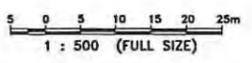
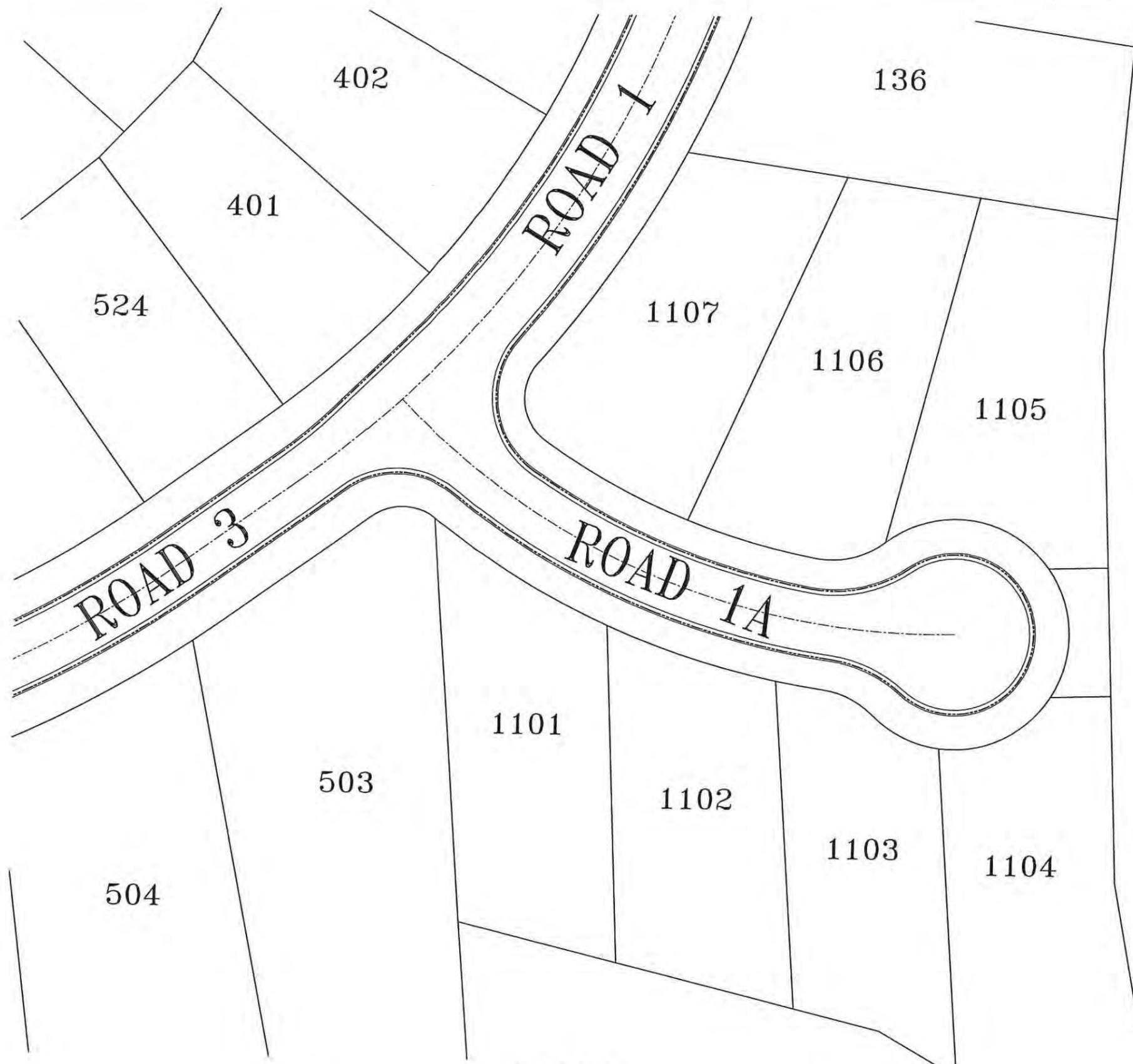


LAYOUT PLAN

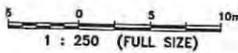


NEWLAND DEVELOPERS PTY LTD	09-374 24-02-2012
TERRANORA PRECINCT 1 ROAD 1 - FRASER DRV. INTERSECTION LAYOUT	SK 3646 REVISION A

Bradford Lees Pty Ltd ABN 29 064 159 191		
Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217		



LAYOUT PLAN



NEWLAND DEVELOPERS PTY LTD	09-374 17-12-2012
TERRANORA PRECINCT 1 ROAD 1 CUL-DE-SAC FINAL LAYOUT	SK 3961 REVISION A

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email rmail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	<p>Bradlees Civil Consulting</p>	<p>QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 133</p>
---	---	--

