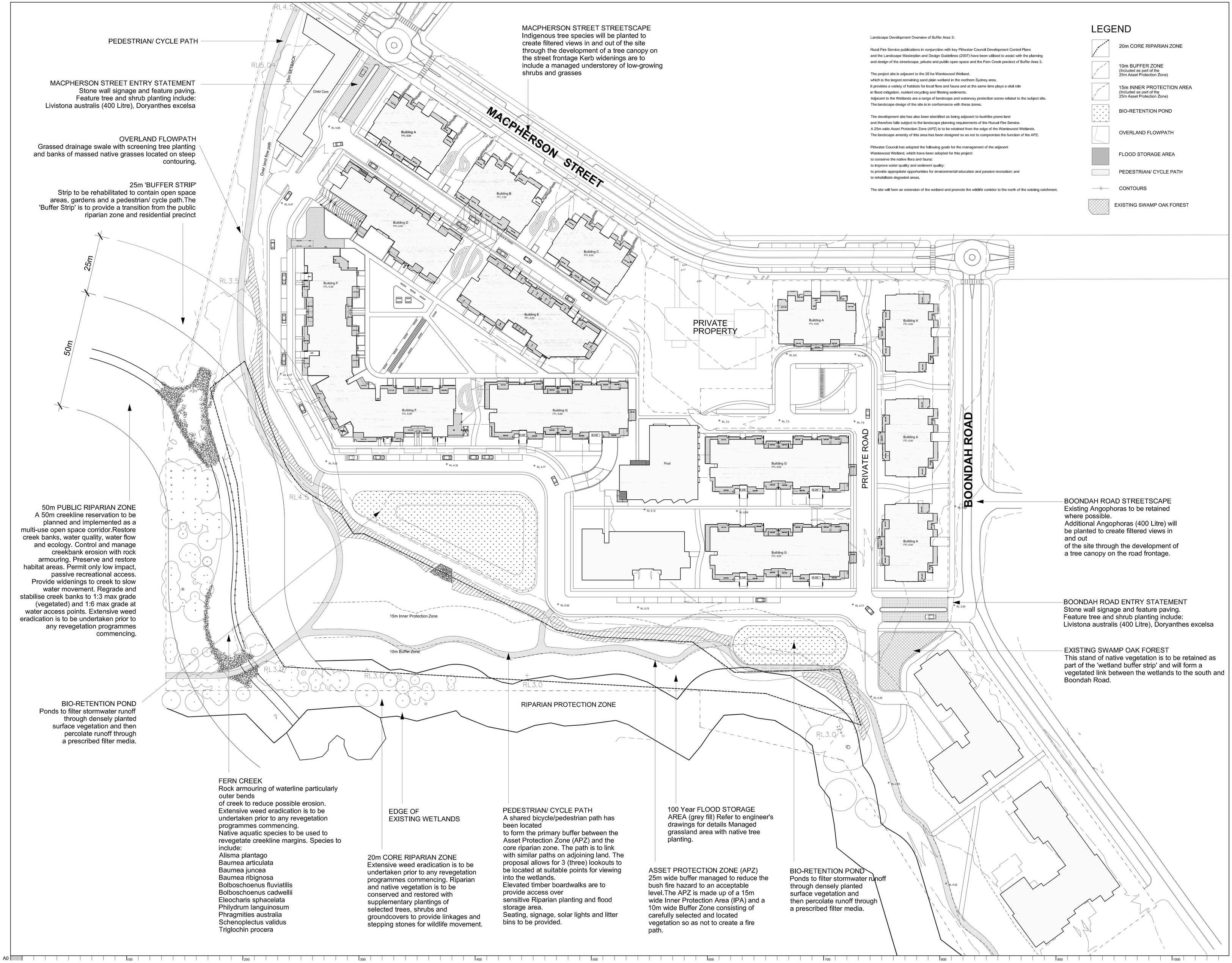

PEDESTRIAN/ CYCLE PATH

MACPHERSON STREET ENTRY STATEMENT
Stone wall signage and feature paving.
Feature tree and shrub planting include:
Livistona australis (400 Litre), Doryanthes excelsa

OVERLAND FLOWPATH
Grassed drainage swale with screening tree planting and banks of massed native grasses located on steep contouring.

25m 'BUFFER STRIP'
Strip to be rehabilitated to contain open space areas, gardens and a pedestrian/ cycle path.The 'Buffer Strip' is to provide a transition from the public riparian zone and residential precinct

50m PUBLIC RIPARIAN ZONE
A 50m creekline reservation to be planned and implemented as a multi-use open space corridor.Restore creek banks, water quality, water flow and ecology. Control and manage creekbank erosion with rock armouring. Preserve and restore habitat areas. Permit only low impact, passive recreational access. Provide widenings to creek to slow water movement. Regrade and stabilise creek banks to 1:3 max grade (vegetated) and 1:6 max grade at water access points. Extensive weed eradication is to be undertaken prior to any revegetation programmes commencing.

BIO-RETENTION POND
Ponds to filter stormwater runoff through densely planted surface vegetation and then percolate runoff through a prescribed filter media.

MACPHERSON STREET STREETSCAPE
Indigenous tree species will be planted to create filtered views in and out of the site through the development of a tree canopy on the street frontage Kerb widenings are to include a managed understorey of low-growing shrubs and grasses

Landscape Development Overview of Buffer Area 3:

Rural Fire Service publications in conjunction with key Pittwater Council Development Control Plans and the Landscape Masterplan and Design Guidelines (2007) have been utilised to assist with the planning and design of the streetscape, private and public open space and the Fern Creek precinct of Buffer Area 3.

