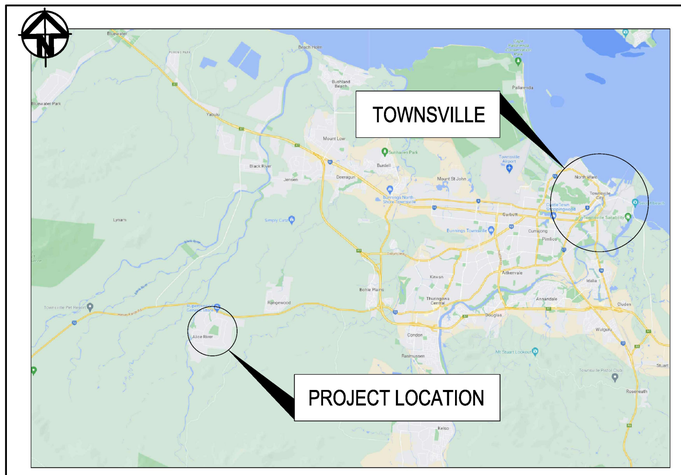
[redacted]

Townsville City Council
Accepted As Constructed
OPW24/0141
5/6/26

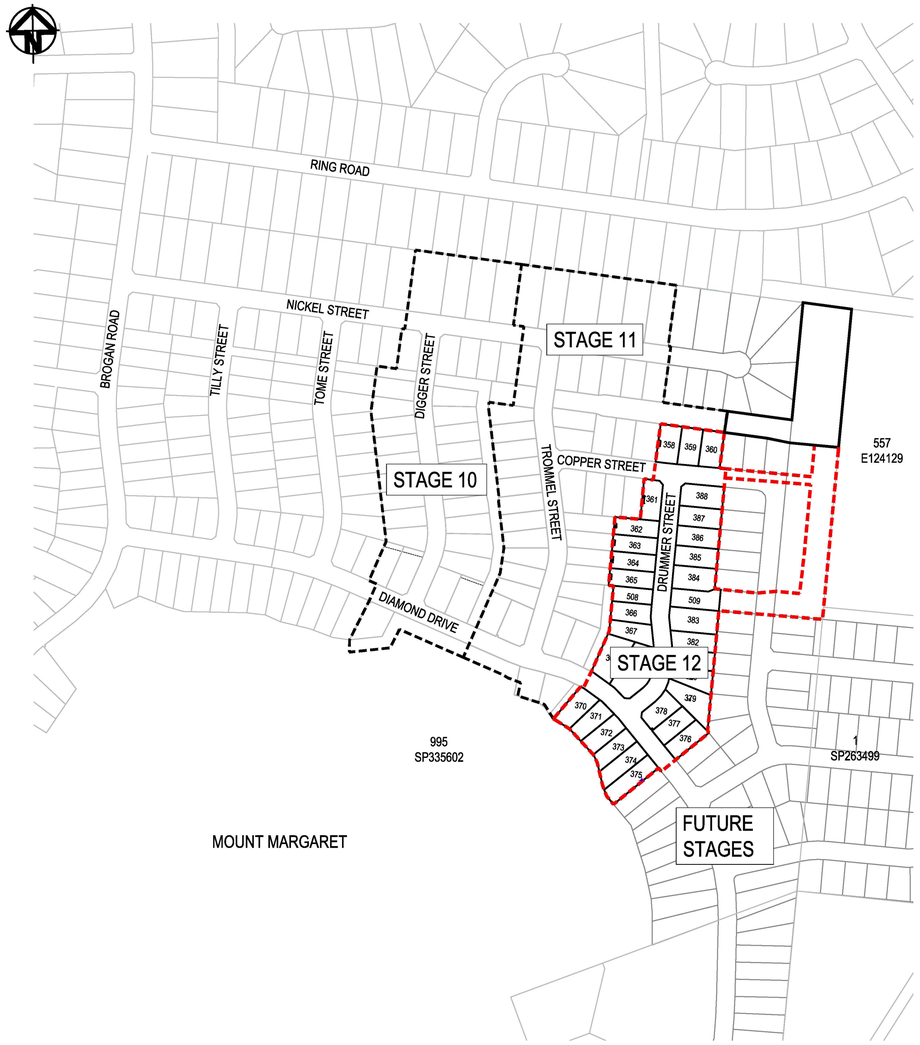
MT MARGARET ESTATE STAGE 12

OPERATIONAL WORKS

ALICE RIVER, QLD 4817



LOCALITY PLAN KEY
NTS



LOCALITY PLAN
1:5000

CIVIL ENGINEERING DRAWINGS		
Sheet Number	Sheet Title	Rev
ASC - C001	LOCALITY PLAN AND DRAWING INDEX	3
ASC - C051	EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 1	1
ASC - C052	EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 2	1
ASC - C053	EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 3	1
ASC - C061	ROADS LONGITUDINAL SECTIONS SHEET 1	1
ASC - C062	ROADS LONGITUDINAL SECTIONS SHEET 2	1
ASC - C063	DRAINAGE CHANNEL LONGITUDINAL SECTION	1
ASC - C071	INTERSECTION SETOUT DETAILS SHEET 1	1
ASC - C072	INTERSECTION SETOUT DETAILS SHEET 2	1
ASC - C401	CULVERT LAYOUT AND LONGITUDINAL SECTIONS	1
ASC - C402	DRAINAGE DETAILS	1
ASC - C601	WATER RETICULATION LAYOUT PLAN	1

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

I, BRETT LANGTREE OF LANGTREE CONSULTING PTY LTD, HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE AS CONSTRUCTED DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.

BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

100 0 100 200 300 400 500m
SCALE 1:5000 @ A1 SCALE 1:10 000 @ A3

AS CONSTRUCTED
22 MAY 2026

REVISIONS

No.	BY	DATE	DESCRIPTION
3	B.S	22.05.26	AS CONSTRUCTED
2	M.V.	20.01.25	FOR CONSTRUCTION
1	J.C.	13.01.25	FOR CONSTRUCTION
0	M.V.	10.10.25	FOR CONSTRUCTION
G	B.L.	06.06.25	APPROVAL ISSUE - SURVEY UPDATE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

CERTIFICATION

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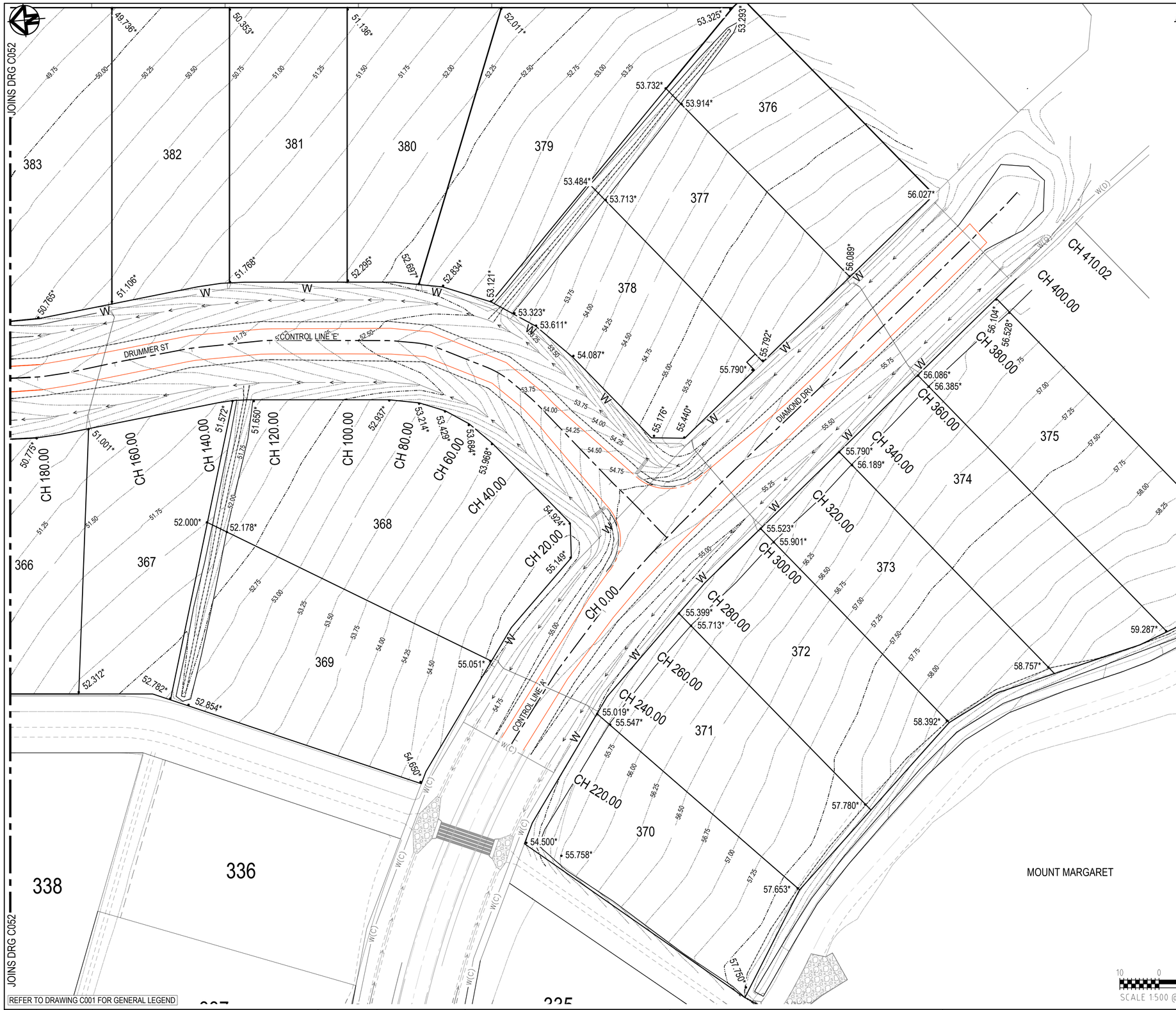
Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

