Costin Roe Consulting Pty Ltd ABN 50 003 696 446 Level 1, 8 Windmill Street, Walsh Bay PO Box N419, Sydney, NSW, 1220, Australia tel: (02) 9251 7699 fax: (02) 9241 3731 email: mail@costinroe.com.au web: www.costinroe.com.au

29 April 2016

DEXUS Wholesale Management Limited (ACN 159 301 907) as trustee for DEXUS Quarry West Subtrust (ABN 65 043 801 812) c/- Tactical Project Management Attention: Mr Terry Timso
Level 15
124 Walker Street
NORTH SYDNEY NSW 2060

Dear Sir

### Re: Lot 18 DP 270644, Greystanes Southern Employment Land (Boral Land) Section 96 Application SSD\_6801

We provide this letter relating to a proposed Section 96 application to the Greystanes Southern Quarry West project approved under SSD\_6801. Specifically this letter covers the civil engineering aspects of the amendment.

The Section 96 Application is for an amendment to the approved layout defined in SSD\_6801. The main component of the amendment is for an adjustment to the approved masterplan lot layout and minor changes to warehouse levels in Precincts A and B.

A set of civil engineering drawings were completed by Costin Roe Consulting during 2015. The following drawings have been updated to show the new masterplan layout and adjustments to the engineering design:

- Co10529.34-DA40 [E] Site Masterplan
- Co10529.34-DA41 [E] Civil Works Plan Sheet 1
- Co10529.34-DA42 [E] Civil Works Plan Sheet 2
- Co10529.34-DA46 [G] Stormwater Management/Water Quality

We have also provided a summary of the engineering components of the development which will change from, or remain consistent with, the approved SSD\_6801 development. The summary of design elements are as follows:

#### 1. Development Layout:

The development layout differs from the previous submission in that the arrangement of the development lots on the northern side of Dolorite Close within Precincts A and B have been adjusted.

The adjustments mainly relate to Warehouse B1 and Warehouse A2. The lot layouts to the east and south of the estate road are generally consistent with the approved SSD\_6801. Some minor changes to car park arrangement to the north of Warehouse B2 have also been made.



#### 2. Bulk Earthworks:

The floor levels for warehouse B1 and B2 have had some minor adjustments to suit a balance of cut to fill earthworks and to better facilitate access to the development sites.

Warehouse B1 floor level has been lowered from 59.3 to 59.00m while Warehouse B2 has been raised from 59.30 to 59.90m.

#### 3. Stormwater Management & Layout:

The Stormwater Management Strategy for the site will remain generally consistent with the approved configuration produced by Costin Roe in 2015 and the overall Quarry Estate Management defined by GHD in 2006. The overall impervious surface area also remains generally consistent with the approved masterplan layout, hence stormwater runoff rates remain consistent with the approval and overall Quarry Estate Management Plan.

Minor adjustments to the locations of the bio-retentions within the site have been made. The basin to the north of Warehouse B2 & Warehouse B3 has been adjusted as a result of the carpark arrangement specified above. It can be confirmed that the minimum required 3000m<sup>2</sup> of bio retention, as defined in SSD\_6801, has been provided.

Additionally an extra stormwater outlet pipe and stub has been provided to the north of Warehouse B1. This is the result of the adjusted development layout and boundary location specified above. The majority of the approved drainage outlets have now been constructed, therefore an additional outlet pipe is required to facilitate drainage of Warehouse B1 without the need for easements within adjoining lots. This change does not affect the ability for the western drainage swale to convey the required 1 in 100 year ARI design storm.

All stormwater runoff will remain being directed to the perimeter drainage channel on the western boundary of the development which ultimately conveys stormwater to the estate level detention basin provided off site and known as the Widemere East basin.

We trust the above information meets your current needs. Please do not hesitate in contacting the undersigned if any further clarification is required.

