

CONSTRUCTION CERTIFICATE

Certificate No. ...20130299C.40...
 Date of Issue ...10 November 2017...
 Issuing Officer *[Signature]*
 Accreditation No. ...BPB0565

These plans/specifications form part of the certificate issued 10 November 2017



ARTERRA DESIGN PTY LTD ABN 40 069 552 610
 SUITE 602 / 51 RAWSON STREET, EPPING, NSW 2121
 P 02 9957 2466 F 02 9957 3977 W ARTERRA.COM.AU

PROJECT & CLIENT

Redbank
 Grose Vale Road North Richmond, NSW, 2754
Belmont Precinct



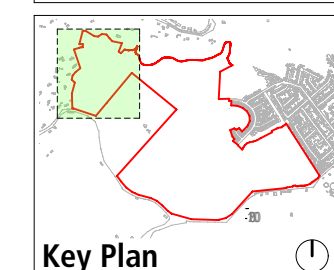
Prepared for :
NORTH RICHMOND JOINT VENTURE

Civil Landscape Works Package

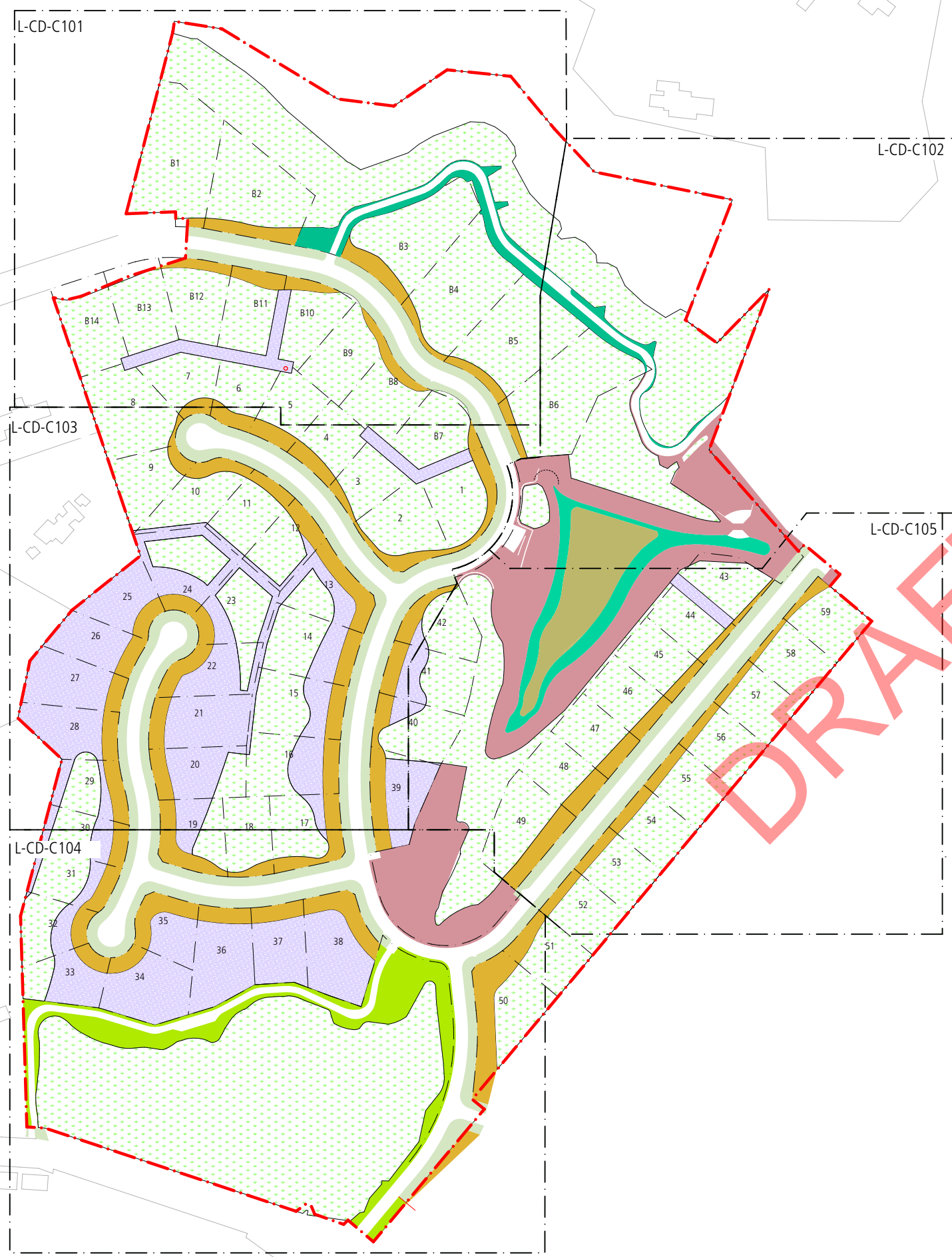
DRAWING INDEX

Drawing No:	Drawing Name	Current Rev.
L-CD-C000	Cover Page/Key Plan	G
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L-CD-C002	Landscape Specification & Material & Tree Schedule	D
L-CD-C003	Tree Removal & Protection Plan (North)	C
L-CD-C004	Tree Removal & Protection Plan (South)	D
L-CD-C101	Streetscape: Landscape General Arrangement Plan	E
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DA0438/14 - LOT B'1
 DA0452/14 - LOT B'2
 DA0451/14 - LOT B'3-B'14
 DA0467/15 - LOT 1-59



Key Plan

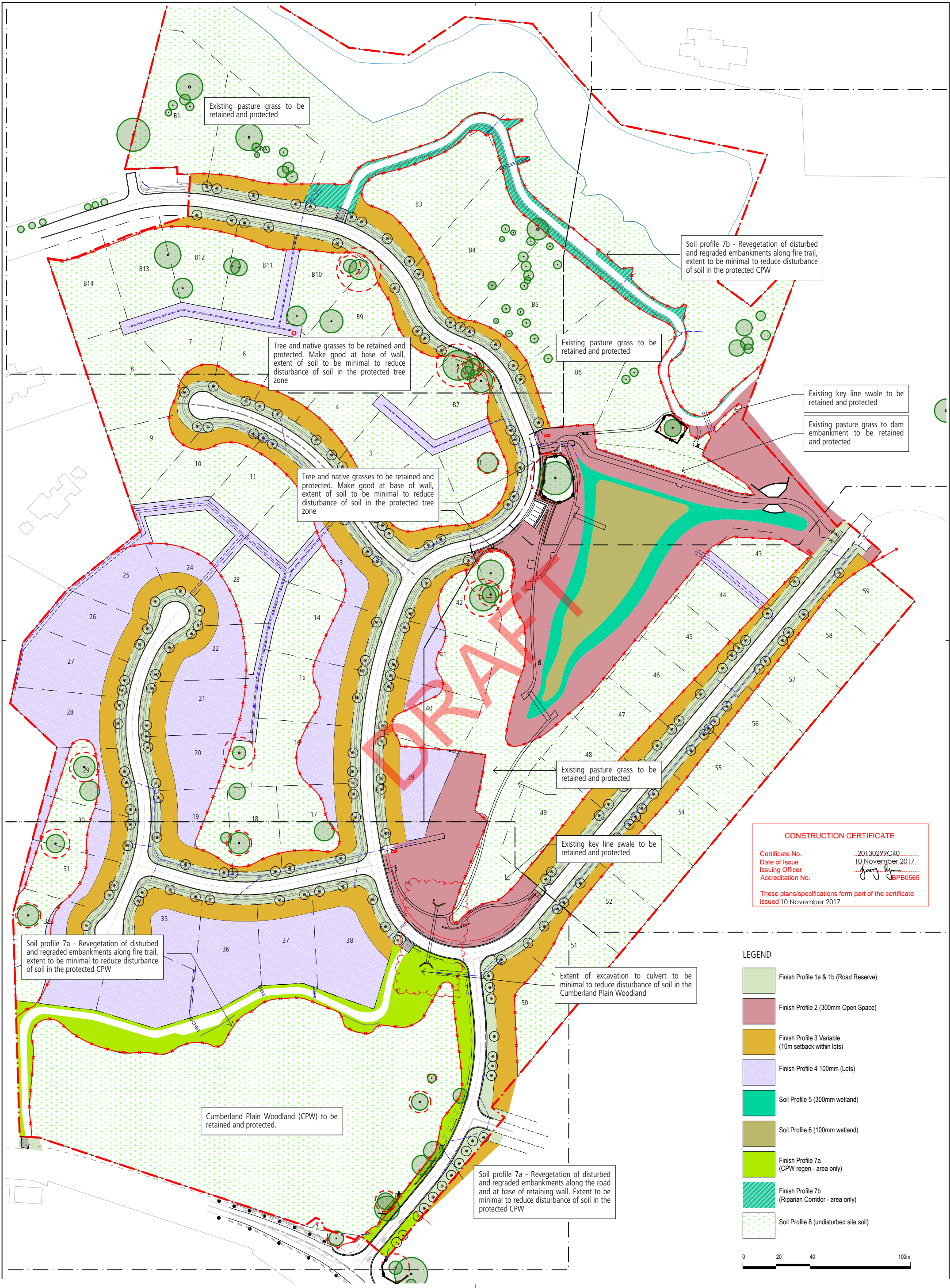


Key Plan

DRAFT

DATE :
October 2017

ISSUE :
For CC



Soil profile 7b - Revegetation of disturbed and regraded embankments along fire trail, extent to be minimal to reduce disturbance of soil in the protected CPW

Existing pasture grass to be retained and protected

Tree and native grasses to be retained and protected. Make good at base of wall, extent of soil to be minimal to reduce disturbance of soil in the protected tree zone

Existing pasture grass to be retained and protected

Existing key line swale to be retained and protected

Existing pasture grass to dam embankment to be retained and protected

Tree and native grasses to be retained and protected. Make good at base of wall, extent of soil to be minimal to reduce disturbance of soil in the protected tree zone

Existing pasture grass to be retained and protected

Existing key line swale to be retained and protected

Soil profile 7a - Revegetation of disturbed and regraded embankments along fire trail, extent to be minimal to reduce disturbance of soil in the protected CPW

Extent of excavation to culvert to be minimal to reduce disturbance of soil in the Cumberland Plain Woodland

Cumberland Plain Woodland (CPW) to be retained and protected.

Soil profile 7a - Revegetation of disturbed and regraded embankments along the road and at base of retaining wall. Extent to be minimal to reduce disturbance of soil in the protected CPW

CONSTRUCTION CERTIFICATE

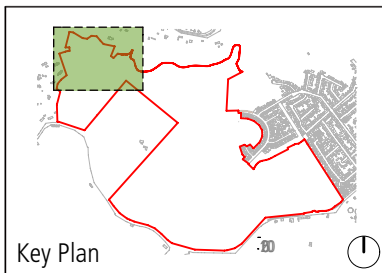
Certificate No. ...20130299C40...
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- LEGEND**
- Finish Profile 1a & 1b (Road Reserve)
 - Finish Profile 2 (300mm Open Space)
 - Finish Profile 3 Variable (10m setback within lots)
 - Finish Profile 4 100mm (Lots)
 - Soil Profile 5 (300mm wetland)
 - Soil Profile 6 (100mm wetland)
 - Finish Profile 7a (CPW regen - area only)
 - Finish Profile 7b (Riparian Corridor - area only)
 - Soil Profile 8 (undisturbed site soil)



G	Culvert length changed, issue for CC	31/07/17
F	Finalist & latter amended,	20/07/17
E	Finalist Profile 7 split 7a & 7b	01/08/17
D	Profile colours amended, Areas un-	22/11/16
C	changes	
B	Fire trails widened	05/09/16
A	For Tender	02/08/16
	For information	20/07/16
REVISION	DESCRIPTION	DATE