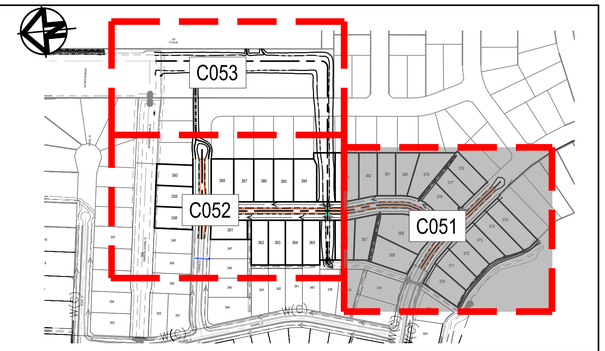
MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817
LOCALITY PLAN AND DRAWING INDEX

SCALE	AS SHOWN
SHEET	1 OF 12
REVISION	B C D E F / G 0 1 2 3
DRG No.	0944 - ASC - C001



REFER TO DRAWING C001 FOR GENERAL LEGEND



KEY PLAN
NTS

Townsville City Council
Accepted As Constructed
OPW24/0141
5/6/26

ASCON LEGEND:

- AS BUILT MINOR CONTOUR
- AS BUILT MAJOR CONTOUR
- • XX.XXX* AS BUILT EARTHWORKS LEVELS
- AS BUILT ROAD SEAL
- CONCRETE INVERT BUILT IN ACCORDANCE WITH TCC STANDARD DRAWING SD-020
- DUMP ROCK SCOUR PROTECTION

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — DATE 22.05.2026

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BRETT LANGTREE (RPEQ No. 11932) — DATE 22.05.2026

10 0 10 20 30 40 50m
SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

AS CONSTRUCTED
22 MAY 2026

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
E	B.L.	06.06.25	APPROVAL ISSUE - CONTOURS UPDATED
D	B.L.	31.03.25	IAD CONTOURS ADDED
C	B.L.	13.12.24	APPROVAL ISSUE - SURFACE LEVELS ADDED

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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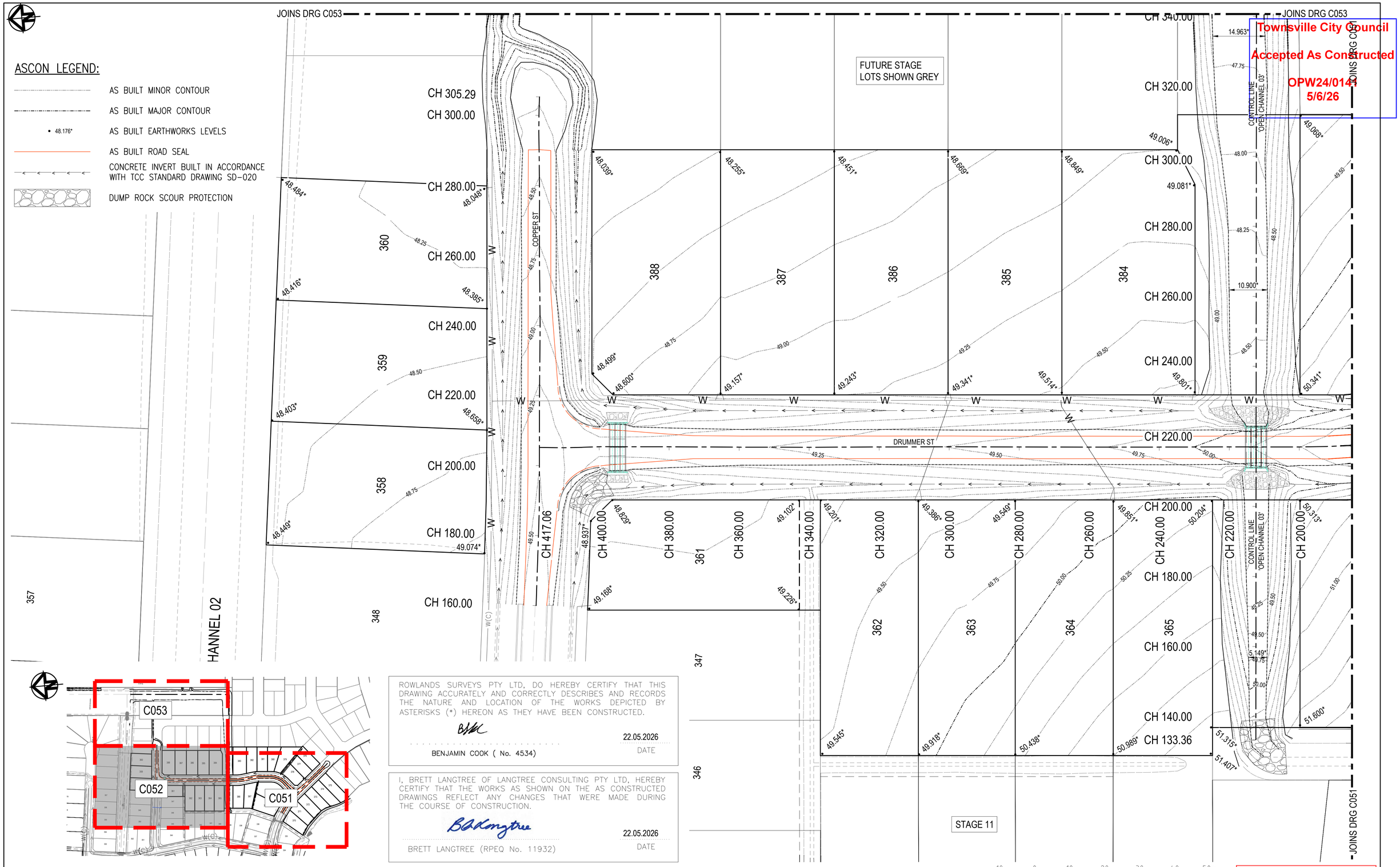
Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817
EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 1

SCALE	1:500
SHEET	2 OF 12
REVISION	A 0, B 1, C, D, E
DRG No.	0944 - ASC - C051



KEY PLAN
NTS

REFER TO DRAWING C001 FOR GENERAL LEGEND

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
H	B.L.	06.06.25	APPROVAL ISSUE - SURVEY CONTOURS UPDATED
G	B.L.	15.04.25	APPROVAL ISSUE - CONTOURS UPDATED
F	B.L.	30.03.25	APPROVAL ISSUE - IAD CONTOURS UPDATE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817
EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 2

SCALE	1:500
SHEET	3 OF 12
REVISION	A B C D E / F G H 0 1
DRG No.	0944 - ASC - C052

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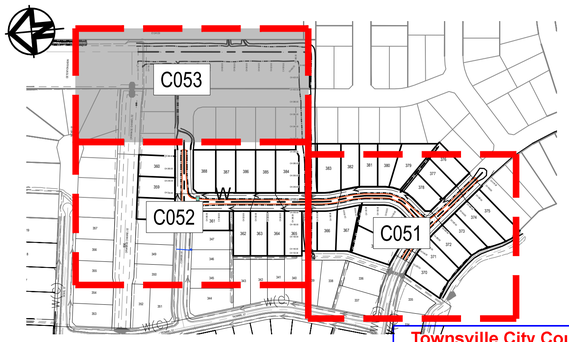
BENJAMIN COOK (No. 4534) — 15.05.2026 DATE

I, BRETT LANGTREE OF LANGTREE CONSULTING PTY LTD, HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE AS CONSTRUCTED DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.