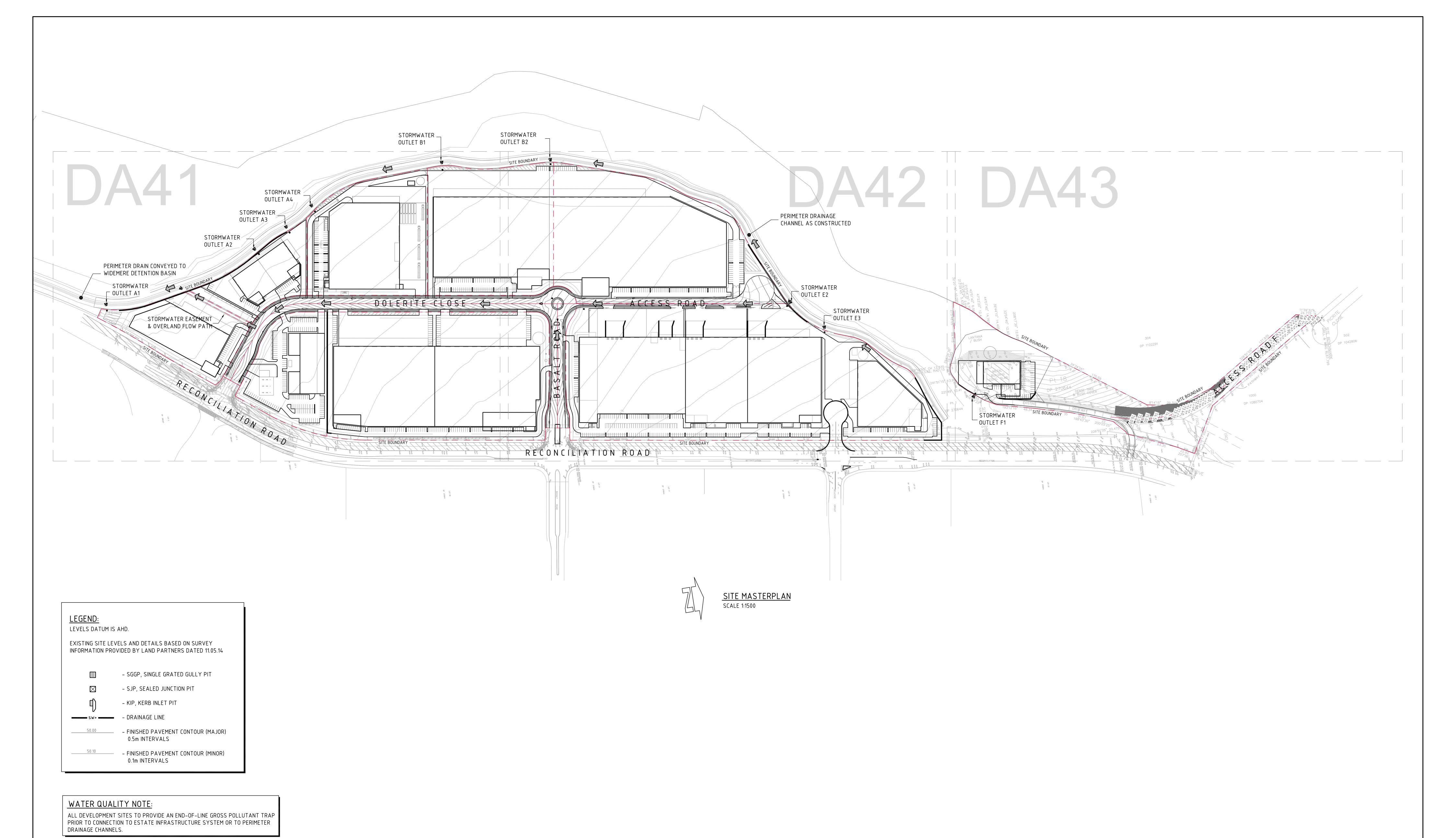
Yours faithfully,

COSTIN ROE CONSULTING PTY LTD

M Dil

MARK WILSON MIEAust CPEng NER

Director



# FOR 596 MODIFICATION

ISSUED FOR S96 MODIIFICATION	29.04.16	F							ARCHITECT
ISSUED FOR S96 MODIIFICATION	22.04.16	E							
ISSUED FOR DEVELOPMENT APPLICATION	01.07.15	D							
ISSUED FOR DEVELOPMENT APPLICATION	20.03.15	C							
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**DEXUS** PROPERTY GROUP

QUARRY WEST RECONCILIATION DRIVE PEMULWUY, NSW DESIGNED DRAWN DATE CHECKED SIZE SCALE CAD REF:
M.W M.C 06.05.14 CHECKED AS SHOWN C010529.34 - DA40

