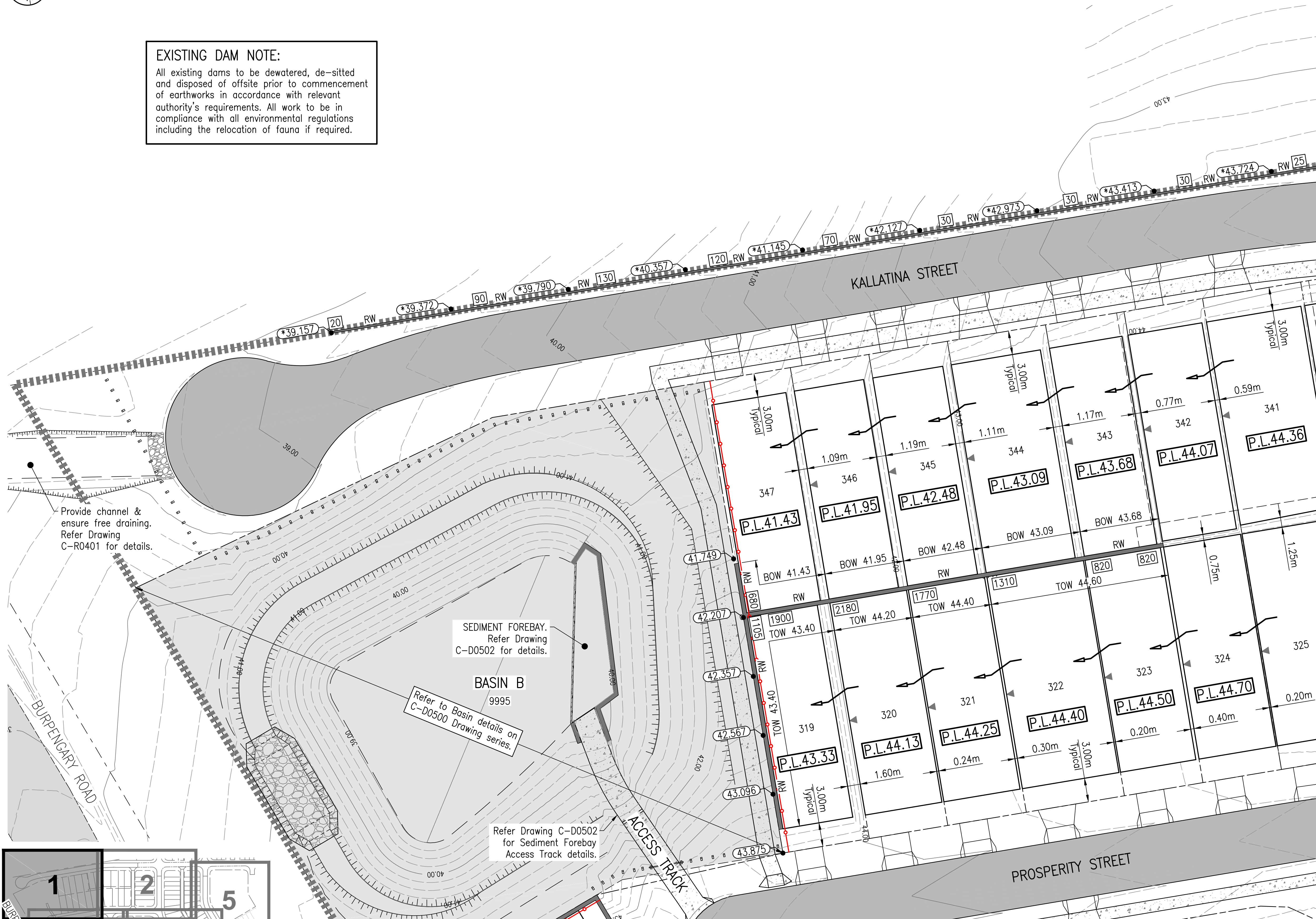


EXISTING DAM NOTE:

All existing dams to be dewatered, de-silted and disposed of offsite prior to commencement of earthworks in accordance with relevant authority's requirements. All work to be in compliance with all environmental regulations including the relocation of fauna if required.