The project site is adjacent to the 26 ha Warriewood Wetland, which is the largest remaining sand plain wetland in the northern Sydney area. It provides a variety of habitats for local flora and fauna and at the same time plays a vital role in flood mitigation, nutrient recycling and filtering sediments. Adjacent to the Wetlands are a range of landscape and waterway protection zones related to the subject site. The landscape design of the site is in conformance with these zones.

The development site has also been identified as being adjacent to bushfire prone land and therefore falls subject to the landscape planning requirements of the Runuall Fire Service. A 25m wide Asset Protection Zone (APZ) is to be retained from the edge of the Warriewood Wetlands. The landscape amenity of this area has been designed so as not to compromise the function of the APZ.

Pittwater Council has adopted the following goals for the management of the adjacent Warriewood Wetland, which have been adopted for this project:
to conserve the native flora and fauna;
to improve water quality and sediment quality;
to provide appropriate opportunities for environmental education and passive recreation; and
to rehabilitate degraded areas.

The site will form an extension of the wetland and promote the wildlife corridor to the north of the existing catchment.

LEGEND

- 20m CORE RIPARIAN ZONE
- 10m BUFFER ZONE (Included as part of the 25m Asset Protection Zone)
- 15m INNER PROTECTION AREA (Included as part of the 25m Asset Protection Zone)
- BIO-RETENTION POND
- OVERLAND FLOWPATH
- FLOOD STORAGE AREA
- PEDESTRIAN/ CYCLE PATH
- CONTOURS
- EXISTING SWAMP OAK FOREST

FERN CREEK
Rock armouring of waterline particularly outer bends of creek to reduce possible erosion. Extensive weed eradication is to be undertaken prior to any revegetation programmes commencing.
Native aquatic species to be used to revegetate creekline margins. Species to include:
Alisma plantago
Baumea articulata
Baumea juncea
Baumea ribignosa
Bolboschoenus fluviatilis
Bolboschoenus cadwellii
Eleocharis sphacelata
Philydrum languinosum
Phragmities australia
Schenoplectus validus
Triglochin procera

EDGE OF EXISTING WETLANDS

20m CORE RIPARIAN ZONE
Extensive weed eradication is to be undertaken prior to any revegetation programmes commencing. Riparian and native vegetation is to be conserved and restored with supplementary plantings of selected trees, shrubs and groundcovers to provide linkages and stepping stones for wildlife movement.

PEDESTRIAN/ CYCLE PATH
A shared bicycle/pedestrian path has been located to form the primary buffer between the Asset Protection Zone (APZ) and the core riparian zone. The path is to link with similar paths on adjoining land. The proposal allows for 3 (three) lookouts to be located at suitable points for viewing into the wetlands.
Elevated timber boardwalks are to provide access over sensitive Riparian planting and flood storage area.
Seating, signage, solar lights and litter bins to be provided.

100 Year FLOOD STORAGE AREA (grey fill) Refer to engineer's drawings for details Managed grassland area with native tree planting.

ASSET PROTECTION ZONE (APZ)
25m wide buffer managed to reduce the bush fire hazard to an acceptable level.The APZ is made up of a 15m wide Inner Protection Area (IPA) and a 10m wide Buffer Zone consisting of carefully selected and located vegetation so as not to create a fire path.

BIO-RETENTION POND
Ponds to filter stormwater runoff through densely planted surface vegetation and then percolate runoff through a prescribed filter media.

BOONDAH ROAD STREETSCAPE
Existing Angophoras to be retained where possible.
Additional Angophoras (400 Litre) will be planted to create filtered views in and out of the site through the development of a tree canopy on the road frontage.

BOONDAH ROAD ENTRY STATEMENT
Stone wall signage and feature paving.
Feature tree and shrub planting include:
Livistona australis (400 Litre), Doryanthes excelsa

EXISTING SWAMP OAK FOREST
This stand of native vegetation is to be retained as part of the 'wetland buffer strip' and will form a vegetated link between the wetlands to the south and Boondah Road.

© 2010 Site Image Pty Ltd A.B.N. 19 076 561 067 All rights reserved. This drawing is copyright and shall not be reproduced or copied in any form or by any means (graphic, electronic or mechanical including photocopy) without the written permission of Site Image Pty Ltd. Any license, expressed or implied, to use this document for any purpose what so ever is restricted to the terms of the written agreement between Site Image Pty Ltd and the instructing party.

The contractor shall check and verify all work on site (including work by others) before commencing the landscape installation. Any discrepancies are to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not scale this drawing. Any required dimensions not shown shall be referred to the Landscape Architect for confirmation.

Issue	Revision Description	Drawn	Check	Date
A	PRELIMINARY	DM	DC	24.02.2010

Client:
Meriton Appartments Pty Ltd

Project:
14-18 Boondah Road
Warriewood

SITE IMAGE
15 Gisborne Street
East Melbourne VIC 3002
Australia
Tel: (61 3) 9662 1947
Fax: (61 3) 9662 2447
Web: www.siteimage.com.au
Site Image Pty Ltd
ABN 19 076 561 067
Landscape Architects

PRELIMINARY

Drawing Name:
Landscape Masterplan
Landscape Management Zones

Scale: 1:500 @ A0
Date: 07.02.2010
Drawn: DM
Approved: DC
Job Number: SM10041
Drawing Number: LA102
Issue: A