**

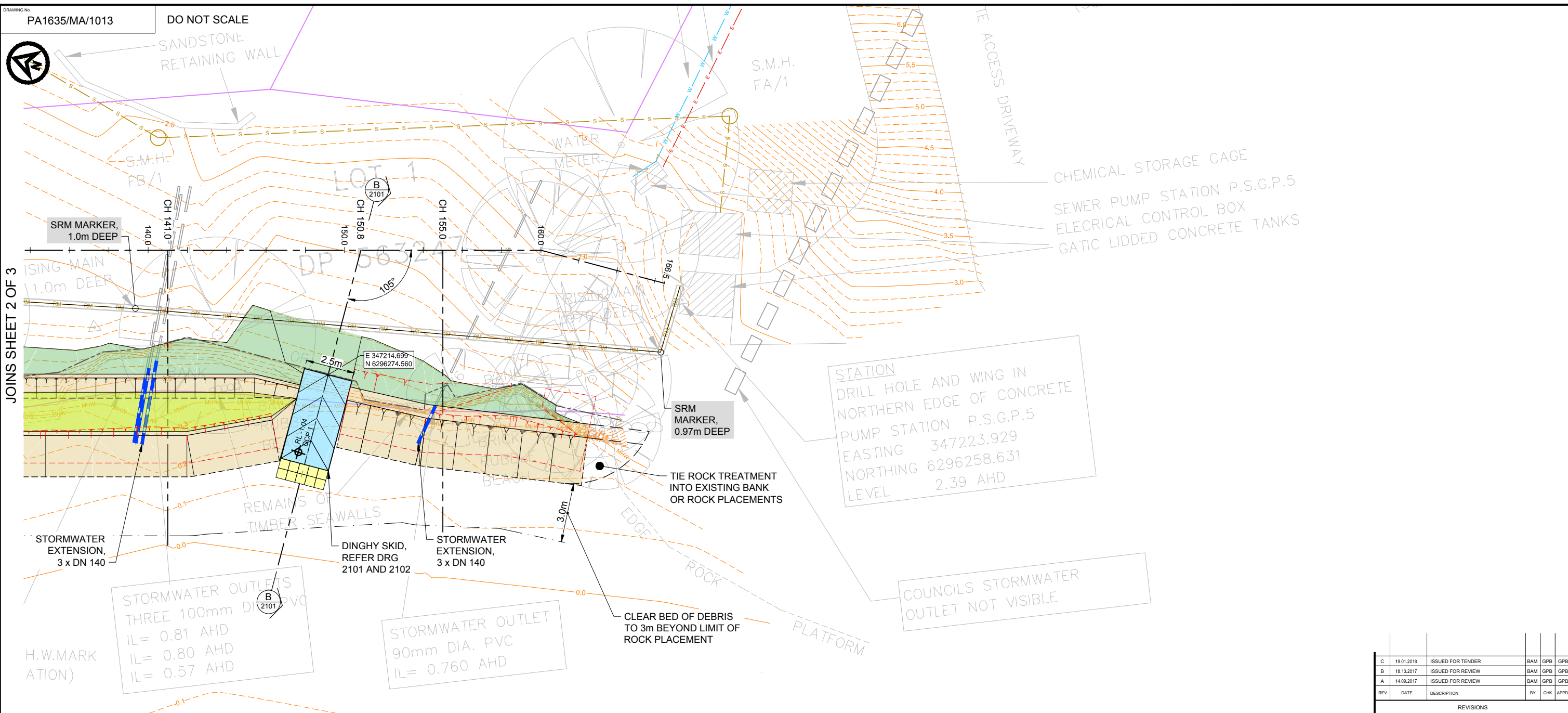
DRAWING TITLE: **GENERAL ARRANGEMENT PLAN SHEET 1 OF 3**

HASKONING AUSTRALIA PTY LTD SYDNEY  
  
 Level 14  
 50 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 9620 9650 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-CIVIL MODEL		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/1011	REVISION	C







JOINS SHEET 2 OF 3

- NOTES**
- ALL DIMENSIONS SHOWN IN METRES. LEVELS SHOWN IN METRES ABOVE AHD.
  - SEWER RISING MAIN IS WITHIN THE VICINITY. DEPTH UNKNOWN BETWEEN CH 0 TO CH 100.
  - ALL MINOR STUMPS WITHIN 0.5m OF PROPOSED ROCK WORK TO BE REMOVED (MINOR STUMPS <math>\varnothing</math> 0.5m)
  - CLEAR BED OF DEBRIS TO 3m BEYOND LIMIT OF ROCK PLACEMENT.
    - BRICK DEBRIS TO BE RECYCLED UNDER ROCK ARMOUR.
    - CONCRETE SLABS TO BE BROKEN TO 600x600 OR SMALLER AND BURIED UNDER

- c. SALTmarsh BERMS, LOGS CAN REMAIN UNLESS IN WAYS OF SHORELINE TREATMENTS.
5. REFER DRG 1001 FOR STORMWATER EXTENSION SCHEDULE. TO BE REVIEWED ON SITE.

**LEGEND**

**EXISTING:**

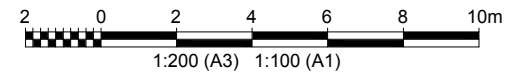
- CADASTRE
- ELECTRICAL
- SEWER
- SEWER RISING MAIN
- WATER
- STORMWATER
- TREE
- TOP OF BANK
- DCP TEST (RHDHV, 20/10/2014)

**PROPOSED:**

- ARMOUR ROCK
- SALTmarsh
- MANGROVES (ESTABLISHED NATURALLY)
- ENGINEERED FILL (GRADE FLAT OR SLOPED SEAWARD)
- DINGHY SKID
- SANDSTONE BLOCK
- STORMWATER EXTENSION
- TREE TO BE REMOVED
- EXCAVATION LIMITS

**AUSTRALIAN HEIGHT DATUM**

**FOR TENDER**



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
 BATHYMETRIC: -  
 HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: ELFIN HILL ROAD RESERVE FORESHORE STABILISATION