LEGEND:

- Proposed Property Boundary
- Existing Property Boundary
- Proposed Easement Boundary
- Proposed Catch Drain
- Stage Boundary
- Proposed Road Pavement
- Existing Road Pavement
- Proposed Concrete Pavement
- P.L.???? Platform Levels
- Proposed Surface Levels
- Existing Surface Levels (to be confirmed onsite)
- Build to Boundary
- RW Proposed Concrete Sleeper Retaining Wall
- Approximate Height of Retaining [mm]
- Acoustic Fence in accordance with TTM's approved Rail & Road Noise Assessment Reports.
- TOW Top of Wall Height
- BOW Bottom of Wall Height
- Top of Batter
- Temporary 1 in 2 maximum batter
- Design Minor Contours
- Design Major Contours

NOTES:

- Intervals between contours — 0.25m
- Contours are design surface levels.
- Refer Drawing C-R0506 for bulk earthworks details & notes.
- * denotes the transition between two levels shown on plan as required to tie into finished level.

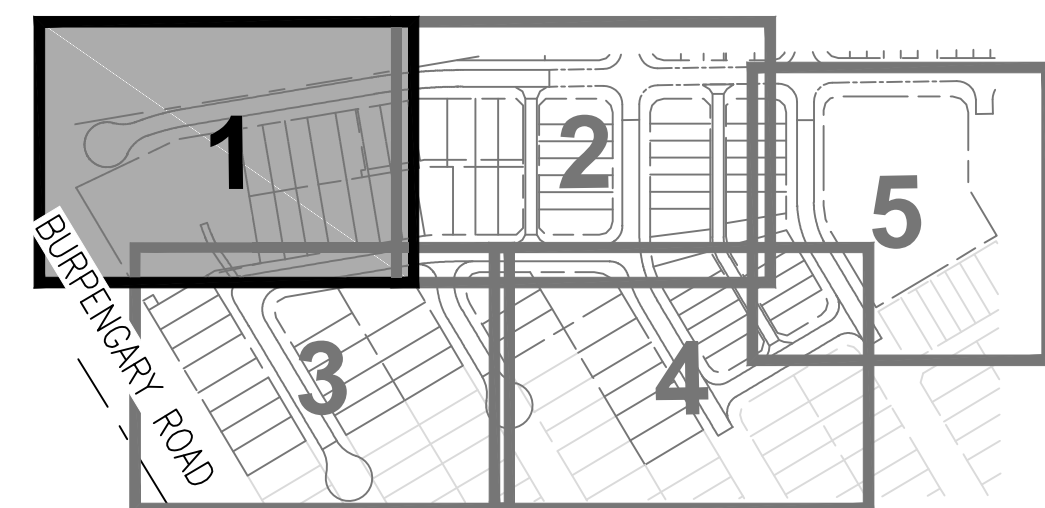
EXISTING SERVICES NOTES:

- The Contractor is to confirm the location of all services prior to commencing any construction works or ordering any materials.
- The Contractor is to contact Dial Before You Dig on 1100 prior to commencing any construction works.
- While all due care is taken by RMA in confirming the location of existing services, it is the Contractor's responsibility to confirm these service locations. In some instances service may be omitted from RMA's drawings.
- The Contractor is responsible for arranging the locating of all services by the relevant Authorities.
- A representative for each service provider to be present on site when working within 3.0m of each existing service.
- The Contractor is to confirm the location & level of all sewer and drainage connection points prior to commencing any construction works or ordering any materials.
- Should invert levels or location of any sewer or drainage connection points differ to that indicated on RMA's drawings then the Certifying Engineer shall be notified immediately.
- Any works required to or near an Authorities services shall be carried out to the approval of, under the supervision of and to the standard required by the Authority.