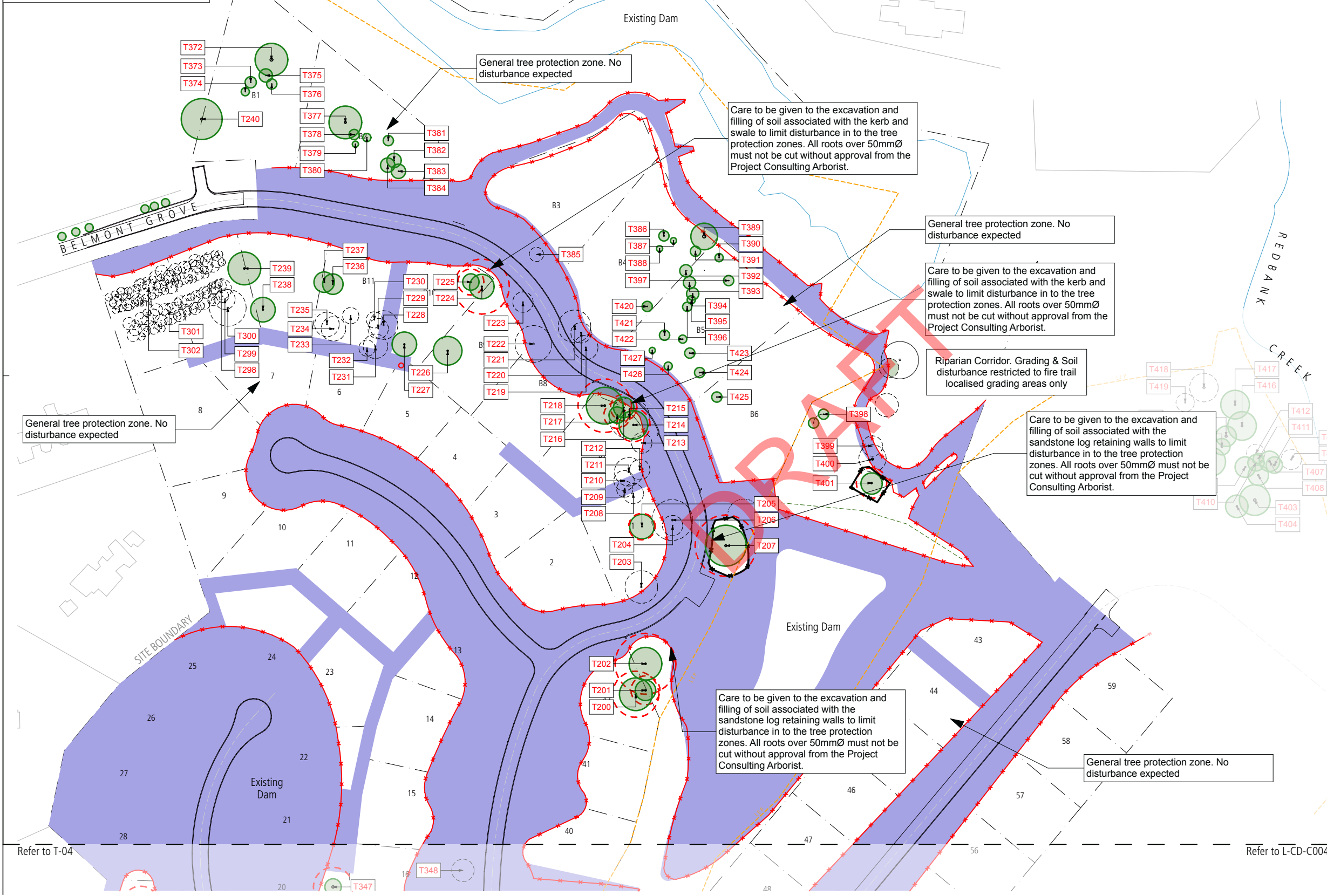
Key Plan

NOTES
 1. All trees outside of the extent of works shall be retained and protected. Seek advice from the nominated, superintendent and/or the Consulting Arborist for all works or access requirements that may impact on trees outside of the extent of works illustrated on this plan.

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LEGEND

- Tree Protection Zone (TPZ) outside of trees to be retained and protected
- Existing Tree Retained
- Existing Tree Removed (Note: no TPZ's shown for these trees)
- T388 Tree Identification Number
- Site Disturbance (due to roadworks, grading, stockpiling and services. No trees able to be retained in this area.)
- Star Picket / Flagging Fence by Civil to indicate extent of grading and undisturbed & protected site soil zones
- 1.8m high chainlink temporary fencing around trees as indicated



Pre-Civil Works - Felling of Trees Identified for Removal:
 All trees shown with the identification number have been tagged on site. Trees indicated to be removed must be clearly identified by the Civil Contractor and approved by the Project Arborist before removal has commenced.

All felled trees and debris resulting from the approved clearing is to be re-used onsite as habitat or chipped and/or mulched. Tree trunks are to be recovered for use as habitat, posts, firewood or other appropriate use to be approved.

No vegetation is to be disposed of by burning.

Felling of hollow-bearing trees is to be conducted under the supervision of a fauna ecologist to ensure appropriate animal welfare procedures are carried out, particularly threatened species.

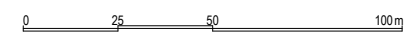
Any fauna species found to be nesting or roosting are to be safely relocated by a qualified ecologist. All works to cease until safe / advised by fauna ecologist.

Refer to DA0467/15 for Conditions of Consent

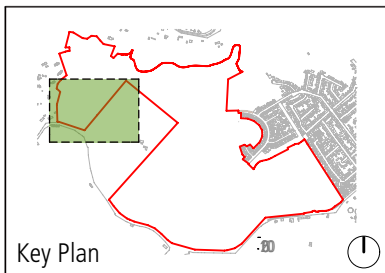


Tree Protection Fencing
 Tree protection fencing, as per the adjoining image, are to be erected in the location indicated on the plan, prior to beginning any site clearing, demolition or construction work.

All tree protection fencing shall preferably be 1800mm high galvanised chain wire or welded mesh. Posts to sit within plastic feet at grade



REVISION	DESCRIPTION	CHKD	DATE
C	Issue for CC	DSO	20/07/17
B	GVR Intersection & Belmont Extension areas removed from package. Issue for CC	DSO	3/08/16
A	For Tender	DSO	14/07/16



Key Plan

NOTES
 1. All trees outside of the extent of works shall be retained and protected. Seek advice from the nominated, superintendent and/or the Consulting Arborist for all works or access requirements that may impact on trees outside of the extent of works illustrated on this plan.

PROPOSED TREES TO BE RETAINED

Very Low Value	-
Low Value	7
Moderate Value	27
High Value	40
TOTAL	74

PROPOSED TREES TO BE REMOVED

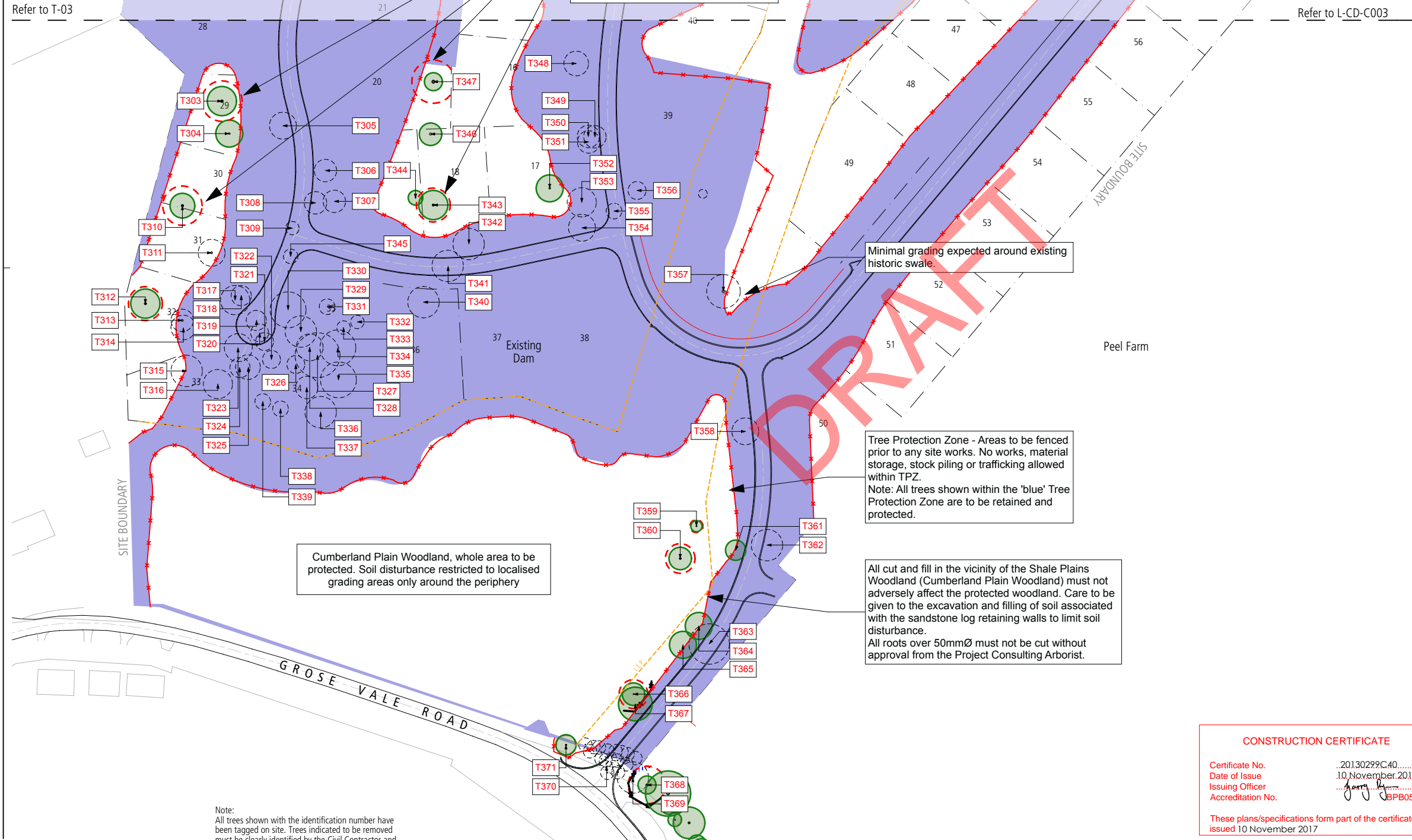
Very Low Value	16
Low Value	132
Moderate Value	60
High Value	11
TOTAL	219

CONDITION / RETENTION VALUE ANALYSIS

Very Low Value	16 (5.5%)
Low Value	139 (47.4%)
Moderate Value	87 (29.7%)
High Value	51 (17.4%)
TOTAL	293

LEGEND

- Tree Protection Zone (TPZ) outside of trees to be retained and protected
- Existing Tree Retained
- Existing Tree Removed (Note: no TPZ's shown for these trees)
- Tree Identification Number
- Site Disturbance (due to roadworks, grading, stockpiling and services. No trees able to be retained in this area.)
- Star Picket / Flagging Fence by Civil to indicate extent of grading and undisturbed & protected site soil zones
- 1.8m high chainlink temporary fencing around trees as indicated



Tree Protection Zone - Areas to be fenced prior to any site works. No works, material storage, stock piling or trafficking allowed within TPZ.
 Note: All trees shown within the 'blue' Tree Protection Zone are to be retained and protected.

Minimal grading expected around existing historic swale.

Tree Protection Zone - Areas to be fenced prior to any site works. No works, material storage, stock piling or trafficking allowed within TPZ.
 Note: All trees shown within the 'blue' Tree Protection Zone are to be retained and protected.

All cut and fill in the vicinity of the Shale Plains Woodland (Cumberland Plain Woodland) must not adversely affect the protected woodland. Care to be given to the excavation and filling of soil associated with the sandstone log retaining walls to limit soil disturbance.
 All roots over 50mmØ must not be cut without approval from the Project Consulting Arborist.

Cumberland Plain Woodland, whole area to be protected. Soil disturbance restricted to localised grading areas only around the periphery

Note:
 All trees shown with the identification number have been tagged on site. Trees indicated to be removed must be clearly identified by the Civil Contractor and

Pre-Civil Works - Felling of Trees Identified for Removal:
 All trees shown with the identification number have been tagged on site. Trees indicated to be removed must be clearly identified by the Civil Contractor and approved by the Project Arborist before removal has commenced.

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No vegetation is to be disposed of by burning.

Felling of hollow-bearing trees is to be conducted under the supervision of a fauna ecologist to ensure appropriate animal welfare procedures are carried out, particularly threatened species.

Any fauna species found to be nesting or roosting are to be safely relocated by a qualified ecologist. All works to cease until safe / advised by fauna ecologist.

Refer to DA0467/15 for Conditions of Consent



Tree Protection Fencing
 Tree protection fencing, as per the adjoining image, are to be erected in the location indicated on the plan, prior to beginning any site clearing, demolition or construction work.