APPENDIX 5

- 09-374 – SK3562 Earthworks Ultimate Phasing Plan
- 09-374 – SK4039 Interim Phasing Plan
- 09-374 – SK2604 – SK2605 Cut/Fill Plan
- 09-374 – SK3507 – SK3508 Earthworks Layout
- 09-374 – SK3527 – SK3529 Earthworks Layout
- 09-374 – SK3635 Earthworks Sections Layout
- 09-374 – SK3636 – SK3643 Earthworks Cross Sections
- 09-374 – SK4032 Existing Boundary 'Tie In'



PRELIMINARY EARTHWORKS VOLUMES

PHASE	CUT Vol. m3	FILL Vol. m3
1	170,100	147,400
2	238,500	207,700
TOTAL	408,600	355,100

NOTE:
EARTHWORKS VOLUMES ARE APPROXIMATE SOLID VOLUMES ONLY AND SUBJECT TO FINAL DETAIL DESIGN.

LEGEND

- FILL 5.0m to 12.0m
- CUT 5.0m to 10.0m
- PHASE 1 EARTHWORKS
- PHASE 2 EARTHWORKS
- ZONE 7A LINE

EARTHWORKS AREAS	
TOTAL SITE AREA	= 31.50 ha
CUT AREA >5.0m HEIGHT	= 0.81 ha
FILL AREA >5.0m DEPTH	= 2.16 ha*
% OF TOTAL AREA >5.0m	= 9.43% *

* INCLUDES THE AREA OF FILL SPECIFIC TO THE RAISING AND FORMATION OF THE CENTRAL OPEN DRAIN = 3.15ha

NTS

NEWLAND DEVELOPERS PTY LTD	09-374 09-04-2013
TERRANORA PRECINCT 1	SK 3562
ULTIMATE EARTHWORKS PHASING PLAN	REVISION D

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217		
--	--	--



NOTES:

1. EARTHWORKS VOLUMES ARE APPROXIMATE SOLID VOLUMES ONLY AND SUBJECT TO FINAL DETAIL DESIGN.
2. PHASE 1 EARTHWORKS IS DESIGNED TO COMPLETE FINISHED LEVELS FOR THE SITE ENTRY OFF FRASER DVE AND TO ALLOW SUBDIVISION CONSTRUCTION FOR CIVIL WORKS OVER STAGES 1, 2 AND 3.
3. PHASE 1 EARTHWORKS WILL ALSO PROVIDE FOR BIO BASIN B TO BE CONSTRUCTED FOR STORMWATER QUALITY TREATMENT OF EARLY CIVIL WORKS CONSTRUCTION AND ALSO PROVIDES FOR BUNDING ALONG THE NORTHERN BOUNDARY TO FACILITATE STORMWATER DETENTION IN ACCORDANCE WITH GILBERT AND SUTHERLAND HYDRAULIC REPORTS.
4. FILL MATERIAL TO COMPLETE THE EARTHWORKS ASSOCIATED WITH THE CENTRAL DRAINAGE CORRIDOR HAS TO COME FROM PHASE 2 BECAUSE THERE IS INSUFFICIENT MATERIAL FROM PHASE 1.
5. WE NOTE THERE MAY BE FURTHER SUB STAGING OF PHASE 2 EARTHWORKS TO MINIMISE OVERALL DISTURBANCE TO THE BALANCE AREAS OF THE SITE DURING DETAIL DESIGN.
6. PHASE 1 EARTHWORKS THEREFORE MINIMISES DISTURBANCE TO THE CENTRAL DRAINAGE CORRIDOR AND THE WESTERN HALF OF THE DEVELOPMENT SITE AND ALLOWS THE EXISTING DRAINAGE PATH TO BE MAINTAINED UNTIL PHASE 2 COMMENCES.

