Typical Bioretention "Raingarden"

Detail

1:25

Extended detention zone. Area Varies

Typical Combined Detention/Bioretention

Detail

1:50

"Offline" Bioretention System

Area Varies

TWL

Detention Basin

Area Varies

TWL

Bioretention Basin

100mm sand transition layer

Bio-retention basin to be planted with water tolerant plant species (typ)

Provide inspection or clear out outlet pipe

Depth of gravel layer varies to suit fall on subsoil line.

Ensure min 50mm cover top and bottom

HDPE liner or equivalent

Delivery blank for downstream discharge line to discharge to downstream stormwater pit at min 0.5% fall

200mm extended detention depth

Provide inspection riser/clear out outlet pipe

Typical Bioretention Basin

1:20

Overflow

Bio-retention basin to be planted with water tolerant plant species (typ)

100mm sand transition layer

'PPVORWWHGVXEVRLOGUDLQDJH line to discharge to downstream stormwater network at min 0.5% fall

300mm extended detention depth

Provide inspection riser/clear out outlet pipe

Typical Combined Detention/Bioretention

Detail

1:50

"Offline" Bioretention System

Area Varies

TWL

Detention Basin

Area Varies

TWL

Bioretention Basin

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Typical Bioretention Basin

1:20

Overflow

Bio-retention basin to be planted with water tolerant plant species (typ)

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'PPVORWWHGVXEVRLOGUDLQDJH line to discharge to downstream stormwater network at min 0.5% fall

300mm extended detention depth

Provide inspection riser/clear out outlet pipe

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Earthworks Volume

Total cut
50,200m³
Field balance
<500m³

For basin drainage volume refer drawing 0212
GPT locations are indicative and subject to final sitting during detailed design

Post Exhibition Amendments

MMD-334311-C-DR-RE-XX-0241

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As Shown
PRE
P8

Mott MacDonald

NSW GOVERNMENT
Planning & Environment

Riverstone East Precinct
Water Cycle Management Plan

Basin 2
Plan and Section Sheet

Post Exhibition Amendments

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Earthwork Volume

- Total cut: 7317 m³
- Total fill: 7077 m³
- Final balance: 240 m³

Post exhibition amendments

- Date: 11.05.16
- Issued for Post Exhibition Amendments

Riverstone East Precinct
Water Cycle Management Plan

Basin 5
Plan and Section Sheet

Post Exhibition Amendments

- Date: 11.05.16
- Issued for Post Exhibition Amendments

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**Basin 6 (100Yr)**

**TWL =** 46.50

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**Notes:**

- For basin storage volume refer drawing 0212
- Bioretention footprint is indicative and subject to final siting during detailed design
- Stormwater crossing (refer drawing 0212)

**Proposed Riparian Extents**

- Extent of Cut
- Extent of Fill
- On-site Detention

**Existing Riparian Extents**

- Existing Top of Creek Bank
- Existing Riparian Extents

**Bioretention Footprint**

- Provide bioretention in accordance with Water Quality requirements (typical)

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**Dimensioned drawings:**

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**Reference drawings:**

- MMD-334311-C-DR-RE-XX-0240.dwg

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**As Shown**

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**Post Exhibition Amendments**

**MMD-334311-C-DR-RE-XX-0245**