DRAWING TITLE: GENERAL ARRANGEMENT PLAN SHEET 3 OF 3

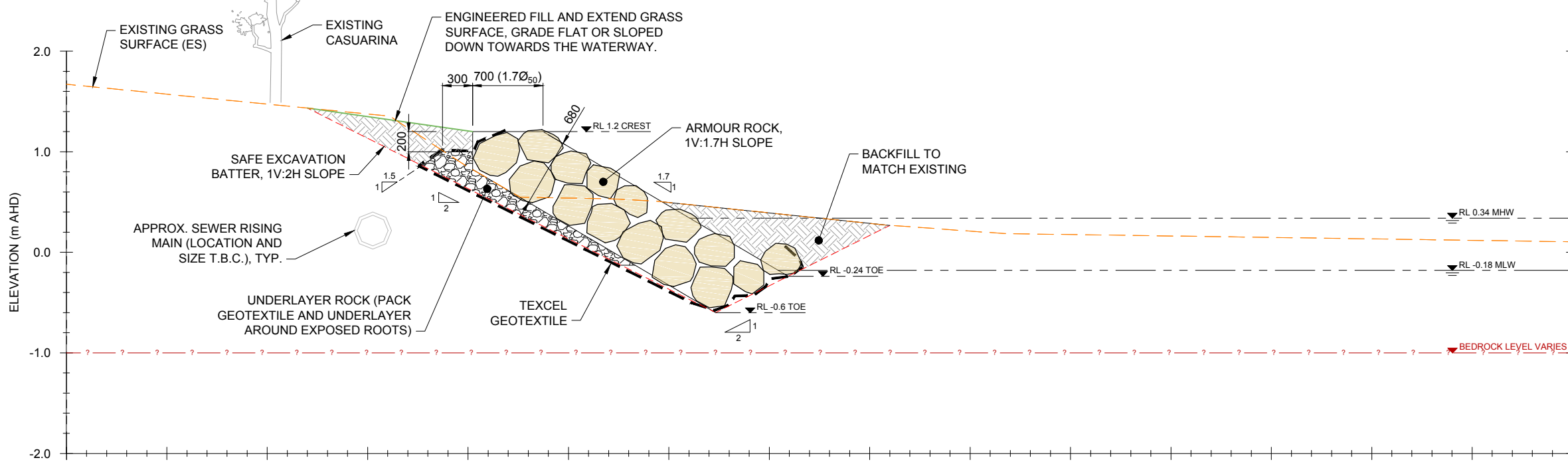
HASKONING AUSTRALIA PTY LTD SYDNEY

Royal HaskoningDHV  
 Building Society Together

Level 14  
 50 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 98209660 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635	REVISION
AUTOCAD REF. PA1635-MA-CIVIL MODEL			
SCALE AT A1 AS SHOWN			
DRAWING No. PA1635/MA/1013			C

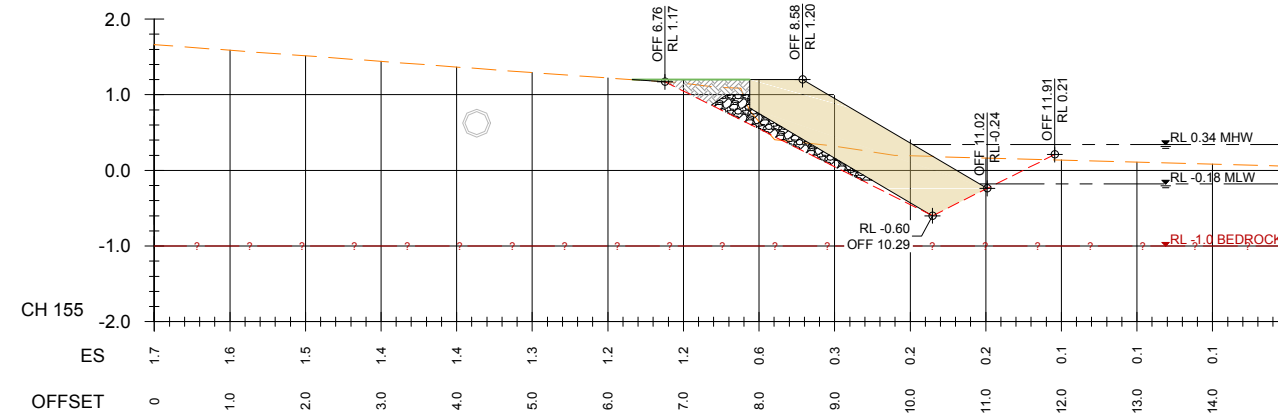
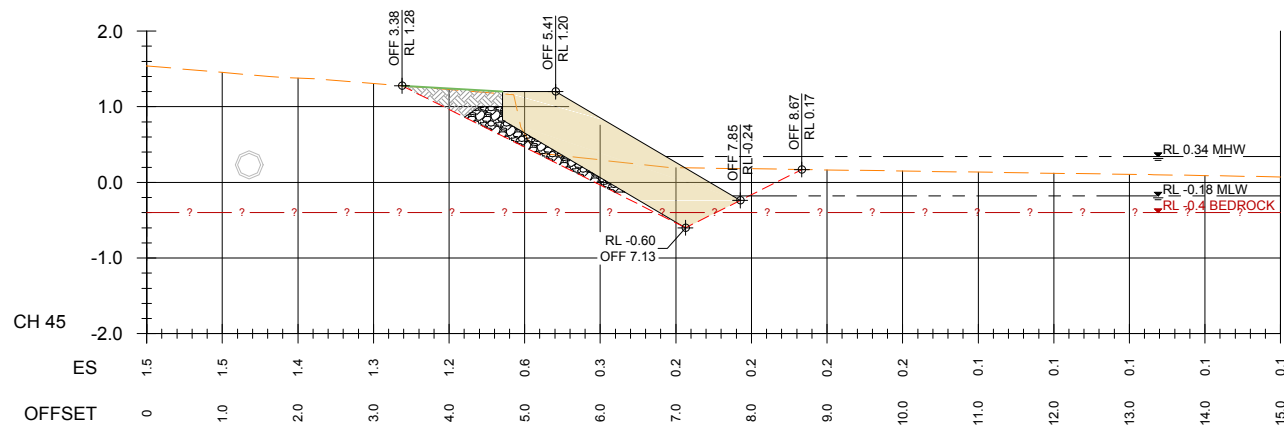
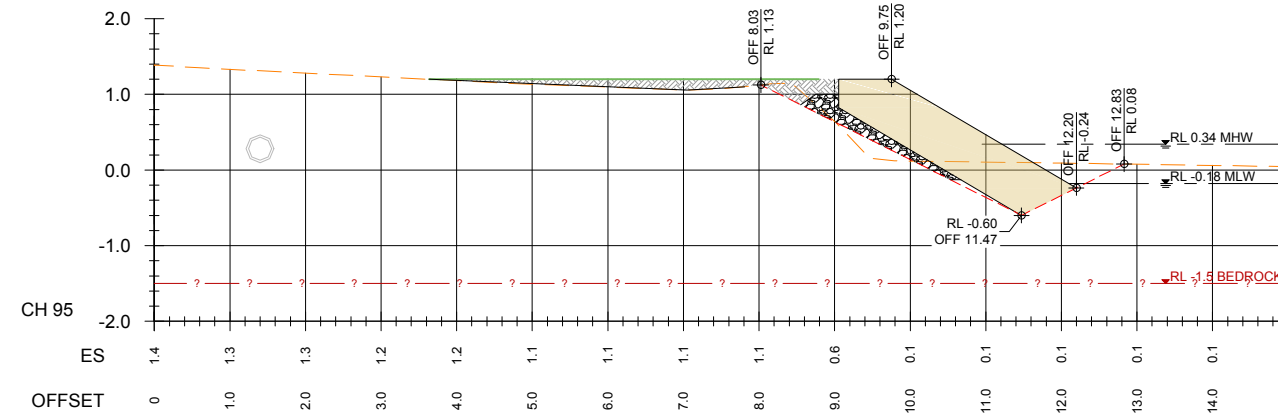
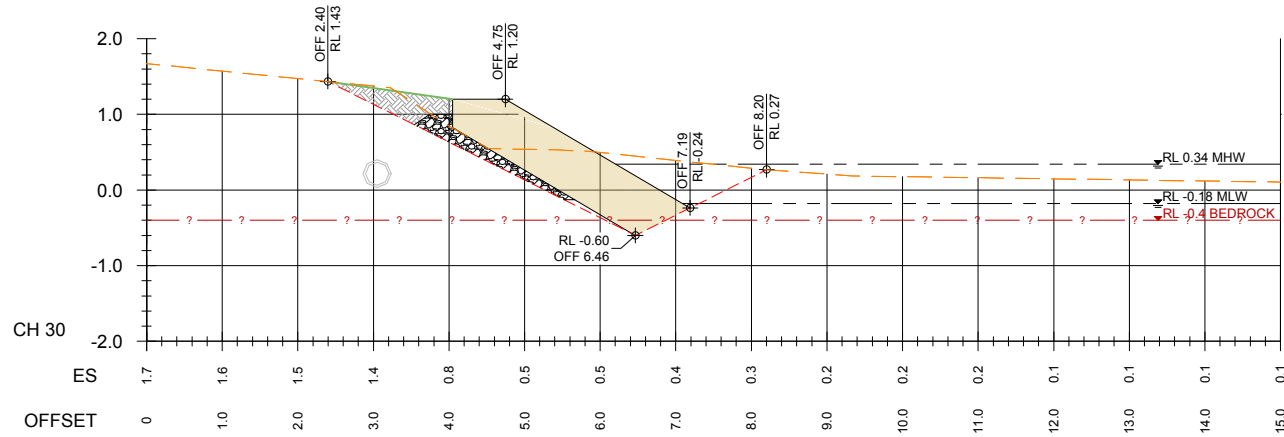
1. ALL LEVELS IN METRES ABOVE AHD. ALL DIMENSIONS IN MILLIMETRES.
2. BEDROCK LEVELS ARE BASED ON DCP TESTS AND ARE APPROXIMATE ONLY.