PRELIMINARY EARTHWORKS VOLUMES

PHASE	CUT Vol. m3	FILL Vol. m3
1	170,100	147,400

LEGEND

- FILL 5.0m to 12.0m
- CUT 5.0m to 10.0m
- PHASE 1 EARTHWORKS
- ZONE 7A LINE

NEWLAND DEVELOPERS PTY LTD 09-374 09-04-2013

TERRANORA PRECINCT 1

INTERIM EARTHWORKS PHASING PLAN SK 4039 REVISION A

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

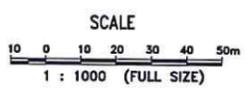
Bradlees
Civil Consulting

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 233

NTS

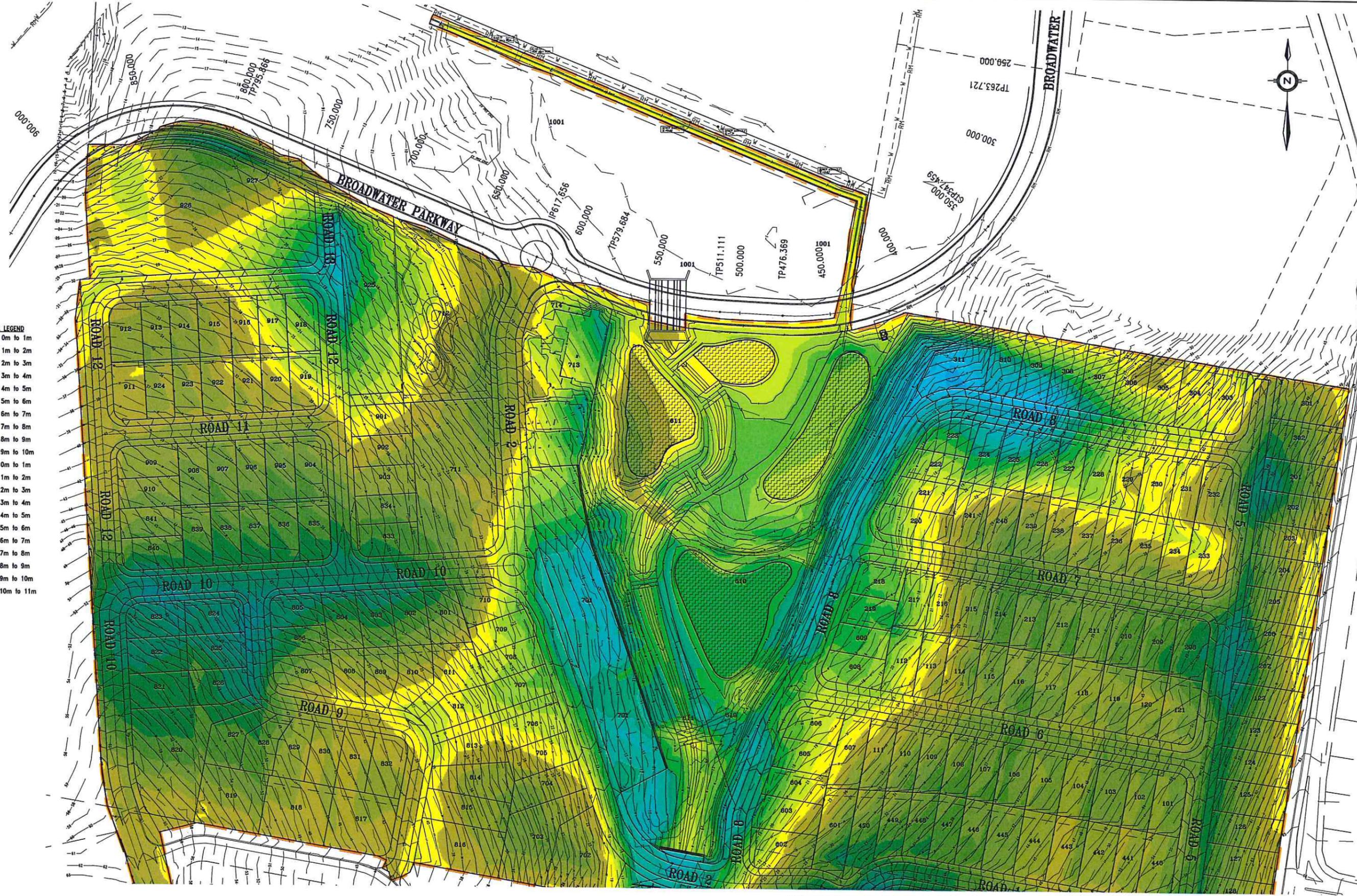
- CUT/FILL LEGEND**
- CUT 0m to 1m
 - CUT 1m to 2m
 - CUT 2m to 3m
 - CUT 3m to 4m
 - CUT 4m to 5m
 - CUT 5m to 6m
 - CUT 6m to 7m
 - CUT 7m to 8m
 - CUT 8m to 9m
 - CUT 9m to 10m
 - FILL 0m to 1m
 - FILL 1m to 2m
 - FILL 2m to 3m
 - FILL 3m to 4m
 - FILL 4m to 5m
 - FILL 5m to 6m
 - FILL 6m to 7m
 - FILL 7m to 8m
 - FILL 8m to 9m
 - FILL 9m to 10m
 - FILL 10m to 11m