All tree protection fencing shall preferably be 1800mm high galvanised chain wire or welded mesh. Posts to sit within plastic feet at grade

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D	T357 in decline / moribund. Shown as removed. Issue for CC	D50	20/07/17
C	T363, T364, T365, and T367 Retained	D50	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	D50	02/08/16
A	For Tender	D50	14/07/16
REVISION	DESCRIPTION	CHKD	DATE

CONSTRUCTION CERTIFICATE

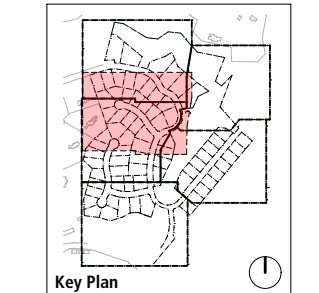
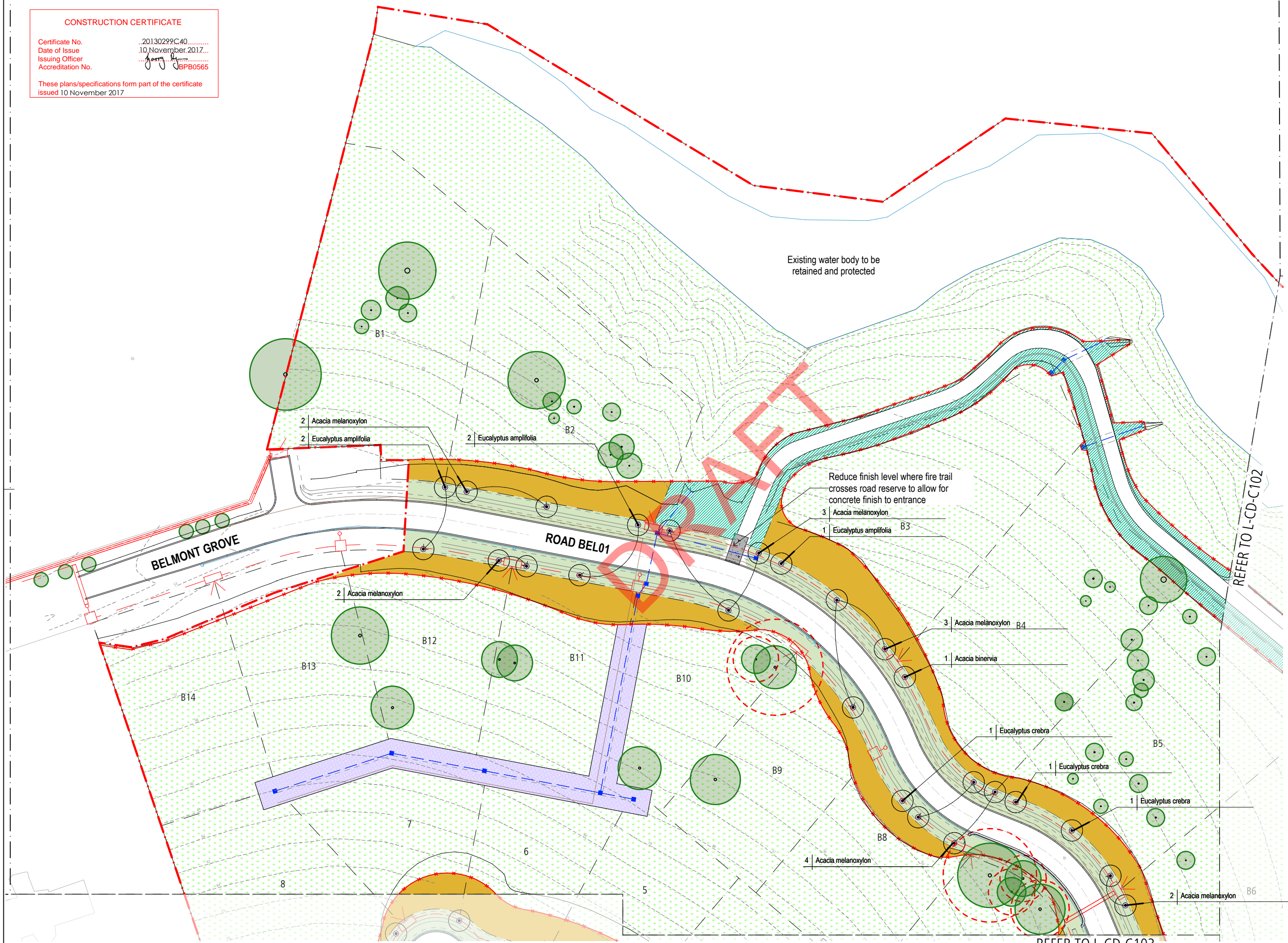
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- LEGEND**
- Existing Contours
 - Stormwater pit / swale & s.w. line
 - Legend - Civil Landscape Works**
 - Existing Tree to be retained
 - Street Tree in mulch surround
 - Finish Profile 1a and 1b (Road Reserve)
 - Finish Profile 2 (300mm Open Space)
 - Finish Profile 3 Variable (10m setback within lots)
 - Finish Profile 4 100mm (Lots)
 - Soil Profile 5 (300mm wetland)
 - Soil Profile 6 (100mm wetland)
 - Finish Profile 7a (CPW regen - native)
 - Finish Profile 7b (Riparian regen - native)
 - Soil Profile 8 (undisturbed site soil)
 - Exclusion Zone Fence 'Star Picket Fence' - Maximum Extent of Grading
 - Sandstone 'log' Retaining Wall to civil engineers detail
 - Fire trail entrance reduced depth
 - Carpark base to extend under location of path to civil engineers detail
 - Tree Protection Fencing - refer to Tree Protection & Removal Plans L-CD-C003 & C004



REVISION	DESCRIPTION	CHKD	DATE
E	Street tree locations amended	DSO	31/10/17
D	Fire trail & batter amended. Issue for CC	DSO	20/07/17
C	Fire trail widened	DSO	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	DSO	02/08/16
A	For Tender	DSO	14/07/16

PROJECT & CLIENT
 Redbank
 DA12 - Belmont Precinct

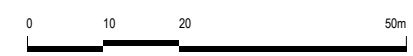
NORTH RICHMOND JOINT VENTURE

DRAWING TITLE
 Streetscape: Landscape General Arrangement Plan

Project No : 16.09
 Designed : artterra
 Drawn : artterra
 Scale : 1:500@A1, 1:1000@A3

CIVIL LANDSCAPE

DRAWING NUMBER: L-CD-C101
 REVISION: E



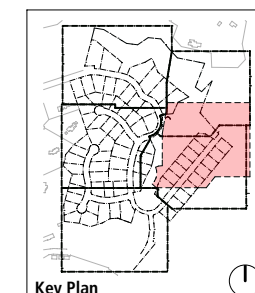
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REVISION	DESCRIPTION	CHKD	DATE
E	Street tree locations amended		31/10/17
D	Fire trail & batter amended. Issue for CC	DSO	20/07/17
C	Fire trail widened	DSO	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender For Tender	DSO	02/08/16
A		DSO	14/07/16

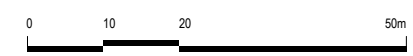
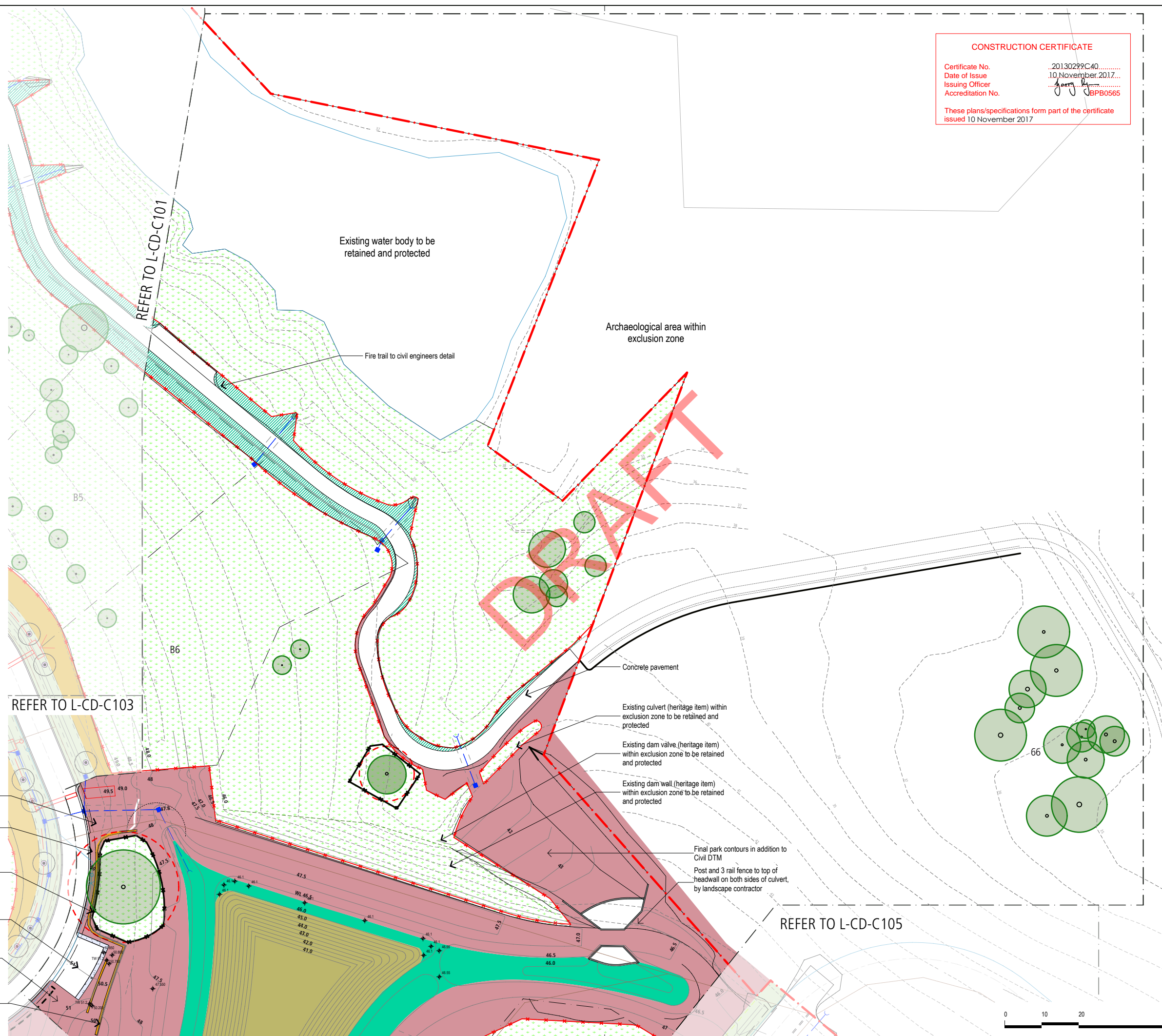
PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE
DRAWING TITLE
Streetscape: Landscape General Arrangement Plan

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : 1:500@A1, 1:1000@A3

CIVIL LANDSCAPE
DRAWING NUMBER
L-CD-C102

REVISION
E

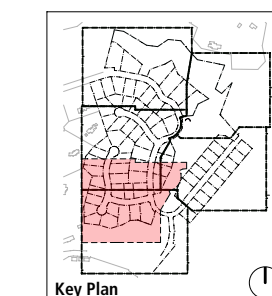


LEGEND

- Existing Contours
- Stormwater pit / swale & s.w. line

Legend - Civil Landscape Works

- Existing Tree to be retained
- Street Tree in mulch surround
- Finish Profile 1a and 1b (Road Reserve)
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- Finish Profile 7b (Riparian regen - native)
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- Tree Protection Fencing - refer to Tree Protection & Removal Plans L-CD-C003 & C004



REVISION	DESCRIPTION	CHKD	DATE
C	Street tree locations amended	DSO	31/10/17
B	GVR Intersection & Belmont Extension areas removed from package - Issue for CC For Tender	DSO	20/07/17
A		DSO	14/07/16