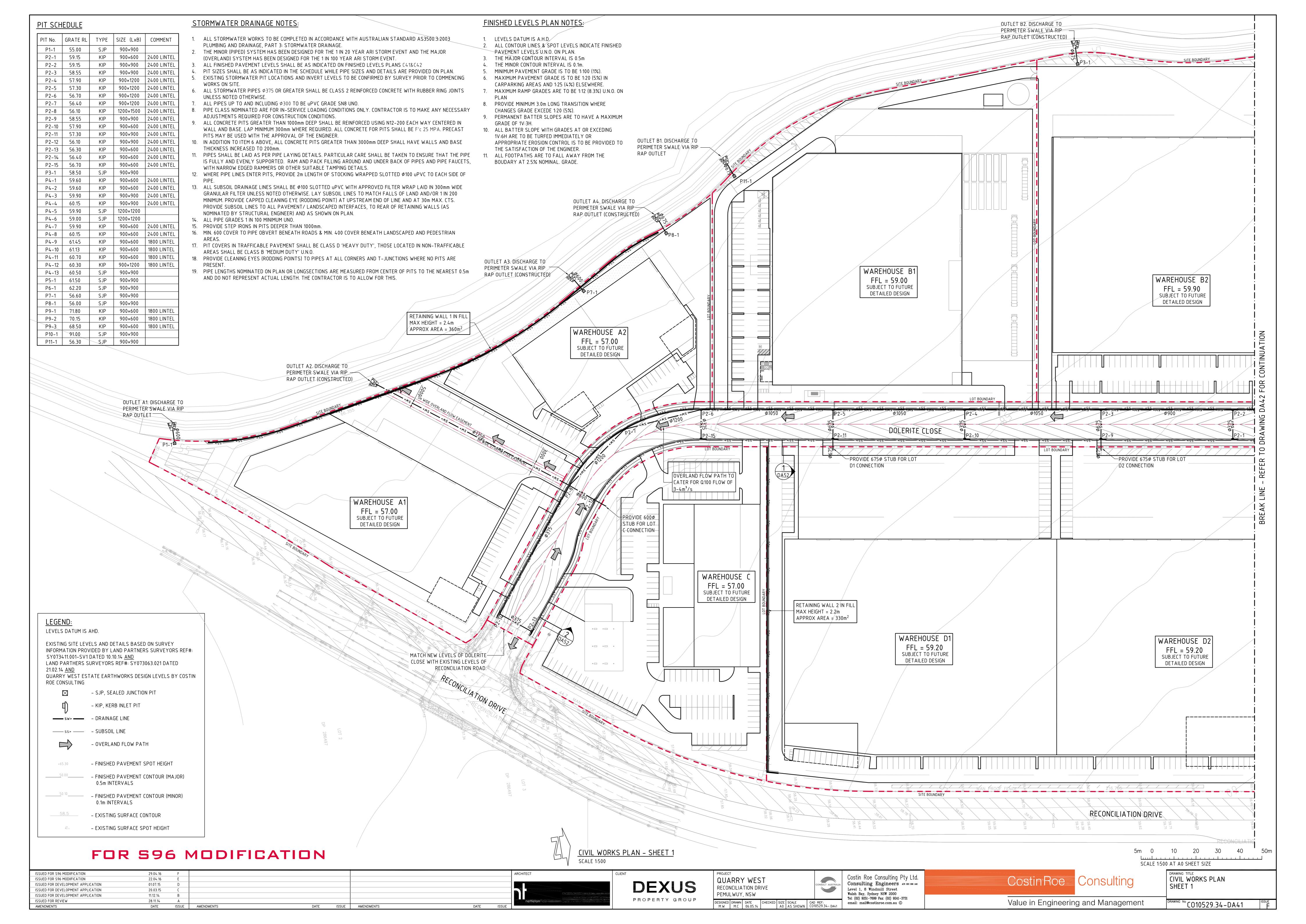
Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 446
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