- LEGEND**
- 12 DESIGN SURFACE CONTOURS
 - 12 EXISTING SURFACE CONTOURS
 - LIMITS OF EARTHWORKS



NEWLAND DEVELOPERS PTY LTD	09-374 09-04-2013
ALTITUDE ASPIRE CUT - FILL PLAN SHEET 1 OF 2	SK 2604 REVISION 0

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	 Bradlees Civil Consulting	 <small>QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233</small>
--	---	--

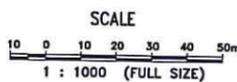




- CUT/FILL LEGEND**
- CUT 0m to 1m
 - CUT 1m to 2m
 - CUT 2m to 3m
 - CUT 3m to 4m
 - CUT 4m to 5m
 - CUT 5m to 6m
 - CUT 6m to 7m
 - CUT 7m to 8m
 - CUT 8m to 9m
 - CUT 9m to 10m
 - CUT 10m to 11m
 - FILL 0m to 1m
 - FILL 1m to 2m
 - FILL 2m to 3m
 - FILL 3m to 4m
 - FILL 4m to 5m
 - FILL 5m to 6m
 - FILL 6m to 7m
 - FILL 7m to 8m
 - FILL 8m to 9m
 - FILL 9m to 10m
 - FILL 10m to 11m

LEGEND

- 12 DESIGN SURFACE CONTOURS
- 12 EXISTING SURFACE CONTOURS
- LIMITS OF EARTHWORKS



NEWLAND DEVELOPERS PTY LTD

09-374
09-04-2013

ALTITUDE ASPIRE
CUT - FILL PLAN
SHEET 2 OF 2

SK 2605
REVISION D

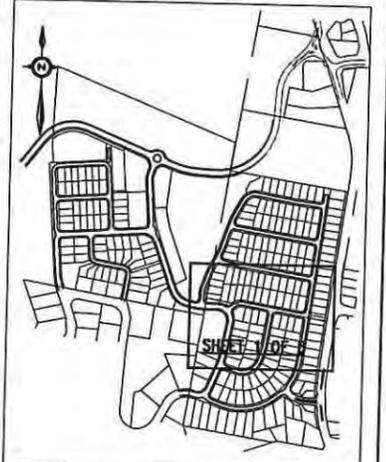
Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting

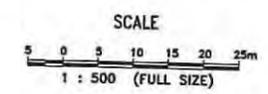


QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 233



KEY PLAN
NOT TO SCALE

- LEGEND**
- 15 — FINISHED SURFACE CONTOURS
 - 10.817 — FINISHED SURFACE LEVEL
 - - - - - PROPOSED SWALE DRAIN
 - ▭ LIMITS OF EARTHWORKS