PROJECT & CLIENT

Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

DRAWING TITLE
Streetscape Landscape
General Arrangement Plan

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : 1:500@A1, 1:1000@A3

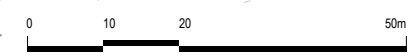
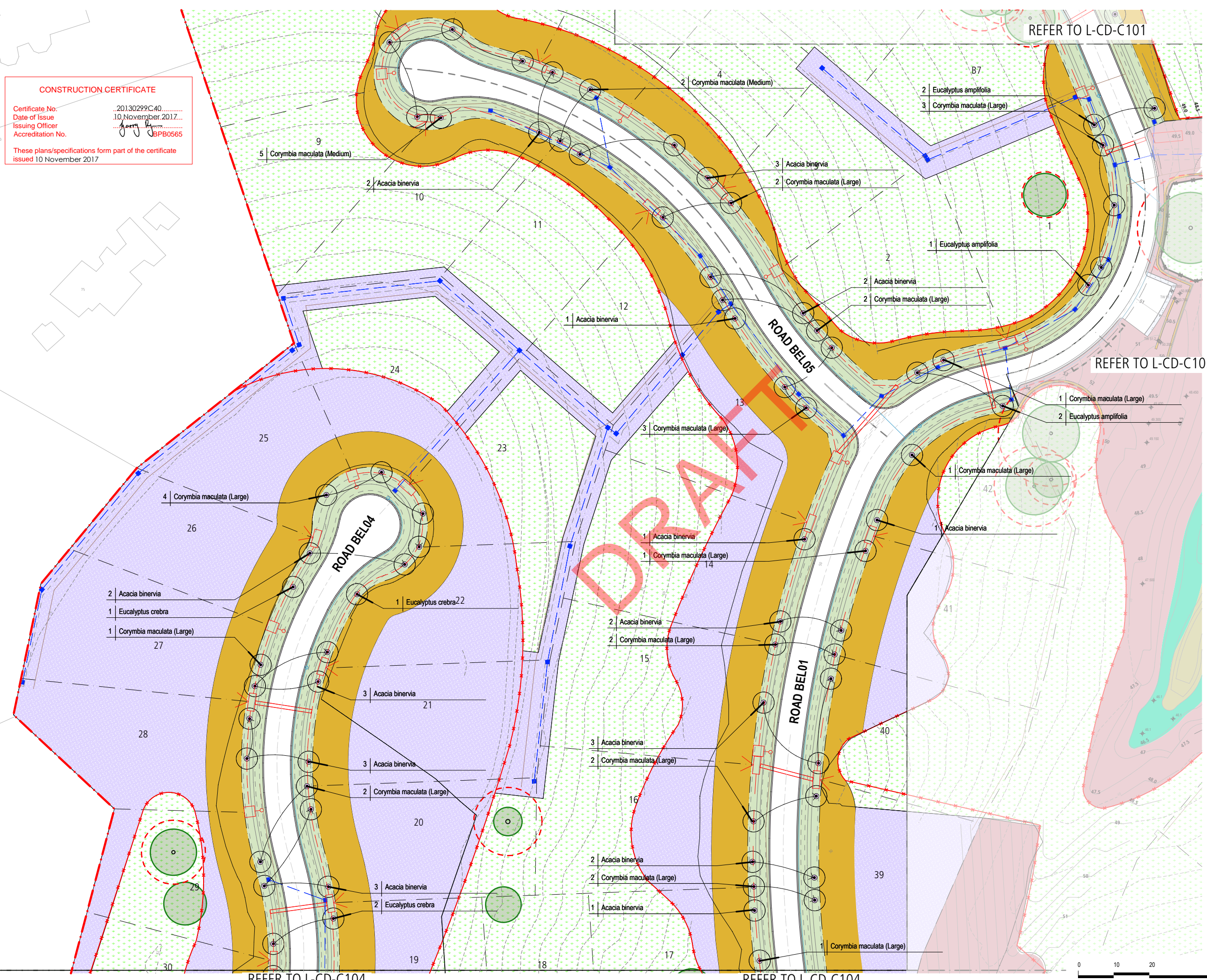
CIVIL LANDSCAPE

DRAWING NUMBER
L-CD-C103

CONSTRUCTION CERTIFICATE

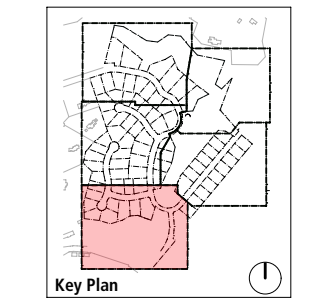
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LEGEND

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REVISION	DESCRIPTION	CHKD	DATE
F	Street tree locations amended	DSO	31/10/17
E	Culvert length changed, issue CC	DSO	31/07/17
D	Fire trail & batter amended.	DSO	20/07/17
C	Fire trail widened	DSO	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender For Tender	DSO	02/08/16
A		DSO	14/07/16

PROJECT & CLIENT
Redbank

DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

DRAWING TITLE
Streetscape Landscape General Arrangement Plan

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : 1:500@A1, 1:1000@A3

CIVIL LANDSCAPE

DRAWING NUMBER
L-CD-C104

Plotted at : 2:07 pm 1/11/17

REFER TO L-CD-C103

REFER TO L-CD-C103

1 Corymbia maculata (Large)

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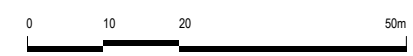
Final park contours in addition to Civil DTM
Post and 3 rail fence to top of all headwalls by landscape contractor

REFER TO L-CD-C105

Reduce finish level by -200mm where fire trail crosses road reserve to allow for concrete finish to entrance, by landscape contractor

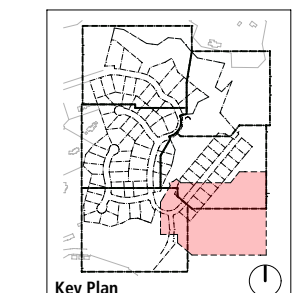
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- Fire trail entrance reduced depth
- Carpark base to extend under location of path to civil engineers detail
- Tree Protection Fencing - refer to Tree Protection & Removal Plans L-CD-C003 & C004



REVISION	DESCRIPTION	CHKD	DATE
D	Street tree locations amended		31/10/17
C	Issue for CC	DSO	20/07/17
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	DSO	02/08/16
A	For Tender	DSO	14/07/16

PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE
DRAWING TITLE
Streetscape Landscape General Arrangement Plan

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : 1:500@A1, 1:1000@A3

CIVIL LANDSCAPE
DRAWING NUMBER
L-CD-C105

Final park contours in addition to Civil DTM
Water source pipes to be laid underground and to terminate at future picnic area
Sandstone 'log' retaining wall to Tree Protection Zone, to civil engineers detail.
Limit soil disturbance at base of wall.

REFER TO L-CD-C102

REFER TO L-CD-C104

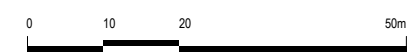
ROAD BEL01



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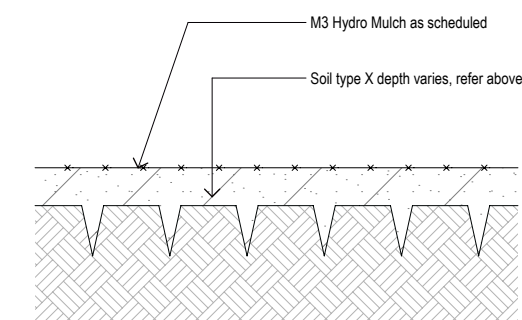
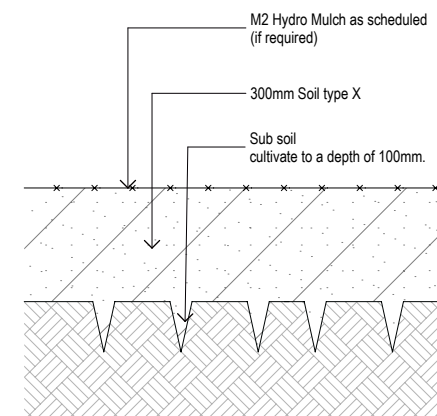
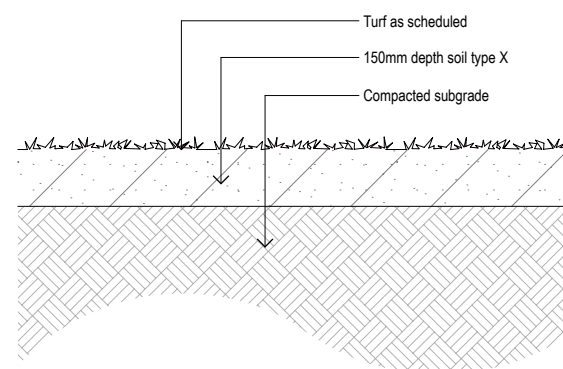
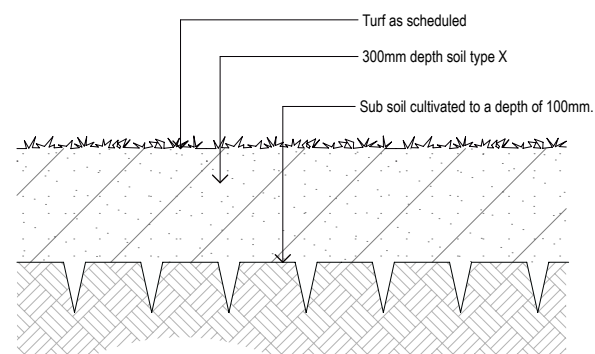
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Note: Soil type X depth varies; refer below and to finishes plan for finish profile locations:

FINISH PROFILE 3 - 100-300mm depth within 10m building front setback within lots
FINISH PROFILE 4 - 100mm depth within the remainder of the lots, where indicated

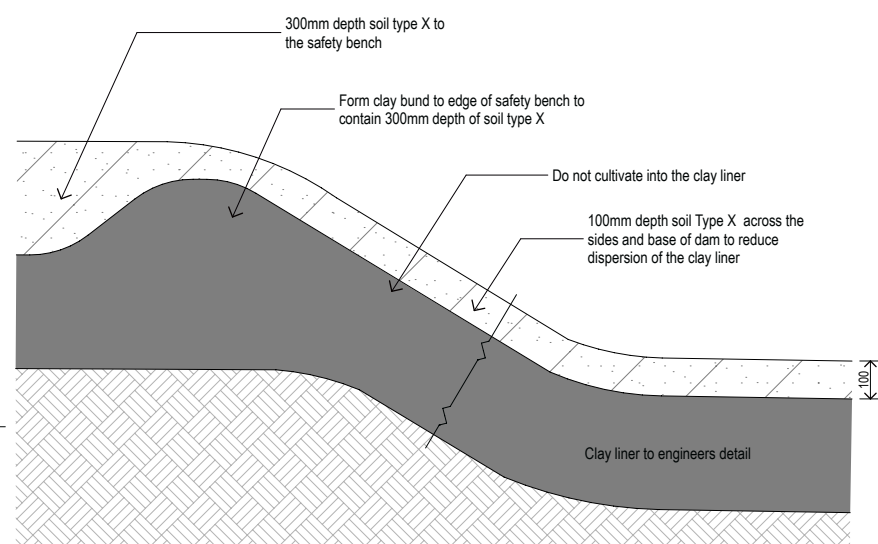


A1 FINISH PROFILE 1 A (ROAD RESERVE) Scale 1:10

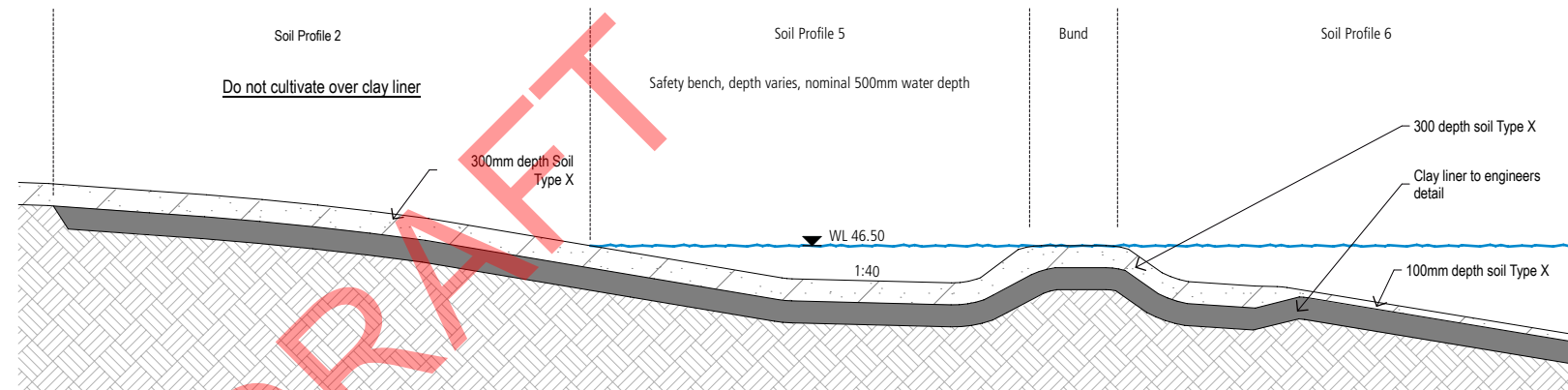
A2 FINISH PROFILE 1 B (ROAD RESERVE SHOULDER) Scale 1:10

B FINISH PROFILE 2 (M2 HYDROMULCH) Scale 1:10

C FINISH PROFILE 3 & 4 (M3 HYDROMULCH) Scale 1:10



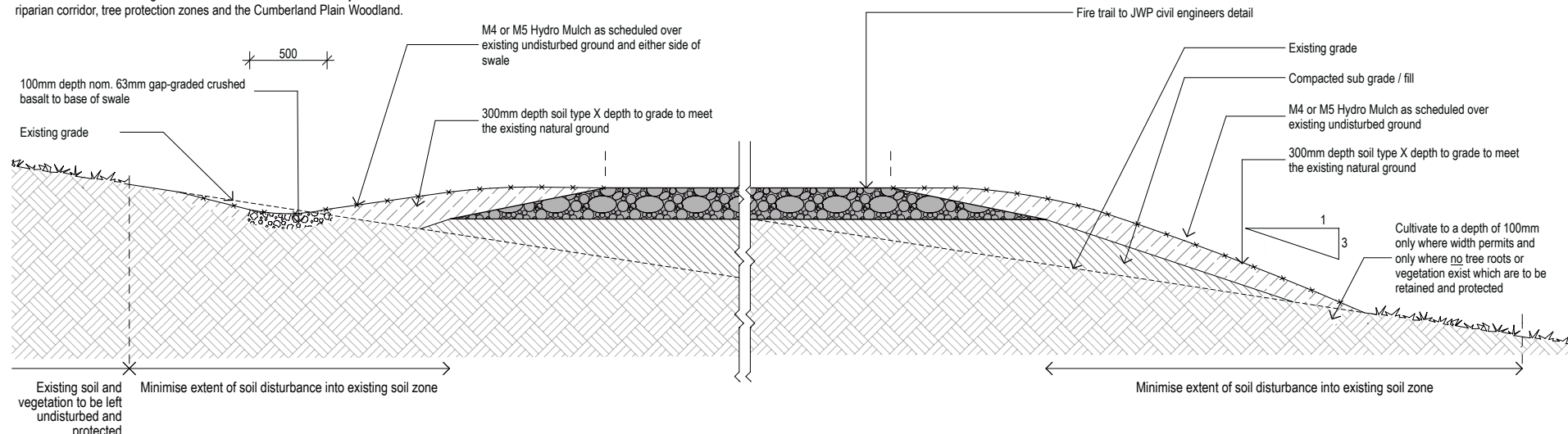
D FINISH PROFILE 5 & 6 (WETLAND) Scale 1:10