MATERIAL SIZING				
	M <sub>50</sub> (kg)	M <sub>RANGE</sub> (kg)	Ø <sub>50</sub> (m)	Ø <sub>RANGE</sub> (m)
ARMOUR	89	50 - 125	0.39	0.32 - 0.44
UNDERLAYER	9	-	0.13	-

**ROCK TREATMENT (TYPE 1)  
TYPICAL SECTION**

1:50 (A3)

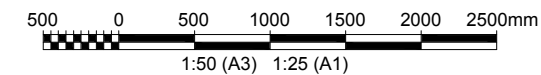
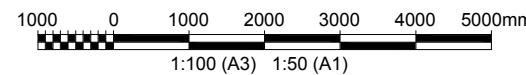


**ROCK TREATMENT (TYPE 1)  
SECTIONS**

1:100 (A3)

AUSTRALIAN HEIGHT DATUM

FOR TENDER



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: **ELFIN HILL ROAD RESERVE  
FORESHORE STABILISATION**

DRAWING TITLE: **ROCK TREATMENT  
TYPICAL SECTIONS  
SHEET 1 OF 2**

HASKONING AUSTRALIA PTY LTD SYDNEY  
Level 14  
58 Berry Street  
North Sydney NSW 2060  
+61 2 9854 5000 Telephone  
+61 2 98209600 Fax  
www.royalhaskoning.com Internet

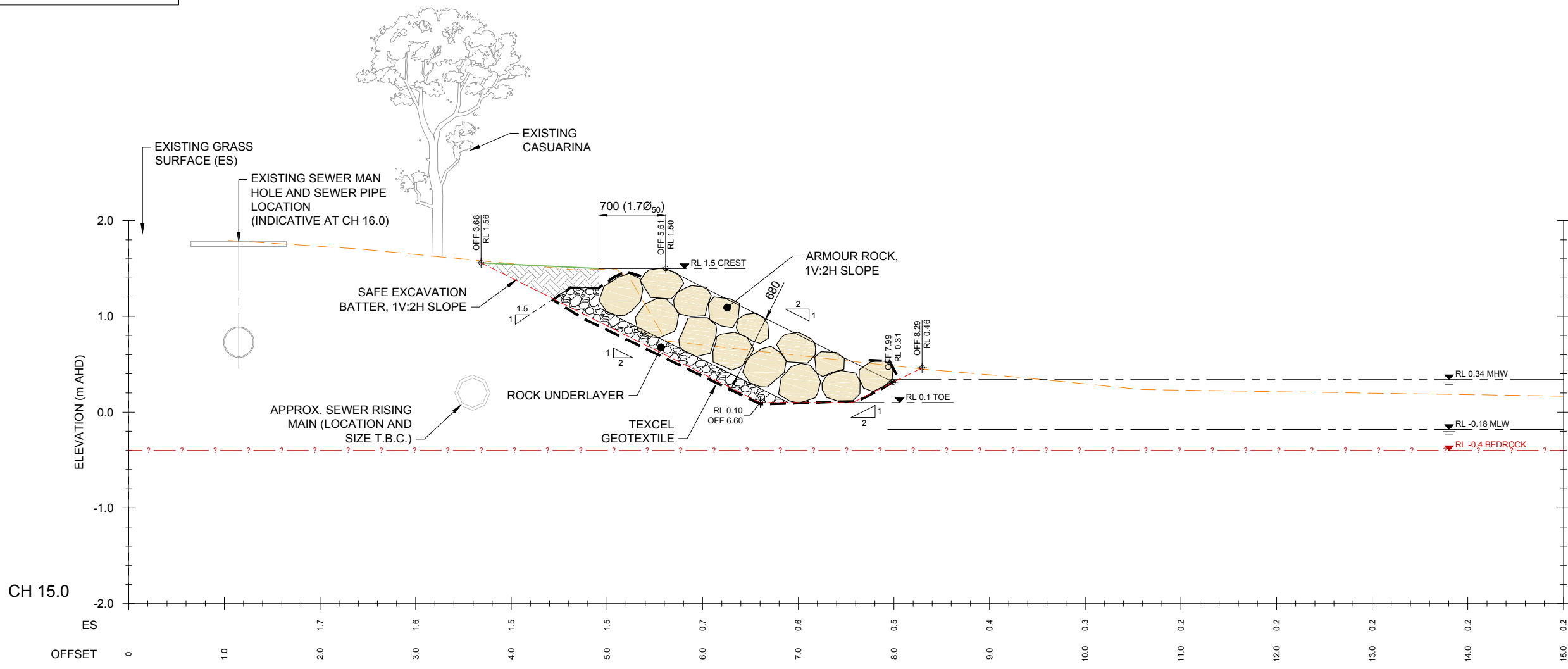
DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF.	PA1635-MA-CIVIL MODEL	
SCALE AT A1	AS SHOWN	
DRAWING No.	PA1635/MA/2001	REVISION
		C

NOTES

1. ALL LEVELS IN METRES ABOVE AHD. ALL DIMENSIONS IN MILLIMETRES.
2. BEDROCK LEVELS ARE BASED ON DCP TESTS AND ARE APPROXIMATE ONLY.