BRETT LANGTREE (RPEQ No. 11932) — 15.05.2026 DATE

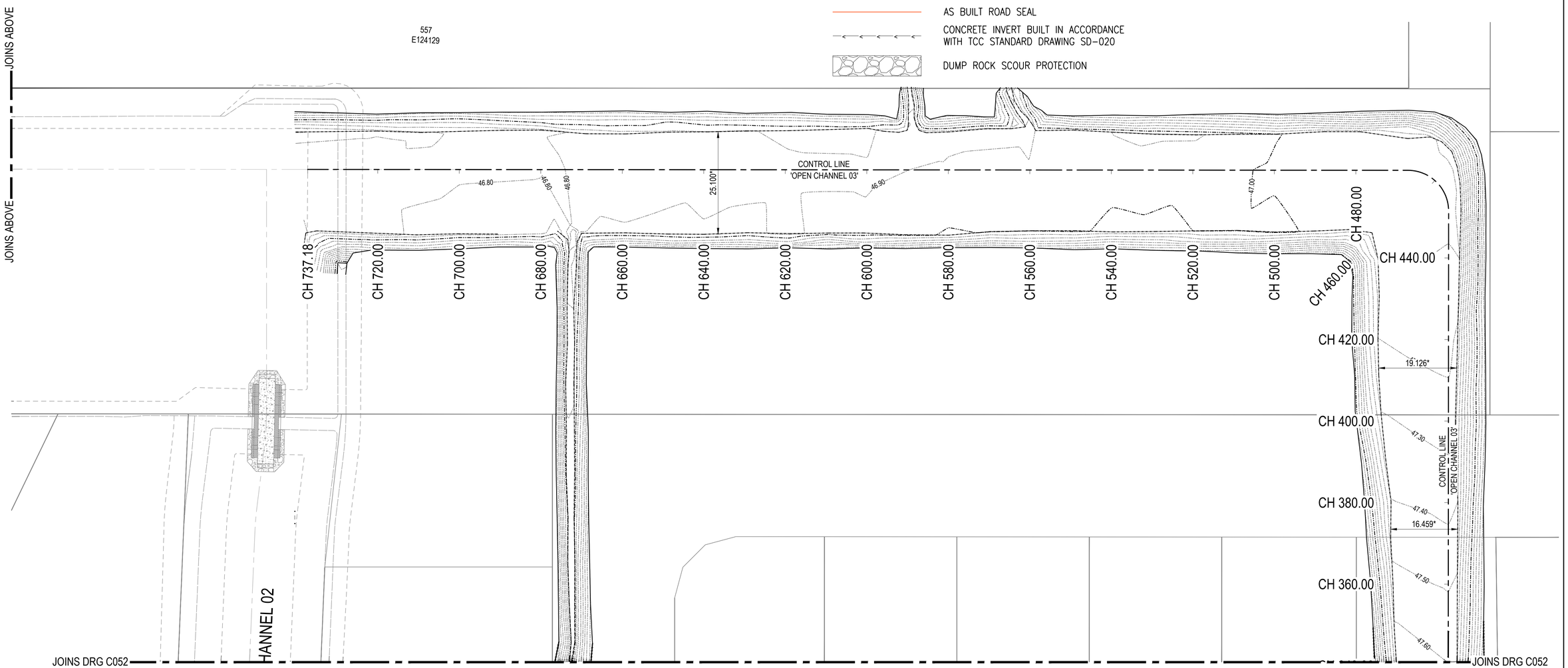


KEY PLAN
NTS

Townsville City Council
Accepted As Constructed
OPW24/0141
5/6/26

ASCON LEGEND:

- AS BUILT MINOR CONTOUR
- AS BUILT MAJOR CONTOUR
- • 48.176* AS BUILT EARTHWORKS LEVELS
- AS BUILT ROAD SEAL
- CONCRETE INVERT BUILT IN ACCORDANCE WITH TCC STANDARD DRAWING SD-020
- DUMP ROCK SCOUR PROTECTION



10 0 10 20 30 40 50m
SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

AS CONSTRUCTED
15TH MAY 2026

REFER TO DRAWING C001 FOR GENERAL LEGEND

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	15.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
C	B.L.	06.06.25	APPROVAL ISSUE - CONTOURS UPDATED
B	B.L.	06.12.24	APPROVAL ISSUE
A	B.L.	18.11.24	PRELIMINARY ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817
EARTHWORKS, ROADWORKS AND DRAINAGE SHEET 3

SCALE	1:500
SHEET	4 OF 12
REVISION	A B C 0 1
DRG No.	0944 - ASC - C053

VERT EXAG 1:5
Datum 48.000

AS-CONSTRUCTED LEVEL	55.199*	55.252*	55.304*	55.356*	55.407*	55.447*	55.499*	55.568*	55.639*	55.726*	55.816*	55.912*	56.008*	56.095*	56.183*	56.200*	56.216*	56.175*	56.112*	56.052*
CHAINAGE	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000

CONTROL LINE 'A' LONGITUDINAL SECTION: DIAMOND DRIVE
SCALE 1:500H 1:50V

VERT EXAG 1:5
Datum 43.000

AS-CONSTRUCTED LEVEL	49.607*	49.559*	49.525*	49.496*	49.420*	49.293*	49.165*	49.038*	48.912*	48.785*	48.661*	48.535*	48.389*	48.287*	
CHAINAGE	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	

CONTROL LINE 'D' LONGITUDINAL SECTION: COPPER STREET
SCALE 1:500H 1:50V

Townsville City Council

Accepted As Constructed

OPW24/0141
5/6/26

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

1 0 1 2 3 4 5m
SCALE 1:50 @ A1 SCALE 1:100 @ A3

10 0 10 20 30 40 50m
SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C002 FOR ROAD SETOUT

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
D	B.L.	17.03.25	APPROVAL ISSUE - TEXT UPDATED
C	B.L.	13.12.24	APPROVAL ISSUE - TEXT REMOVED
B	B.L.	06.12.24	APPROVAL ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

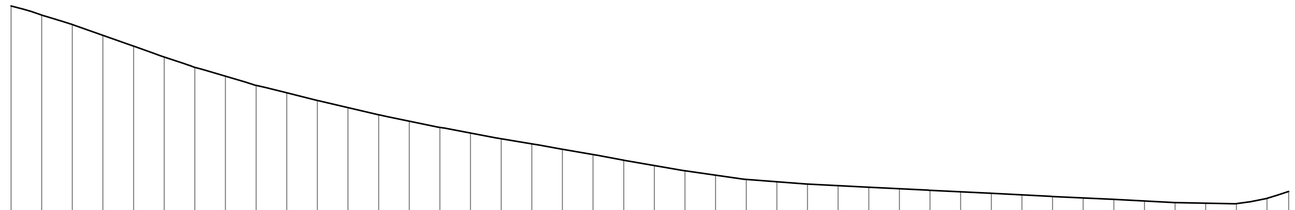
ROADS LONGITUDINAL SECTIONS SHEET 1

SCALE	AS SHOWN
SHEET	5 OF 12
REVISION	A B C D 0 / 1
DRG No.	0944 - ASC - C061

Townsville City Council

Accepted As Constructed

OPW24/0141
5/6/26

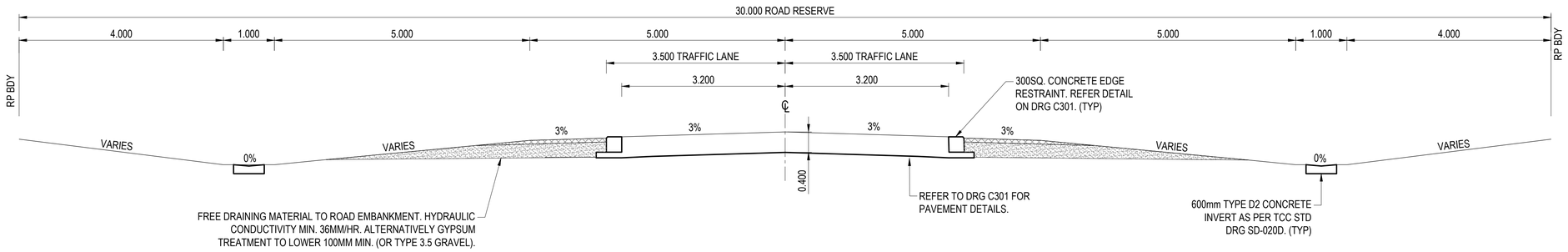


VERT EXAG 1:10
Datum 47.000

CHAINAGE	AS-CONSTRUCTED LEVEL
10.000	55.224*
20.000	54.913*
30.000	54.561*
40.000	54.208*
50.000	53.855*
60.000	53.516*
70.000	53.227*
80.000	52.927*
90.000	52.688*
100.000	52.438*
110.000	52.203*
120.000	51.969*
130.000	51.761*
140.000	51.557*
150.000	51.373*
160.000	51.187*
170.000	51.023*
180.000	50.846*
190.000	50.673*
200.000	50.488*
210.000	50.314*
220.000	50.143*
230.000	49.999*
240.000	49.860*
250.000	49.785*
260.000	49.710*
270.000	49.657*
280.000	49.605*
290.000	49.556*
300.000	49.507*
310.000	49.457*
320.000	49.407*
330.000	49.356*
340.000	49.304*
350.000	49.257*
360.000	49.209*
370.000	49.157*
380.000	49.105*
390.000	49.085*
400.000	49.071*
410.000	49.244*

