

DRAWING SCHEDULE		
DRAWING NUMBER	REV	DRAWING TITLE
001	C1	OVERALL PLAN VIEW
002	C1	BANK BATTERING PLAN VIEW AND SETOUT
003	C1	BANK BATTERING CUT & FILL
004	C1	BANK BATTERING CONTROL LINE LONGITUDINAL SECTION
005	C1	BANK BATTERING CROSS SECTIONS
006	C1	BANK BATTERING CROSS SECTIONS
007	C1	BANK BATTERING CROSS SECTIONS
008	C1	BANK BATTERING CROSS SECTIONS
009	C1	BANK BATTERING CROSS SECTIONS
010	C1	BANK BATTERING TYPICAL SECTIONS
011	C1	LANDFORM PLAN & SETOUT
012	C1	LANDFORM CUT & FILL
013	C1	LANDFORM CONTROL LINE LONGITUDINAL SECTION
014	C1	LANDFORM CROSS SECTIONS
015	C1	LANDFORM CROSS SECTIONS
016	C1	LANDFORM CROSS SECTIONS
017	C1	LANDFORM CROSS SECTIONS
018	C1	LANDFORM TYPICAL SECTIONS
019	C1	ROCK BEACHING PLAN
020	C1	ROCK BEACHING TYPICAL SECTIONS
021	C1	FARM DAM PLANVIEW & SETOUT
022	C1	FARM DAM CUT & FILL
023	C1	FARM DAM CROSS SECTIONS
024	C1	ROCK CHUTE SPILLWAY PLANVIEW & SETOUT
025	C1	ROCK CHUTE SPILLWAY LONGITUDINAL SECTION
026	C1	ROCK CHUTE SPILLWAY DETAILS

**GENERAL NOTES**

- REFER TO TECHNICAL SPECIFICATION: REEF TRUST IV COLLINSDALE STATION FITZROY RIVER CHANNEL AVULSION REMEDIATION COORDINATES ARE GDA94 ZONE 56.
- COORDINATES ARE AT 1m INTERVALS.
- LIDAR DATA CAPTURED IN JULY 2018 WAS USED TO CREATE THE DTM UPON WHICH THE DESIGN IS BASED AND THIS DTM MAY NOT REPRESENT THE GROUND CONDITIONS AT THE TIME OF COMMENCEMENT OF WORKS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND DEPTH OF ALL UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
- DISTURBANCE TO VEGETATION SHALL BE MINIMISED AND SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION

SITE:  
COLLINSDALE STATION  
TITLE:  
REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
OVERALL PLAN VIEW

SCALE @ A3 1:10000	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 001	REVISION C1	SHEET NO. 1	FILE NAME 18029.dwg	



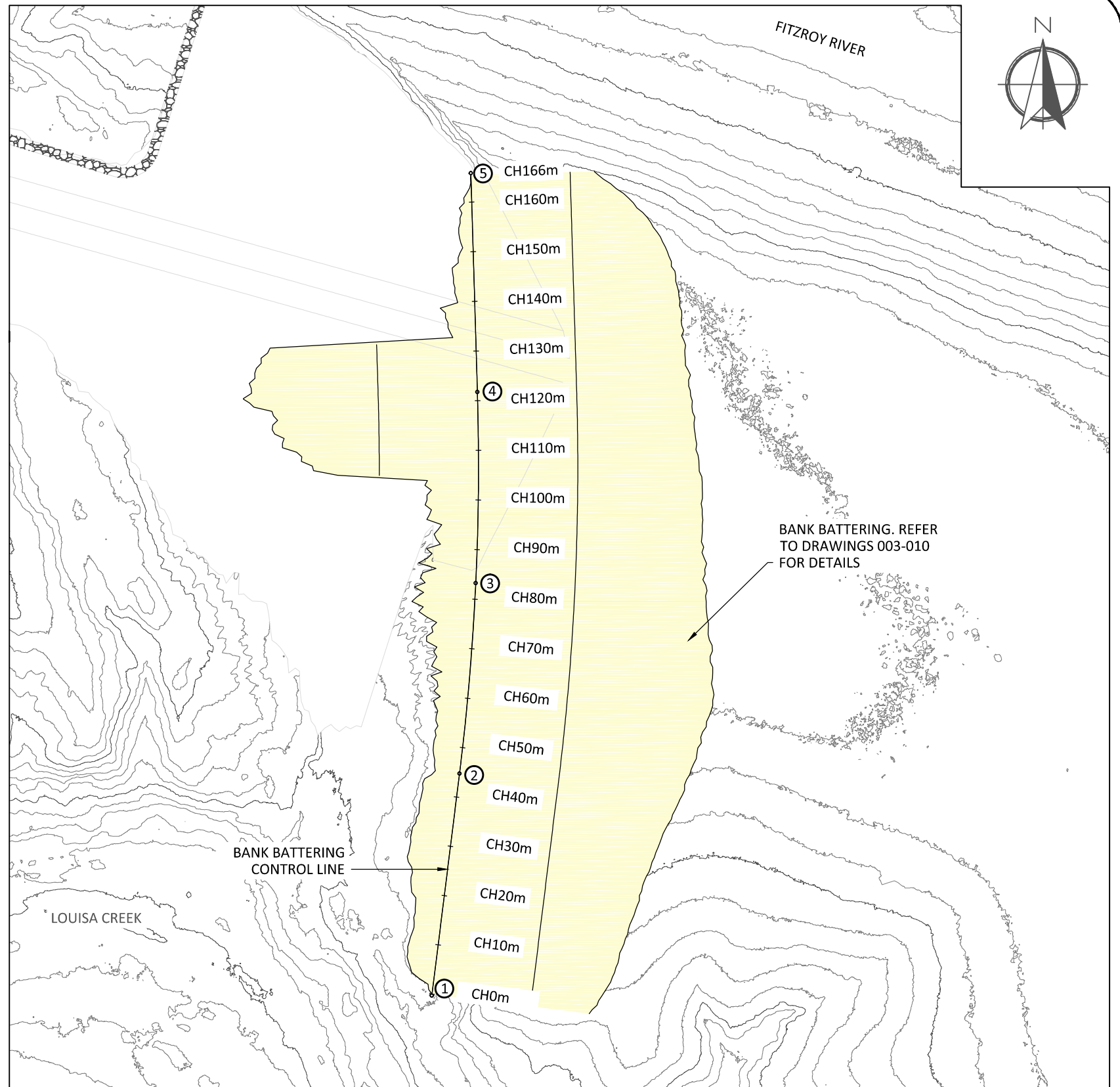
M 0428 104 007 E adam@neillygroup.com.au

CLIENT:



C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

BANK BATTERING SETOUT POINTS								
SETOUT NO.	TYPE	STATION	EASTING	NORTHING	BEARING			RADIUS
					DEG	MIN	SEC	
1	START	0	221539	7439021	7	5	52.8	
2	T.P	44.753	221545	7439065	7	5	52.8	
3	CENTRE		221049	7439127				-500
4	T.P	121.726	221549	7439142	358	16	39	
5	END	165.815	221547	7439186	358	16	39	



SITE:  
COLLINSDALE STATION  
TITLE:  
REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
BANK BATTERING PLAN VIEW AND SETOUT

SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
1:1000	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	002	C1	2	18029.dwg	

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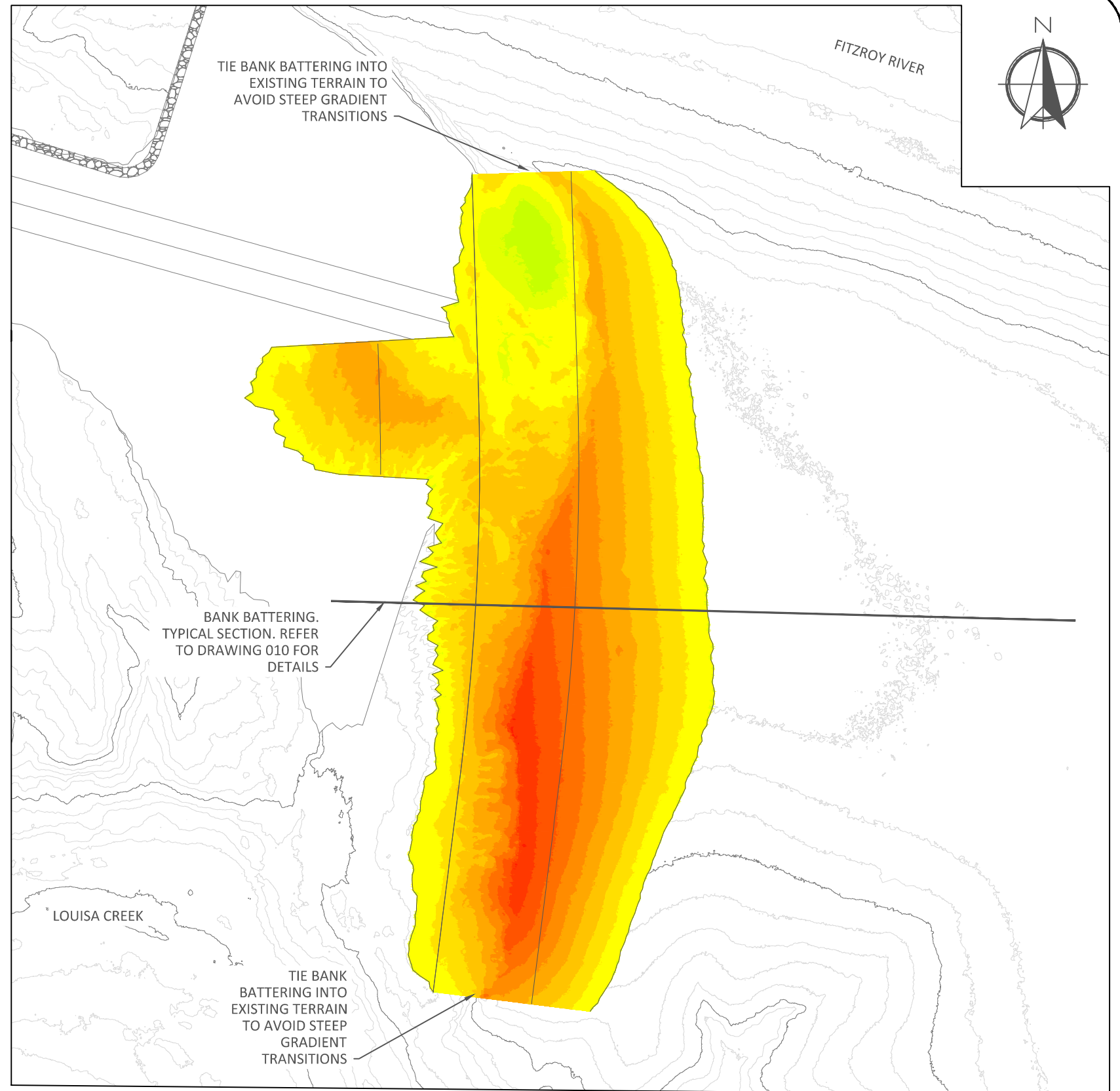
REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

STATUS: **FOR CONSTRUCTION**

LEGEND

- ROCK BEACHING
- BANK BATTERING
- LANDFORM
- FARM DAM
- ROCK CHUTE SPILLWAY

CUT / FILL EARTHWORKS		
MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
-10.0	-9.0	Red
-9.0	-8.0	Red-Orange
-8.0	-7.0	Orange
-7.0	-6.0	Orange-Yellow
-6.0	-5.0	Yellow-Orange
-5.0	-4.0	Yellow
-4.0	-3.0	Light Yellow
-3.0	-2.0	Yellow-Green
-2.0	-1.0	Yellow
-1.0	0.0	Light Green
0.0	1.0	Light Green
1.0	2.0	Light Green
2.0	3.0	Green
3.0	4.0	Green
4.0	5.0	Dark Green
5.0	6.0	Blue



SITE:  
COLLINSDALE STATION  
TITLE:  
REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
BANK BATTERING CUT & FILL

SCALE @ A3 1:1000	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 003	REVISION C1	SHEET NO. 3	FILE NAME 18029.dwg	

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REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

STATUS:

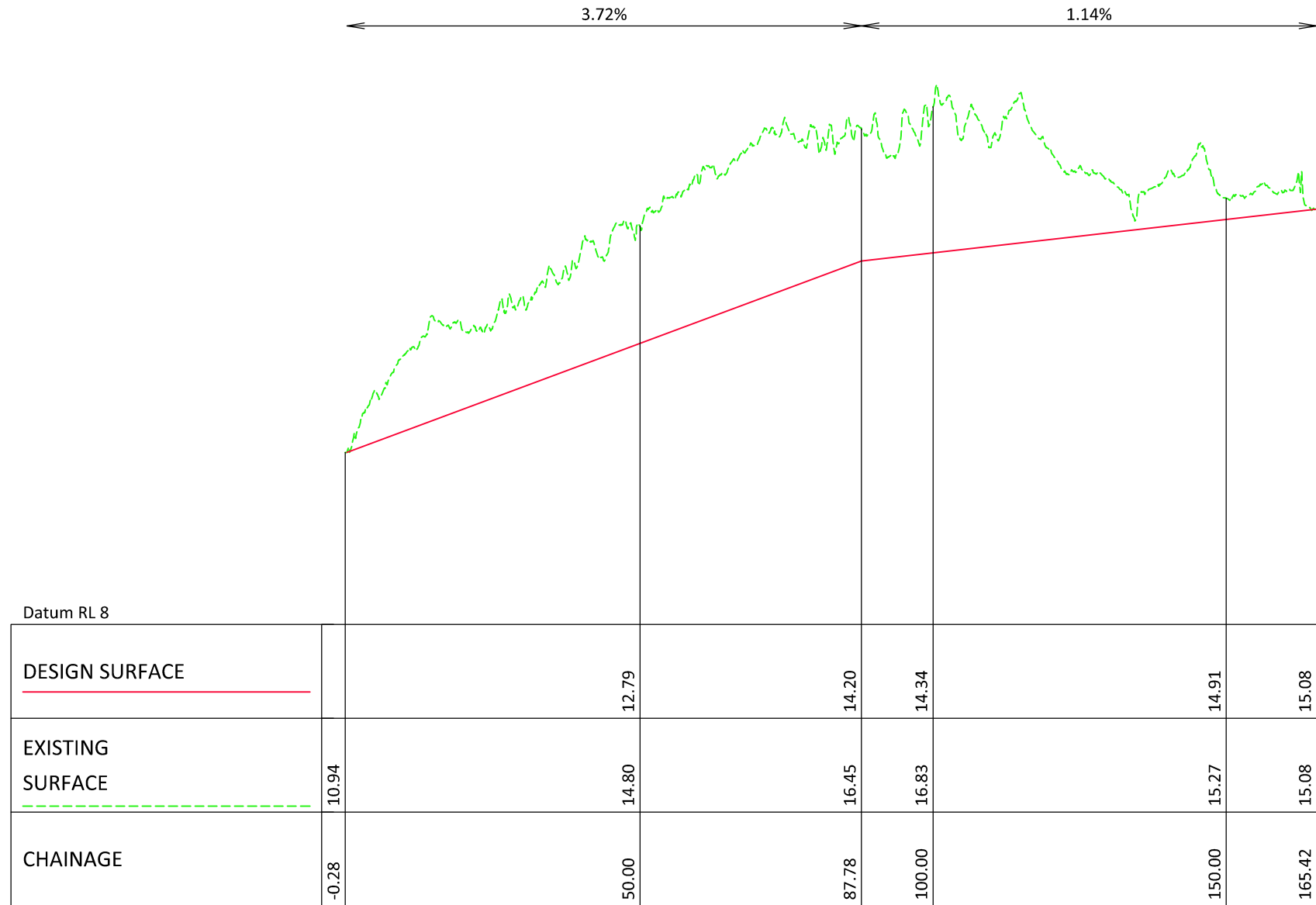
**FOR CONSTRUCTION**

**SCALES:**

HORIZONTAL 1:1000  
VERTICAL 1:100

**LEGEND**

--- EXISTING SURFACE  
— DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING CONTROL LINE LONGITUDINAL SECTION					
SCALE @ A3 -	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 004	REVISION C1	SHEET NO. 4	FILE NAME 18029.dwg	