MATERIAL SIZING

	M <sub>50</sub> (kg)	M <sub>RANGE</sub> (kg)	Ø <sub>50</sub> (m)	Ø <sub>RANGE</sub> (m)
ARMOUR	89	50 - 125	0.39	0.32 - 0.44
UNDERLAYER	9	-	0.13	-



ROCK TREATMENT (TYPE 2)  
DETAIL SECTION  
(TYPICAL FOR CH 3.0 TO CH 20.0)

REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY:  
TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT:  
ELFIN HILL ROAD RESERVE  
FORESHORE STABILISATION

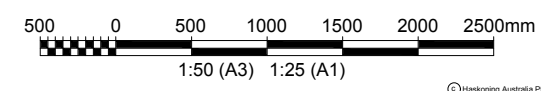
DRAWING TITLE:  
ROCK TREATMENT  
TYPICAL SECTIONS  
SHEET 2 OF 2

HASKONING AUSTRALIA PTY LTD  
SYDNEY  
Level 14  
56 Berry Street  
North Sydney NSW 2000  
+61 2 9854 5000 Telephone  
+61 2 98209600 Fax  
www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-CIVIL MODEL		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/2002	REVISION C	

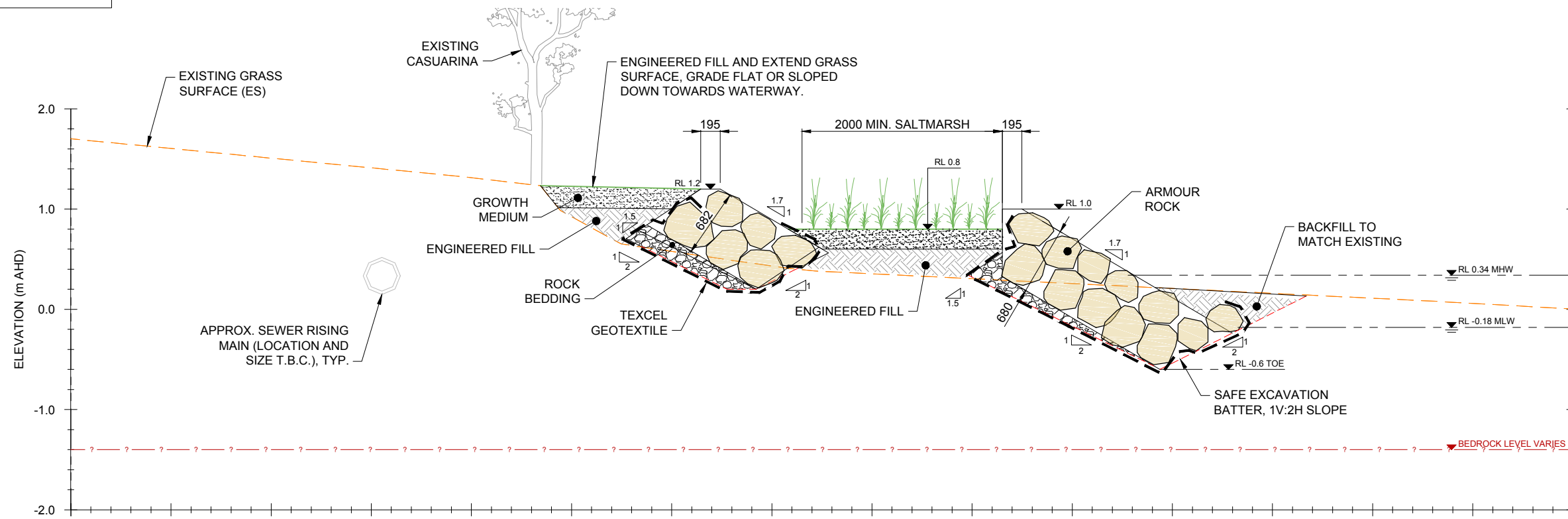
AUSTRALIAN HEIGHT DATUM

FOR TENDER



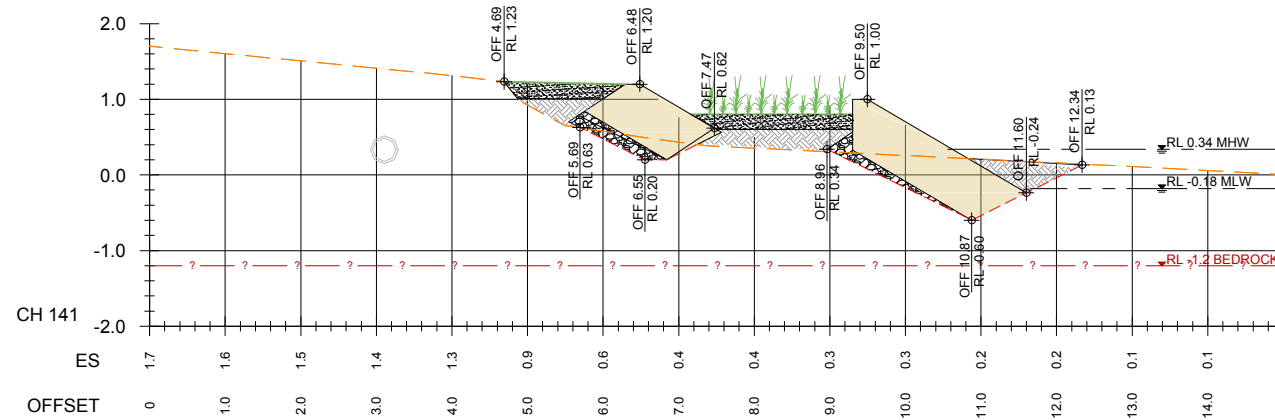
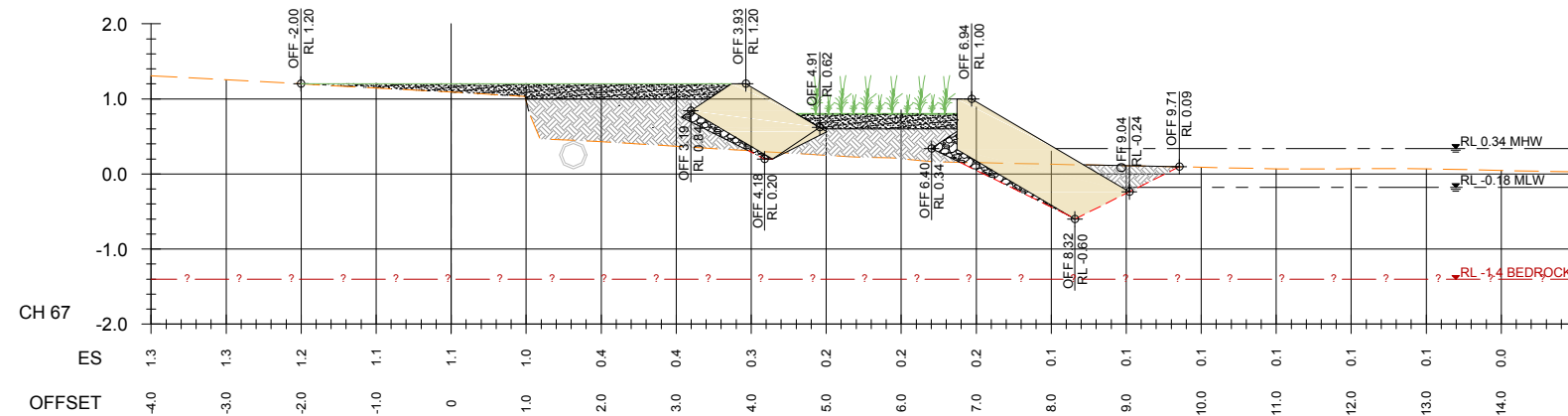
**NOTES**