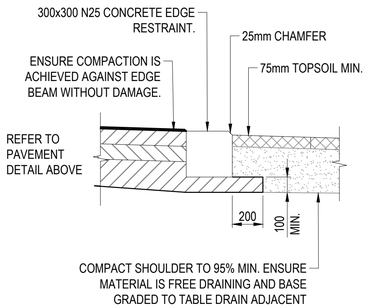
DRUMMER STREET LONGITUDINAL SECTION

SCALE 1:1000H 1:100V



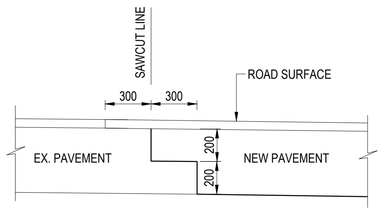
TYPICAL ROAD CROSS SECTION

SCALE 1:50



CONCRETE EDGE RESTRAINT DETAIL

NTS



PAVEMENT CUT BACK DETAIL

NTS

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BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

I, BRETT LANGTREE OF LANGTREE CONSULTING PTY LTD, HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE AS CONSTRUCTED DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.

BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

SCALE 1:100 @ A1 (2 0 2 4 6 8 10m) — SCALE 1:200 @ A3

SCALE 1:50 @ A1 (1 0 1 2 3 4 5m) — SCALE 1:100 @ A3

SCALE 1:1000 @ A1 (20 0 20 40 60 80 100m) — SCALE 1:2000 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C002 FOR ROAD SETOUT

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
C	B.L.	17.03.25	APPROVAL ISSUE - MINOR TEXT UPDATES
B	B.L.	06.12.24	APPROVAL ISSUE
A	B.L.	18.11.24	PRELIMINARY ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

CERTIFICATION

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m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

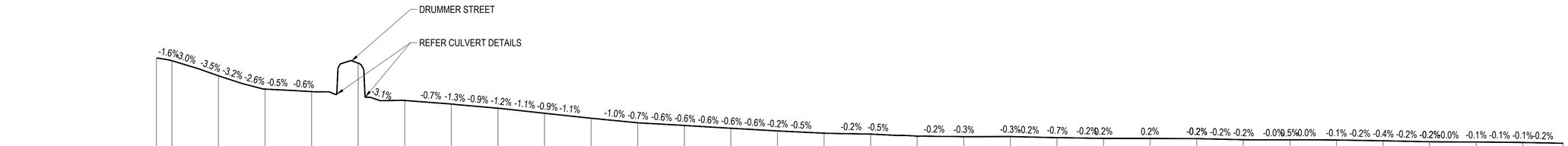
ROADS LONGITUDINAL SECTIONS SHEET 2

SCALE	AS SHOWN
SHEET	6 OF 12
REVISION	A B C 0 1
DRG No.	0944 - ASC - C062

Townsville City Council

Accepted As Constructed

OPW24/0141
5/6/26

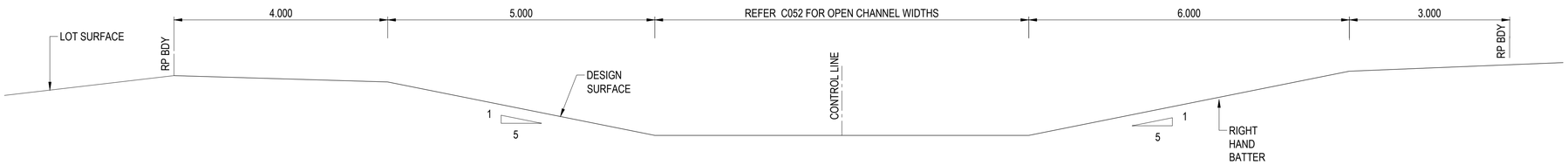


VERT EXAG 1:10
Datum 43.000

CHAINAGE	AS-CONSTRUCTED LEVEL
140.000	50.268*
160.000	49.618*
180.000	49.050*
200.000	48.940*
220.000	50.160*
240.000	48.560*
260.000	48.409*
280.000	48.229*
300.000	48.011*
320.000	47.798*
340.000	47.604*
360.000	47.489*
380.000	47.368*
400.000	47.252*
420.000	47.155*
440.000	47.117*
460.000	47.027*
480.000	47.009*
500.000	47.012*
520.000	46.966*
540.000	46.933*
560.000	46.931*
580.000	46.922*
600.000	46.876*
620.000	46.873*
640.000	46.865*
660.000	46.830*
680.000	46.787*
700.000	46.780*
720.000	46.760*

OPEN CHANNEL 03 LONGITUDINAL SECTION

SCALE 1:1000H 1:100V



OPEN CHANNEL 03 - TYPICAL SECTION

SCALE 1:50

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

SCALE 1:100 @ A1 — SCALE 1:200 @ A3

SCALE 1:50 @ A1 — SCALE 1:100 @ A3 — SCALE 1:1000 @ A1 — SCALE 1:2000 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C002 FOR ROAD SETOUT

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
C	B.L.	11.03.25	APPROVAL ISSUE - MINOR TEXT UPDATES
B	B.L.	06.12.24	APPROVAL ISSUE
A	B.L.	18.11.24	PRELIMINARY ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

CERTIFICATION

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Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

DRAINAGE CHANNEL LONGITUDINAL SECTION

SCALE	AS SHOWN
SHEET	7 OF 12
REVISION	A B C 0 1
DRG No.	0944 - ASC - C063

SIGNS LEGEND

EXISTING SIGN

NEW SIGN

Townsville City Council

Accepted As Constructed

OPW24/0141
5/6/26

INTERSECTION SETOUT TABLE - LIP OF KERB			
POINT	EASTING	NORTHING	LEVEL
1001	58375.919	860947.446	55.272*
1002	58547.097	860944.649	55.259*
1003	58551.251	860943.659	55.157*
1004	58555.496	860944.131	55.022*
1005	58559.852	860946.408	54.818*
1006	58567.173	860938.954	54.764*
1007	58563.885	860934.874	55.014*
1008	58562.624	860930.581	55.218*
1009	58562.963	860926.119	55.384*
1010	58565.329	860921.444	55.468*

ASCON LEGEND:

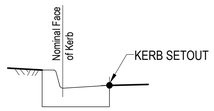
AS BUILT MINOR CONTOUR

AS BUILT MAJOR CONTOUR

AS BUILT ROAD SEAL

CONCRETE INVERT BUILT IN ACCORDANCE WITH TCC STANDARD DRAWING SD-020

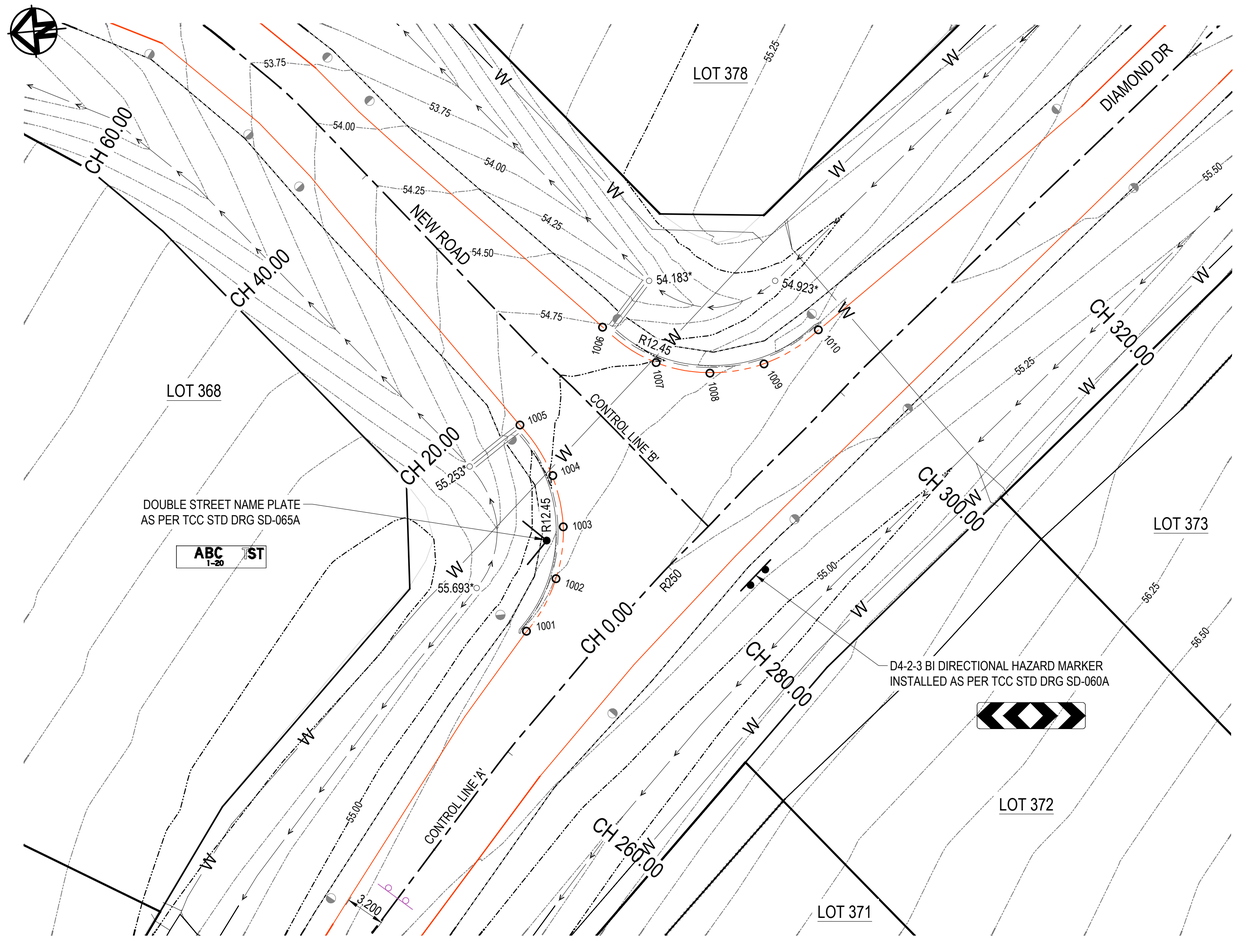
DUMP ROCK SCOUR PROTECTION



'TYPE B1' KERB AND CHANNEL AS PER TCC STD DRG SD-020D

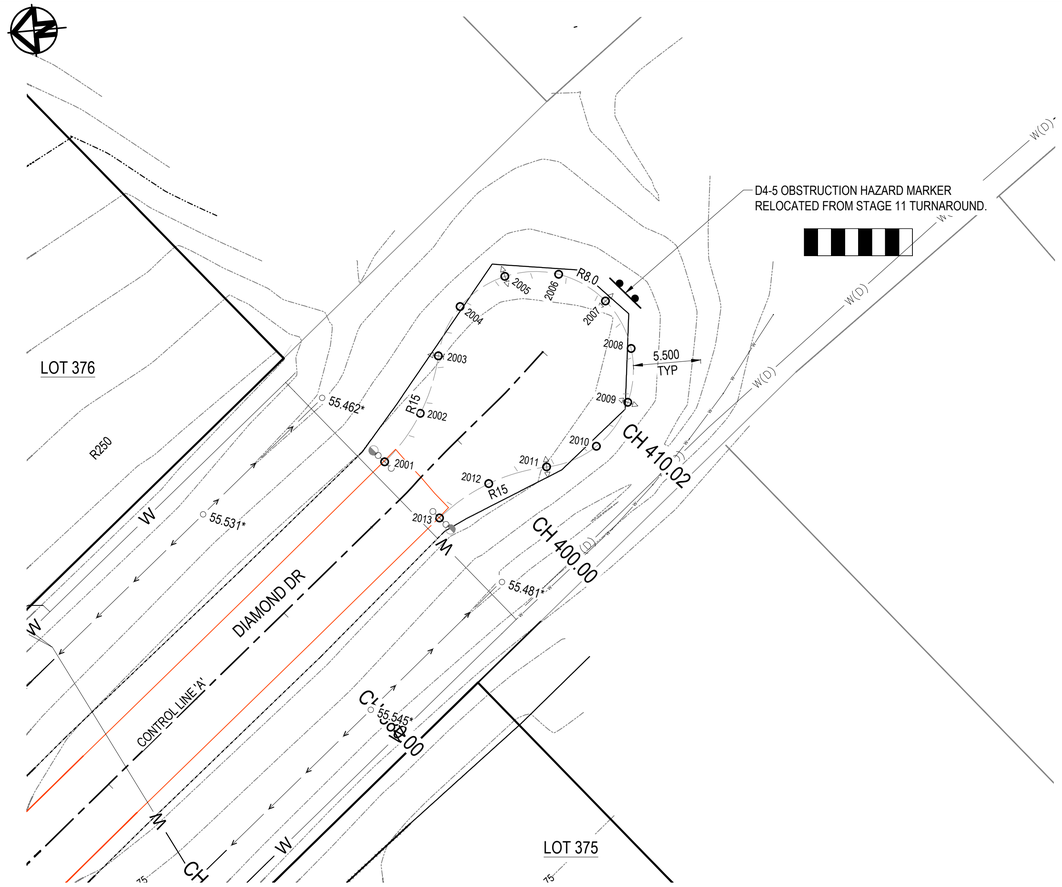
KERB SETOUT DETAIL

N.T.S.



KERB RETURN SETOUT - INTERSECTION OF DIAMOND DR AND NEW ROAD

SCALE 1:250



TEMPORARY CULDESAC SETOUT - DIAMOND DR

SCALE 1:250

CULDESAC SETOUT TABLE - EDGE OF ROADWAY			
POINT	EASTING	NORTHING	LEVEL
2001	58621.801	860848.500	56.032*
2002	58625.474	860845.239	56.041*
2003	58630.004	860843.341	55.990*
2004	58633.842	860841.189	55.908*
2005	58635.961	860837.333	55.899*
2006	58635.721	860832.940	55.925*
2007	58633.195	860829.338	55.970*
2008	58629.145	860827.616	55.946*
2009	58624.798	860828.297	55.942*
2010	58621.469	860831.173	55.908*
2011	58620.163	860835.375	55.996*
2012	58619.250	860840.201	56.057*
2013	58616.826	860844.473	56.065*

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

5 0 5 10 15 20 25m

SCALE 1:250 @ A1 SCALE 1:500 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C001 FOR GENERAL LEGEND

REVISIONS				
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
E	B.L.	19.03.25	APPROVAL ISSUE - KERB RADIUS ADDED
D	B.L.	17.03.25	APPROVAL ISSUE - MINOR UPDATES
C	B.L.	13.12.24	APPROVAL ISSUE - LABELS ADDED
No.	BY	DATE	DESCRIPTION

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

CERTIFICATION

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Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