0 2 4 6 8 10m
1:250(A1) 1:500(A3)

BULK EARTHWORKS LAYOUT PLAN — 1

Scale 1:250 (A1)



KEY PLAN

ISSUE	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	RFI RESPONSE FOR APPROVAL	20/12/17	NOL	KPM	DAW
0		04/12/17	NOL	KPM	DAW

NOTE: FIGURED DIMENSIONS TO TAKE PRECEDENCE OVER SCALED MEASUREMENTS. VERIFY ALL ON SITE DIMENSIONS & LEVELS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. COPYRIGHT OF THIS DRAWING IS VESTED WITH RMA ENGINEERS PTY. LTD.



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PROJECT

AMITY NARANGBA - PHASE 2
BURPENGARY & CALLAGHAN ROADS
NARANGBA QLD 4504

TITLE

BULK EARTHWORKS PLAN - 1

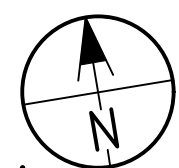


R.P.E.Q.

RMA Engineers
David Wallock
RPEQ 18202

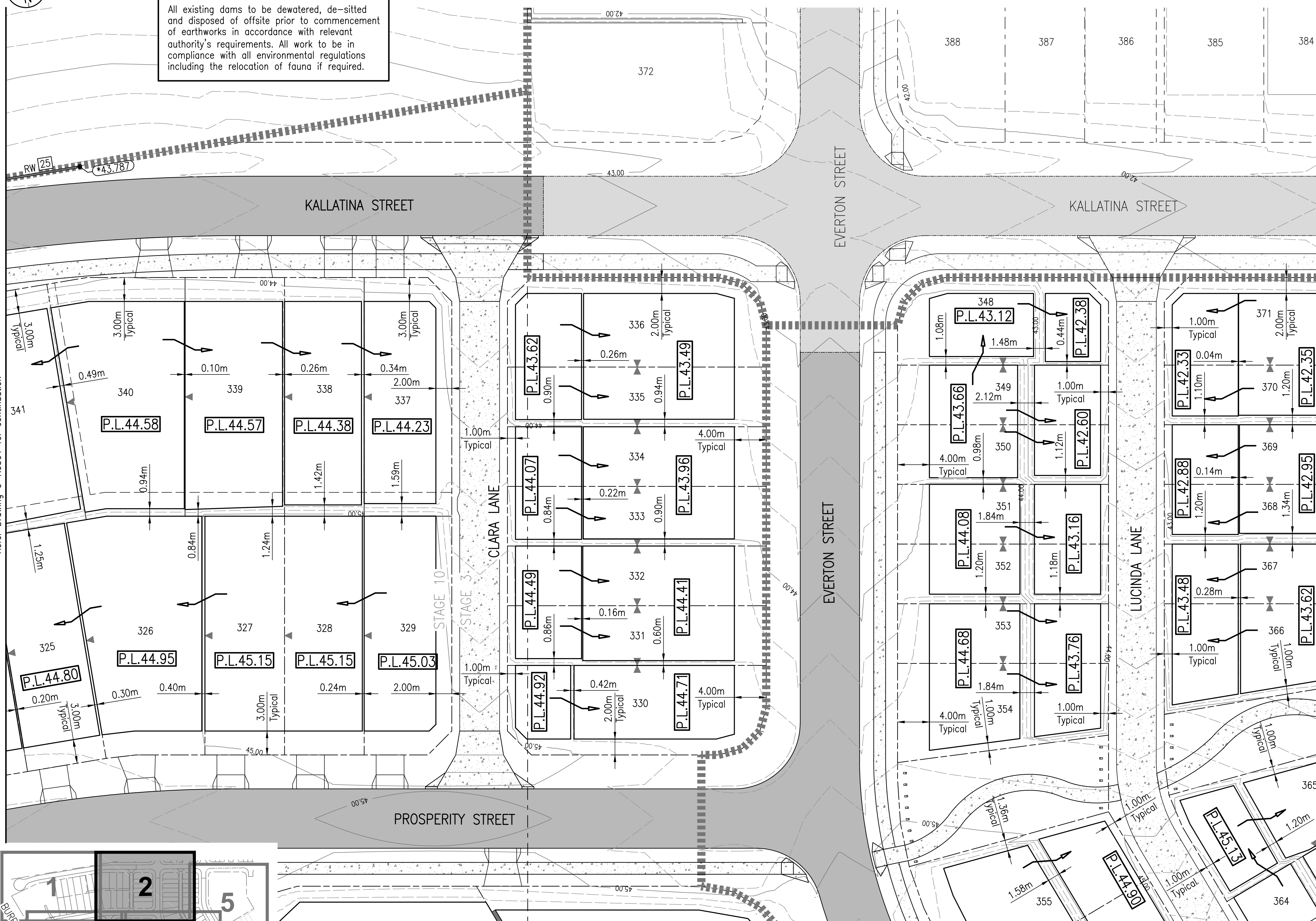
PROJECT NO. 13057	ISSUE 1
COUNCIL RAL/MCU NO. DA/31898/2016/V3RL	
COUNCIL OWN NO.	
DRAWING NO. C-R0501	