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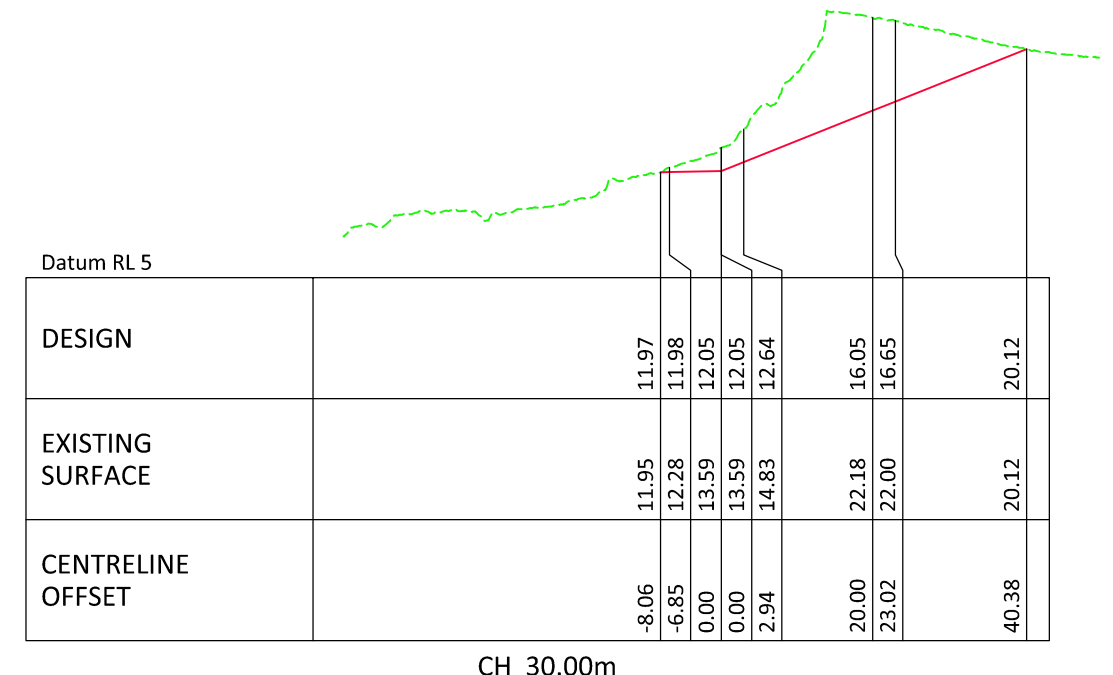
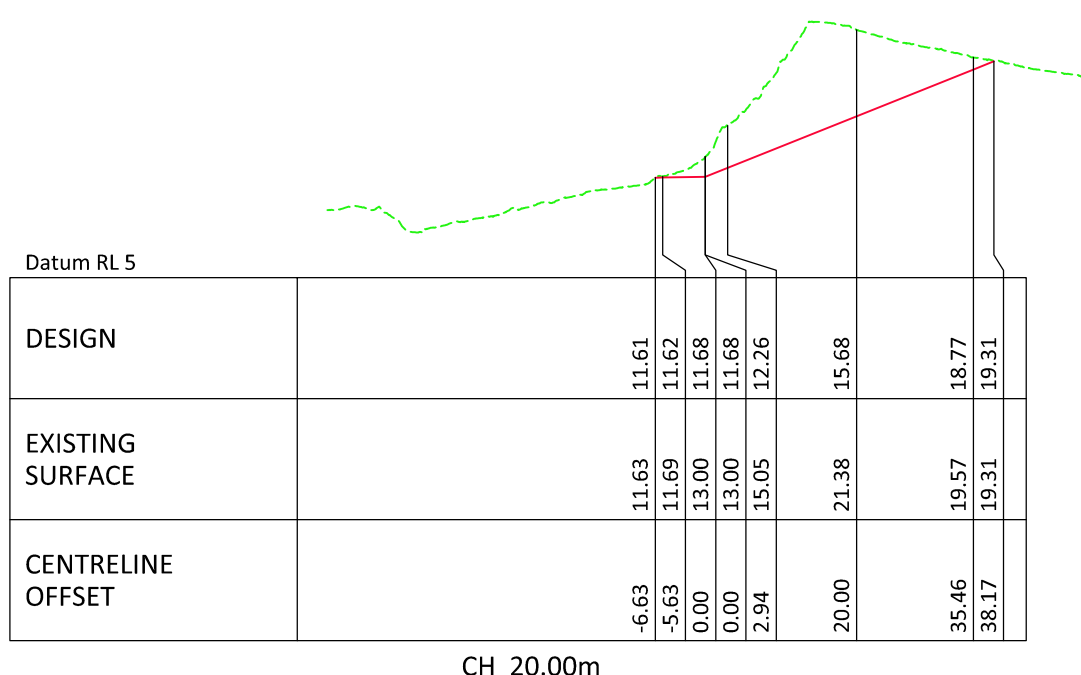
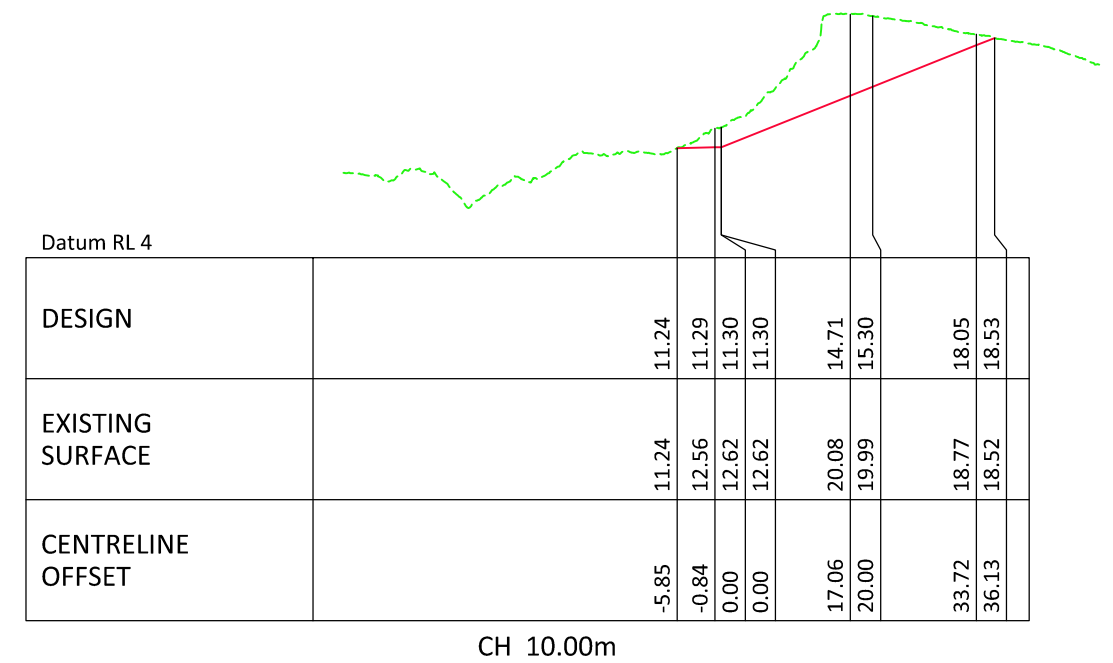
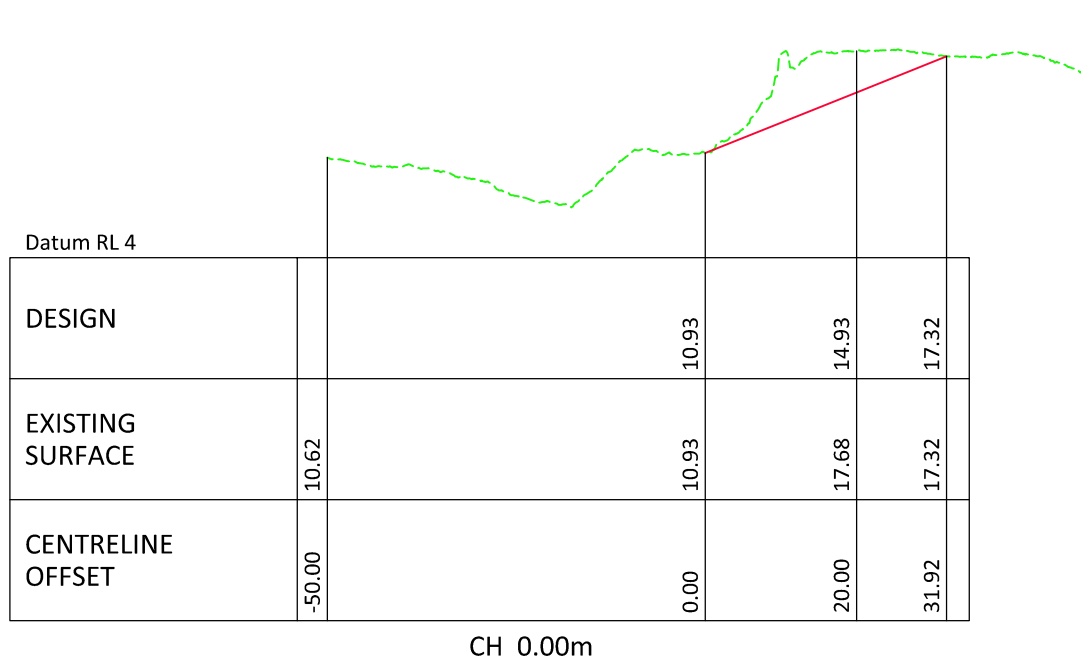
C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

**SCALES:**

HORIZONTAL 1:1000  
VERTICAL 1:500

**LEGEND**

--- EXISTING SURFACE  
— DESIGN SURFACE



SITE: COLLINSDALE STATION  
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
BANK BATTERING CROSS SECTIONS

SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	005	C1	5	18029.dwg	

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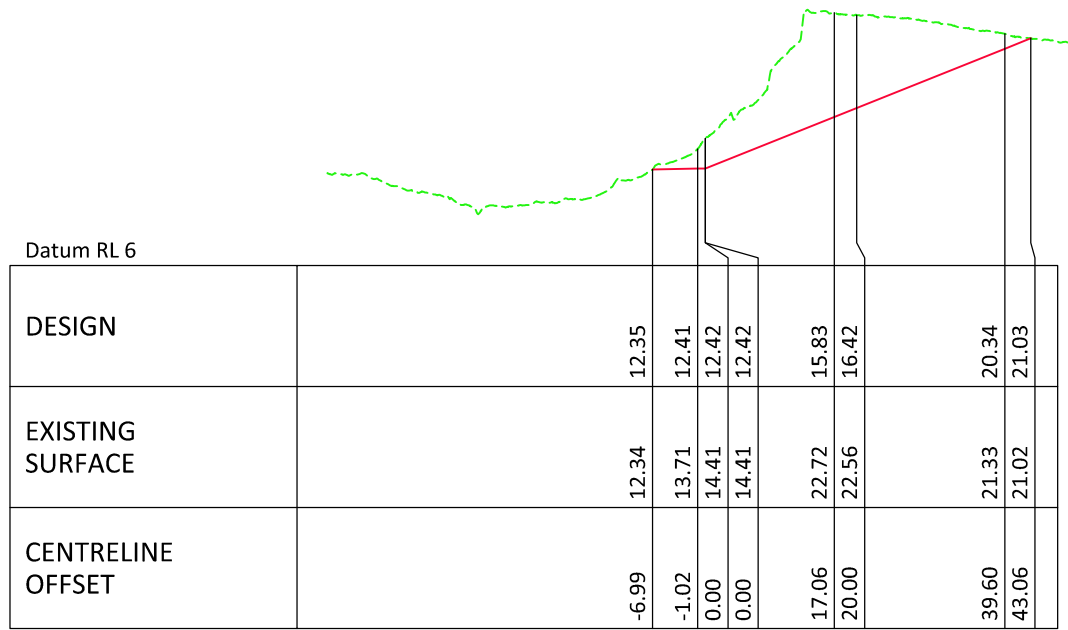
C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

SCALES:

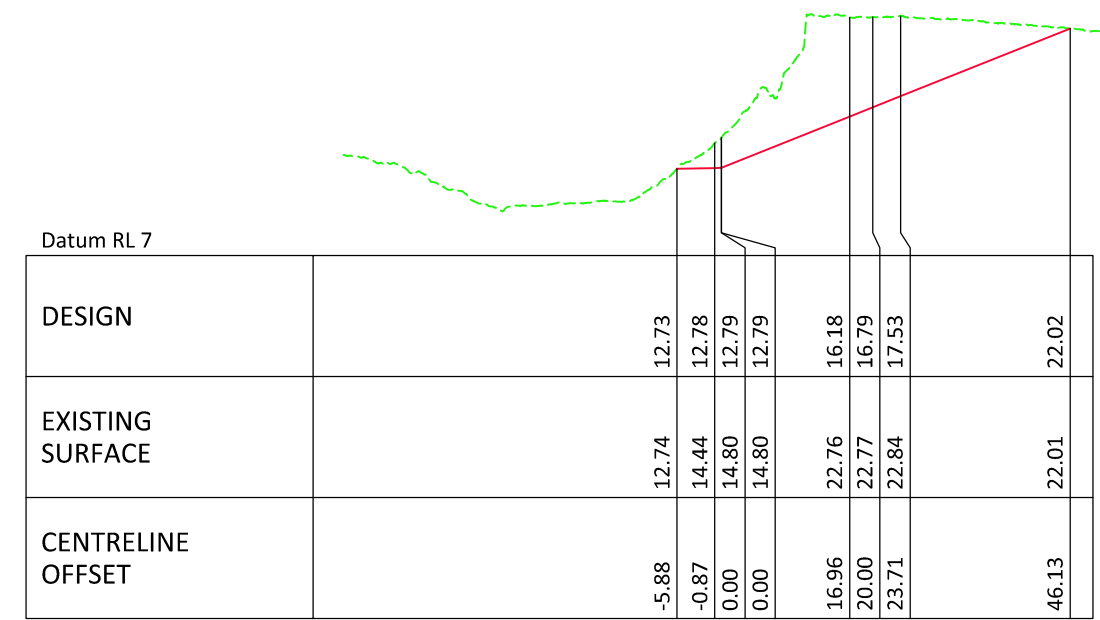
HORIZONTAL 1:1000  
VERTICAL 1:500

LEGEND

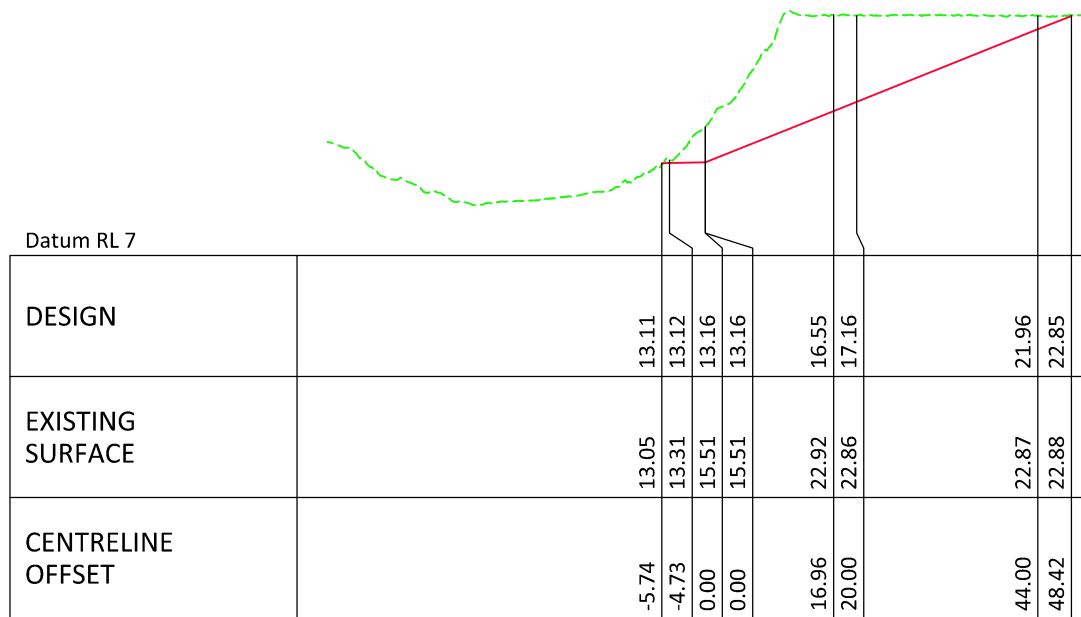
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--- DESIGN SURFACE



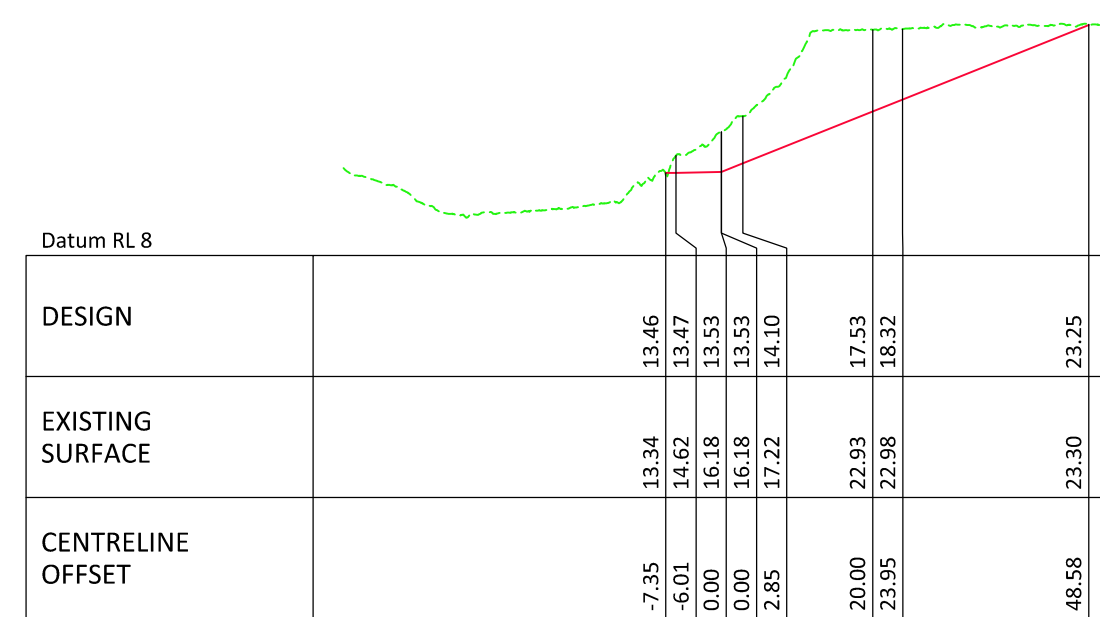
CH 40.00m



CH 50.00m



CH 60.00m



CH 70.00m

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING CROSS SECTIONS					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	006	C1	6	18029.dwg	