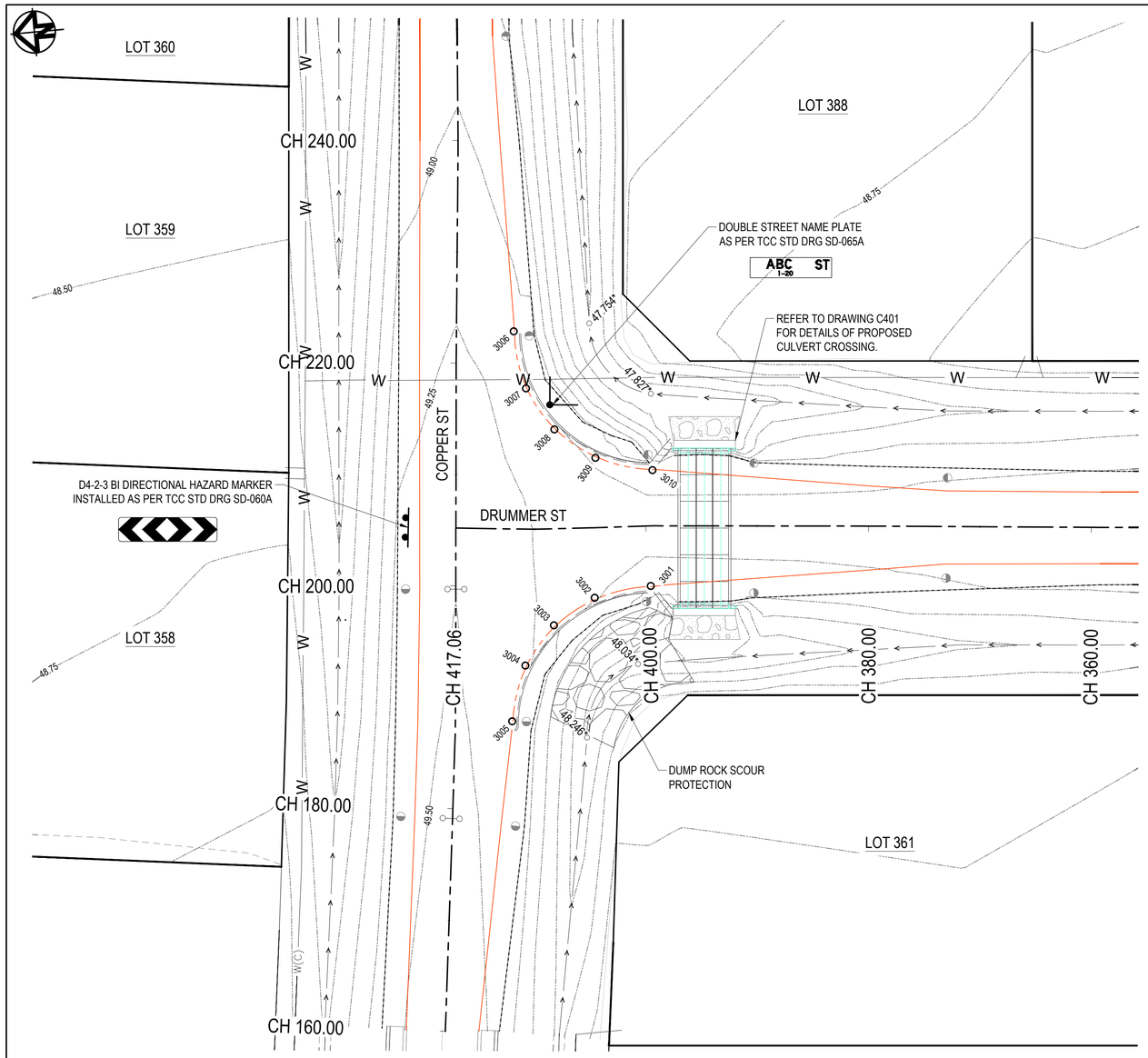
MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

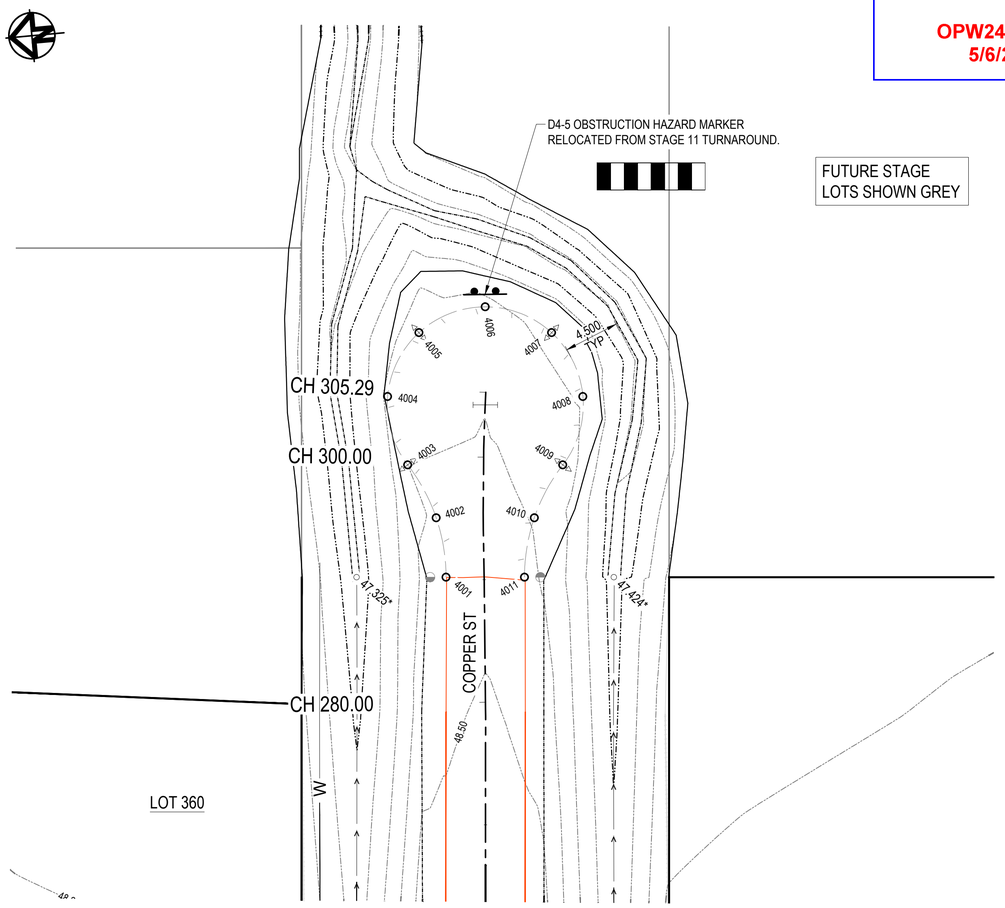
INTERSECTION SETOUT DETAILS SHEET 1

SCALE	AS SHOWN
SHEET	8 OF 12
REVISION	A 0, B 1, C, D, E
DRG No.	0944 - ASC - C071

Townsville City Council
Accepted As Constructed
OPW24/0141
5/6/26



KERB RETURN SETOUT - INTERSECTION OF COPPER ST AND DRUMMER ST
SCALE 1:250



TEMPORARY CULDESAC SETOUT - COPPER ST
SCALE 1:250

CULDESAC SETOUT TABLE - EDGE OF ROADWAY			
POINT	EASTING	NORTHING	LEVEL
4001	58712.033	861319.259	48.286*
4002	58716.933	861319.610	48.308*
4003	58721.456	861321.524	48.247*
4004	58727.155	861322.641	48.045*
4005	58732.107	861319.608	48.146*
4006	58733.704	861314.024	48.078*
4007	58731.103	861308.832	47.944*
4008	58725.675	861306.767	47.970*
4009	58720.280	861308.918	48.150*
4010	58716.189	861311.636	48.236*
4011	58711.439	861312.887	48.310*

INTERSECTION SETOUT TABLE - LIP OF KERB			
POINT	EASTING	NORTHING	LEVEL
3001	58620.300	861307.016	48.911*
3002	58619.707	861312.132	49.013*
3003	58617.580	861316.006	49.159*
3004	58614.233	861318.893	49.299*
3005	58609.351	861320.537	49.370*
3006	58644.194	861317.148	49.091*
3007	58638.992	861316.526	49.125*
3008	58635.090	861314.335	49.058*
3009	58632.216	861310.906	48.966*
3010	58630.642	861305.908	48.902*

ASCON LEGEND:

- AS BUILT MINOR CONTOUR
- AS BUILT MAJOR CONTOUR
- AS BUILT ROAD SEAL
- CONCRETE INVERT BUILT IN ACCORDANCE WITH TCC STANDARD DRAWING SD-020
- DUMP ROCK SCOUR PROTECTION

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

5 0 5 10 15 20 25m
SCALE 1:250 @ A1 SCALE 1:500 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C001 FOR GENERAL LEGEND

REVISIONS				
No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
F	B.L.	15.04.25	APPROVAL ISSUE - CONTOURS AMENDED
E	B.L.	19.03.25	APPROVAL ISSUE - KERB RADIUS ADDED
D	B.L.	17.03.25	APPROVAL ISSUE - MINOR UPDATES