Approved Subject to Conditions of Decision Notice DA/31898/2016/V4D/4



EXISTING DAM NOTE:

All existing dams to be dewatered, de-silted and disposed of offsite prior to commencement of earthworks in accordance with relevant authority's requirements. All work to be in compliance with all environmental regulations including the relocation of fauna if required.



- LEGEND:**
- Proposed Property Boundary
 - Existing Property Boundary
 - Proposed Easement Boundary
 - Proposed Catch Drain
 - Stage Boundary
 - Proposed Road Pavement
 - Existing Road Pavement
 - Proposed Concrete Pavement
 - P.L.???? Platform Levels
 - Proposed Surface Levels
 - Existing Surface Levels (to be confirmed onsite)
 - Build to Boundary
 - Proposed Concrete Sleeper Retaining Wall
 - Approximate Height of Retaining [mm]
 - Top of Wall Height
 - Bottom of Wall Height
 - Temporary 1 in 2 maximum batter
 - Design Minor Contours
 - Design Major Contours

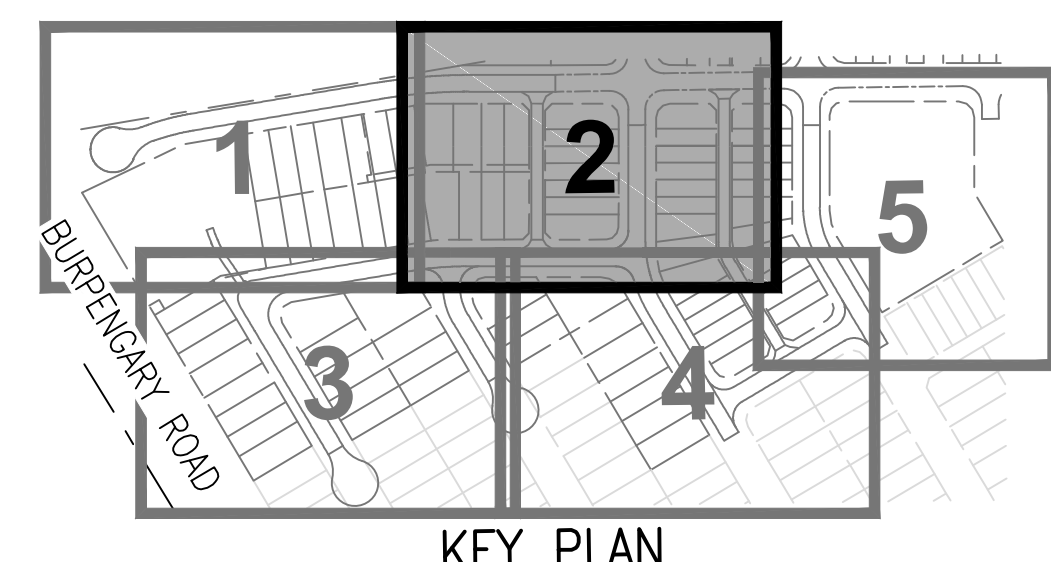
- NOTES:**
- Intervals between contours — 0.25m
 - Contours are design surface levels.
 - Refer Drawing C-R0506 for bulk earthworks details & notes.
 - * denotes the transition between two levels shown on plan as required to tie into finished level.