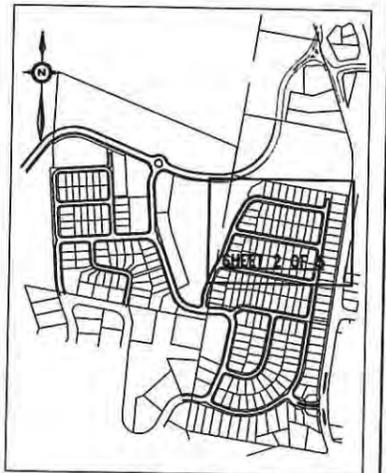
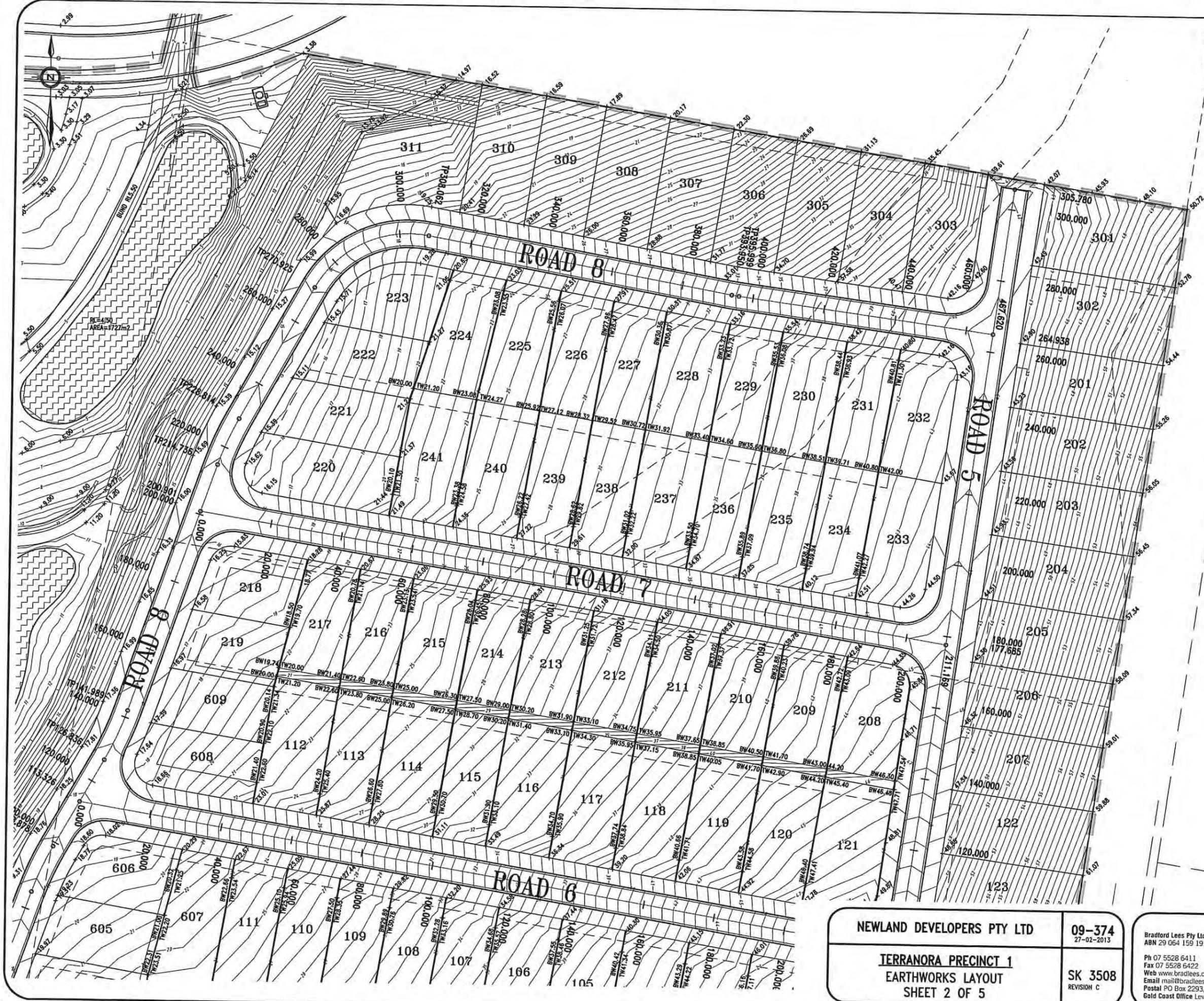
NEWLAND DEVELOPERS PTY LTD	09-374 27-02-2013
TERRANORA PRECINCT 1 EARTHWORKS LAYOUT SHEET 1 OF 5	SK 3507 REVISION C

Bradford Lees Pty Ltd
ABN 29 064 159 191

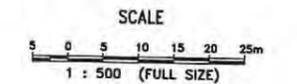
Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 233



- LEGEND**
- 15 — FINISHED SURFACE CONTOURS
 - 10.817 — FINISHED SURFACE LEVEL
 - PROPOSED SWALE DRAIN
 - ▬ LIMITS OF EARTHWORKS