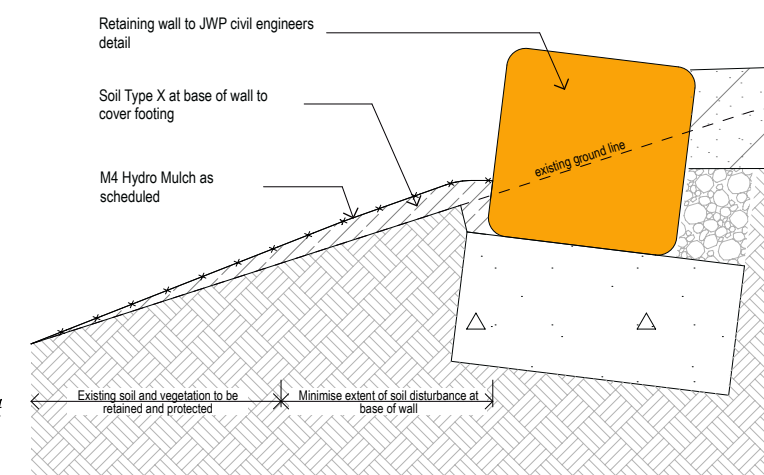
E TYPICAL WETLAND PROFILE Scale 1:50

Note: M4 & M5 Hydromulch uses a particular native seed mix subject to the area:
M4 - is only to be used in the Cumberland Plain Woodland (Finish Profile 7a)
M5 - is only to be used in the Riparian Corridor (Finish Profile 7b)

Note: Soil profile 7 is to be used in areas where minor stripping and re-grading of the existing soil is required due to the construction of the fire trails and the construction of the retaining walls in association with the roads adjacent to the riparian corridor, tree protection zones and the Cumberland Plain Woodland.



F FINISH PROFILE 7a & 7b (NATIVE PLANTING) SECTION ADJACENT TO FIRE TRAIL Scale 1:20



G FINISH PROFILE 7a (NATIVE PLANTING) SECTION AT BASE OF RETAINING WALL Scale 1:10

REVISION	DESCRIPTION	CHKD	DATE
I	Soil Types amended Issue for CC	DSO	27/10/17
H	Profile 1a,2 amend. Issue for CC	RWS	04/08/17
G	Firetrail reduced. Issue for CC	DSO	31/07/17
F	Profile 7 amended.	DSO	20/07/17
E	Profile 1a amended	DSO	22/11/16
D	Profile 2, 3 & 4 amended	EP	27/10/16
C	Fire trail widened	DSO	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	DSO	02/08/16
A	For Tender	DSO	14/07/16

PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct
NORTH RICHMOND JOINT VENTURE
DRAWING TITLE
Typical Section Details

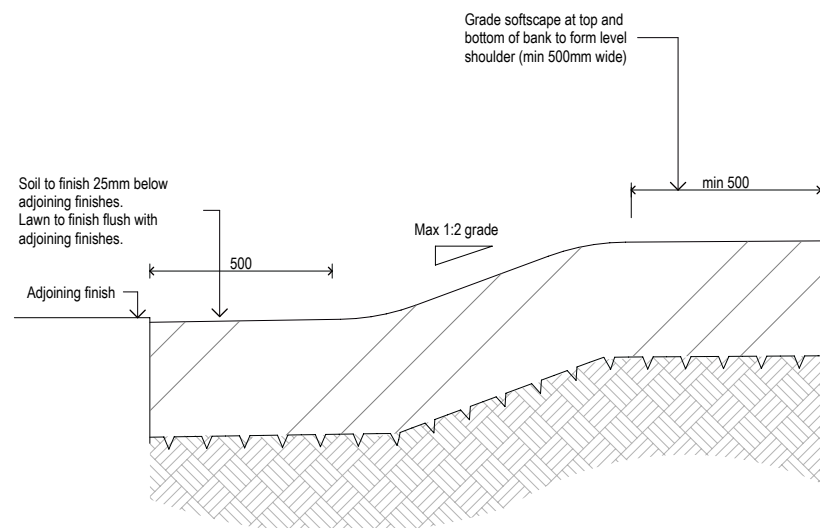
Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : AS@A1

CIVIL LANDSCAPE
DRAWING NUMBER
L-CD-C300

CONSTRUCTION CERTIFICATE

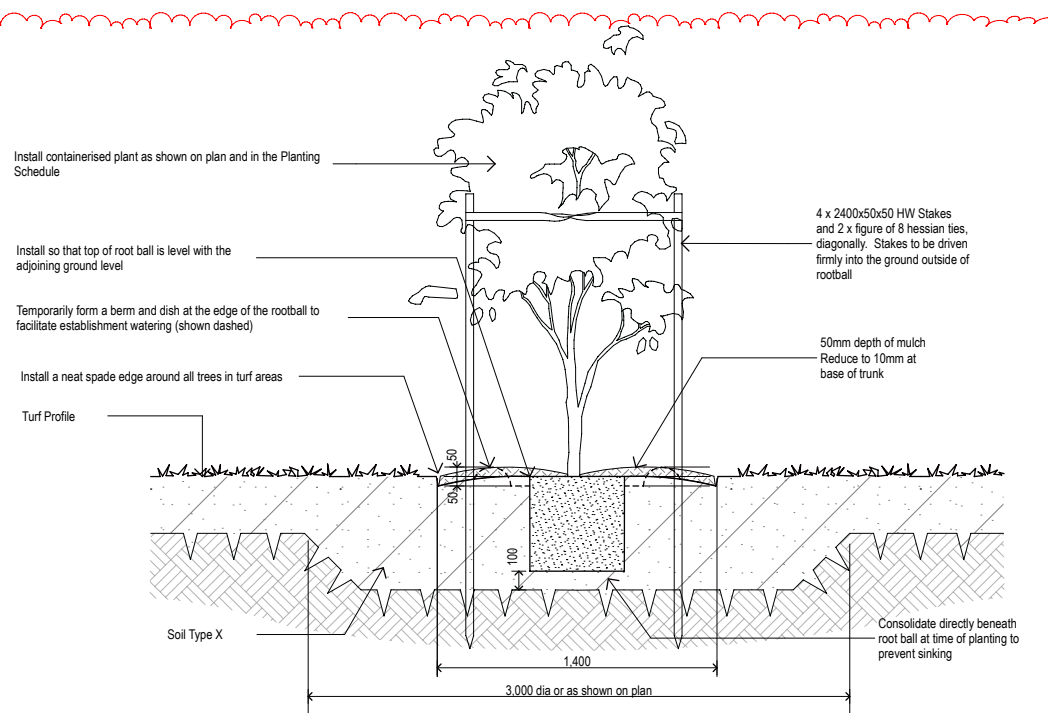
Certificate No. 20130299C40
Date of Issue 10 November 2017
Issuing Officer [Signature]
Accreditation No. BPB0565