EXISTING SERVICES NOTES:

- The Contractor is to confirm the location of all services prior to commencing any construction works or ordering any materials.
- The Contractor is to contact Dial Before You Dig on 1100 prior to commencing any construction works.
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BULK EARTHWORKS LAYOUT PLAN — 2

Scale 1:250 (A1)



ISSUE	DESCRIPTION	DATE	BY	CHECKED	APPROVED
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0	FOR APPROVAL	04/01/18	NOL	KPM	DAW

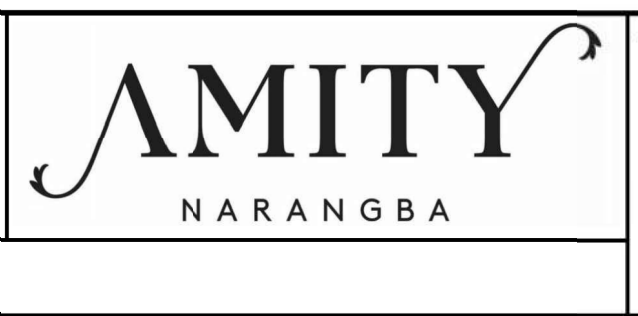
NOTE: FIGURED DIMENSIONS TO TAKE PRECEDENCE OVER SCALED MEASUREMENTS. VERIFY ALL ON SITE DIMENSIONS & LEVELS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. COPYRIGHT OF THIS DRAWING IS VESTED WITH RMA ENGINEERS PTY. LTD.



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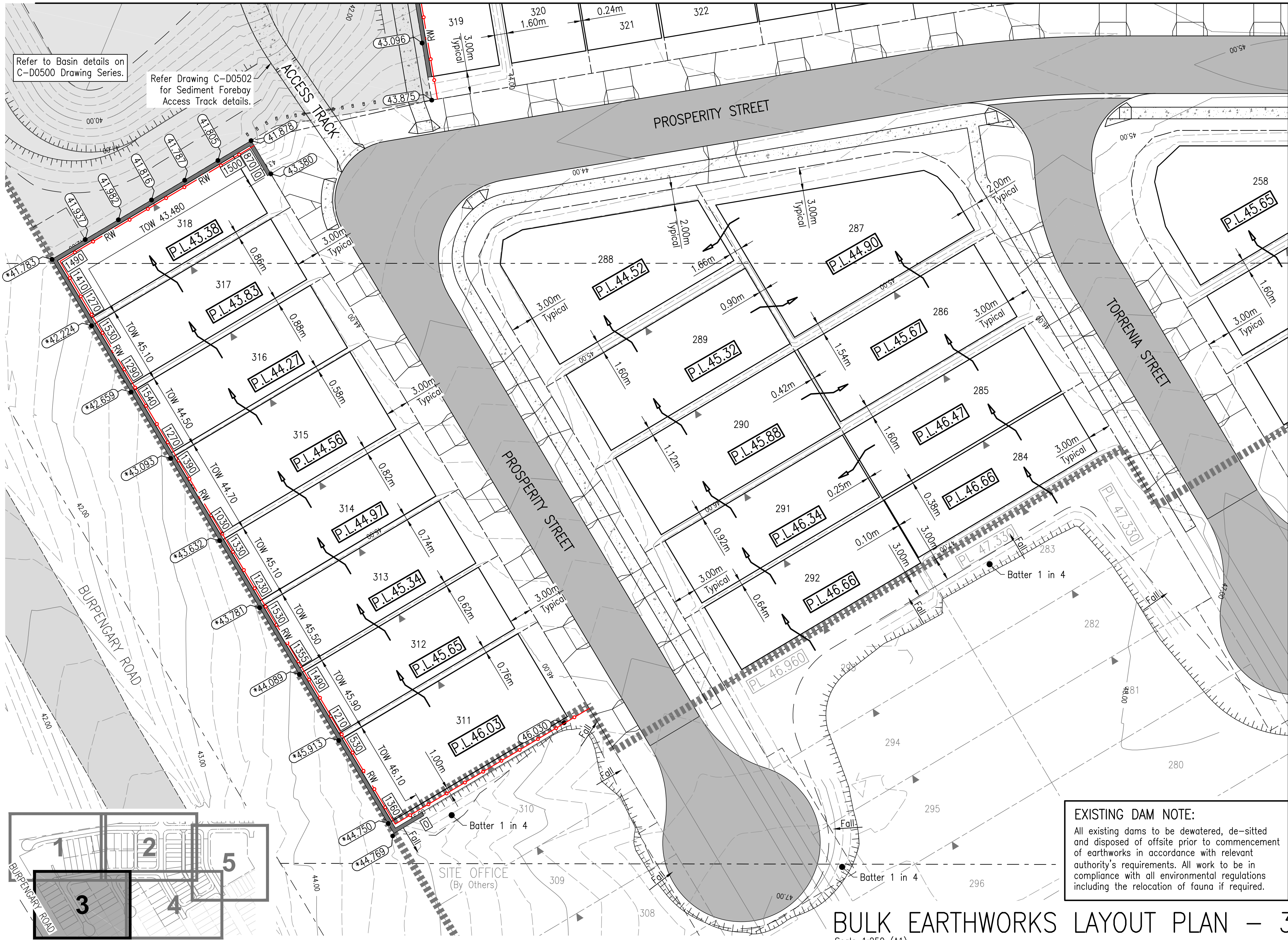
PROJECT
**AMITY NARANGBA - PHASE 2
BURPENGARY & CALLAGHAN ROADS
NARANGBA QLD 4504**