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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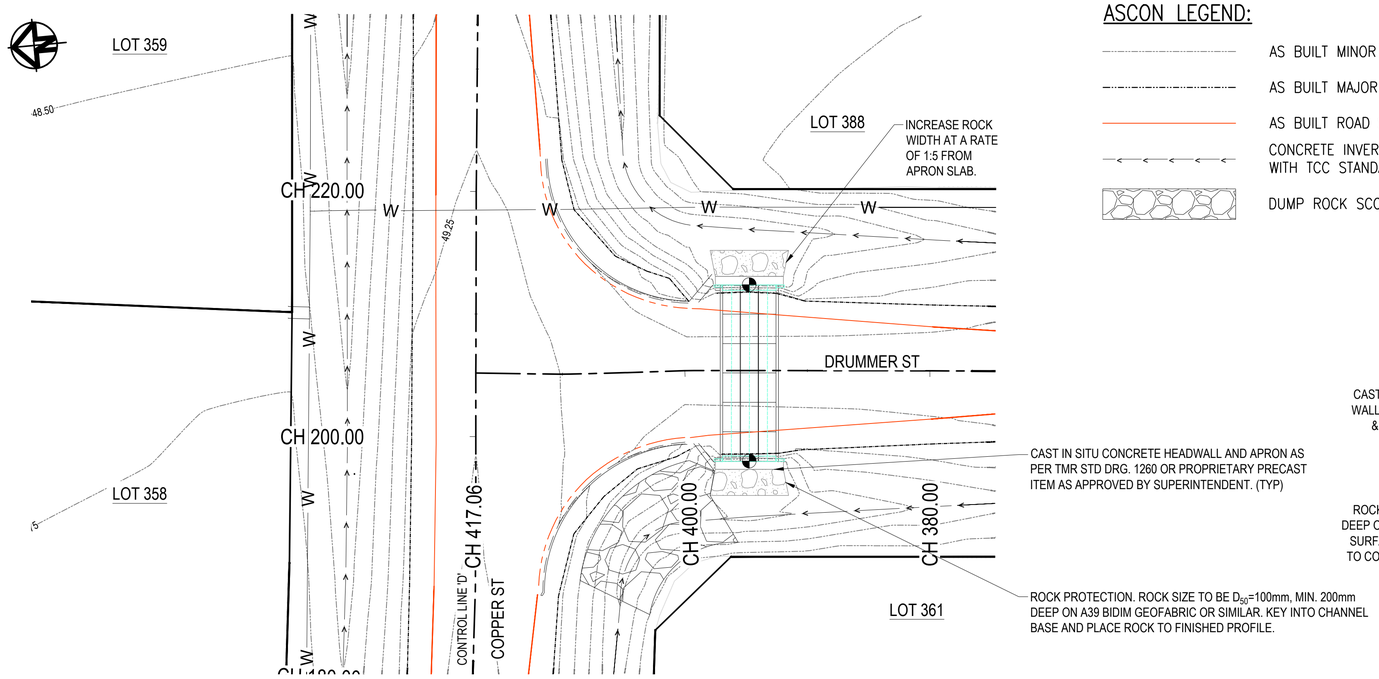
Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

INTERSECTION SETOUT DETAILS SHEET 2

SCALE	AS SHOWN
SHEET	9 OF 12
REVISION	A B C D E / F 0 1
DRG No.	0944 - ASC - C072

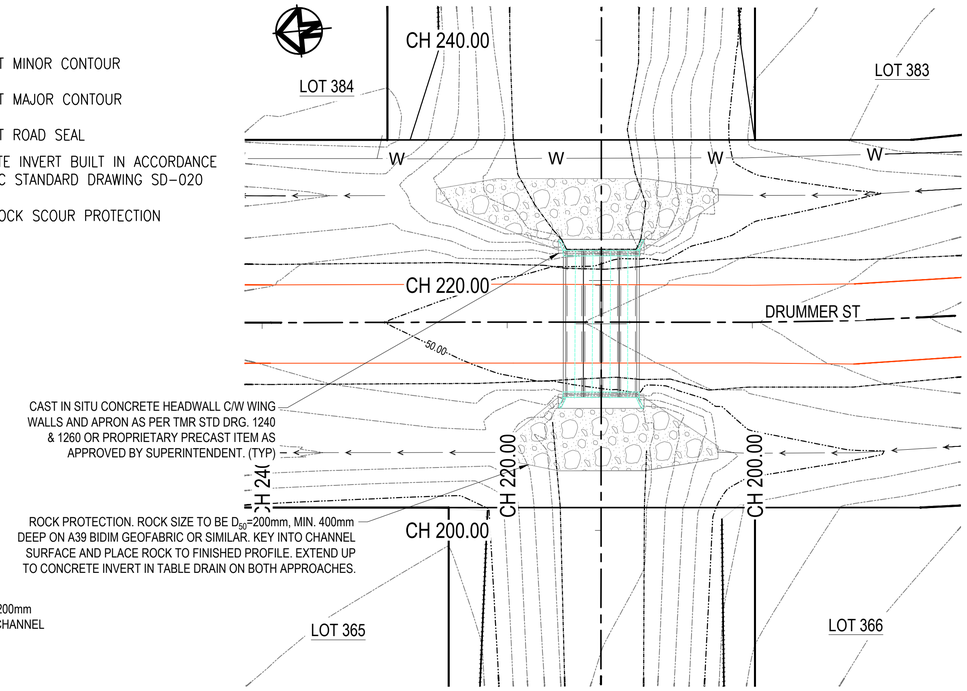


CULVERT 02 LAYOUT - INTERSECTION OF COPPER ST AND DRUMMER ST

SCALE 1:250

ASCON LEGEND:

- AS BUILT MINOR CONTOUR
- AS BUILT MAJOR CONTOUR
- AS BUILT ROAD SEAL
- CONCRETE INVERT BUILT IN ACCORDANCE WITH TCC STANDARD DRAWING SD-020
- DUMP ROCK SCOUR PROTECTION



CULVERT 01 LAYOUT - DRUMMER STREET

SCALE 1:250

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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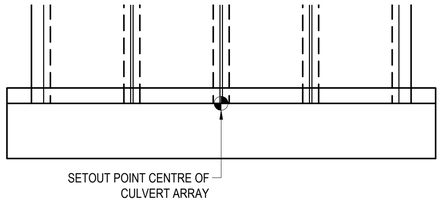
BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