1. ALL LEVELS IN METRES ABOVE AHD. ALL DIMENSIONS IN MILLIMETRES.
2. BEDROCK LEVELS ARE BASED ON DCP TESTS AND ARE APPROXIMATE ONLY.



MATERIAL SIZING				
	M <sub>50</sub> (kg)	M <sub>RANGE</sub> (kg)	Ø <sub>50</sub> (m)	Ø <sub>RANGE</sub> (m)
ARMOUR	89	50 - 125	0.39	0.32 - 0.44
UNDERLAYER	9	-	0.13	-

**SALTMARSH TREATMENT TYPICAL SECTION**  
1:50 (A3)



**SALTMARSH TREATMENT SECTIONS**  
1:100 (A3)

REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: ELFIN HILL ROAD RESERVE FORESHORE STABILISATION

DRAWING TITLE: SALTMARSH TREATMENT TYPICAL SECTIONS



HASKONING AUSTRALIA PTY LTD SYDNEY

DRAWN: DATE 19/01/2018 JOB No. PA1635

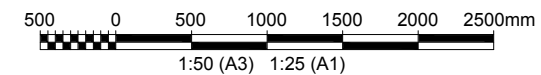
AUTOCAD REF. PA1635-MA-CIVIL MODEL

SCALE AT A1 AS SHOWN

DRAWING No. PA1635/MA/2011 REVISION C

**AUSTRALIAN HEIGHT DATUM**

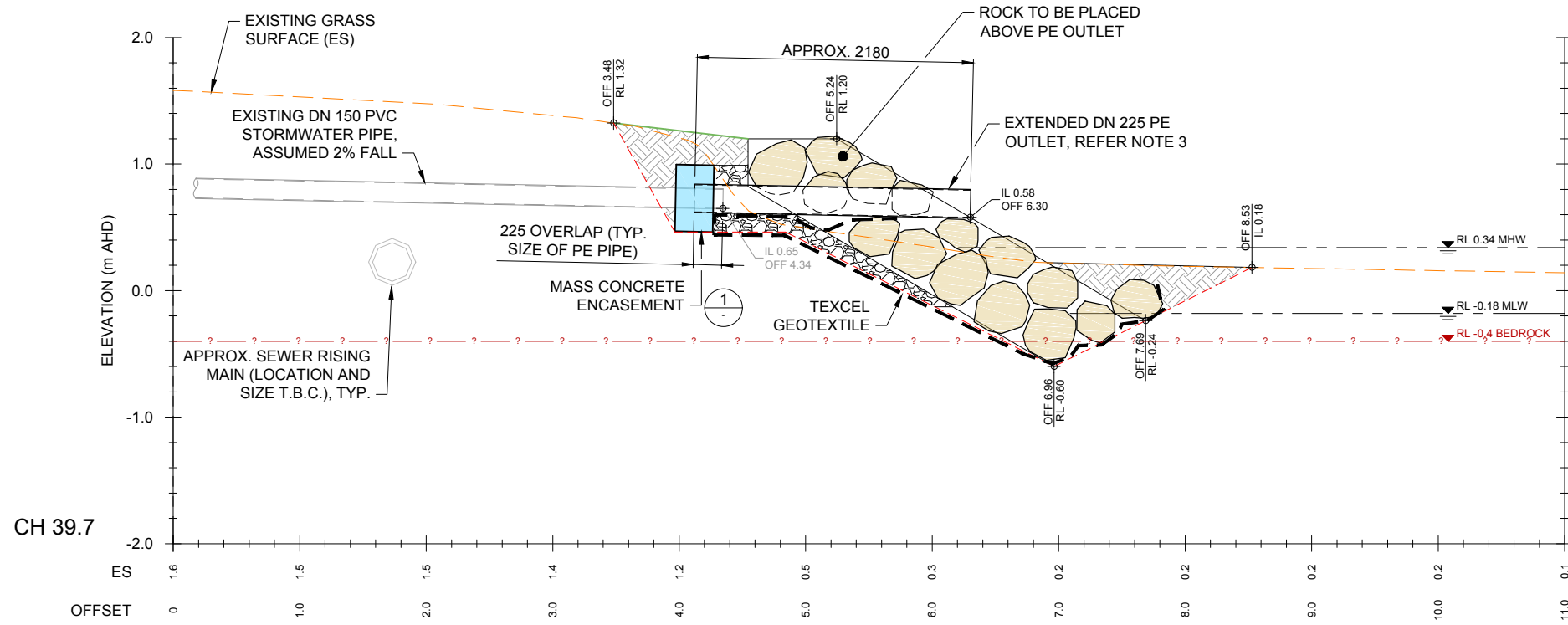
**FOR TENDER**





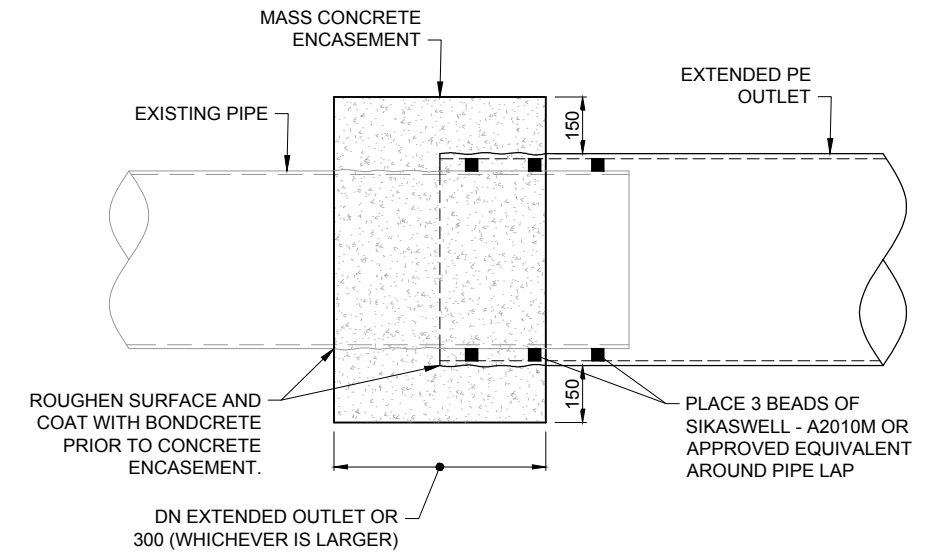