TITLE
BULK EARTHWORKS PLAN - 2

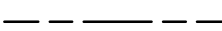








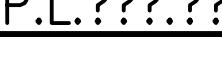
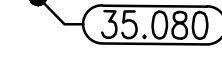





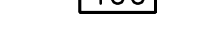


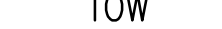



R.P.E.Q.	PROJECT NO. 13057	COUNCIL RAL/MCU NO. DA/31898/2016/V3RL
RMA Engineers David Wallock RPEQ 18202	DRAWING NO. C-R0502	ISSUE 1

Approved Subject to Conditions of Decision Notice DA/31898/2016/V4D/4



Refer Drawing C-D0502
for Sediment Forebay
Access Track details.

	Proposed Property Boundary
	Existing Property Boundary
	Proposed Easement Boundary
	Proposed Catch Drain
	Stage Boundary
	Proposed Road Pavement
	Existing Road Pavement
	Proposed Concrete Pavement
	Platform Levels
	Proposed Surface Levels
	Existing Surface Levels (to be confirmed onsite)
	Build to Boundary
	Proposed Concrete Sleeper Retaining Wall
	Approximate Height of Retaining [mm]
	Acoustic Fence in accordance with TTM's approved Rail & Road Noise Assessment Reports
	Top of Wall Height
	Bottom of Wall Height
	Top of Batter
	Temporary 1 in 2 maximum batter
	Design Minor Contours
	Design Major Contours

1. Intervals between contours — 0.25m
Contours are design surface levels.
2. Refer Drawing C-R0506 for bulk earthworks details & notes.

* denotes the transition between two levels shown on plan as required to tie into finished level.

1. The Contractor is to confirm the location of all services prior to commencing any construction works or ordering any materials.
2. The Contractor is to contact Dial Before You Dig on 1100 prior to commencing any construction works.
3. While all due care is taken by RMA in confirming the location of existing services, it is the Contractor's responsibility to confirm these service locations. In some instances service may be omitted from RMA's drawings.
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5. A representative for each service provider to be present on site when working within 3.0m of each existing service.
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All existing dams to be dewatered, de-silted and disposed of offsite prior to commencement of earthworks in accordance with relevant authority's requirements. All work to be in compliance with all environmental regulations including the relocation of fauna if required.

Scale 1:250 (A1)

**AMITY NARANGBA - PHASE 2
BURPENGARY & CALLAGHAN ROADS
NARANGBA QLD 4504**

BULK EARTHWORKS PLAN - 3

R.P.E.Q.