NEWLAND DEVELOPERS PTY LTD
09-374 27-02-2013

TERRANORA PRECINCT 1
EARTHWORKS LAYOUT
SHEET 2 OF 5

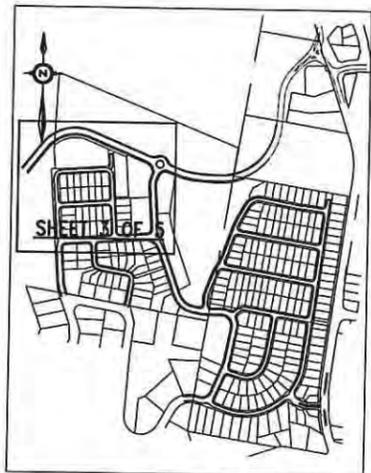
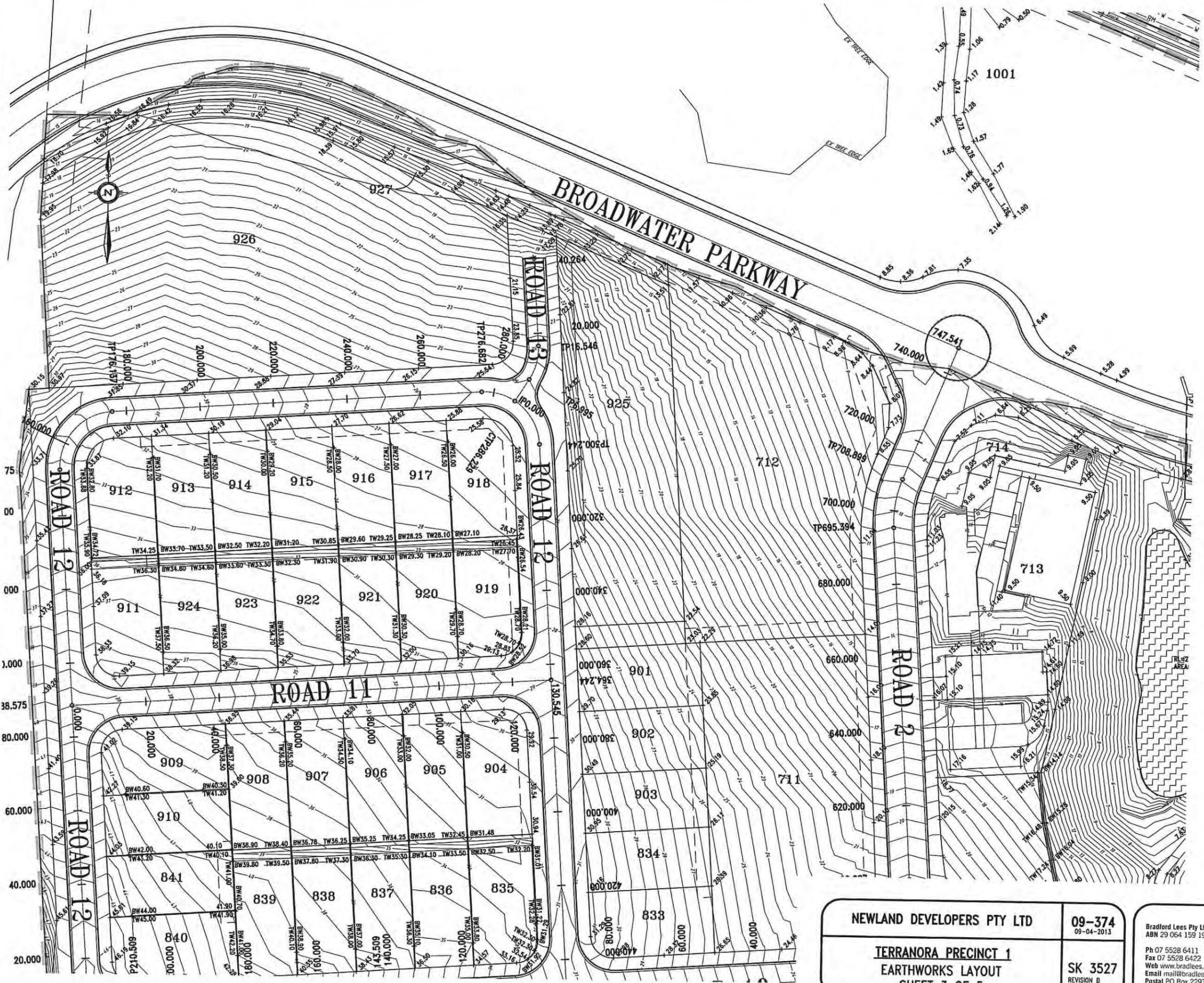
SK 3508
REVISION C

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

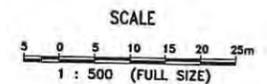
Bradlees
Civil Consulting

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 235



KEY PLAN
NOT TO SCALE

- LEGEND**
- 15 — FINISHED SURFACE CONTOURS
 - 10.817 — FINISHED SURFACE LEVEL
 - → → PROPOSED SWALE DRAIN
 - ▭ LIMITS OF EARTHWORKS