**NOTES**

1. ALL LEVELS IN METRES ABOVE AHD. ALL DIMENSIONS IN MILLIMETRES.
2. BEDROCK LEVELS ARE BASED ON DCP TESTS AND ARE APPROXIMATE ONLY.
3. REFER DRG 1001 FOR STORMWATER EXTENSION SCHEDULE.



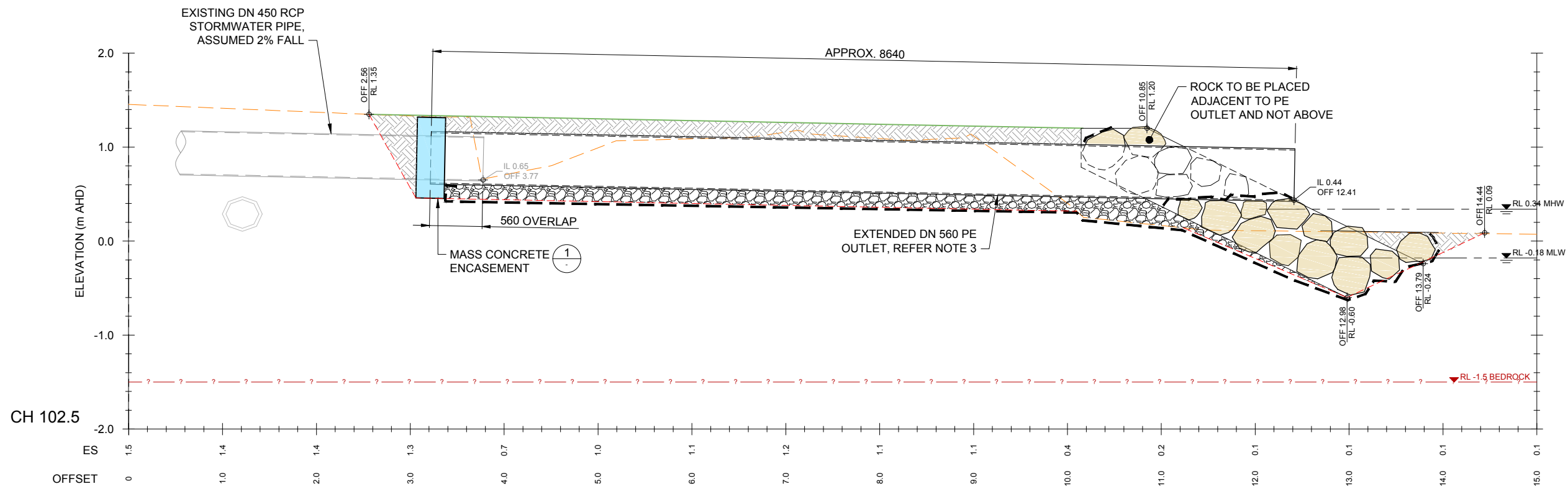
**DN 150 PVC STORMWATER EXTENSION  
DETAIL SECTION**

NOTE: TYPICAL FOR ALL PVC SIZES, REFER NOTE 3  
1:50 (A3)



**DETAIL 1**  
1:20 (A3)

**STORMWATER CONCRETE ENCASEMENT**

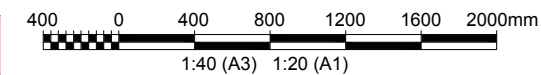


**DN 450 RCP STORMWATER EXTENSION  
DETAIL SECTION**

1:50 (A3)

**AUSTRALIAN HEIGHT DATUM**

**FOR TENDER**



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

**REVISIONS**



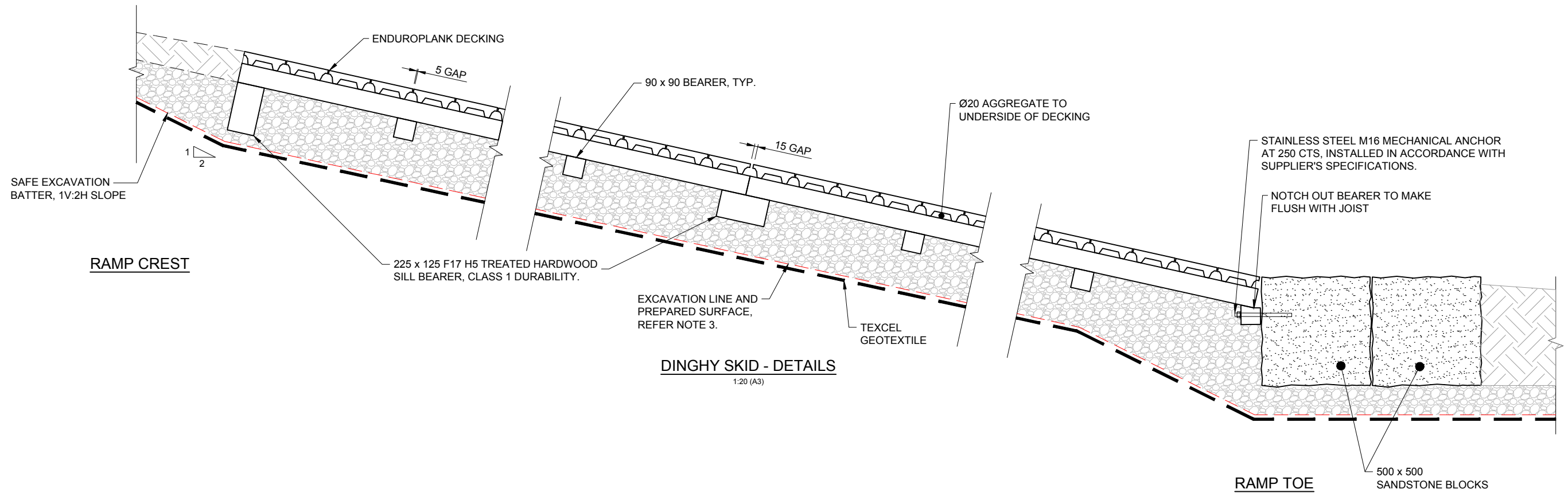
CLIENT: Central Coast Council  
 SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
 BATHYMETRIC: -  
 HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: ELFIN HILL ROAD RESERVE FORESHORE STABILISATION