 RMA Engineers
David Waldo
RFEQ 18202

PROJECT NO.	13057
COUNCIL RAL/MCU NO.	DA/31898/2016/V3RL
COUNCIL OW NO.	

DRAWING NO. C-R0503	ISSUE NO. 1
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**NOTE: FIGURED DIMENSIONS TO TAKE
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MEASUREMENTS. VERIFY ALL ON SITE
DIMENSIONS & LEVELS PRIOR TO THE
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CONTRACTOR TO NOTIFY ENGINEER
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TITLE

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NARANGBA

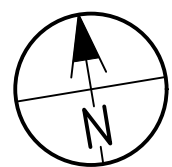
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 RMA Engineers
David Waldo
RFEQ 18202

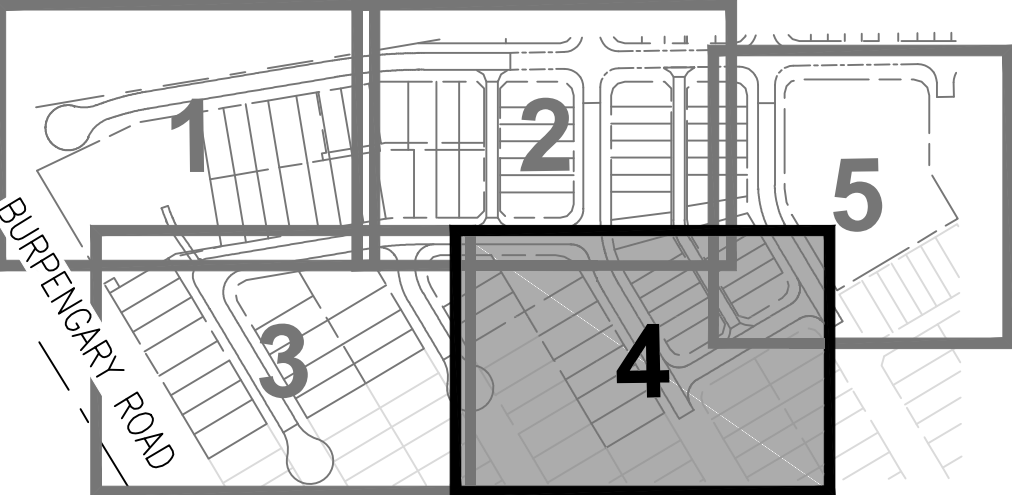
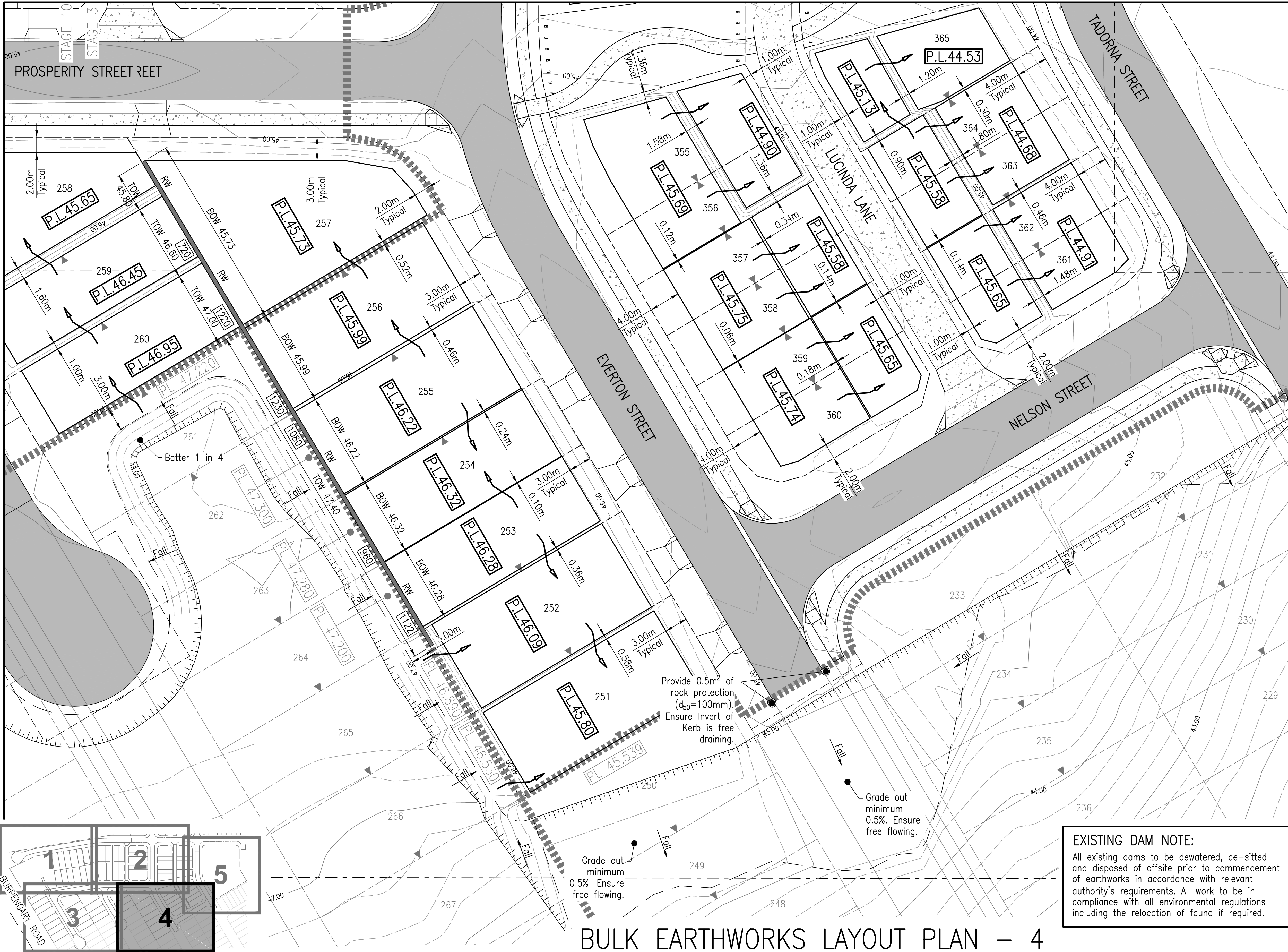
DRAWING NO. C-R0503	ISSUE NO. 1
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Approved Subject to Conditions of Decision Notice DA/31898/2016/V4D/4