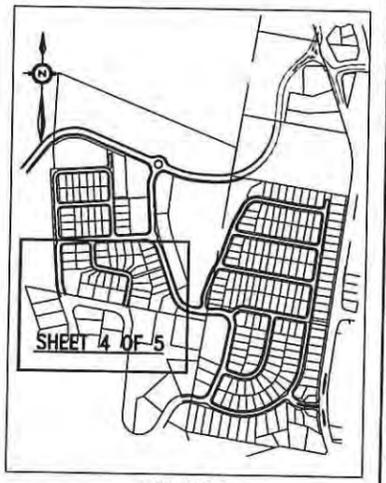
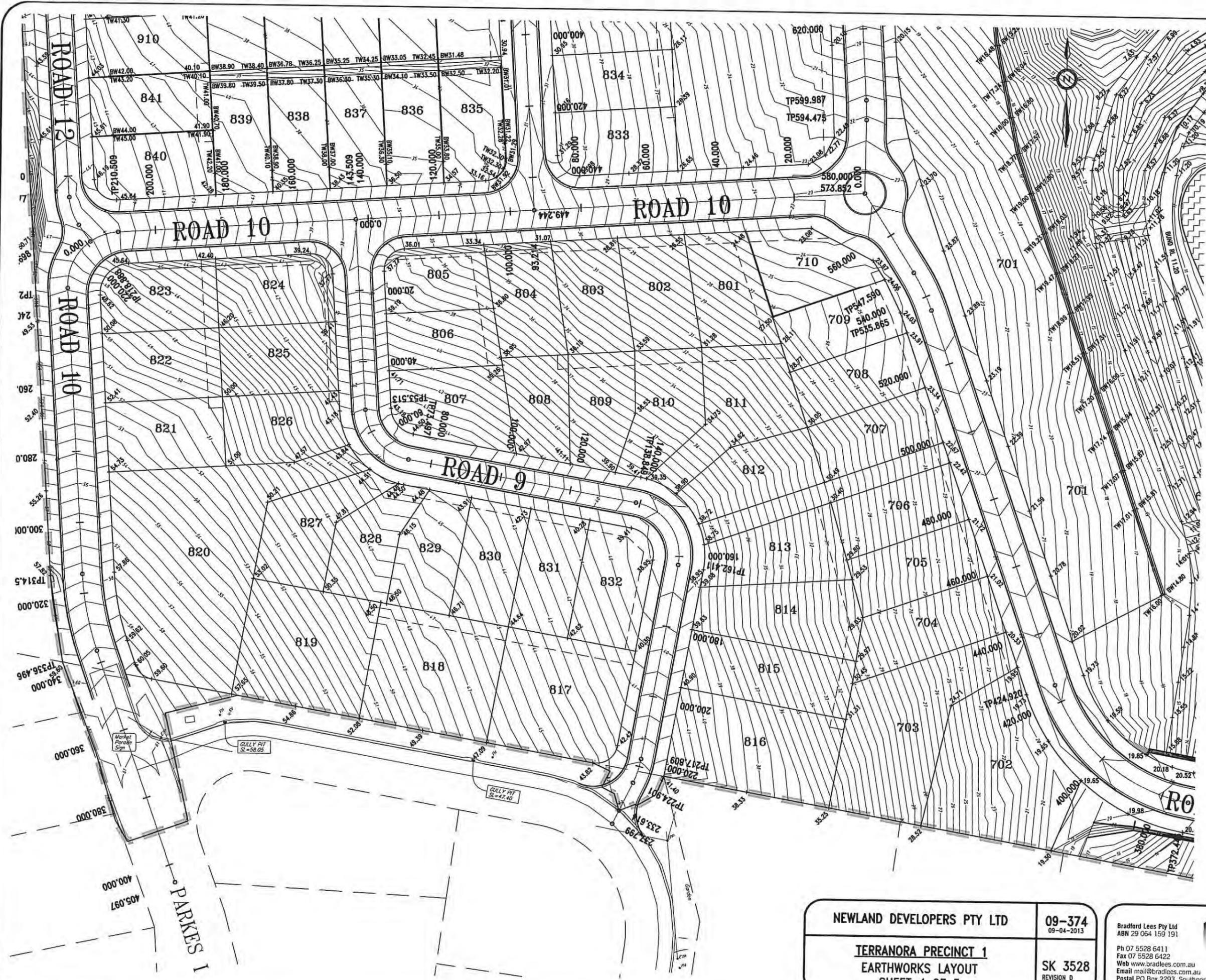
NEWLAND DEVELOPERS PTY LTD	09-374 09-04-2013
TERRANORA PRECINCT 1 EARTHWORKS LAYOUT SHEET 3 OF 5	SK 3527 REVISION 0

Bradford Lees Pty Ltd
ABN 29 064 159 191

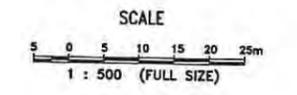
Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 533