These plans/specifications form part of the certificate issued 10 November 2017



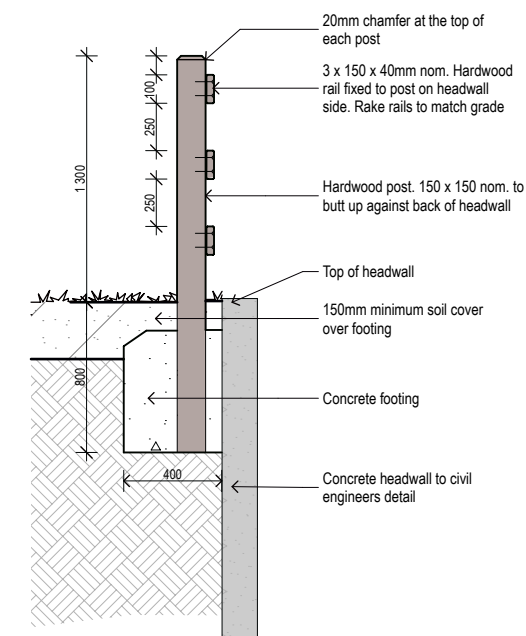
A EMBANKMENT GRADING
TYPICAL SECTION

Scale 1:10



B TYPICAL TREE PLANTING DETAIL
IN TURF PROFILE

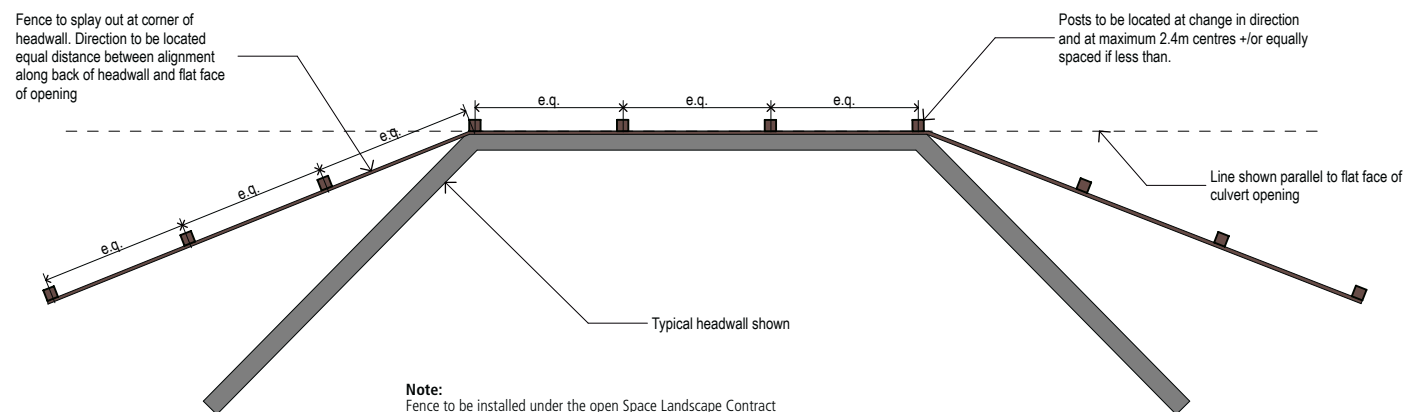
Scale 1:20



F FENCE TYPE 1
ARRANGEMENT AT TOP OF HEADWALL

Scale 1:20

Note:
Fence to be installed under the open Space Landscape Contract

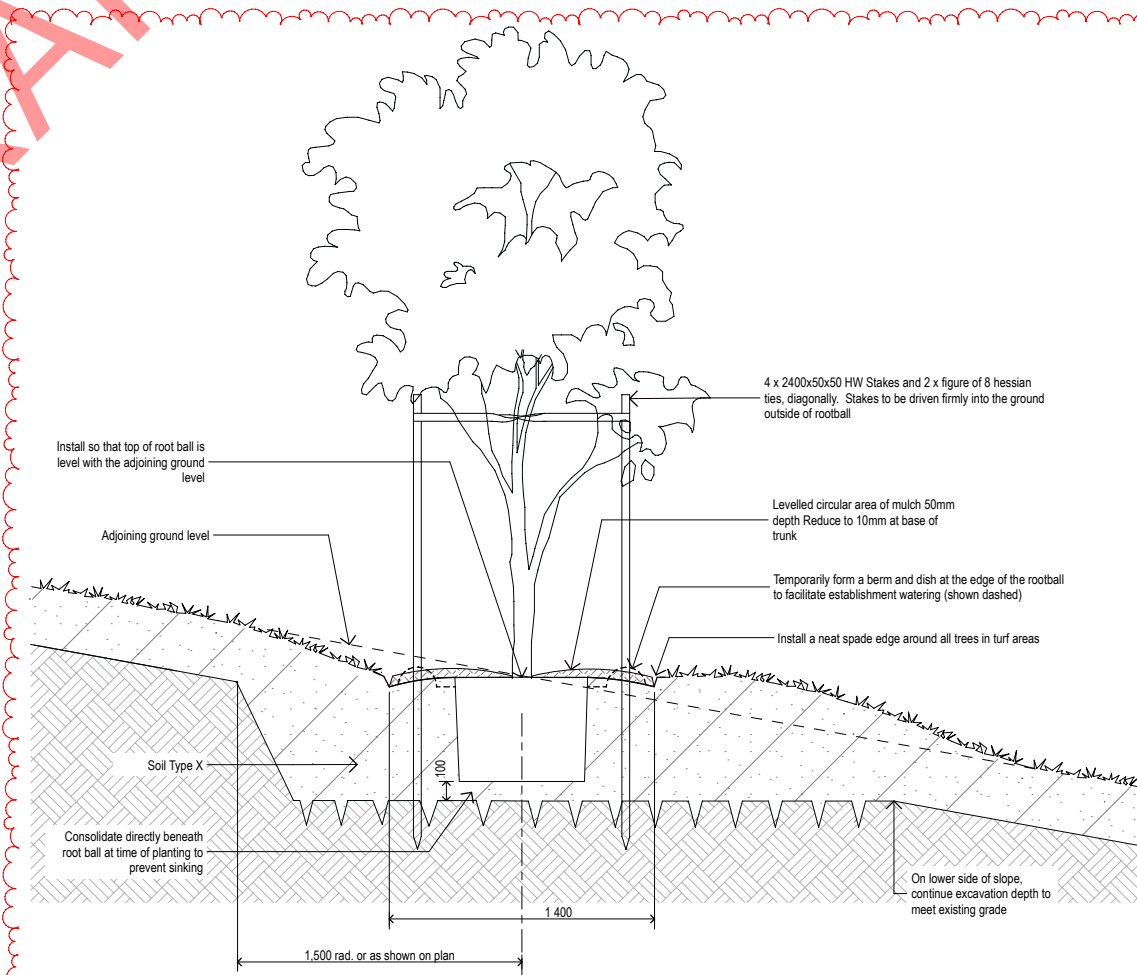


E FENCE TYPE 1 TO TOP OF HEADWALL
GENERAL ARRANGEMENT PLAN

Scale 1:50

Note:
Fence to be installed under the open Space Landscape Contract

DRAFT



D TYPICAL LARGE TREE PLANTING IN TURF
ON A SLOPE (100L - 200L)

Scale 1:20

REVISION	DESCRIPTION	CHKD	DATE
D	Soil type A removed	DSO	27/10/17
C	Soil depth reduced in verge. Issue for CC	DSO	20/07/17
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	DSO	02/08/16
A	For Tender	DSO	14/07/16

PROJECT & CLIENT

Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

DRAWING TITLE
Typical Section Details

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : AS@A1

CIVIL LANDSCAPE

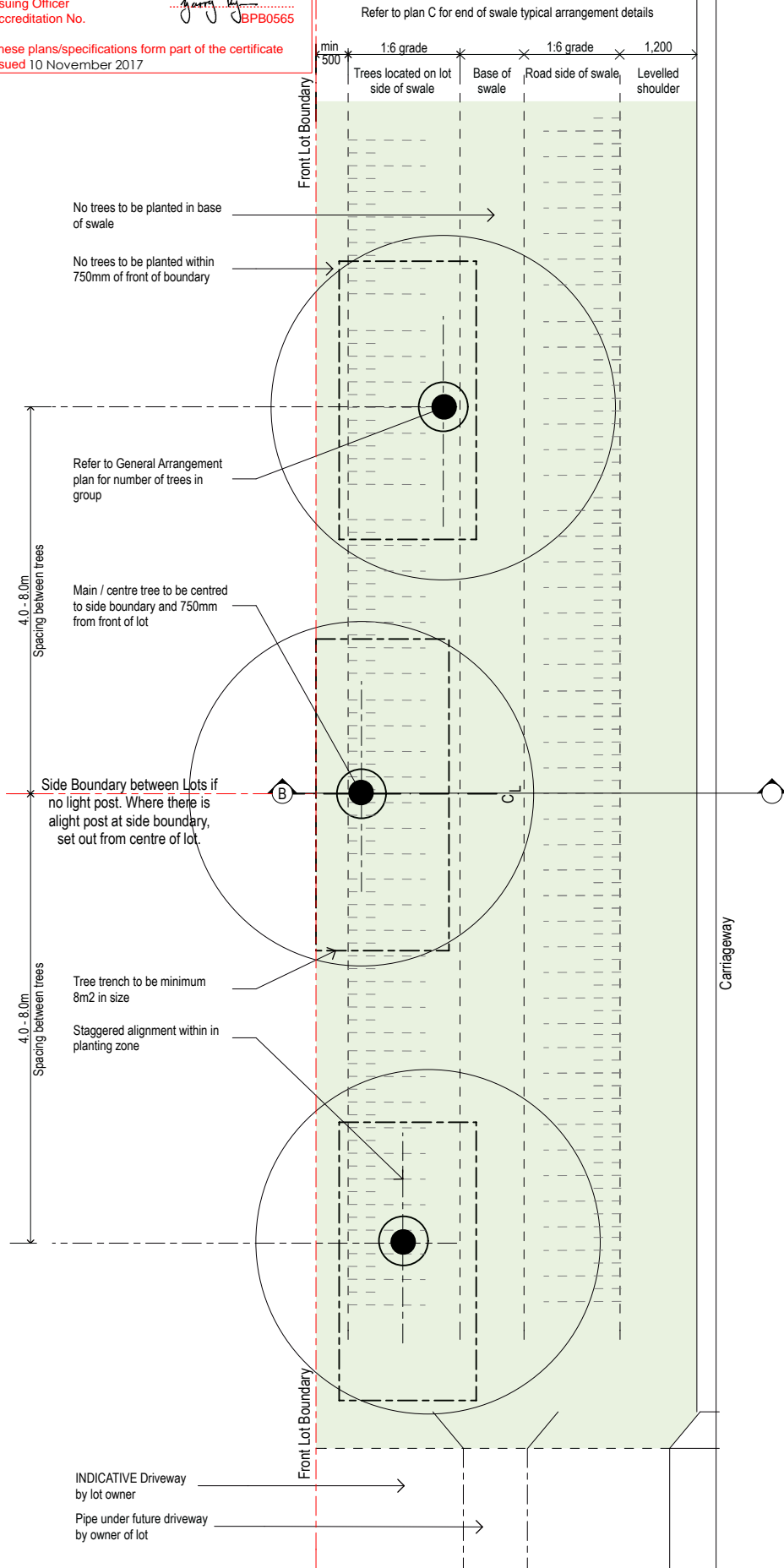
DRAWING NUMBER
L-CD-C301

REVISION
D

CONSTRUCTION CERTIFICATE

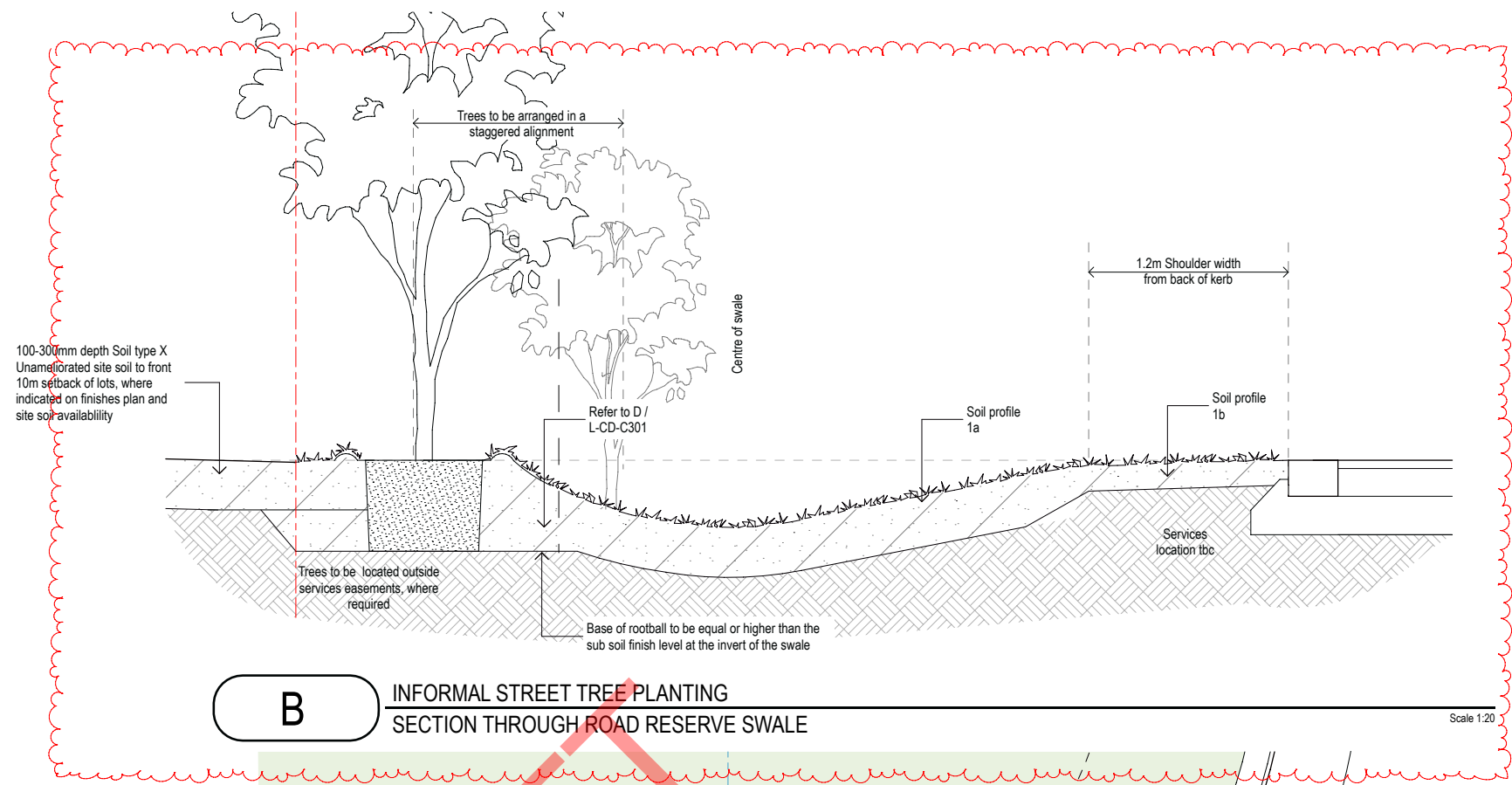
Certificate No. 20130299C40
 Date of Issue 10 November 2017
 Issuing Officer [Signature]
 Accreditation No. BPP0565