[illegible]



Refer Drawing C-R0502 for continuation



LEGEND:	
	Proposed Property Boundary
	Existing Property Boundary
	Proposed Easement Boundary
	Proposed Catch Drain
	Stage Boundary
	Proposed Road Pavement
	Existing Road Pavement
	Proposed Concrete Pavement
	Platform Levels
	Proposed Surface Levels
	Build to Boundary
	Proposed Concrete Sleeper Retaining Wall
	Approximate Retaining Wall Height [mm]
	Top of Wall Height
	Bottom of Wall Height
	Top of Batter
	Temporary 1 in 2 maximum batter
	Design Minor Contours
	Design Major Contours

NOTES:

- Intervals between contours — 0.25m
- Contours are design surface levels.
- Refer Drawing C-R0506 for bulk earthworks details & notes.
- * denotes the transition between two levels shown on plan as required to tie into finished level.

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BULK EARTHWORKS LAYOUT PLAN — 4

Scale 1:250 (A1)

0 2 4 6 8 10m
1:250(A1) 1:500(A3)

ISSUE	DESCRIPTION	DATE	BY	CHECKED	APP
1	RFI RESPONSE	20/12/17	NOL	KPM	DAW
0	FOR APPROVAL	04/01/18	NOL	KPM	DAW

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PROJECT
**AMITY NARANGBA - PHASE 2
BURPENGARY & CALLAGHAN ROADS
NARANGBA QLD 4504**

TITLE
BULK EARTHWORKS PLAN - 4



R.P.E.Q.

RMA Engineers
David Wallock
RPEQ 18202

PROJECT NO. 13057	ISSUE 1
COUNCIL RAL/MCU NO. DA/31898/2016/V3RL	
COUNCIL QW NO.	
DRAWING NO. C-R0504	

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