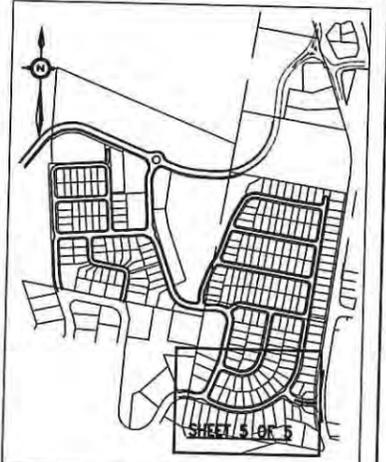
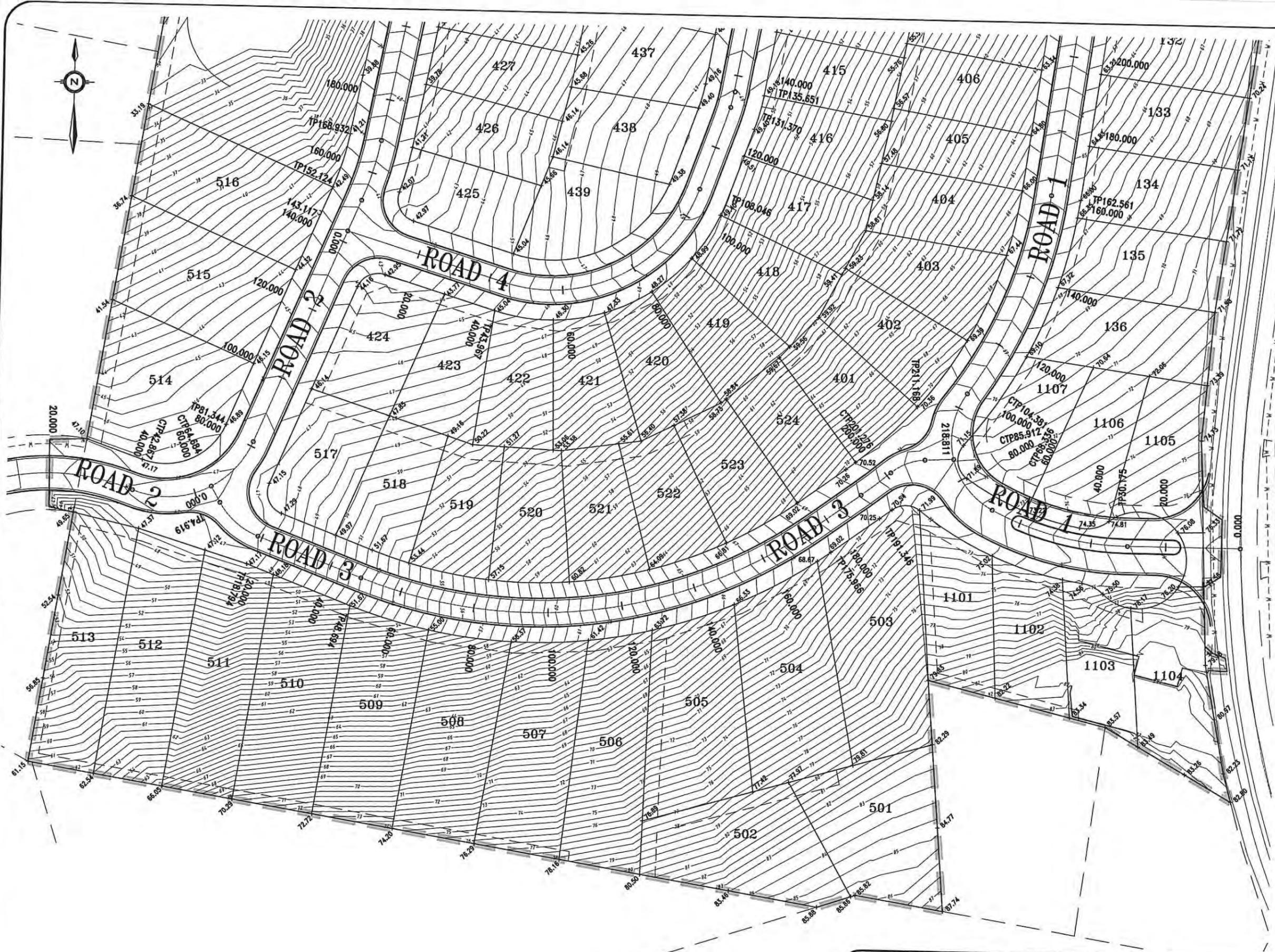


- LEGEND**
- 15 — FINISHED SURFACE CONTOURS
 - 10.817 — FINISHED SURFACE LEVEL
 - - - - - PROPOSED SWALE DRAIN
 - ▨ LIMITS OF EARTHWORKS



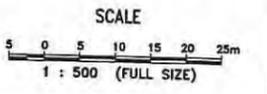
NEWLAND DEVELOPERS PTY LTD	09-374 09-04-2013
TERRANORA PRECINCT 1 EARTHWORKS LAYOUT SHEET 4 OF 5	SK 3528 REVISION D

Bradlees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	 Bradlees Civil Consulting <small>QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233</small>
---	---



KEY PLAN
NOT TO SCALE

- LEGEND**
- FINISHED SURFACE CONTOURS
 - FINISHED SURFACE LEVEL
 - PROPOSED SWALE DRAIN
 - LIMITS OF EARTHWORKS



NEWLAND DEVELOPERS PTY LTD	09-374 27-02-2013
TERRANORA PRECINCT 1 EARTHWORKS LAYOUT SHEET 5 OF 5	SK 3529 REVISION C

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 233