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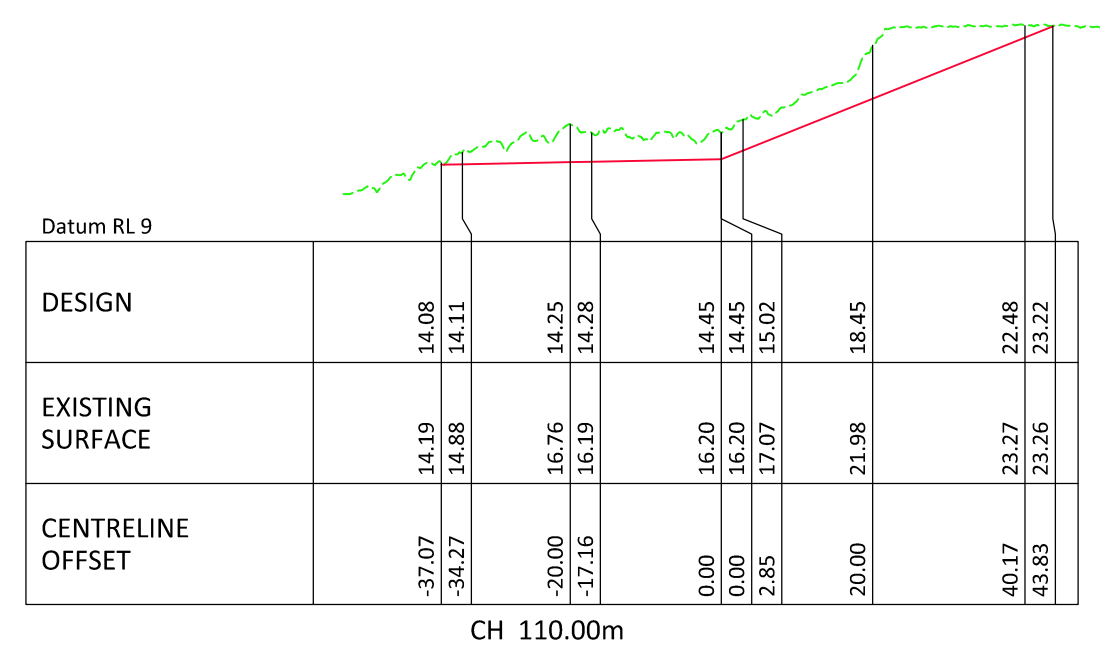
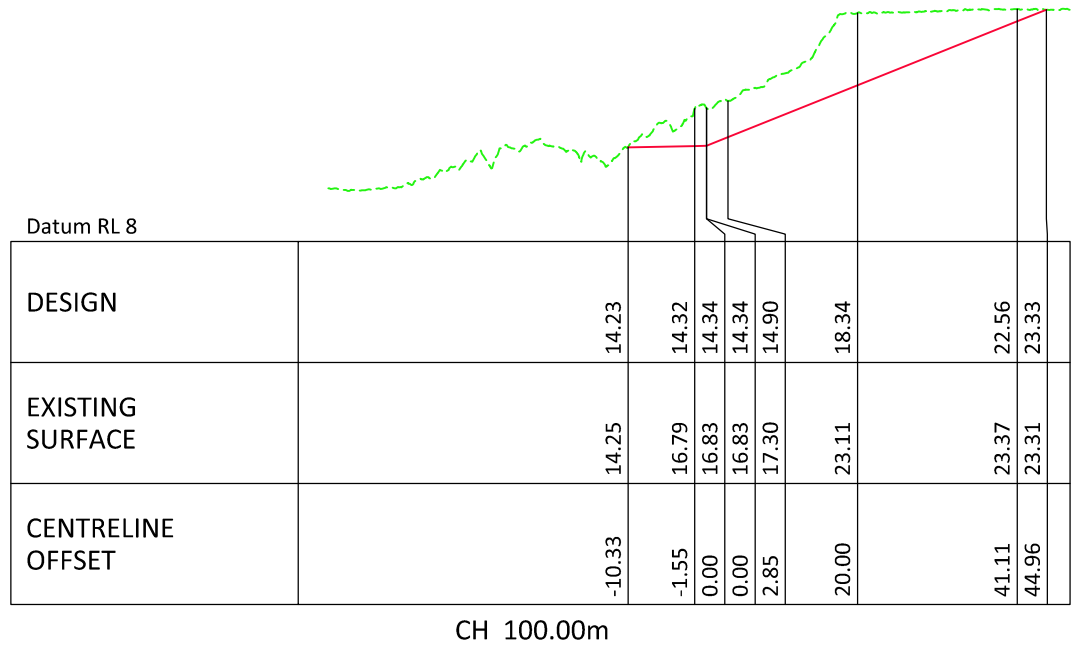
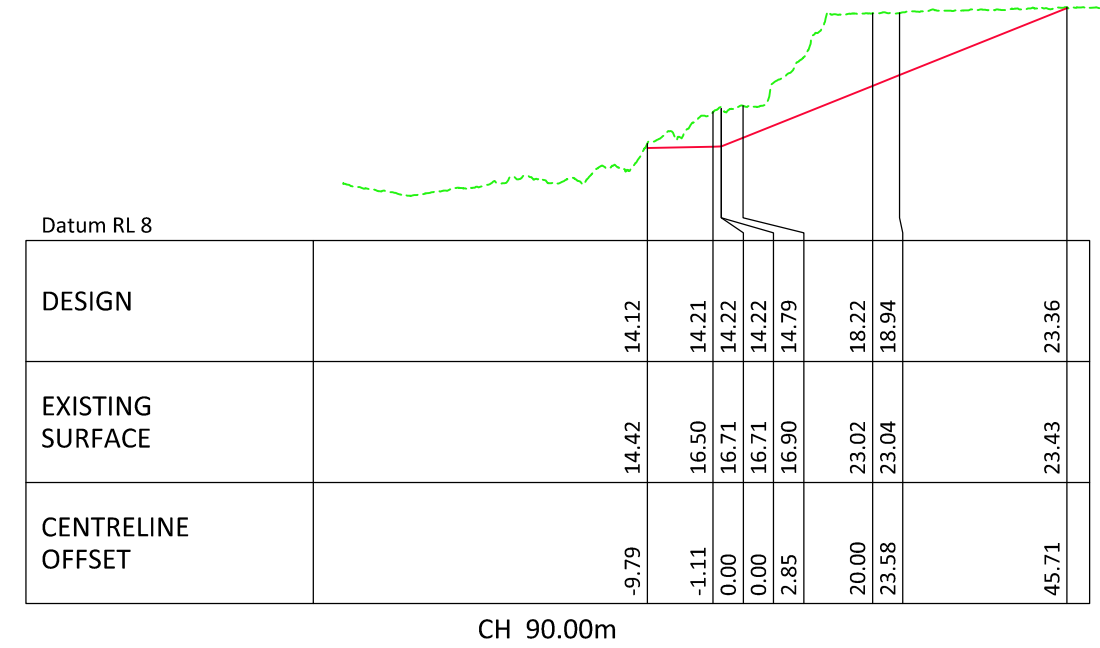
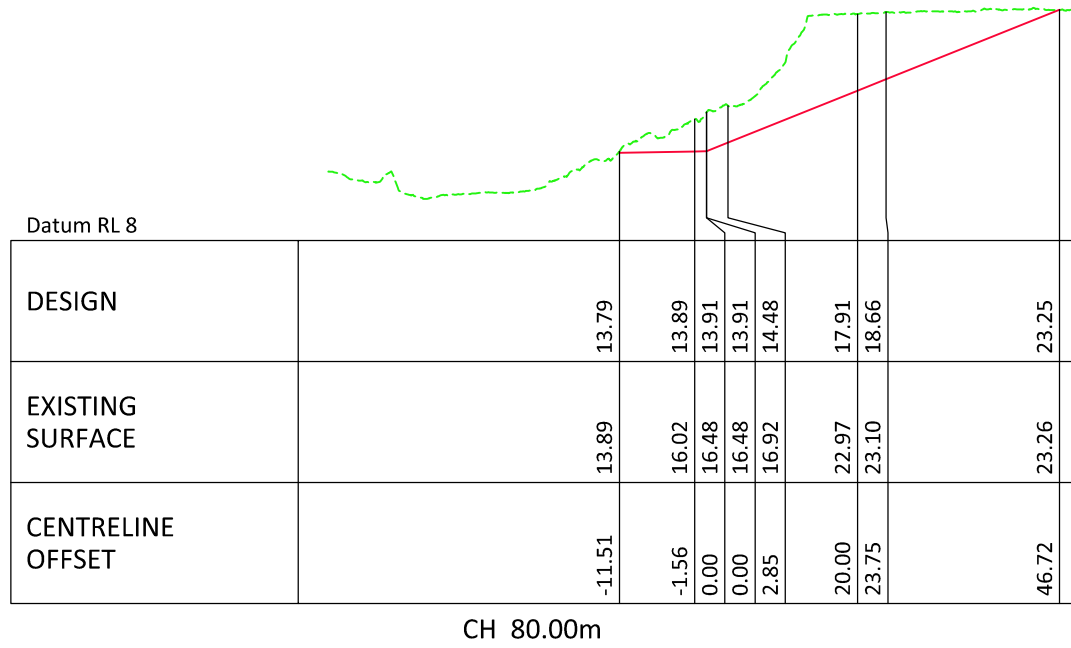
C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

SCALES:

HORIZONTAL 1:1000  
VERTICAL 1:500

LEGEND

--- EXISTING SURFACE  
--- DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING CROSS SECTIONS					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	007	C1	7	18029.dwg	

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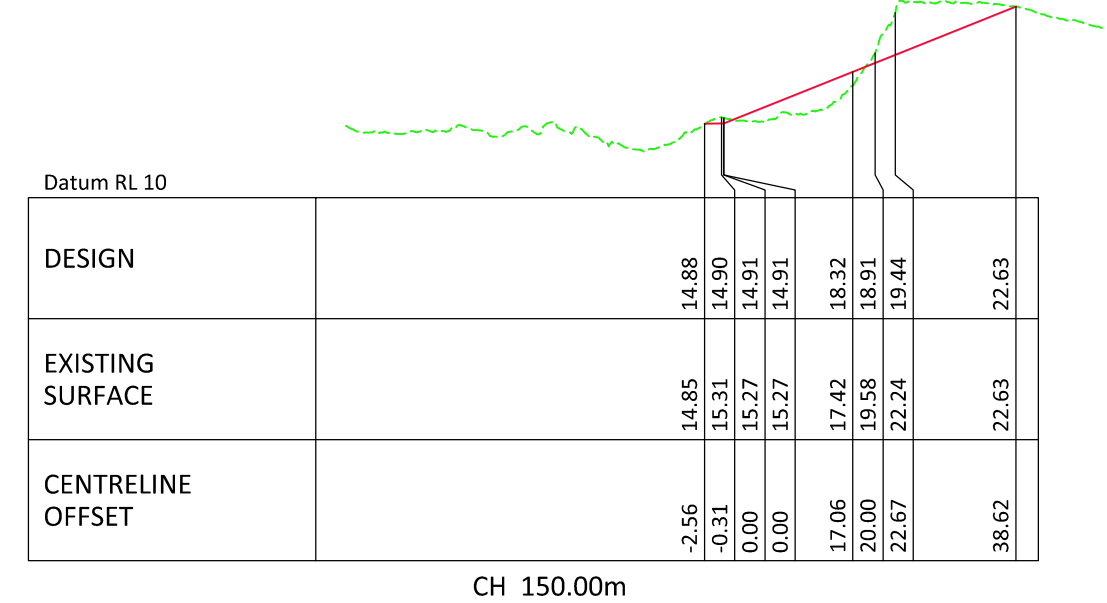
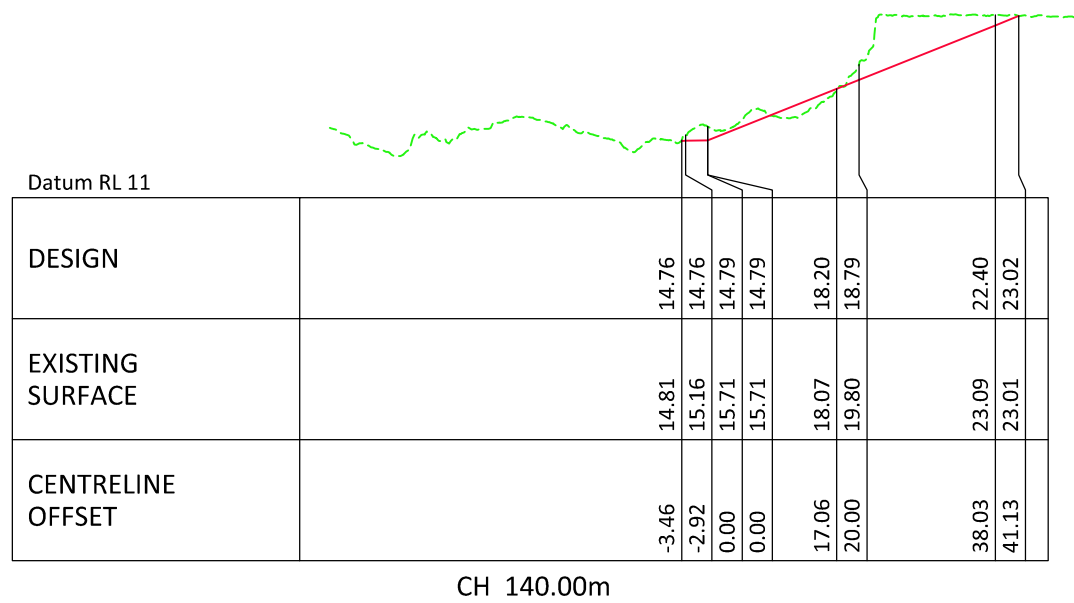
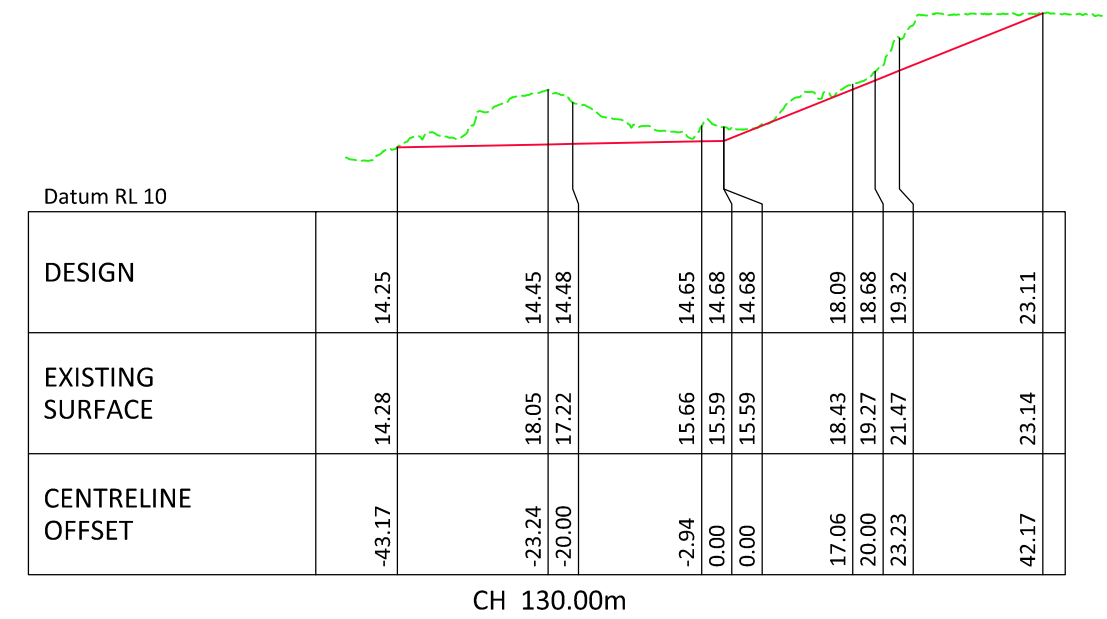
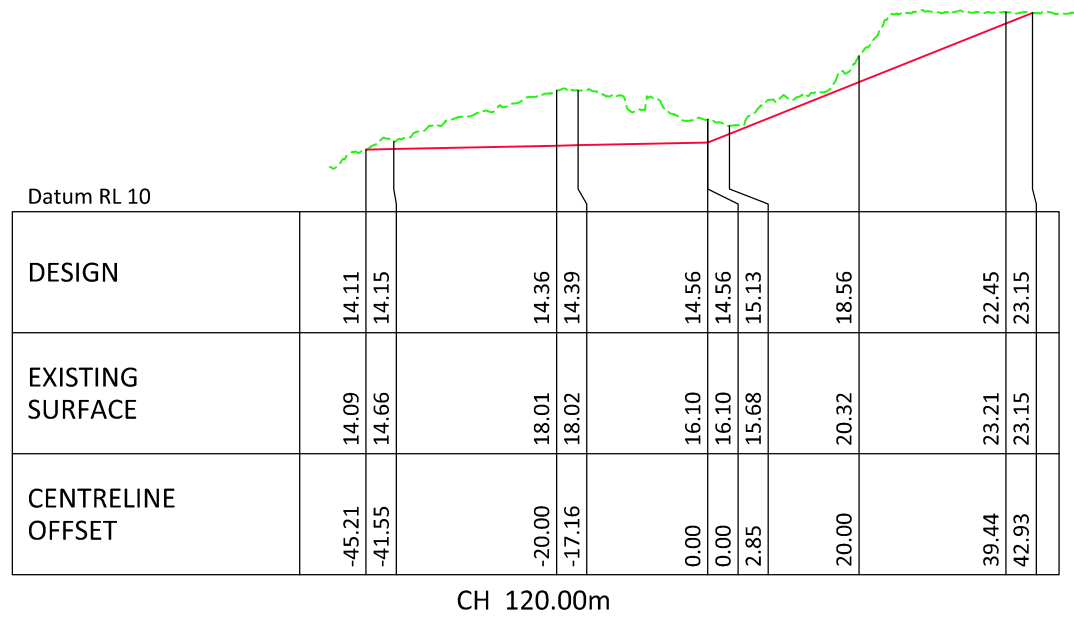
C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS:	<b>FOR CONSTRUCTION</b>		

SCALES:

HORIZONTAL 1:1000  
VERTICAL 1:500

LEGEND

--- EXISTING SURFACE  
— DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING CROSS SECTIONS					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	008	C1	8	18029.dwg	



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C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

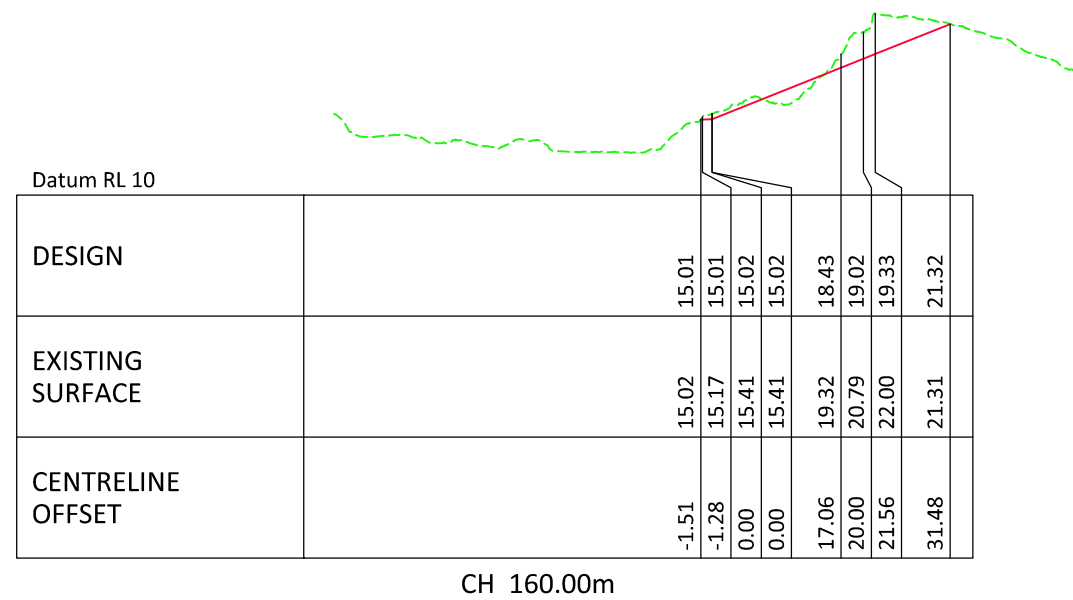


**SCALES:**

HORIZONTAL 1:1000  
 VERTICAL 1:500

**LEGEND**

--- EXISTING SURFACE  
 --- DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING CROSS SECTIONS					
SCALE @ A3 -	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 009	REVISION C1	SHEET NO. 9	FILE NAME 18029.dwg	