DRAWING TITLE: STORMWATER EXTENSION SECTIONS AND DETAILS

HASKONING AUSTRALIA PTY LTD SYDNEY  
 Level 14  
 56 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 98209600 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF.	PA1635-MA-CIVIL MODEL	
SCALE AT A1	AS SHOWN	
DRAWING No.	PA1635/MA/2021	REVISION C



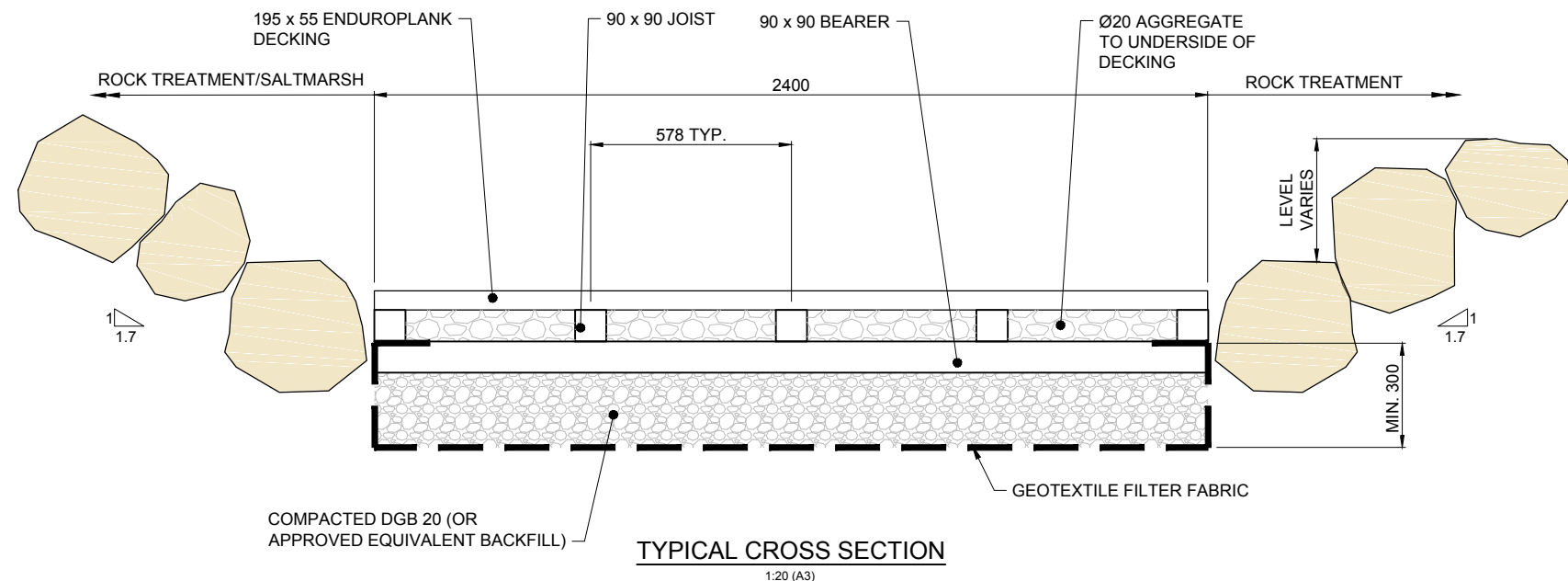
**DINGHY SKID - DETAILS**  
1:20 (A3)

**NOTES - GENERAL**

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RHDHV SPECIFICATIONS U.N.O.
2. ALL DEBRIS REMOVED FROM SITE ON COMPLETION OF WORKS AND ANY DAMAGE SHALL BE REMEDIATED.
3. ALL DIMENSIONS SHOW IN MILLIMETRES U.N.O.
4. LOCALLY TRANSITION ROCK TREATMENT TO MATCH WITH DINGHY SKID.
5. BASE MATERIAL TO BE PROOF ROLLED. MIN. BEARING CAPACITY OF PREPARED SUFACE TO BE 20kPa
6. GEOTEXTILE SHALL BE GEOFABRICS TEXCEL 900R OR APPROVED EQUIVALENT.

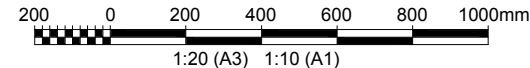
**NOTES - RAMP**

1. ALL DINGHY STRUCTURE COMPONENTS ARE REPLAS (OR APPROVED EQUIVALENT) PROFILES AND SHALL BE INSTALLED AND FIXED AS PER MANUFACTURER'S SPECIFICATIONS.
2. REPLAS PRODUCTS ARE NOT STRUCTURAL. ENSURE DGB20 OR SIMILAR IS COMPACTED FIRMLY AROUND BEARERS / SILL BEARERS TO PROVIDE ADEQUATE SUPPORT. PROVIDE A MINIMUM 90 THICK COMPACTED BASE OF DGB20 TO UNDERSIDE OF 90 x 90 BEARER. DGB20 TO BE WRAPPED IN GEOFABRIC.
3. ALL FIXINGS SHALL BE GRADE 316 STAINLESS STEEL GAUGE 14 BUGLE HEAD SCREWS 100 LONG FOR DECKING AND 150 LONG FOR JOISTS. DECKING SHALL BE FIXED WITH 2 x SCREWS ALONG THE CENTRE OF JOIST AND 1 x SCREW ON THE 4 x REMANING JOISTS. PRE-DRILL ALL HOLES FOR PLACEMENT OF SCREWS.
4. ALL COMPONENT LENGTHS ARE 2400 U.N.O.



**TYPICAL CROSS SECTION**  
1:20 (A3)

**FOR TENDER**



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY:  
TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT:  
**ELFIN HILL ROAD RESERVE FORESHORE STABILISATION**