These plans/specifications form part of the certificate issued 10 November 2017



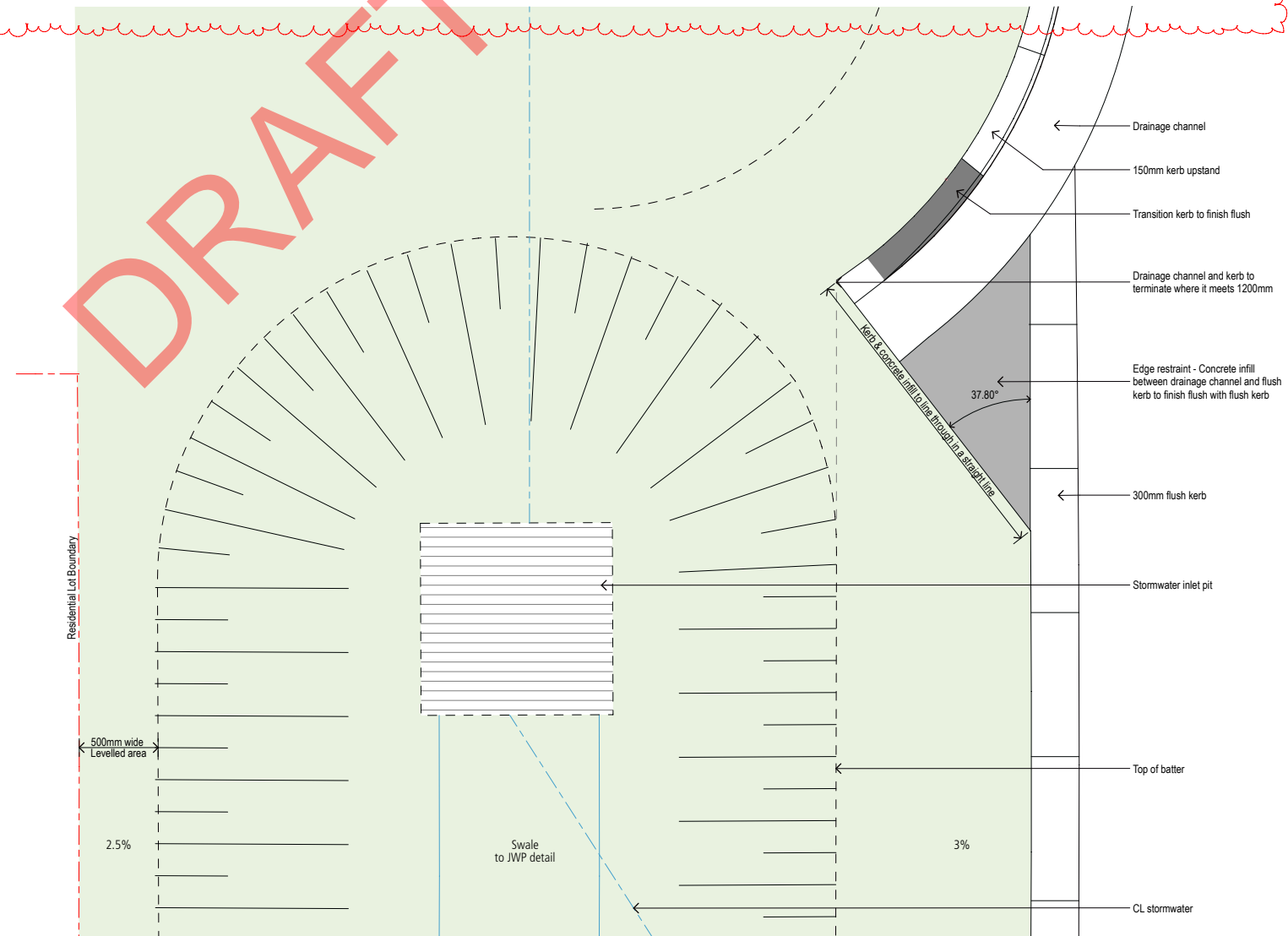
A STREET TREE PLANTING IN ROAD RESERVE & SWALE INFORMAL ARRANGEMENT PLAN

Scale 1:50



B INFORMAL STREET TREE PLANTING SECTION THROUGH ROAD RESERVE SWALE

Scale 1:20



C ROAD RESERVE & END OF SWALE TYPICAL PLAN WITH FLUSH KERB & STANDARD CONCRETE KERB INTERFACE JUNCTION

Scale 1:20

REVISION	DESCRIPTION	CHKD	DATE
F	Soil type A removed	DSO	27/10/17
E	Service note added. Issue for CC	DSO	31/07/17
D	Issue for CC	DSO	20/07/17
C	Soil depth reduced in verge	DSO	05/10/16
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender For Tender	DSO	02/08/16
A		DSO	14/07/16

PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

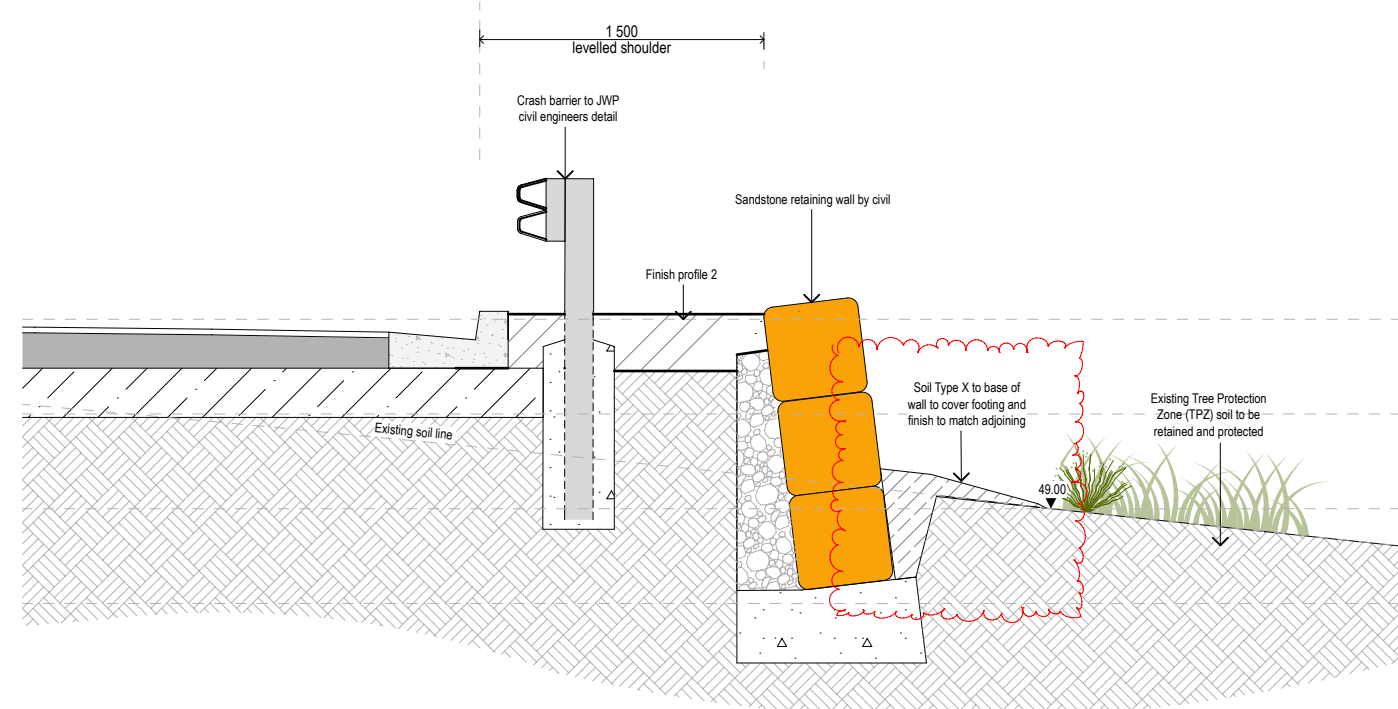
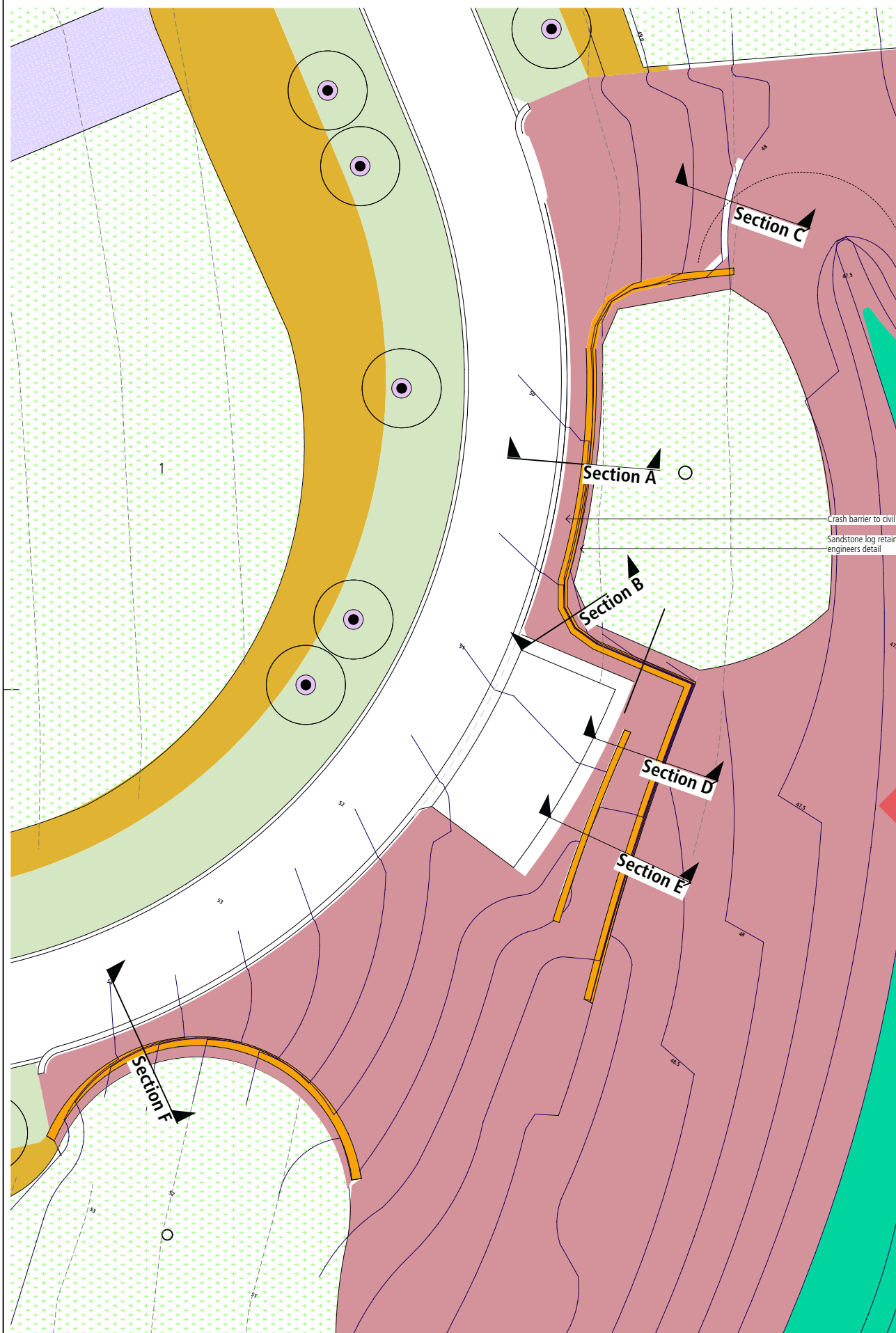
DRAWING TITLE
Typical Section Detail Road Reserve & Swale