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CLIENT:

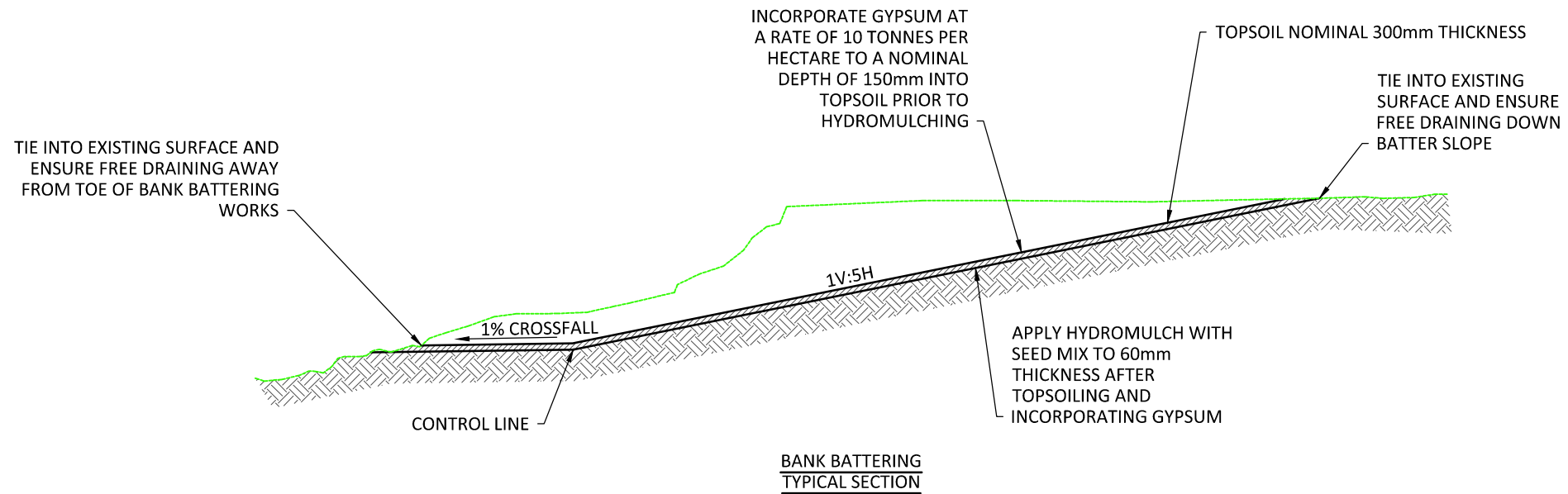


Catchment Solutions

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

**LEGEND**

--- EXISTING SURFACE  
 ——— DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN BANK BATTERING TYPICAL SECTIONS					
SCALE @ A3 1:250	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 010	REVISION C1	SHEET NO. 10	FILE NAME 18029.dwg	


  
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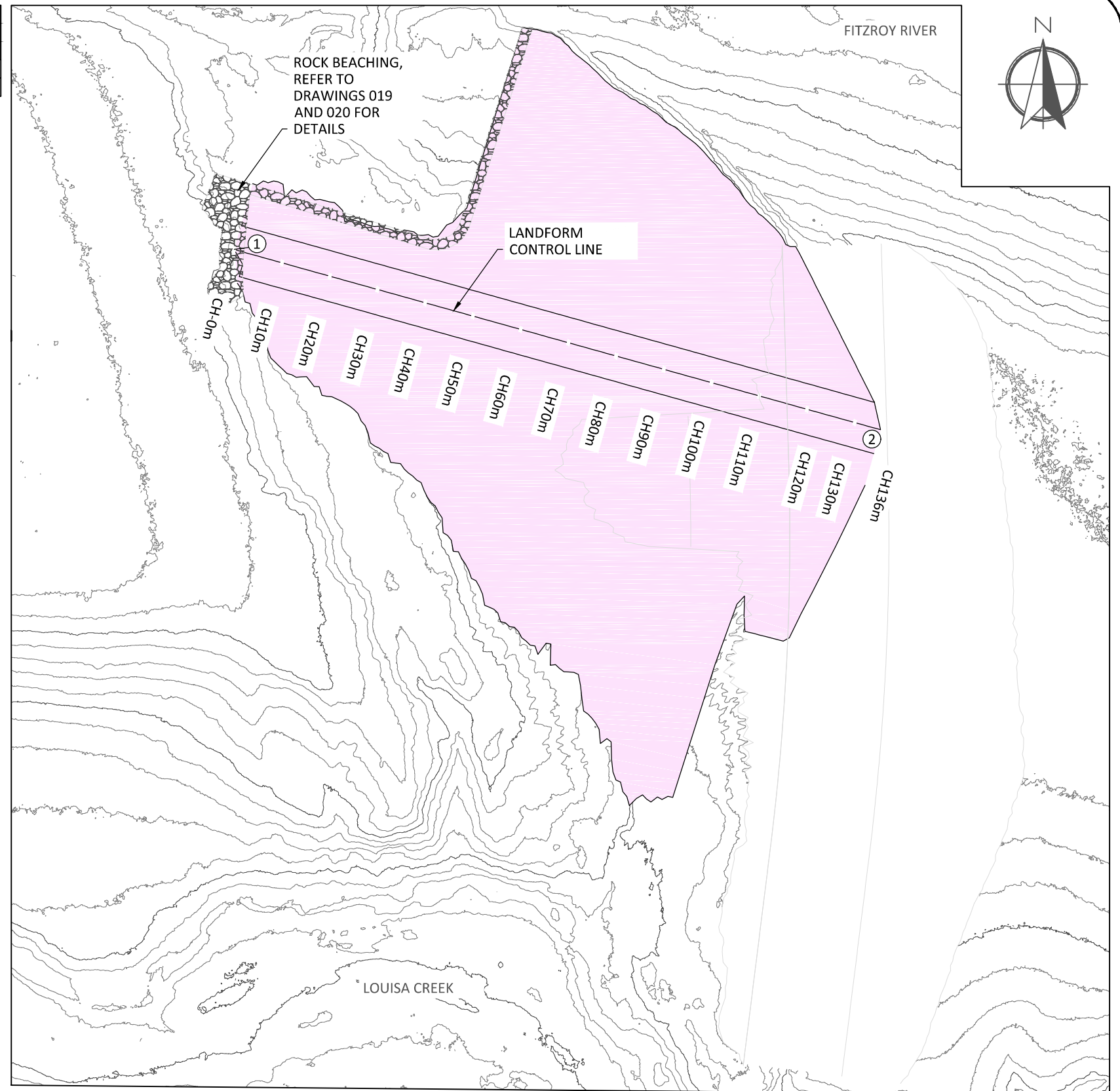
CLIENT:


  
**Catchment**  
 Solutions

REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

STATUS: **FOR CONSTRUCTION**

LANDFORM SETOUT POINTS								
SETOUT NO.	TYPE	STATION	EASTING	NORTHING	BEARING			RADIUS
					DEG	MIN	SEC	
1	START	0	221437	7439185	105	35	3.1	
2	END	135.841	221568	7439149	105	35	3.1	



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM PLAN & SETOUT					
SCALE @ A3 1:1000	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 011	REVISION C1	SHEET NO. 11	FILE NAME 18029.dwg	


  
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 Catchment  
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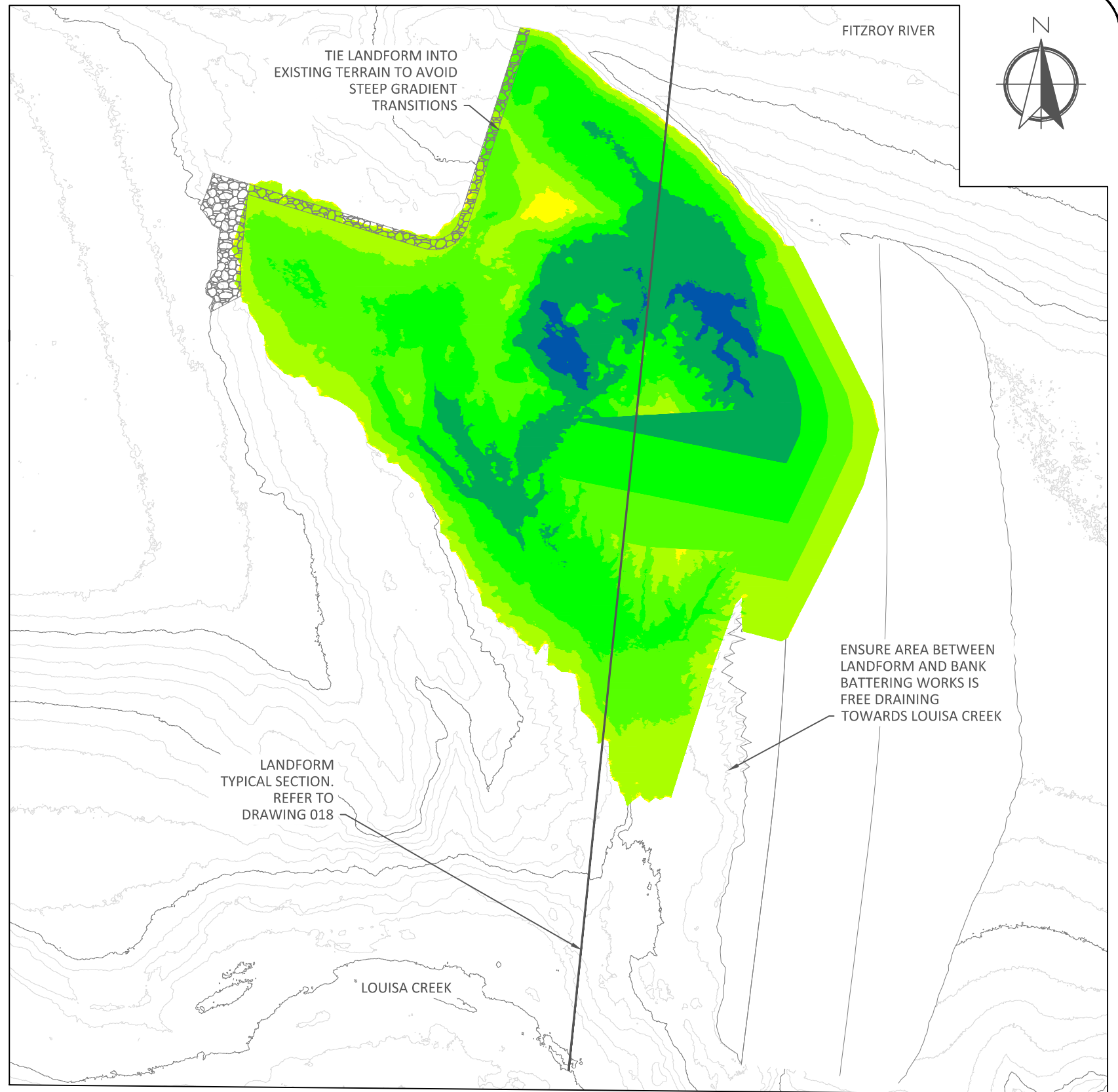
REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

STATUS: **FOR CONSTRUCTION**

**LEGEND**

	ROCK BEACHING
	BANK BATTERING
	LANDFORM
	FARM DAM
	ROCK CHUTE SPILLWAY

CUT / FILL EARTHWORKS		
MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
-10.0	-9.0	Red
-9.0	-8.0	Red-Orange
-8.0	-7.0	Orange
-7.0	-6.0	Orange-Yellow
-6.0	-5.0	Yellow-Orange
-5.0	-4.0	Yellow
-4.0	-3.0	Yellow-Green
-3.0	-2.0	Yellow
-2.0	-1.0	Yellow-Green
-1.0	0.0	Light Green
0.0	1.0	Light Green
1.0	2.0	Light Green
2.0	3.0	Light Green
3.0	4.0	Light Green
4.0	5.0	Light Green
5.0	6.0	Light Green



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CUT & FILL					
SCALE @ A3 1:1000	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 012	REVISION C1	SHEET NO. 12	FILE NAME 18029.dwg	


  
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REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

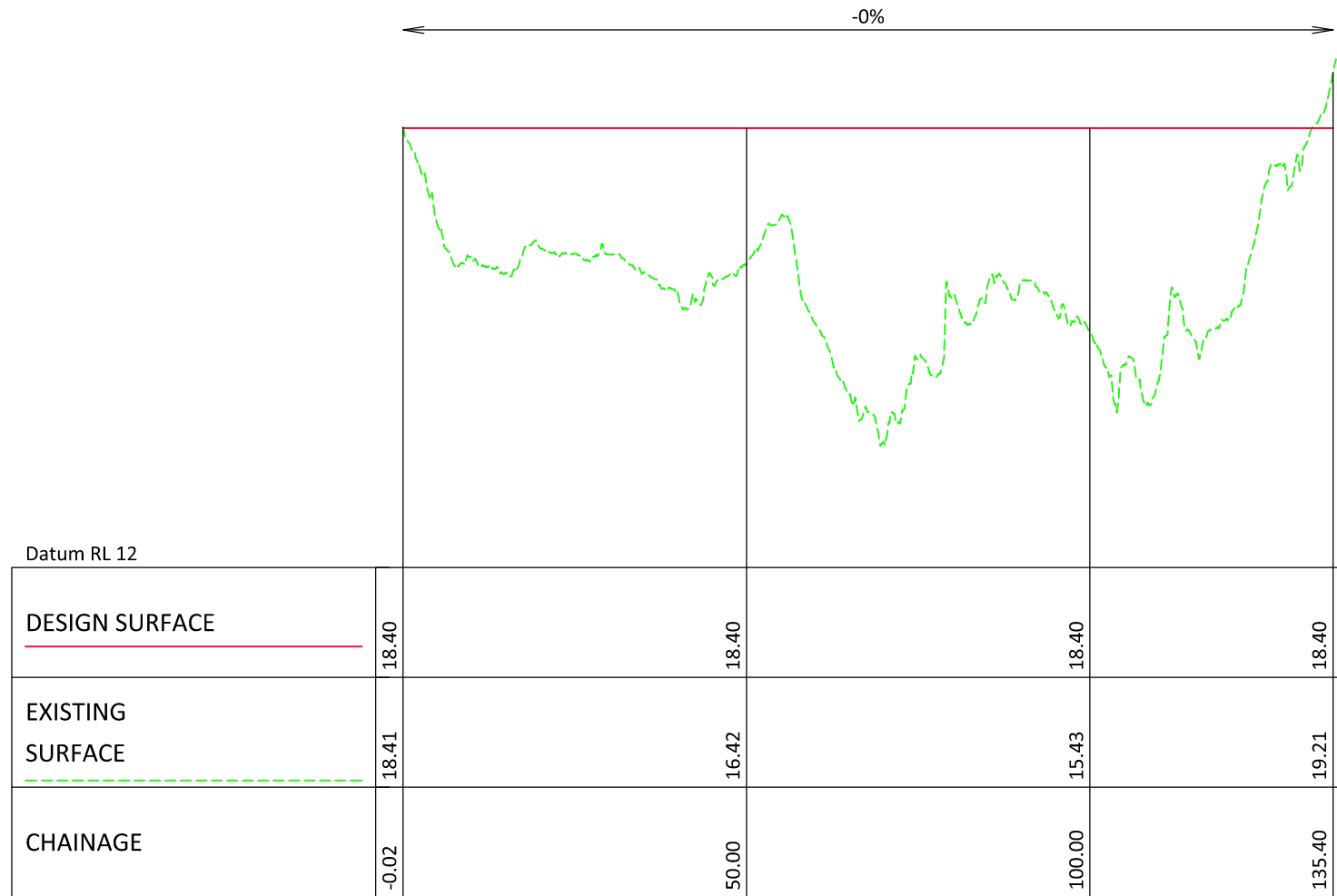
STATUS: **FOR CONSTRUCTION**

**SCALES:**

HORIZONTAL 1:1000  
 VERTICAL 1:100

**LEGEND**

--- EXISTING SURFACE  
 --- DESIGN SURFACE



Datum RL 12	
DESIGN SURFACE	18.40
EXISTING SURFACE	18.41
CHAINAGE	-0.02
	50.00
	100.00
	135.40

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CONTROL LINE LONGITUDINAL SECTION					
SCALE @ A3 1:200	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 013	REVISION C1	SHEET NO. 13	FILE NAME 18029.dwg	


  
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**Catchment**  
 Solutions

REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

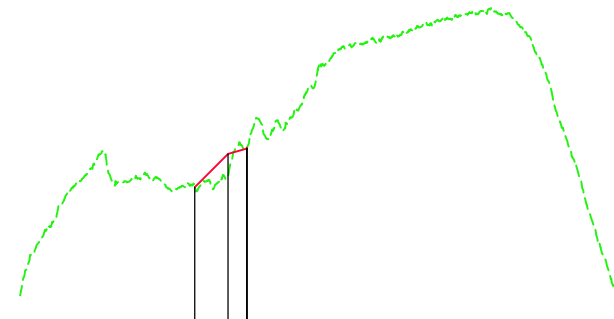
STATUS: **FOR CONSTRUCTION**

SCALES:

HORIZONTAL 1:2000  
VERTICAL 1:200

LEGEND

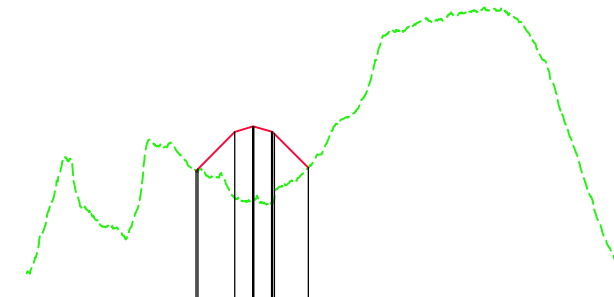
EXISTING SURFACE  
 DESIGN SURFACE



Datum RL 12

DESIGN			17.37	18.25	18.40	18.40	18.40
EXISTING SURFACE		17.37	17.66	18.40	18.40	18.40	
CENTRELINE OFFSET		-13.82	-5.00	0.00	0.00	0.00	

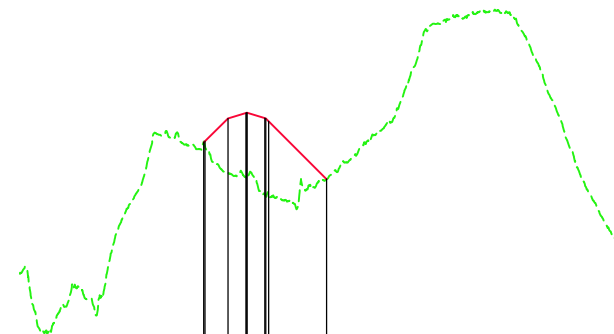
CH 0.00m



Datum RL 12

DESIGN			17.22	17.27	18.25	18.39	18.40	18.40	18.26	18.25	18.20	17.30
EXISTING SURFACE		17.22	17.20	16.50	16.48	16.49	16.49	16.35	16.36	16.50	17.30	
CENTRELINE OFFSET		-15.27	-14.76	-5.00	-0.25	0.00	0.00	4.75	5.00	5.50	14.47	

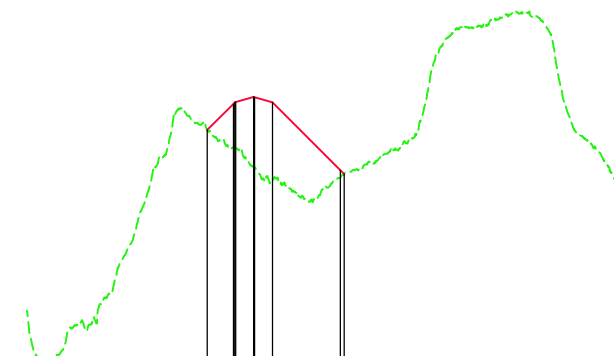
CH 10.00m



Datum RL 11

DESIGN			17.61	17.64	18.25	18.39	18.40	18.40	18.26	18.25	18.17	16.64
EXISTING SURFACE		17.62	17.52	16.81	16.69	16.64	16.64	16.22	16.19	16.21	16.64	
CENTRELINE OFFSET		-11.44	-11.09	-5.00	-0.25	0.00	0.00	4.75	5.00	5.79	21.11	

CH 20.00m



Datum RL 10

DESIGN			17.52	18.21	18.25	18.26	18.40	18.40	18.39	18.25	16.45	16.36
EXISTING SURFACE		17.52	17.05	17.04	17.03	16.56	16.56	16.53	16.22	16.25	16.36	
CENTRELINE OFFSET		-12.28	-5.35	-5.00	-4.75	0.00	0.00	0.25	5.00	22.95	23.91	

CH 30.00m

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CROSS SECTIONS					
SCALE @ A3 1:200	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 014	REVISION C1	SHEET NO. 14	FILE NAME 18029.dwg	

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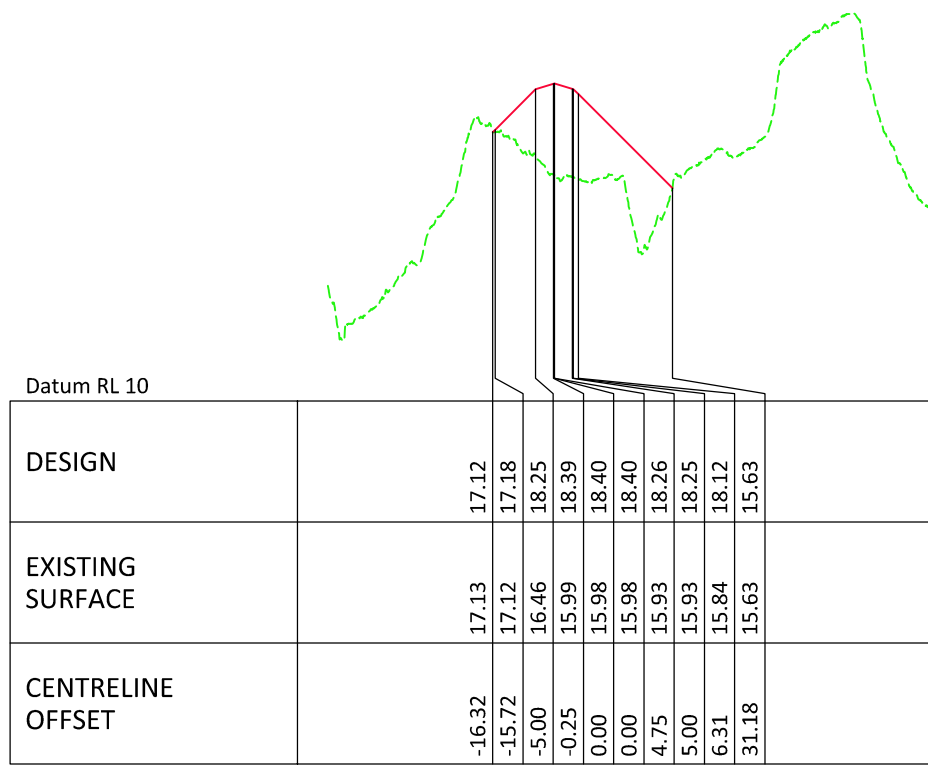
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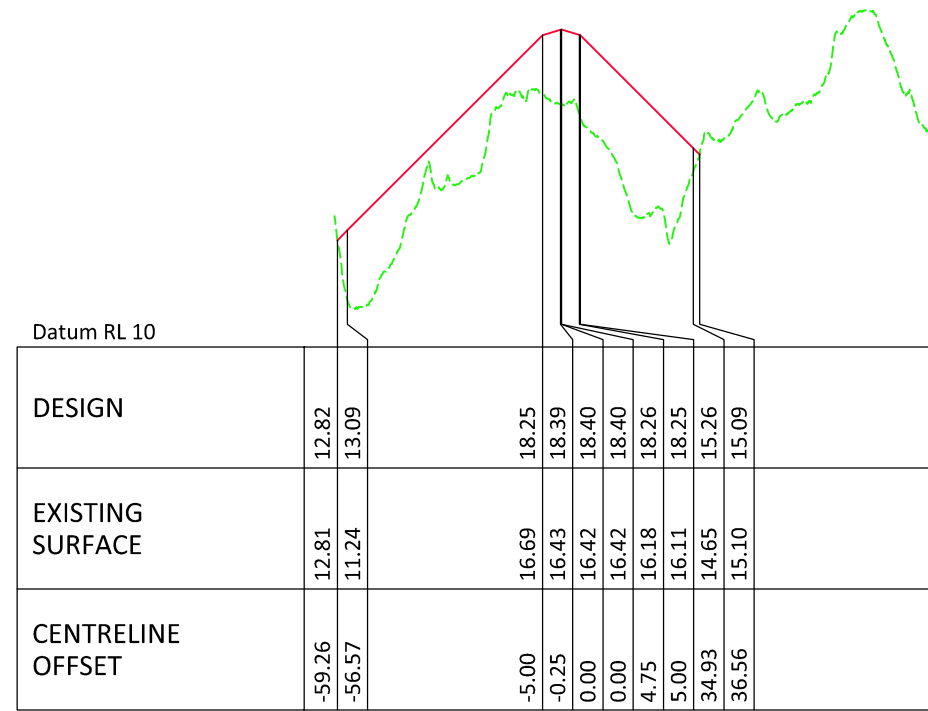
C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

SCALES:  
HORIZONTAL 1:2000  
VERTICAL 1:200

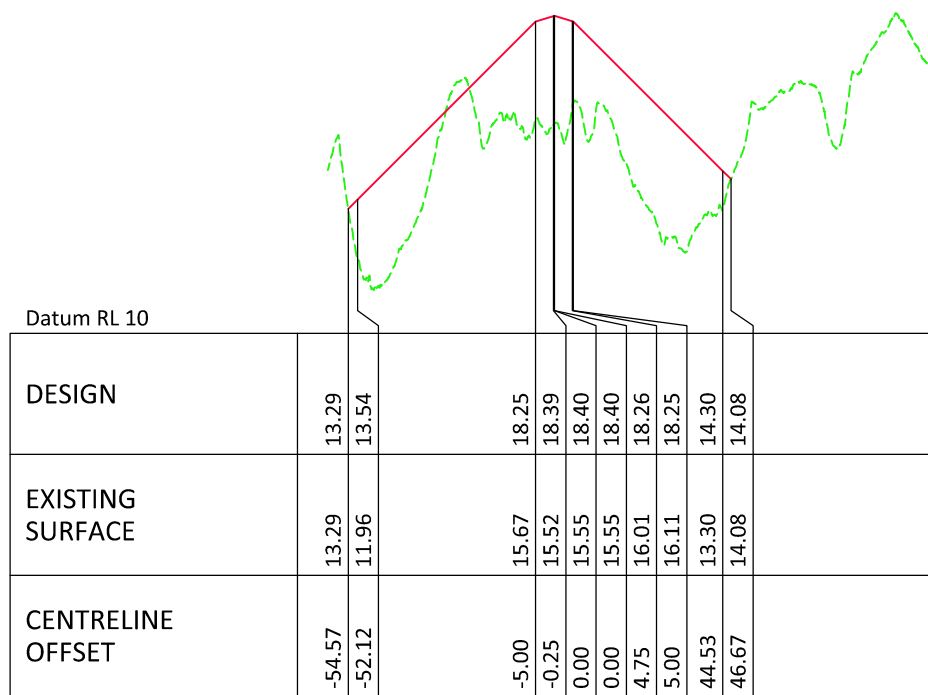
LEGEND  
--- EXISTING SURFACE  
--- DESIGN SURFACE



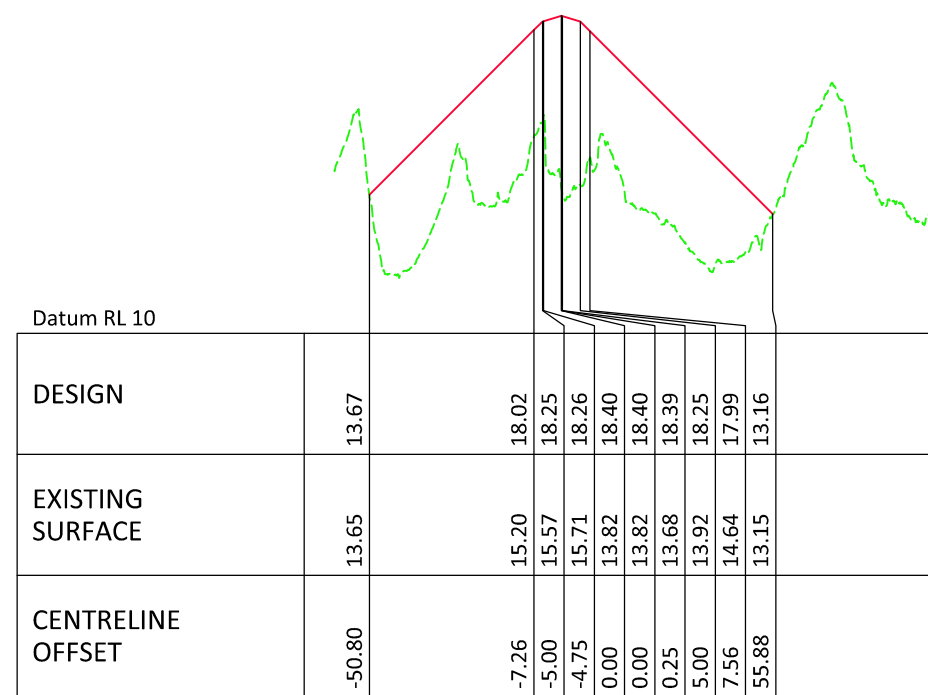
CH 40.00m



CH 50.00m



CH 60.00m



CH 70.00m

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CROSS SECTIONS					
SCALE @ A3 -	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 015	REVISION C1	SHEET NO. 15	FILE NAME 18029.dwg	

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CLIENT:

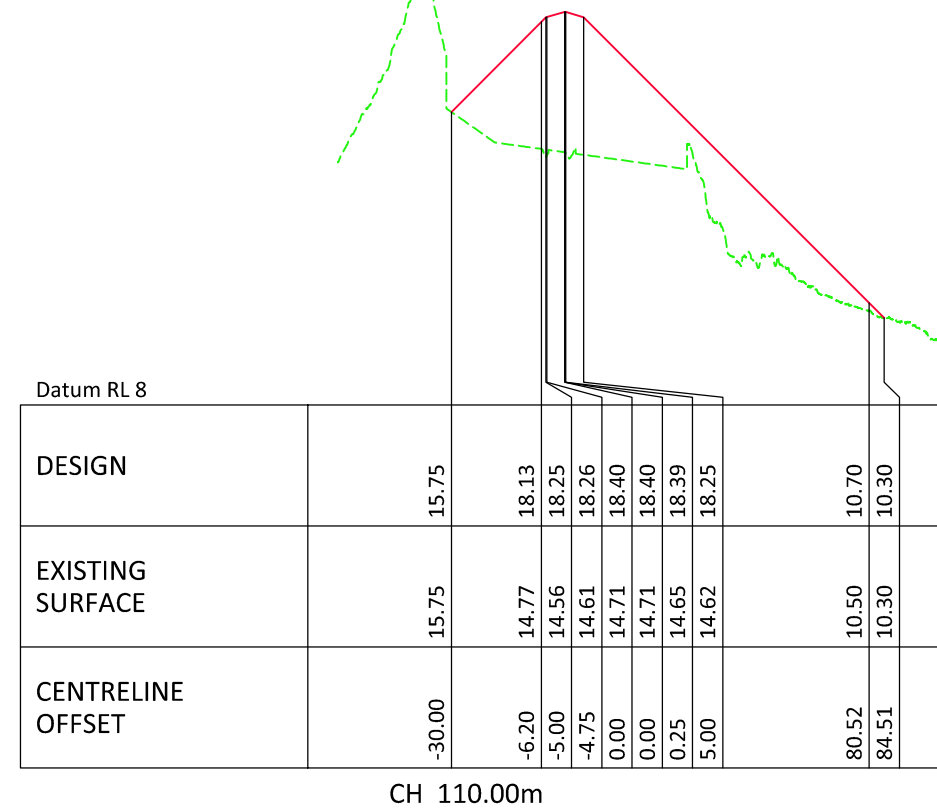
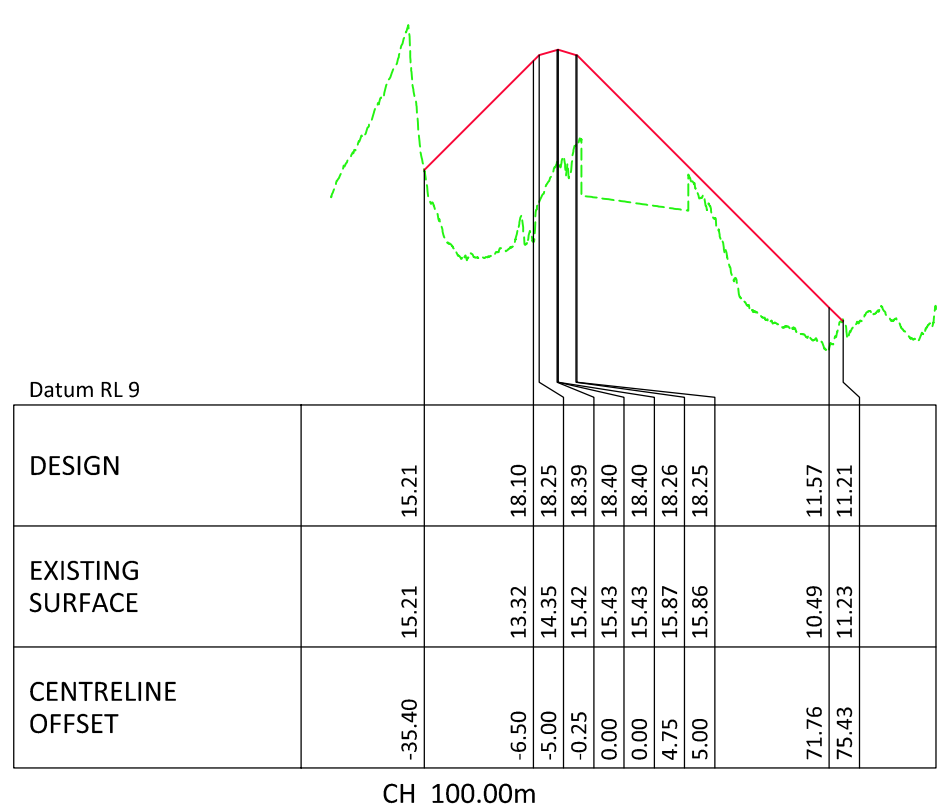
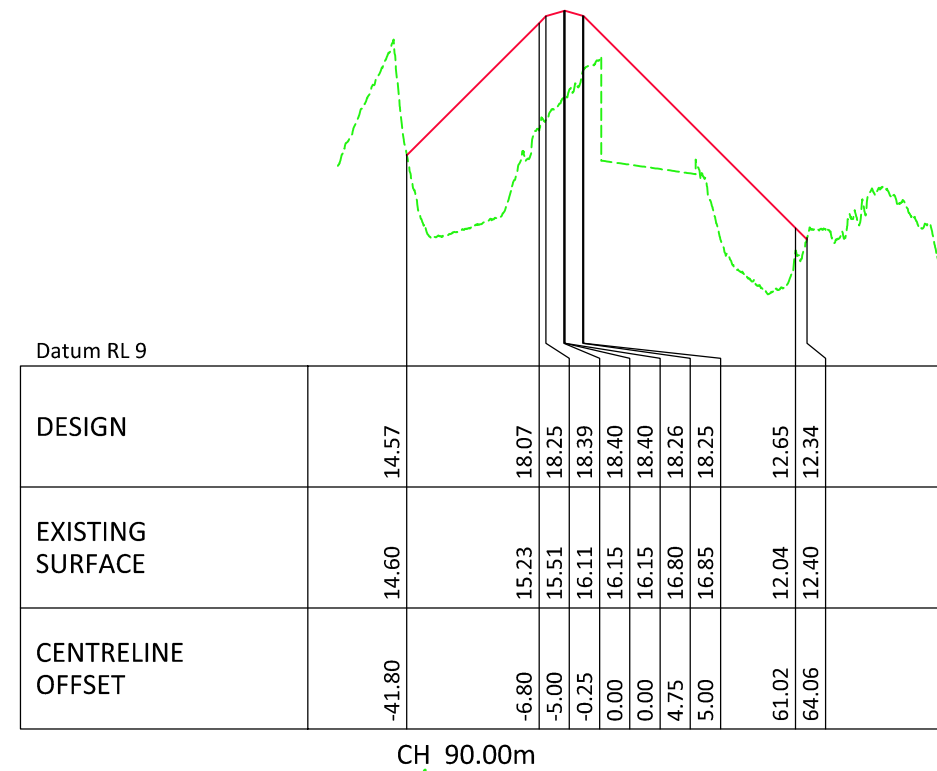
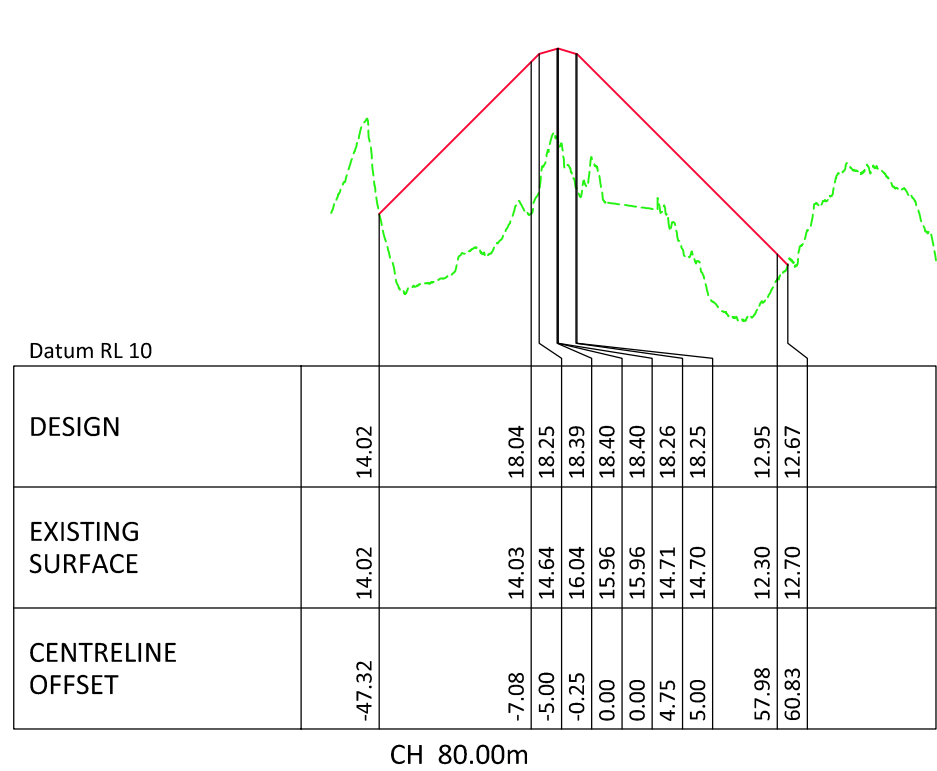
STATUS: <b>FOR CONSTRUCTION</b>			
REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