DRAWING TITLE:  
**DINGHY SKID DETAILS**

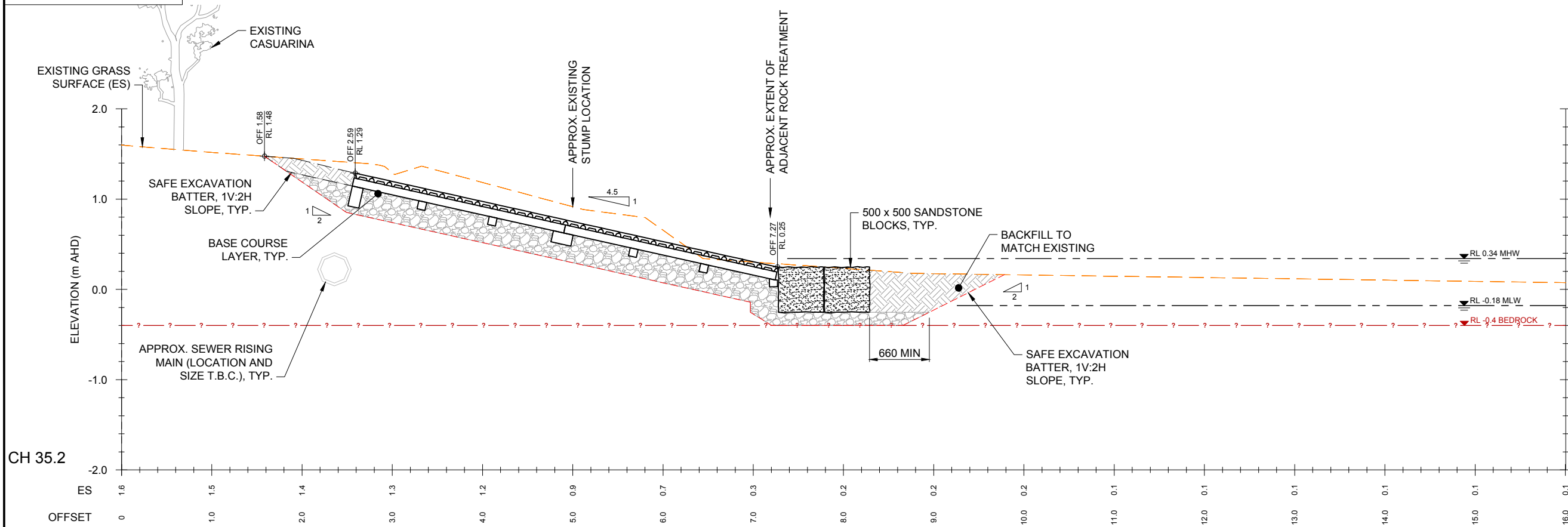
HASKONING AUSTRALIA PTY LTD SYDNEY  
Level 14  
58 Berry Street  
North Sydney NSW 2060  
+61 2 9854 5000 Telephone  
+61 2 98209660 Fax  
www.royalhasoking.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-DINGHY SKID DETAILS		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/2102	REVISION C	

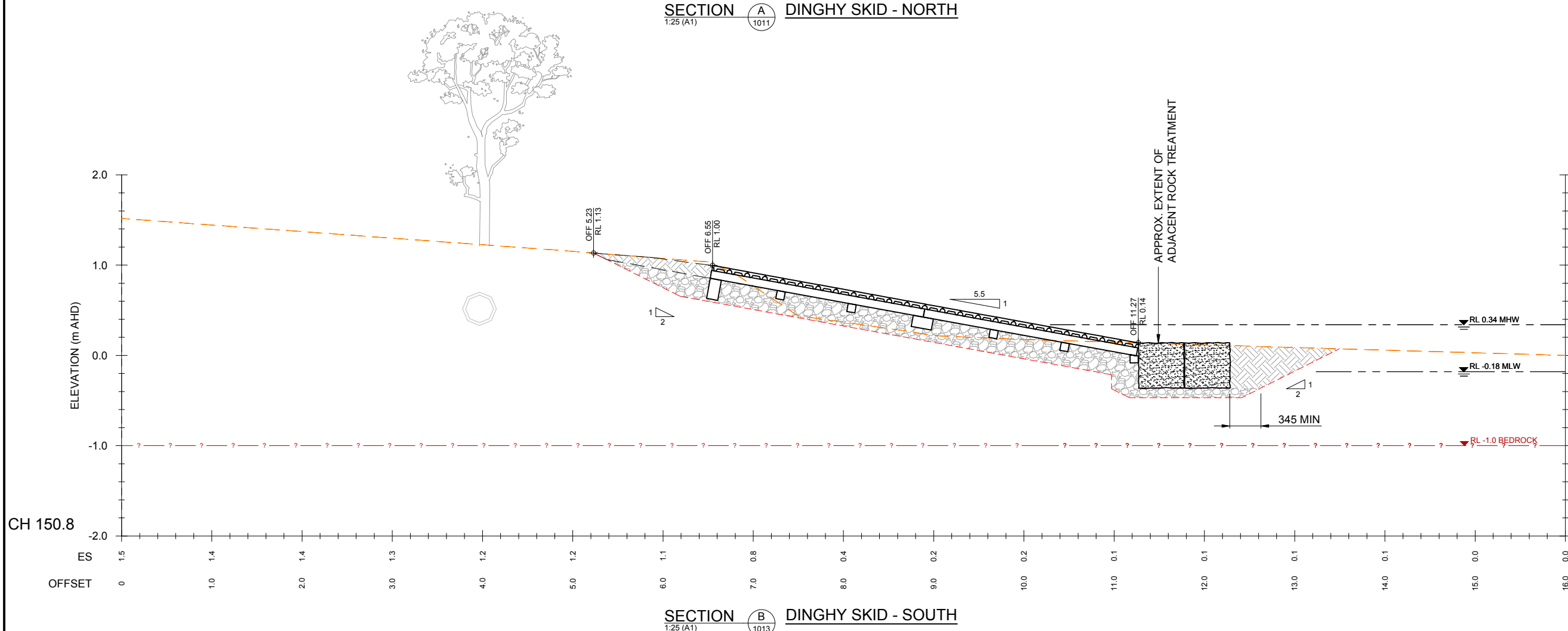


NOTES

1. ALL LEVELS IN METRES ABOVE AHD. ALL DIMENSIONS IN MILLIMETRES.
2. BEDROCK LEVELS ARE BASED ON DCP TESTS AND ARE APPROXIMATE ONLY.
3. REFER DRG 2102 FOR DETAILS.



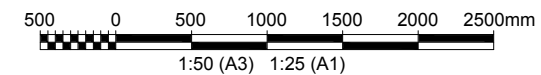
SECTION A DINGHY SKID - NORTH  
1:25 (A1) 1011



SECTION B DINGHY SKID - SOUTH  
1:25 (A1) 1013

AUSTRALIAN HEIGHT DATUM

FOR TENDER



REV	DATE	DESCRIPTION	BY	CHK	APPD
C	19.01.2018	ISSUED FOR TENDER	BAM	GPB	GPB
B	18.10.2017	ISSUED FOR REVIEW	BAM	GPB	GPB
A	14.09.2017	ISSUED FOR REVIEW	BAM	GPB	GPB

REVISIONS



SURVEY: TOPOGRAPHIC: STEPHEN THORNE & ASSOCIATES (22/10/2014)  
BATHYMETRIC: -  
HORIZ. DATUM: MGA VERT. DATUM: AHD

PROJECT: ELFIN HILL ROAD RESERVE FORESHORE STABILISATION

DRAWING TITLE: DINGHY SKID TYPICAL SECTIONS

HASKONING AUSTRALIA PTY LTD SYDNEY  

 Level 14  
 56 Berry Street  
 North Sydney NSW 2060  
 +61 2 9854 5000 Telephone  
 +61 2 96209660 Fax  
 www.royalhaskoning.com Internet

DRAWN	DATE 19/01/2018	JOB No. PA1635
AUTOCAD REF. PA1635-MA-CIVIL MODEL		
SCALE AT A1 AS SHOWN		
DRAWING No. PA1635/MA/2101	REVISION	C