Townsville City Council

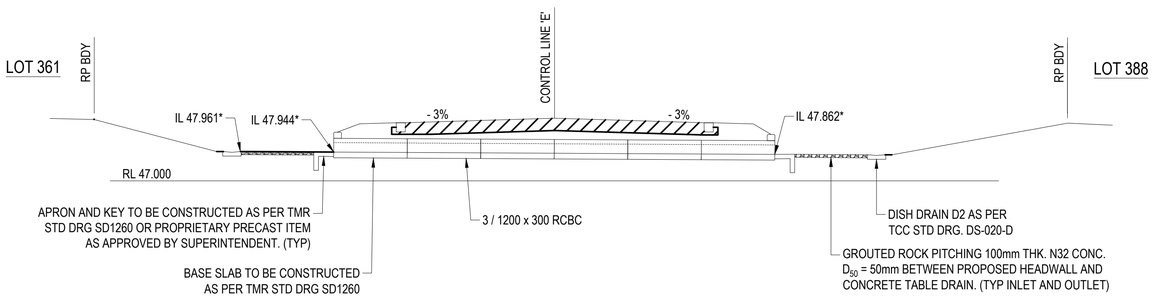
Accepted As Constructed

OPW24/0141
5/6/26



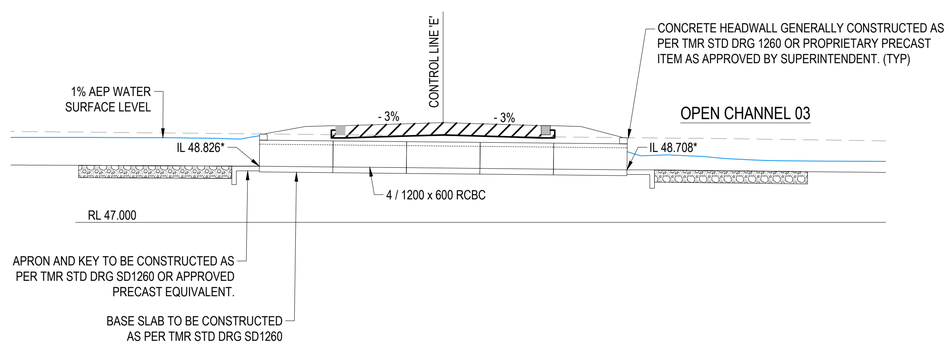
TYPICAL HEADWALL SETOUT

SCALE 1:100



CULVERT 02 LONGITUDINAL SECTION - INTERSECTION OF COPPER ST AND DRUMMER STREET

SCALE 1:100



CULVERT 01 LONGITUDINAL SECTION - DRUMMER STREET

SCALE 1:100

SCALE 1:100 @ A1 — SCALE 1:200 @ A3 — SCALE 1:250 @ A1 — SCALE 1:500 @ A3

AS CONSTRUCTED
22 MAY 2026

REVISIONS No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
D	B.L.	12.03.25	APPROVAL ISSUE - MINOR TEXT UPDATE
C	B.L.	13.12.24	APPROVAL ISSUE - SCOUR PROTECTION UPDATED
B	B.L.	06.12.24	APPROVAL ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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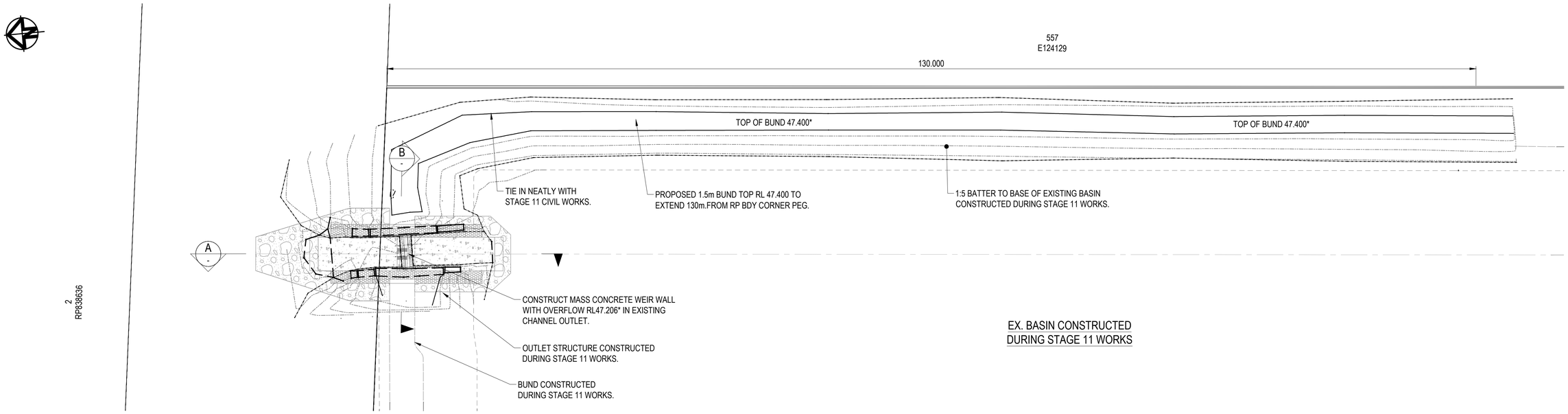
Langtree Consulting
m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

CULVERT LAYOUT AND LONGITUDINAL SECTIONS

SCALE	AS SHOWN
SHEET	10 OF 12
REVISION	A 1 / B / C / D / 0
DRG No.	0944 - ASC - C401



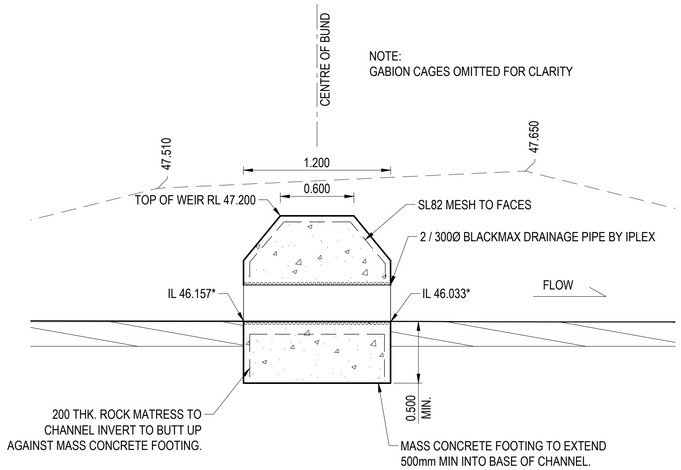
LOW FLOW BASIN OUTLET AND WEIR DETAIL

SCALE 1:250

Townsville City Council

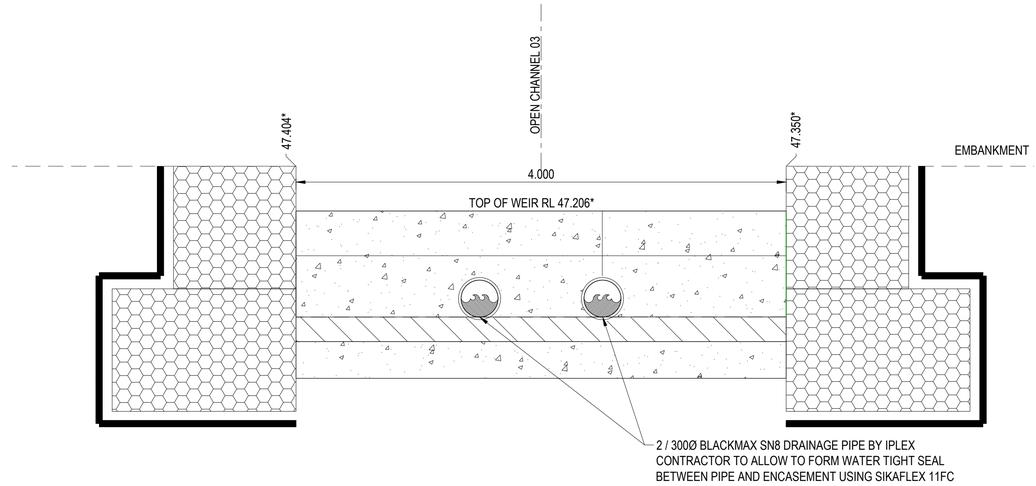
Accepted As Constructed

OPW24/0141
5/6/26



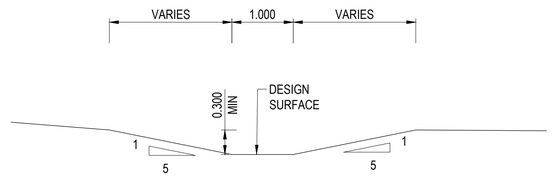
SECTION A

SCALE 1:25



SECTION B

SCALE 1:25



REAR OF LOT SWALE - TYPICAL SECTION

SCALE 1:50

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BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

0.5 0 0.5 1 1.5 2 2.5m — SCALE 1:25 @ A1 — SCALE 1:50 @ A3

5 0 5 10 15 20 25m — SCALE 1:250 @ A1 — SCALE 1:500 @ A3

AS CONSTRUCTED
22 MAY 2026

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
C	B.L.	31.03.25	IAD SWALE DETAIL UPDATE
B	B.L.	06.12.24	APPROVAL ISSUE
A	B.L.	18.11.24	PRELIMINARY ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817 ,

DRAINAGE DETAILS

SCALE	AS SHOWN
SHEET	11 OF 12
REVISION	A B C 0 1
DRG No.	0944 - ASC - C402

ASCON WATER LEGEND:

——— W(C) ———	EXISTING WATER MAIN (SURVEY QUALITY)
— W ——— W ———	AS BUILT WATER MAIN
———	AS BUILT ROAD SEAL
H	AS BUILT FIRE HYDRANT
	AS BUILT SLUICE VALVE
HC HC	AS BUILT WATER SERVICE

Townsville City Council

Accepted As Constructed

OPW24/0141
5/6/26

ROWLANDS SURVEYS PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HEREON AS THEY HAVE BEEN CONSTRUCTED.

BENJAMIN COOK (No. 4534) — 22.05.2026 DATE

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BRETT LANGTREE (RPEQ No. 11932) — 22.05.2026 DATE

20 0 20 40 60 80 100m
SCALE 1:1000 @ A1 SCALE 1:2000 @ A3

AS CONSTRUCTED
22 MAY 2026

REFER TO DRAWING C001 FOR GENERAL LEGEND

REVISIONS

No.	BY	DATE	DESCRIPTION
1	B.S	22.05.26	AS CONSTRUCTED
0	M.V.	10.10.25	FOR CONSTRUCTION
C	B.L.	31.03.25	IAD SWALE UPDATE
B	B.L.	06.12.24	APPROVAL ISSUE
A	B.L.	18.11.24	PRELIMINARY ISSUE

HORIZ. DATUM	MT MARGARET GRID	
VERT. DATUM	AHD	
DRG. FILE	0944	DATE
DESIGN	B.L.	NOV '24
DRAWN	C.B.P.	NOV '24

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m 0400 699 979
e brett@langtreeconsulting.com.au

MT MARGARET ESTATE STAGE 12 - OPERATIONAL WORKS

NICKEL STREET
ALICE RIVER, QLD, 4817

WATER RETICULATION LAYOUT PLAN

SCALE	AS SHOWN
SHEET	12 OF 12
REVISION	A B C 0 1
DRG No.	0944 - ASC - C601