**SCALES:**

HORIZONTAL 1:2000  
VERTICAL 1:200

**LEGEND**

--- EXISTING SURFACE  
— DESIGN SURFACE



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CROSS SECTIONS					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	016	C1	16	18029.dwg	



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CLIENT: 

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

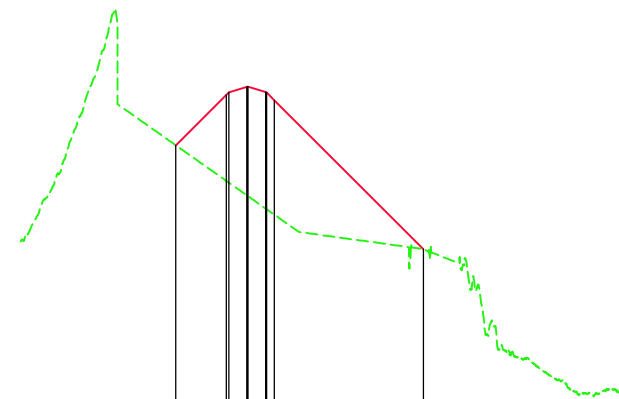


**SCALES:**

HORIZONTAL 1:2000  
VERTICAL 1:200

**LEGEND**

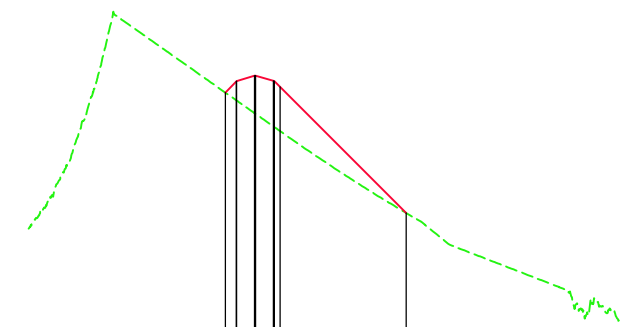
- - - EXISTING SURFACE
- DESIGN SURFACE



Datum RL 9

DESIGN		16.85	18.19	18.25	18.39	18.40	18.40	18.26	18.25	18.04	14.10
EXISTING SURFACE		16.85	15.91	15.86	15.53	15.51	15.51	15.18	15.16	15.01	14.10
CENTRELINE OFFSET		-19.00	-5.65	-5.00	-0.25	0.00	0.00	4.75	5.00	7.07	46.51

CH 120.00m



Datum RL 10

DESIGN		17.95	18.24	18.25	18.39	18.40	18.40	18.26	18.25	18.10	14.77
EXISTING SURFACE		17.95	17.75	17.74	17.41	17.39	17.39	17.05	17.04	16.93	14.77
CENTRELINE OFFSET		-7.99	-5.10	-5.00	-0.25	0.00	0.00	4.75	5.00	6.51	39.83

CH 130.00m

SITE: <b>COLLINSDALE STATION</b>					
TITLE: <b>REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM CROSS SECTIONS</b>					
SCALE @ A3 -	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 017	REVISION C1	SHEET NO. 17	FILE NAME 18029.dwg	



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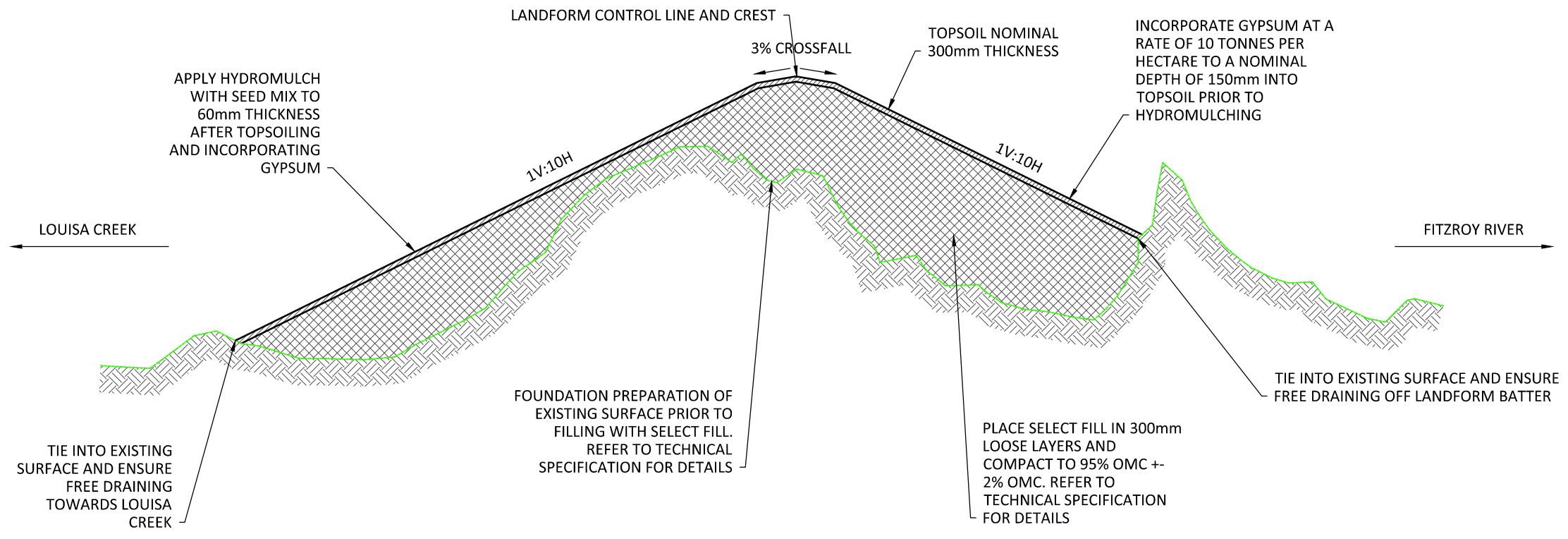
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CLIENT: 

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b style="border: 2px solid red; padding: 5px;">FOR CONSTRUCTION</b>			

**LEGEND**

- EXISTING SURFACE
- DESIGN SURFACE
- SELECT FILL



LANDFORM TYPICAL SECTION

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN LANDFORM TYPICAL SECTIONS					
SCALE @ A3 1:200	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 018	REVISION C1	SHEET NO. 18	FILE NAME 18029.dwg	



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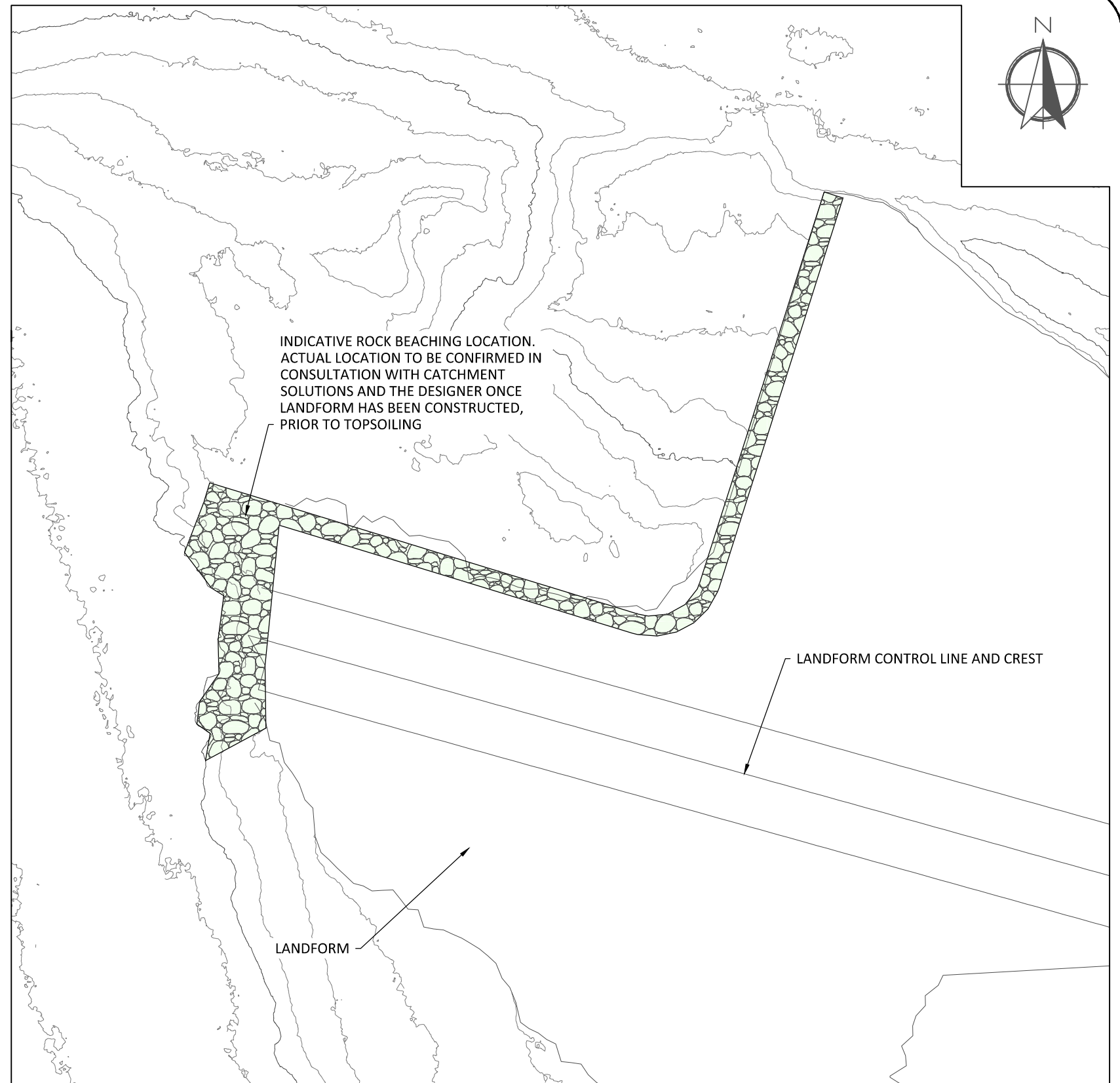
M 0428 104 007 E adam@neillygroup.com.au

CLIENT:



C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <span style="border: 2px solid red; padding: 5px; font-weight: bold; color: red;">FOR CONSTRUCTION</span>			

ROCK BEACHING SPECIFICATION TABLE		
ELEMENT	UNITS	VALUE
ROCK PROTECTION AREA	m <sup>2</sup>	341
SIZE OF QUARRY ROCK PROTECTION, D50	mm	500
QUARRY ROCK PROTECTION THICKNESS	m	1
QUANTITY OF QUARRY ROCK REQUIRED FOR ROCK PROTECTION (ASSUMED DENSITY 2.1 TONNES/m <sup>3</sup> )	m <sup>3</sup>	341
	tonnes	716



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN ROCK BEACHING PLAN					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	019	C1	19	18029.dwg	

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CLIENT:

REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

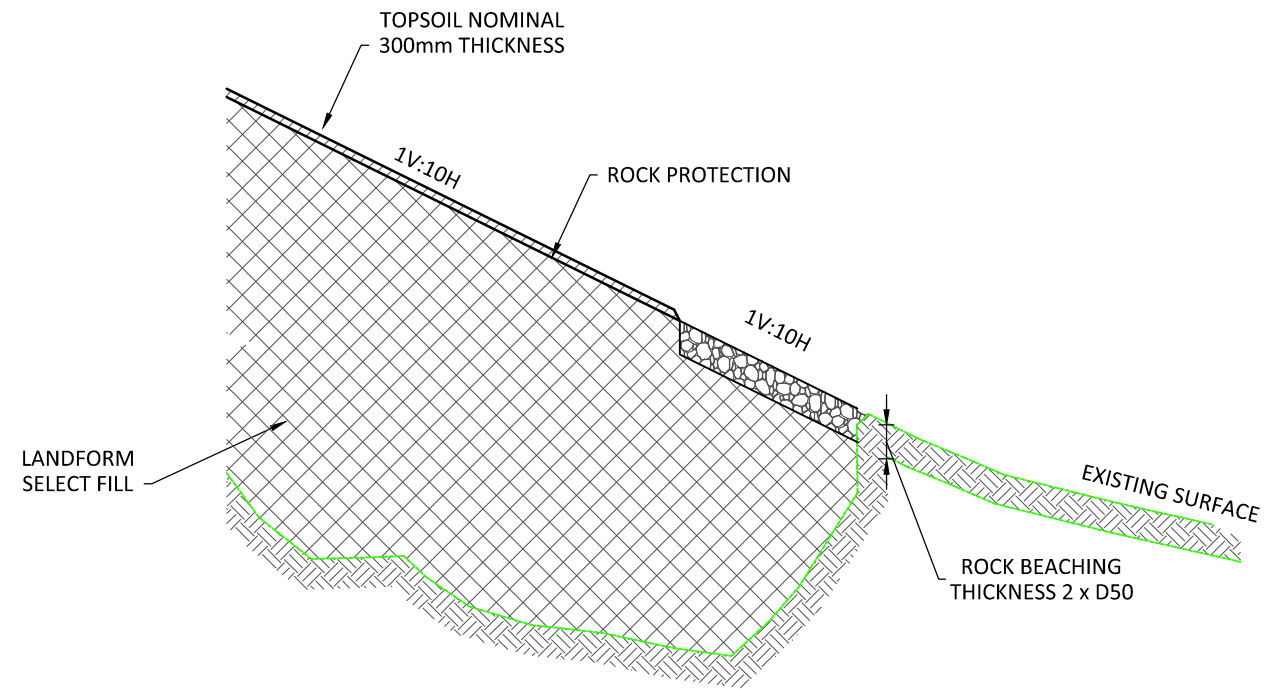
STATUS: **FOR CONSTRUCTION**

**LEGEND**

	ROCK BEACHING
	BANK BATTERING
	LANDFORM
	FARM DAM
	ROCK CHUTE SPILLWAY

**LEGEND**

-  EXISTING SURFACE
-  DESIGN SURFACE
-  QUARRY ROCK
-  TOPSOIL
-  SELECT FILL



**ROCK BEACHING TYPICAL SECTION**

SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN ROCK BEACHING TYPICAL SECTIONS					
SCALE @ A3 1:500	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 020	REVISION C1	SHEET NO. 20	FILE NAME 18029.dwg	