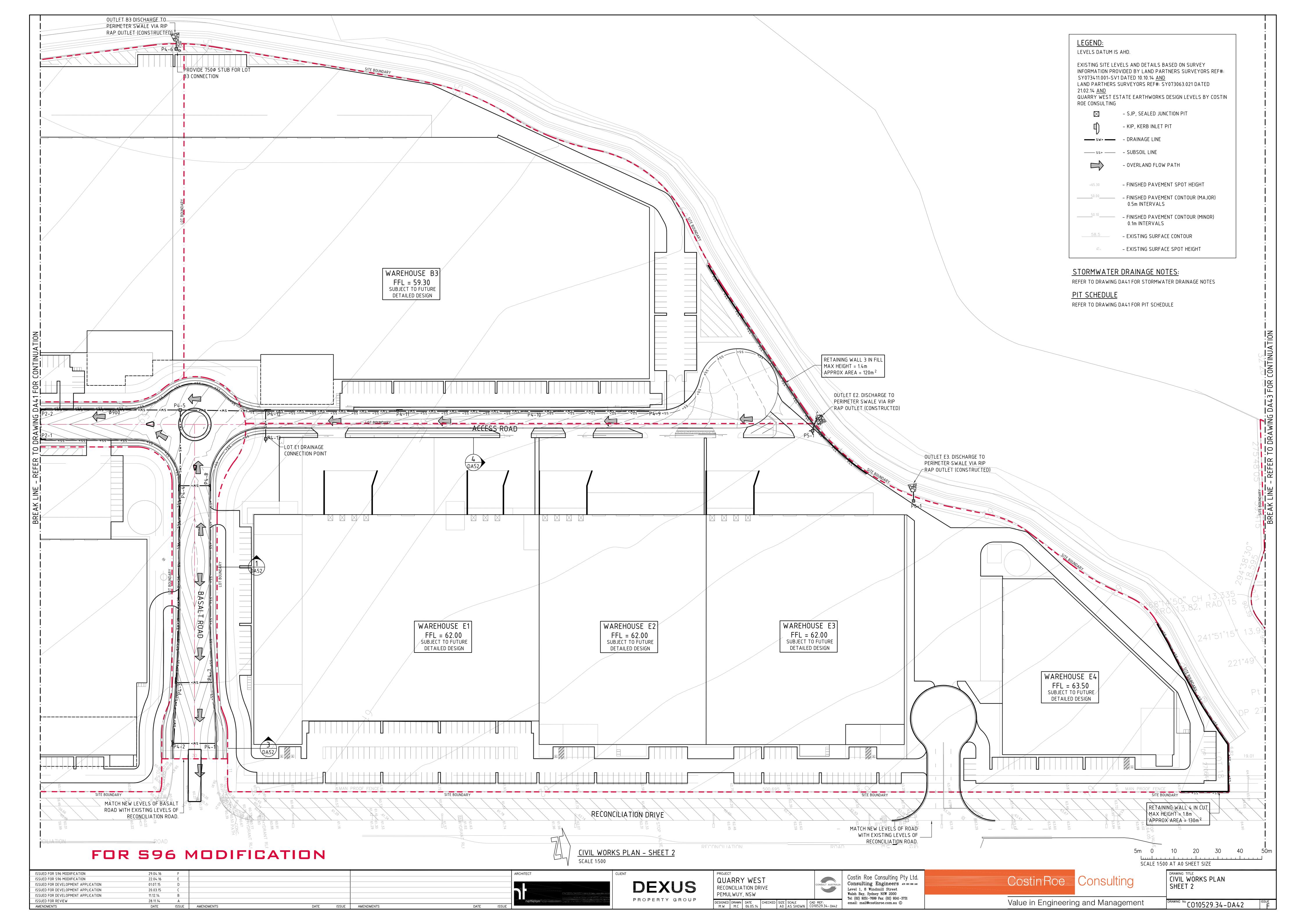
SITE MASTERPLAN

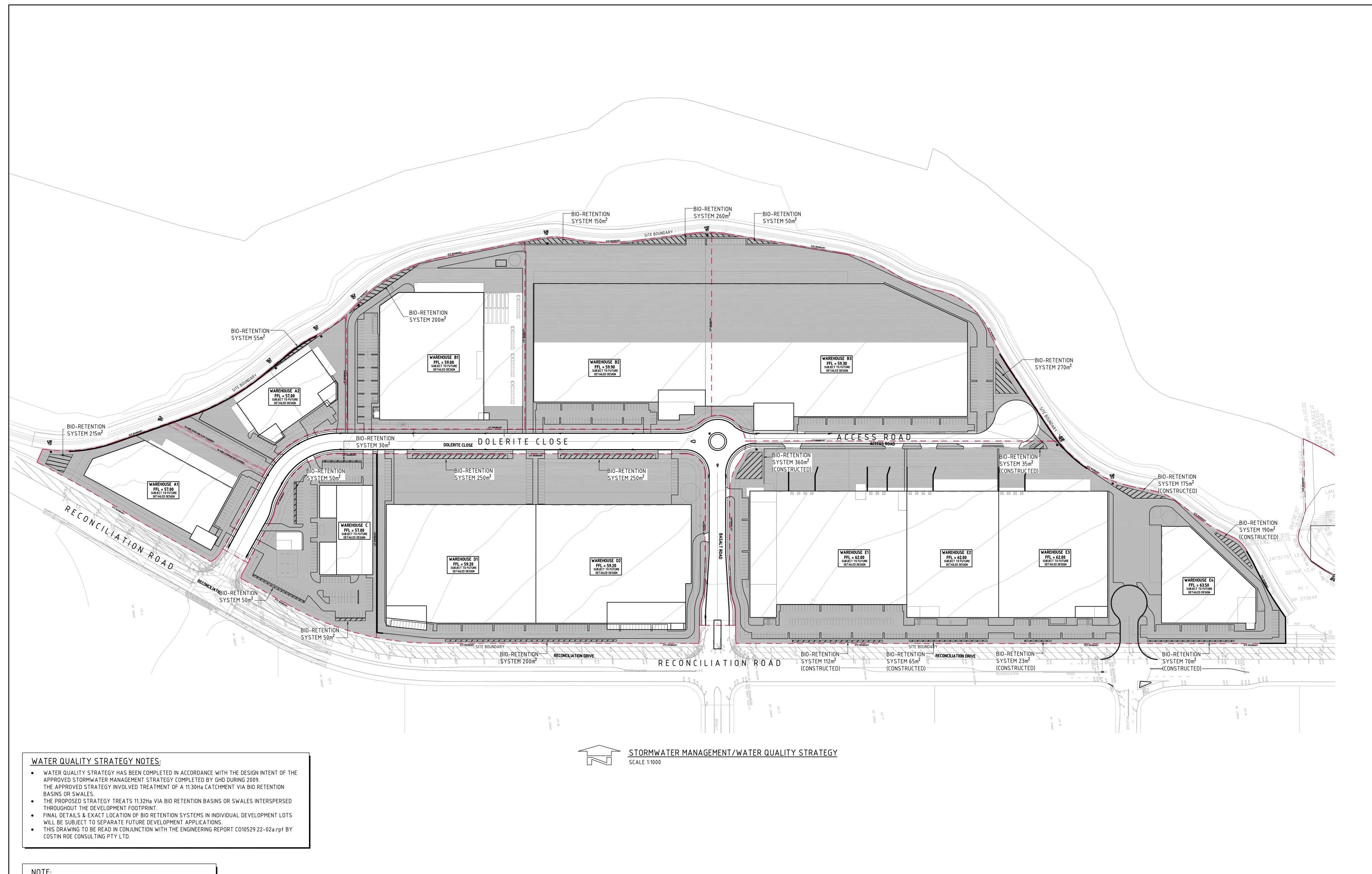
SCALE 1:1500 AT A0 SHEET SIZE

15m 0 15 30 45 60 75 90 105 120 135 150m

Value in Engineering and Management DRAWING No CO10529.34-DA40







BIO RETENTION CONFIGURATIONS SHOWN ARE INDICATIVE ONLY AND NOT DRAWN TO SCALE. REFERENCE IS TO BE MADE TO TEXT CALL UP FOR BIO RETENTION AREAS. CAD LINEWORK IS NOT TO BE USED FOR DETAILED

CONFIGURATIONS.

<u>LEGEND</u>: HATCHED AREA DENOTES CATCHMENT TO BE CONVEYED TO BIO RETENTION SYSTEMS FOR TREATMENT

## FOR 596 MODIFICATION

ISSUED FOR DEVELOPMENT APPLICATION 20.03.15 ISSUED FOR DEVELOPMENT APPLICATION BIO-RETENTION AREAS REVISED 16.03.15 REVISED AS CLOUDED 15.12.14 ISSUED FOR DEVELOPMENT APPLICATION 11.12.14 29.04.16 ISSUED FOR S96 MODIIFICATION ISSUED FOR S96 MODIIFICATION 22.04.16 ISSUED FOR REVIEW 10.12.14 DATE ISSUE AMENDMENTS DATE ISSUE AMENDMENTS AMENDMENTS

**DEXUS** PROPERTY GROUP

QUARRY WEST RECONCILIATION DRIVE PEMULWUY, NSW DESIGNED DRAWN DATE CHECKED SIZE SCALE CAD REF:
M.W M.C 06.05.14 A0 AS SHOWN C010529.34 - DA20

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Costin Roe Consulting

STORMWATER MANAGEMENT/ WATER QUALITY STRATEGY

SCALE 1:1000 AT A0 SHEET SIZE

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CO10529.34-DA46

10m 0 10 20 30 40 50 60 70 80 90 100m