Project No : 16.09
 Designed : arterra
 Drawn : arterra
 Scale : AS@A1

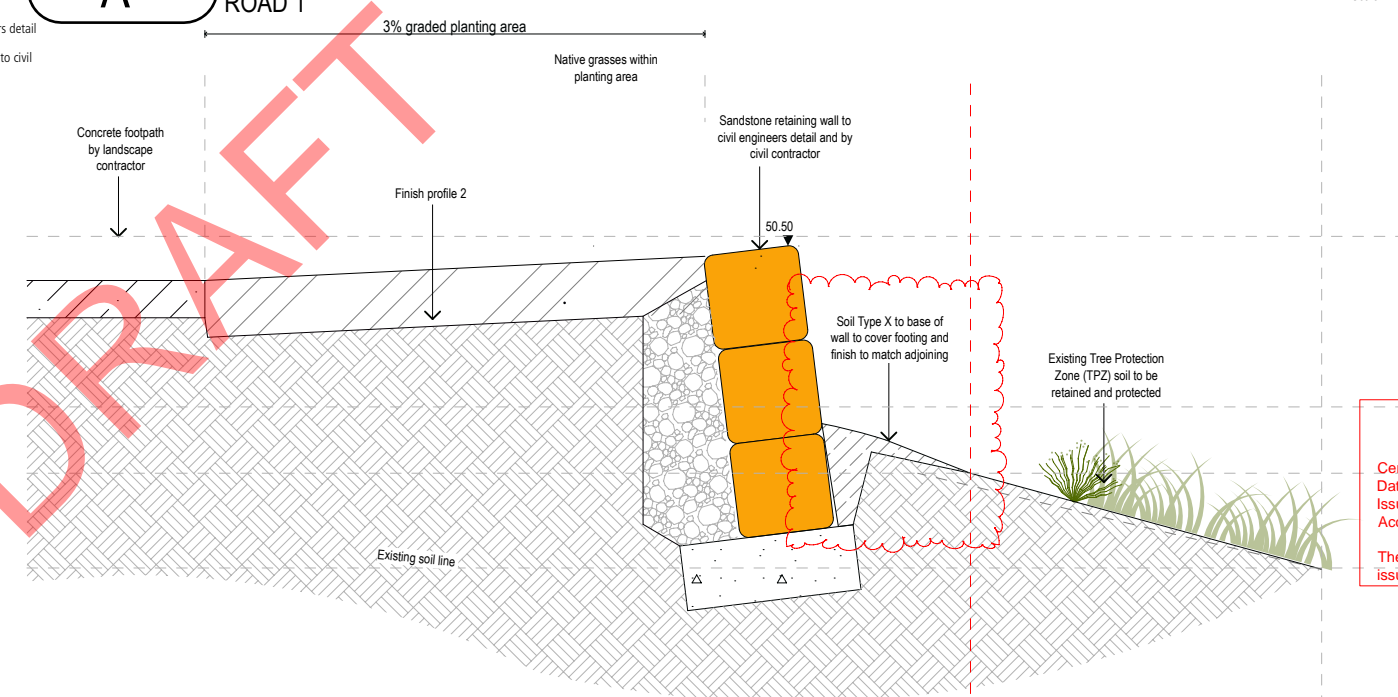
CIVIL LANDSCAPE

DRAWING NUMBER
L-CD-C302

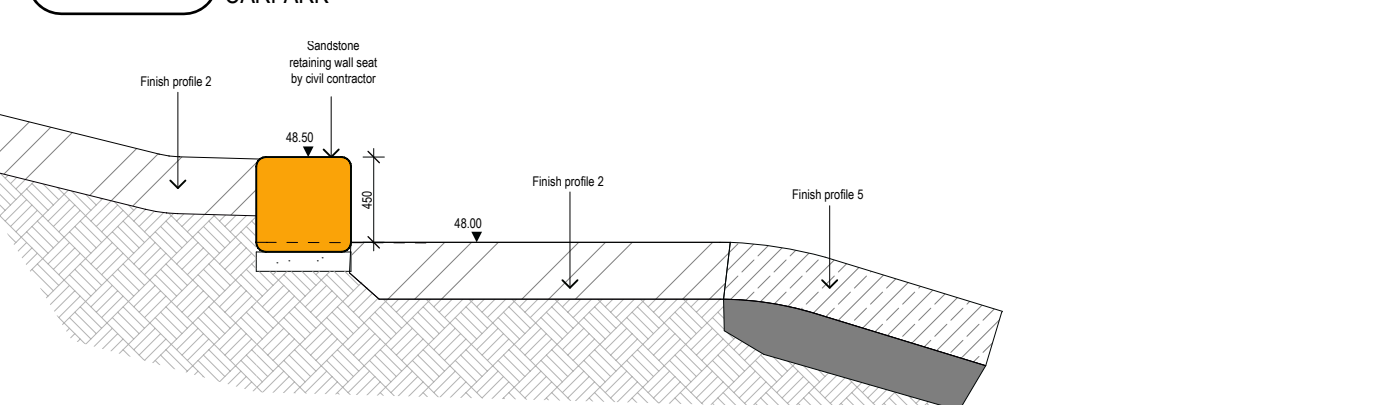
REVISION
F



A SECTION THROUGH TREE PROTECTION WALL & CRASH BARRIER ROAD 1 Scale 1:20



B SECTION THROUGH PATH, PLANTING, FENCE & TREE PROTECTION WALL CARPARK Scale 1:20



C RETAINING WALL SEAT & FINISH PROFILE 2 & 5 INTERFACE Scale 1:20

1 PLAN ROAD 1, TREE PROTECTION WALLS & CARPARK Scale 1:200

DRAFT

CONSTRUCTION CERTIFICATE

Certificate No. 20130299C40.....
Date of Issue 10 November 2017.....
Issuing Officer *[Signature]* BPB0565
Accreditation No. BPB0565

These plans/specifications form part of the certificate issued 10 November 2017

REVISION	DESCRIPTION	CHKD	DATE
D	Issue for CC. Changes Clouded	DSO	27/10/17
C	Issue for CC	DSO	20/07/17
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender For Tender	DSO	02/08/16
A		DSO	14/07/16

PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

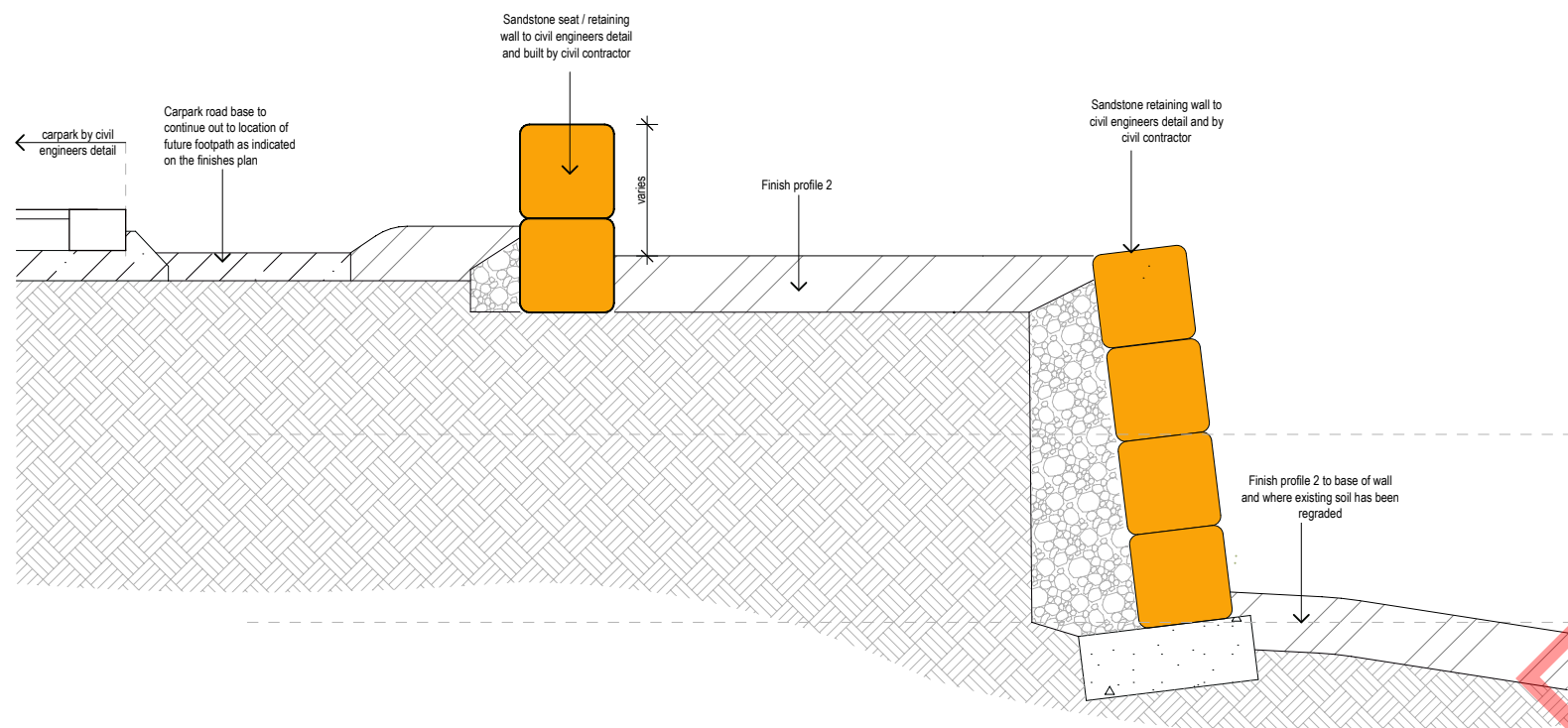
DRAWING TITLE
Tree Protection Wall Arrangement Sections

Project No : 16.09
Designed : arterra
Drawn : arterra
Scale : AS@A1

DRAWING NUMBER
L-CD-C303

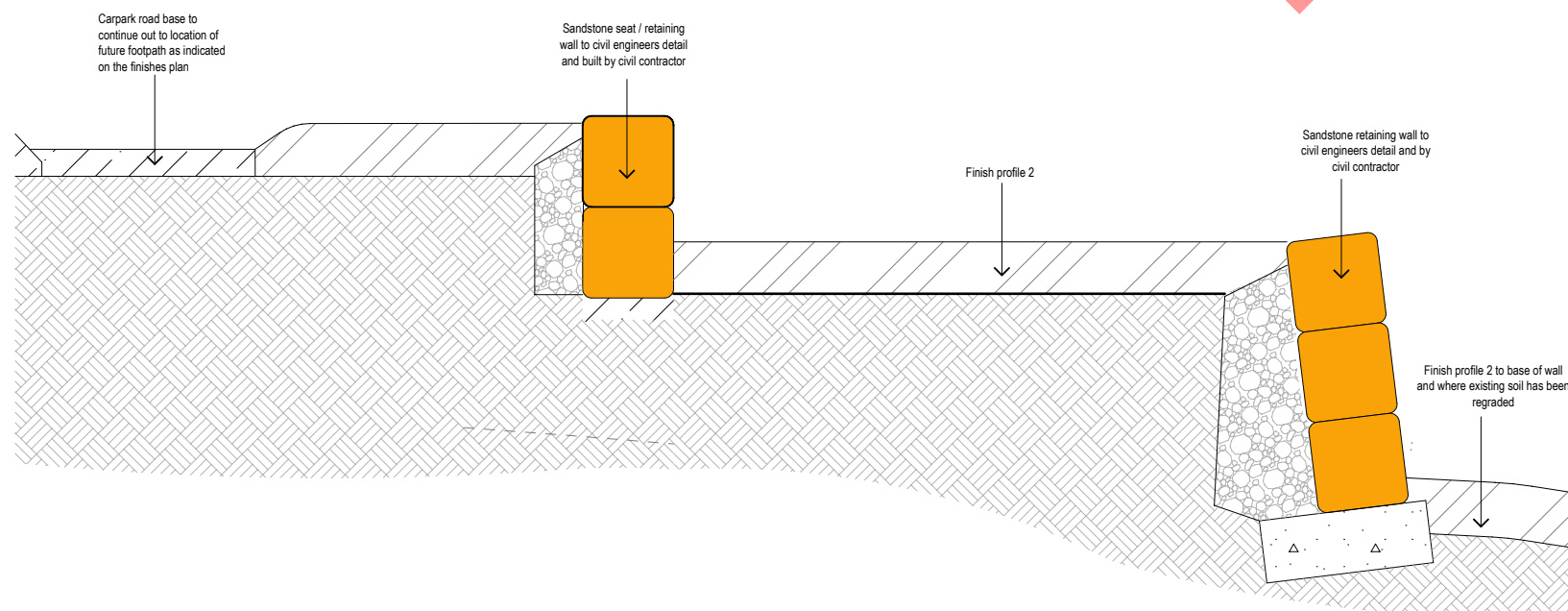
REVISION
D

CIVIL LANDSCAPE



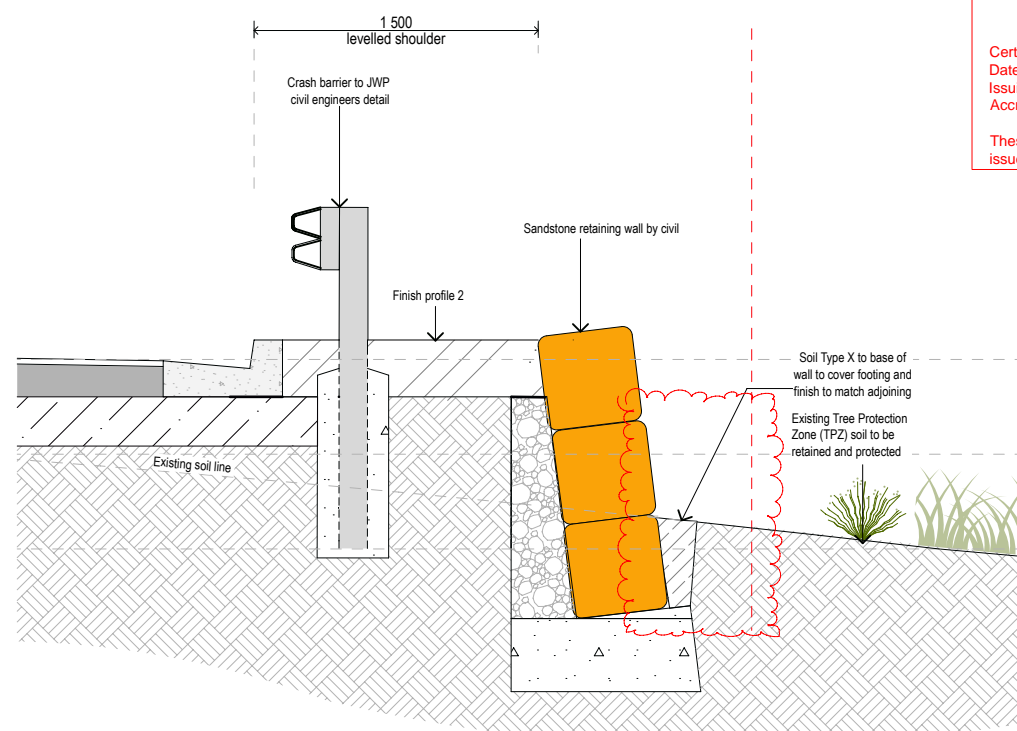
D SECTION THROUGH PATH, FENCE, PLANTING & RETAINING WALL SEAT
 CARPARK

Scale 1: 20



E SECTION THROUGH PATH, FENCE, PLANTING & RETAINING WALL
 CARPARK

Scale 1: 20



F SECTION THROUGH TREE PROTECTION WALL & FENCE FOOTING
 INCORPORATED INTO WALL FOUNDATION & CRASH BARRIER

CONSTRUCTION CERTIFICATE

Certificate No. : 20130299C40
 Date of Issue : 10 November 2017
 Issuing Officer : *Garry B*
 Accreditation No. : BPB0565

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REVISION	DESCRIPTION	CHKD	DATE
D	Issue for CC. Changes Clouded	DSO	27/10/17
C	Issue for CC	DSO	20/07/17
B	GVR Intersection & Belmont Extension areas removed from package. Issue for Tender	DSO	02/08/16
A	For Tender	DSO	14/07/16

PROJECT & CLIENT
Redbank
DA12 - Belmont Precinct

NORTH RICHMOND JOINT VENTURE

DRAWING TITLE
Tree Protection Wall Arrangement Sections

Project No : 16.09
 Designed : arterra
 Drawn : arterra
 Scale : AS@A1

CIVIL LANDSCAPE

DRAWING NUMBER: L-CD-C304
 REVISION: D