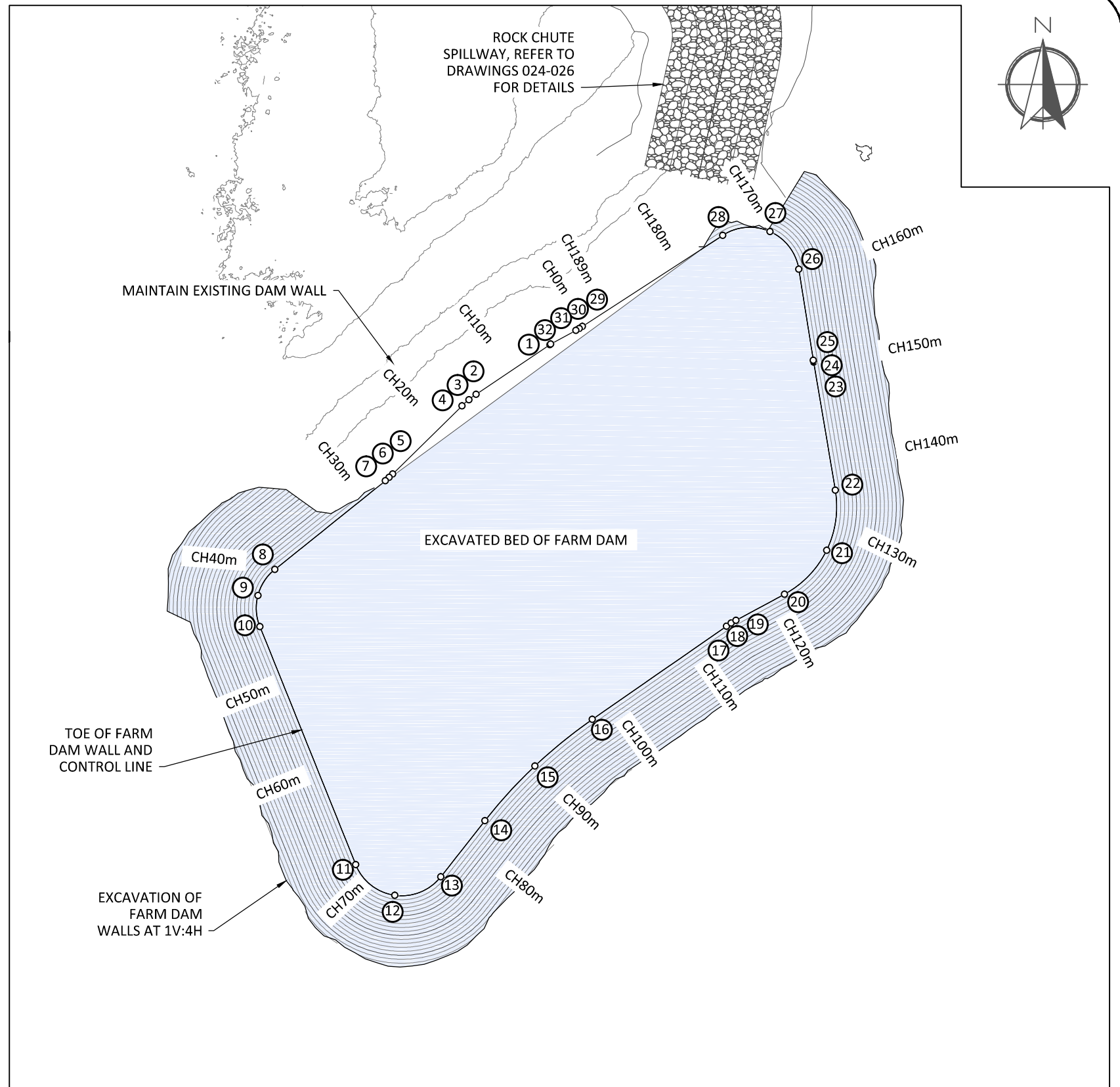
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CLIENT: 

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

DAM SETOUT POINTS								
SETOUT NO.	TYPE	STATION	EASTING	NORTHING	BEARING			RADIUS
					DEG	MIN	SEC	
1	START	0.079	221630	7437943	236	0	48	
2	T.P	9.033	221622	7437938	236	0	48	
3	CENTRE		221628	7437930				-10
4	T.P	10.865	221621	7437937	225	30	46.3	
5	T.P	20.657	221614	7437930	225	30	46.3	
6	CENTRE		221607	7437937				10
7	T.P	21.652	221613	7437929	231	13	4.1	
8	T.P	35.923	221602	7437920	231	13	4.1	
9	CENTRE		221605	7437917				-5
10	T.P	42.307	221601	7437915	158	3	25.9	
11	T.P	68.133	221610	7437891	158	3	25.9	
12	CENTRE		221615	7437893				-5
13	T.P	78.598	221619	7437890	38	8	20.1	
14	T.P	85.785	221623	7437895	38	8	20.1	
15	CENTRE		221663	7437864				50
16	T.P	100.707	221634	7437905	55	14	17.5	
17	T.P	117.153	221648	7437915	55	14	17.5	
18	CENTRE		221653	7437907				10
19	T.P	118.281	221649	7437915	61	41	53.3	
20	T.P	123.831	221653	7437918	61	41	53.3	
21	CENTRE		221649	7437927				-10
22	T.P	136.28	221659	7437928	350	22	12.4	
23	T.P	149.349	221656	7437941	350	22	12.4	
24	CENTRE		221676	7437945				20
25	T.P	149.546	221656	7437942	350	56	0.6	
26	T.P	158.824	221655	7437951	350	56	0.6	
27	CENTRE		221650	7437950				-5
28	T.P	168.765	221647	7437954	237	0	32.7	
29	T.P	185.615	221633	7437945	237	0	32.7	
30	CENTRE		221628	7437953				10
31	T.P	186.38	221632	7437945	241	23	36.3	
32	END	189.275	221630	7437943	241	23	36.3	



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN FARM DAM PLANVIEW & SETOUT					
SCALE @ A3 1:500	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 021	REVISION C1	SHEET NO. 21	FILE NAME 18029.dwg	

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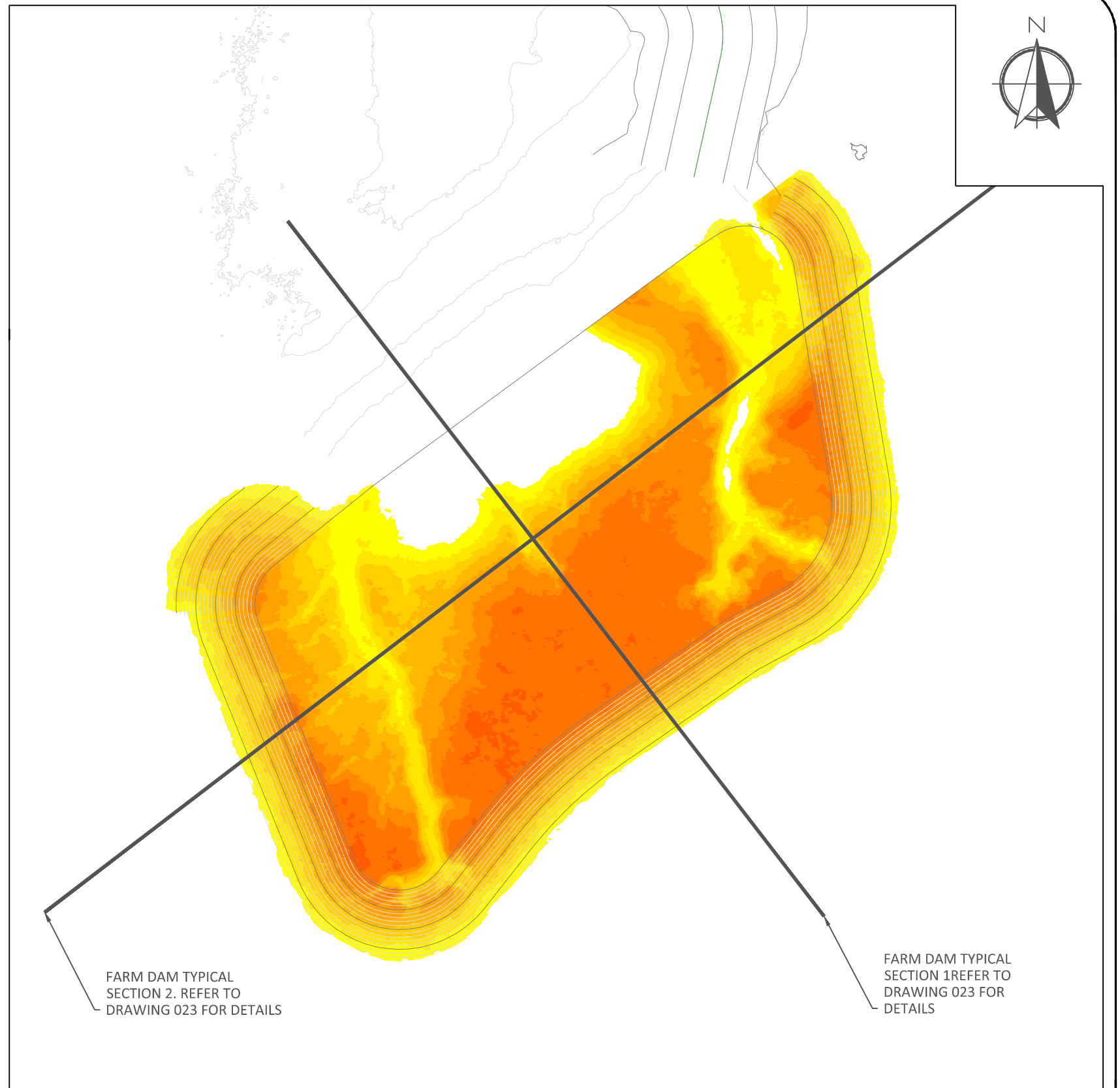
CLIENT: **Catchment Solutions**

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

LEGEND

	ROCK BEACHING
	BANK BATTERING
	LANDFORM
	FARM DAM
	ROCK CHUTE SPILLWAY

CUT / FILL EARTHWORKS		
MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
-3.00	-2.75	
-2.75	-2.50	
-2.50	-2.25	
-2.25	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN FARM DAM CUT & FILL					
SCALE @ A3 1:500	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 022	REVISION C1	SHEET NO. 22	FILE NAME 18029.dwg	


  
**NEILLY GROUP**  
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CLIENT:

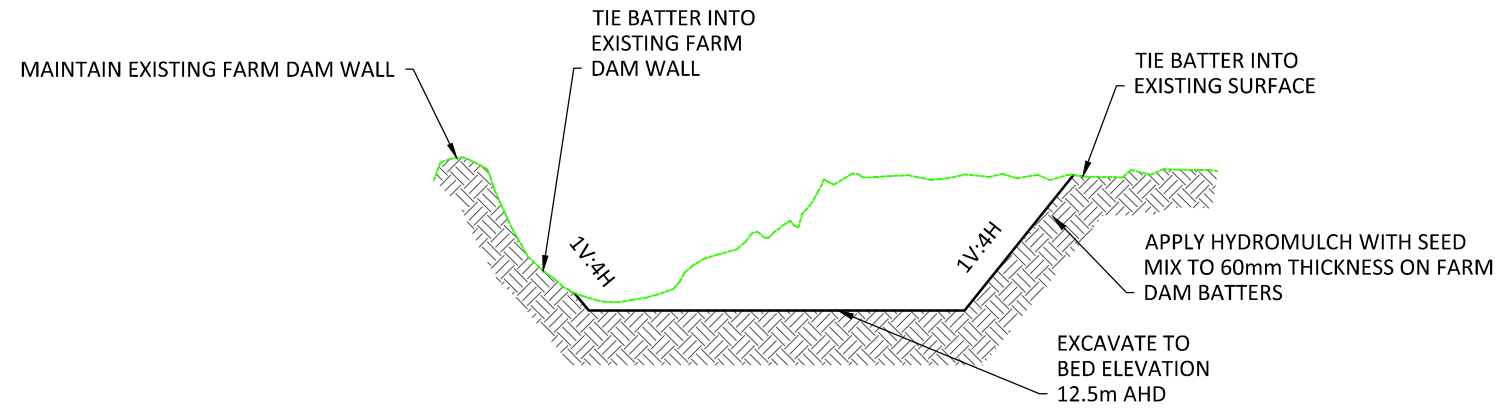

  
**Catchment**  
 Solutions

REV	DESCRIPTION	DATE	APPRVD
C1	FOR CONSTRUCTION	01/04/19	AN

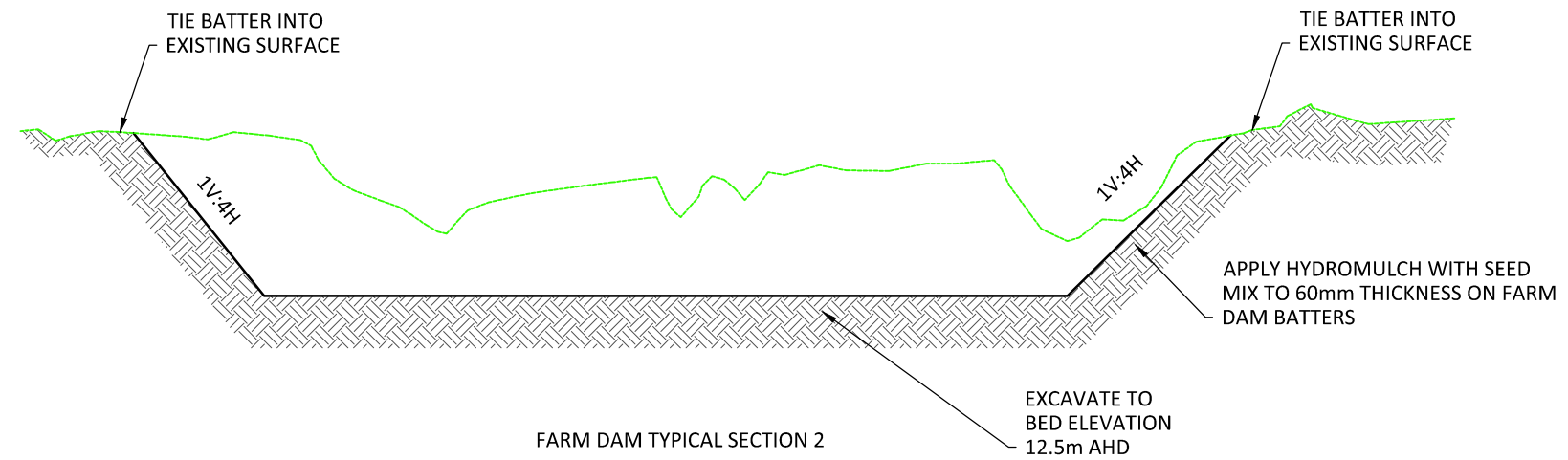
STATUS: **FOR CONSTRUCTION**

**LEGEND**

--- EXISTING SURFACE  
 ——— DESIGN SURFACE



FARM DAM TYPICAL SECTION 1



FARM DAM TYPICAL SECTION 2

SITE:  
 COLLINSDALE STATION  
 TITLE:  
 REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
 FARM DAM CROSS SECTIONS

SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	023	C1	23	18029.dwg	

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CLIENT:

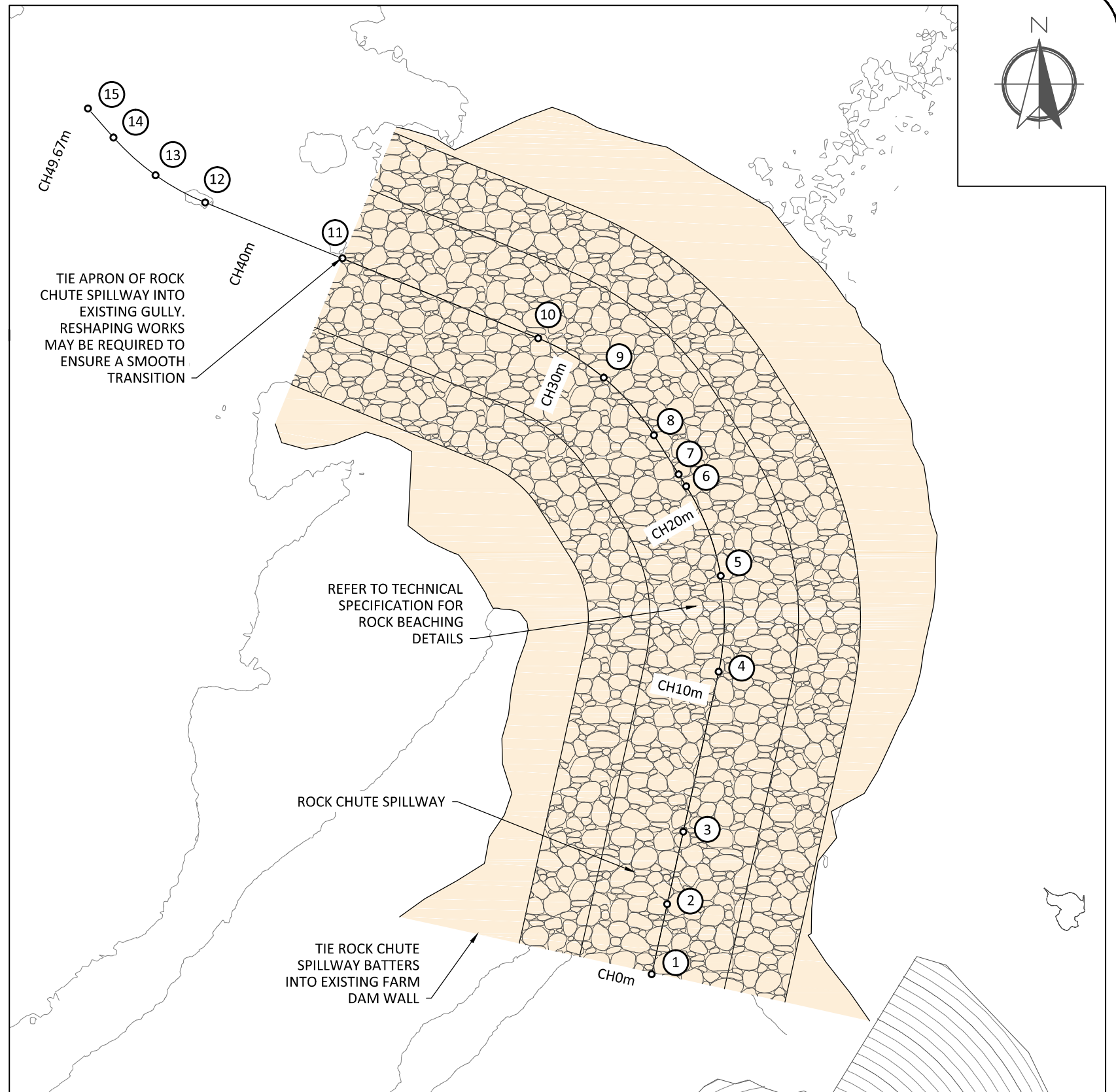


C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD

STATUS:

**FOR CONSTRUCTION**

SPILLWAY SETOUT POINTS								
SETOUT NO.	TYPE	STATION	EASTING	NORTHING	BEARING			RADIUS
					DEG	MIN	SEC	
1	START	0	221645	7437960	12	29	24.6	
2	CREST START	2.906	221645	7437963	12	29	24.6	
3	CREST END	5.906	221646	7437966	12	29	24.6	
4	T.P	12.526	221647	7437972	12	29	24.6	
5	CENTRE		221638	7437974				-10
6	T.P	20.344	221646	7437980	327	41	47.6	
7	APRON START	20.906	221646	7437980	327	41	47.6	
8	T.P	22.789	221645	7437982	327	41	47.6	
9	CENTRE		221636	7437976				-10
10	T.P	28.984	221640	7437986	292	11	58.2	
11	APRON END	37.536	221632	7437989	292	11	58.2	
12	T.P	43.531	221627	7437991	292	11	58.2	
13	CENTRE		221630	7438000				10
14	T.P	48.113	221623	7437994	318	27	2.9	
15	END	49.677	221622	7437995	318	27	2.9	



SITE:  
COLLINSDALE STATION  
TITLE:  
REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN  
ROCK CHUTE SPILLWAY PLANVIEW & SETOUT

SCALE @ A3 1:200	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 024	REVISION C1	SHEET NO. 24	FILE NAME 18029.dwg	

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CLIENT:



C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

LEGEND

- ROCK BEACHING
- BANK BATTERING
- LANDFORM
- FARM DAM
- ROCK CHUTE SPILLWAY

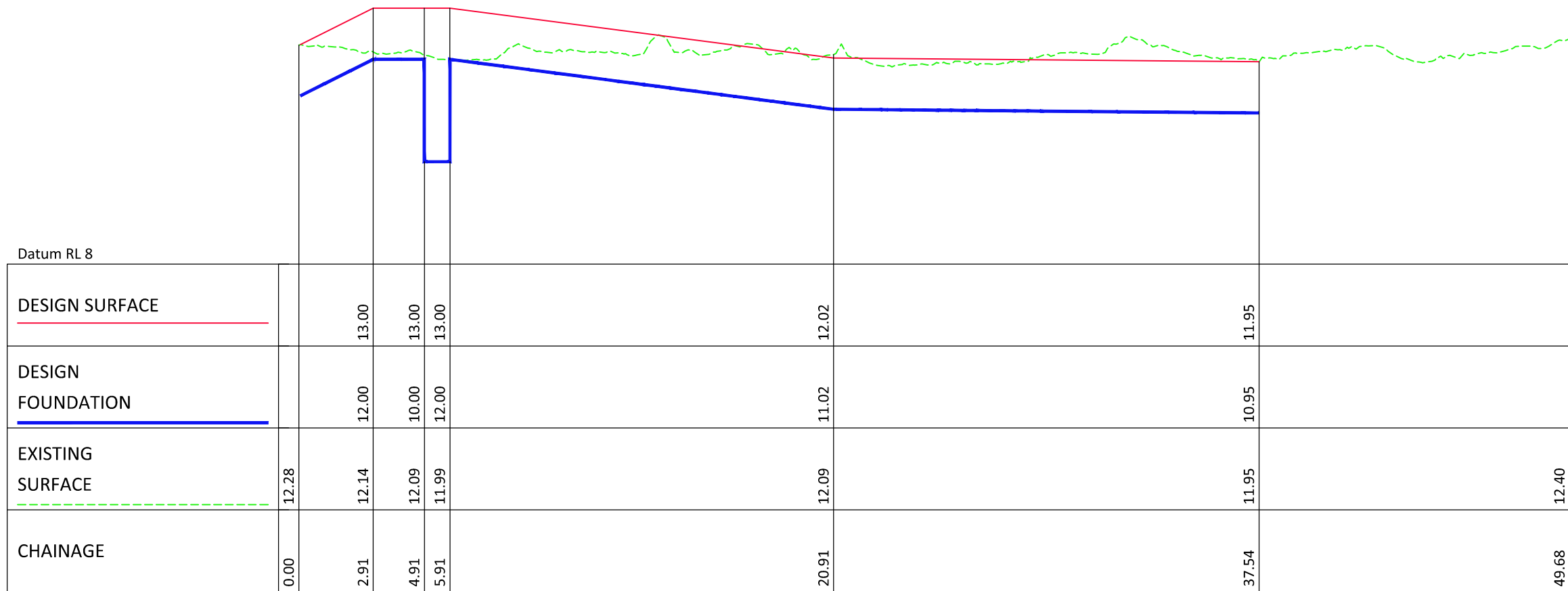
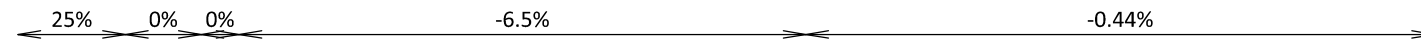


**SCALES:**

HORIZONTAL 1:200  
VERTICAL 1:100

**LEGEND**

- EXISTING SURFACE
- DESIGN SURFACE
- DESIGN FOUNDATION



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN ROCK CHUTE SPILLWAY LONGITUDINAL SECTION					
SCALE @ A3 1:200	DRAWN DATE 28/02/19	DRAWN TB	DESIGNED AN	APPRVD AN	APPRVD DATE 28/02/19
PROJECT NO. 18029	DRAWING NO. 025	REVISION C1	SHEET NO. 25	FILE NAME 18029.dwg	

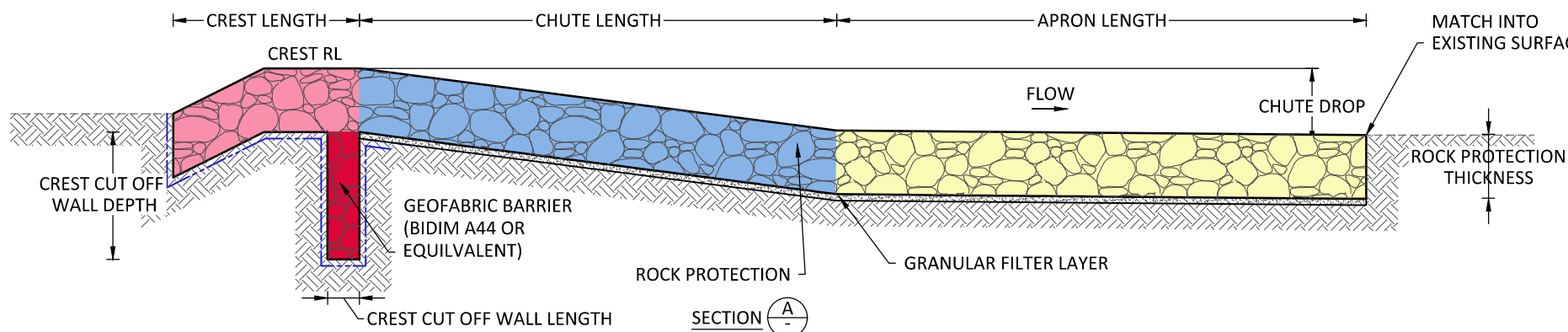
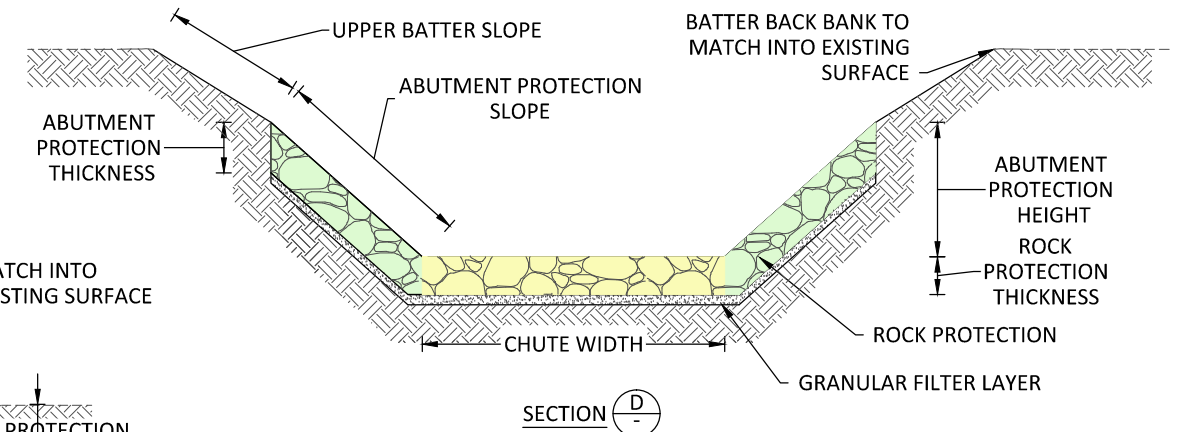
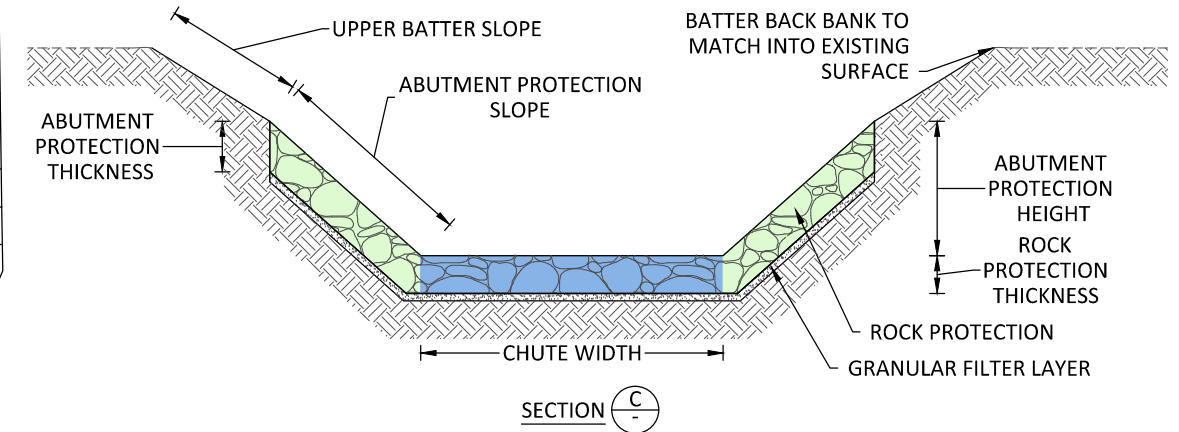
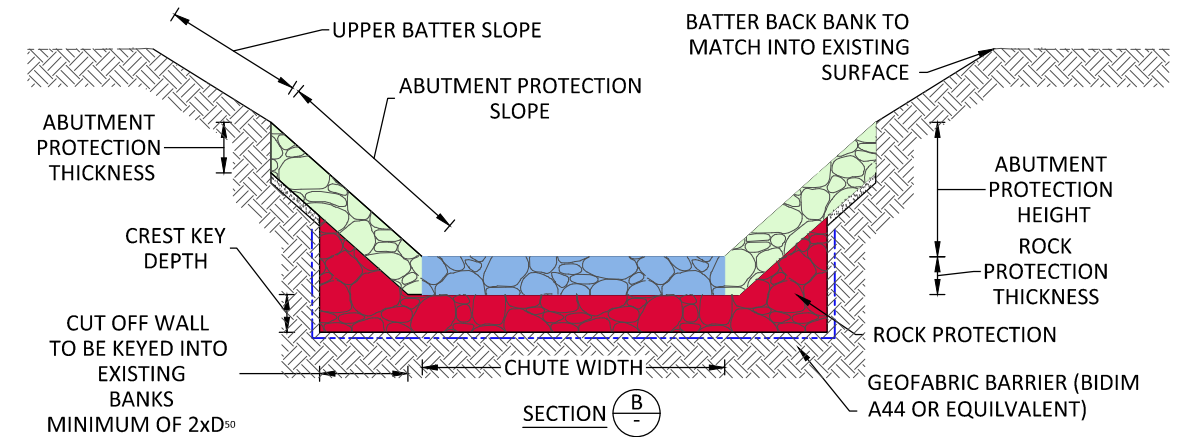
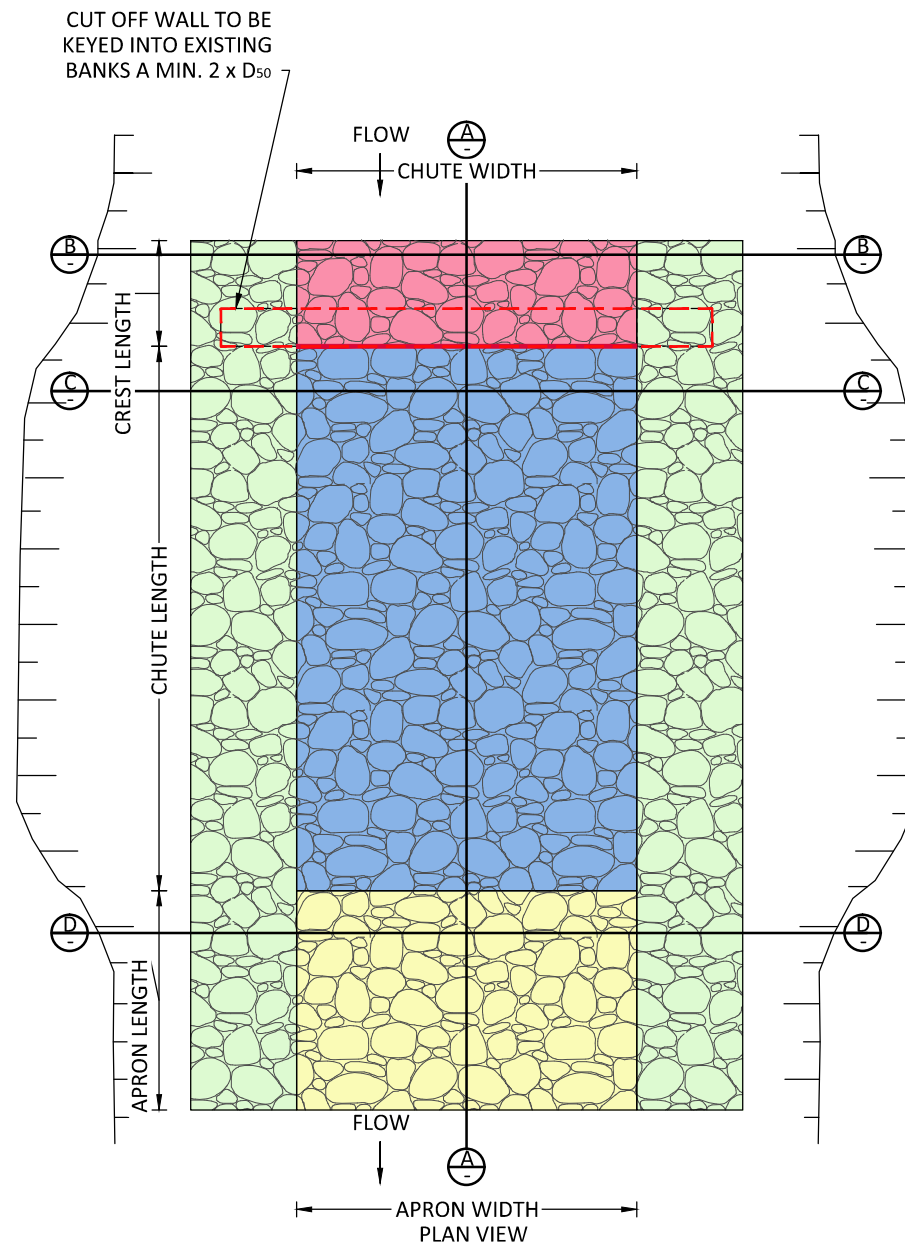
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CLIENT:

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <span style="border: 2px solid red; padding: 5px; font-weight: bold; color: red;">FOR CONSTRUCTION</span>			

ROCK CHUTE SPILLWAY SPECIFICATION TABLE		
CHUTE ELEMENT	UNITS	VALUE
CHUTE LENGTH	m	15
CHUTE DROP	m	1.0
CHUTE WIDTH	m	6
CREST LENGTH	m	3
CREST CUT OFF WALL DEPTH	m	2
CREST CUT OFF WALL LENGTH	m	1
CREST CUT OF WALL WIDTH	m	8
APRON LENGTH	m	16.6
ABUTMENT PROTECTION HEIGHT	m	1
ABUTMENT PROTECTION SLOPE	m/m	1V:2.5H
ABUTMENT PROTECTION THICKNESS	m	1
UPPER BATTER SLOPE	m/m	1V:4H
SIZE OF ROCK PROTECTION, D50	mm	500
ROCK PROTECTION THICKNESS	m	1
QUANTITY OF ROCK REQUIRED FOR ROCK PROTECTION (ASSUMED DENSITY 2.1 TONNES/m <sup>3</sup> )	m <sup>3</sup>	444
	tonnes	932
GRANULAR FILTER MATERIAL SIZE, D50	mm	25
GRANULAR FILTER LAYER THICKNESS	m	0.1
VOLUME OF GRANULAR FILTER MATERIAL	m <sup>3</sup>	43.0
LENGTH OF GEOTEXTILE (4.0 m wide roll)	m	30



SITE: COLLINSDALE STATION					
TITLE: REEF TRUST IV GULLY REMEDIATION DETAIL DESIGN ROCK CHUTE SPILLWAY DETAILS					
SCALE @ A3	DRAWN DATE	DRAWN	DESIGNED	APPRVD	APPRVD DATE
-	28/02/19	TB	AN	AN	28/02/19
PROJECT NO.	DRAWING NO.	REVISION	SHEET NO.	FILE NAME	
18029	026	C1	26	18029.dwg	

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CLIENT: **Catchment Solutions**

C1	FOR CONSTRUCTION	01/04/19	AN
REV	DESCRIPTION	DATE	APPRVD
STATUS: <b>FOR CONSTRUCTION</b>			

LEGEND

CREST	APRON
CREST CUT OFF WALL	RIGHT/LEFT BATTERS
CHUTE FACE	