



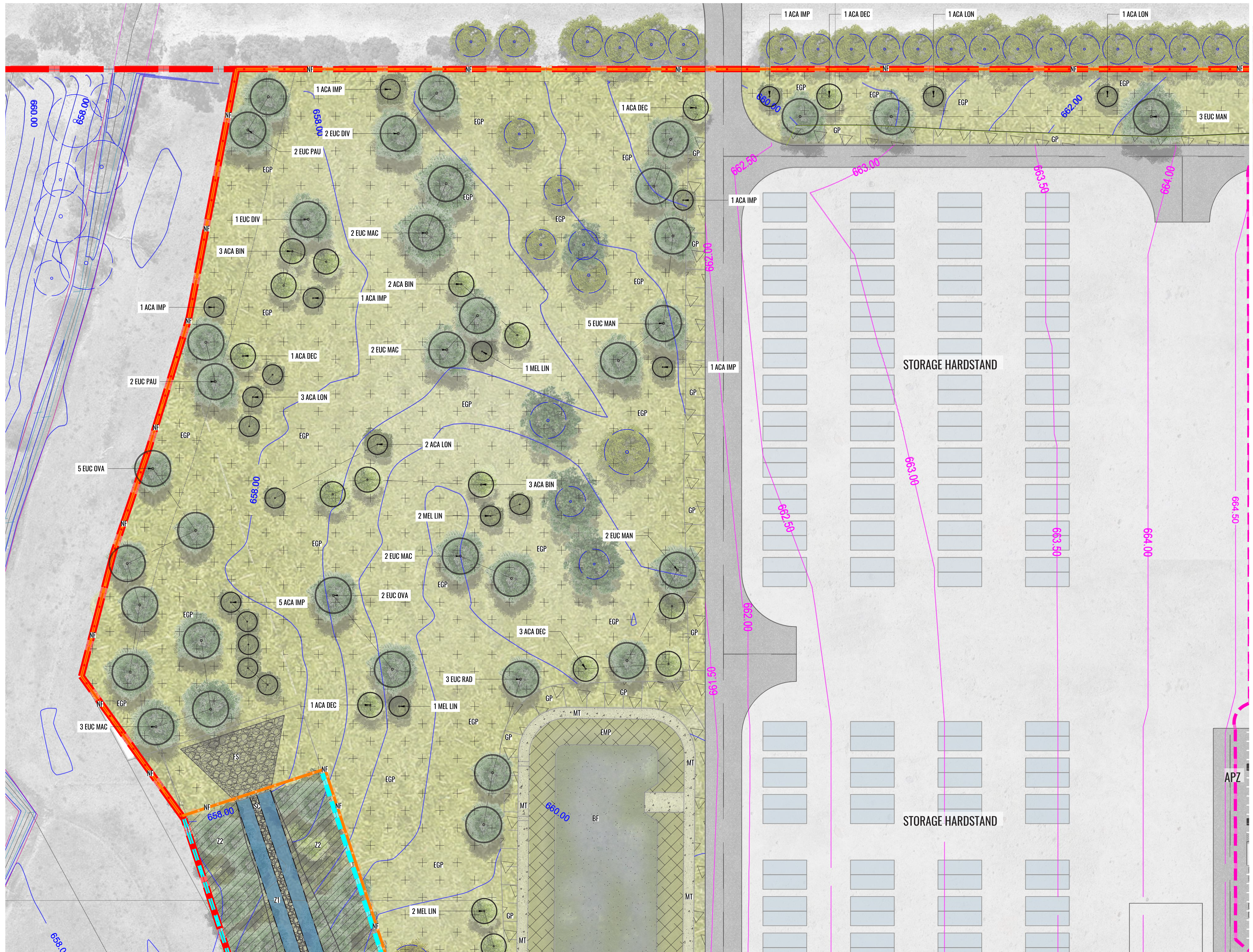






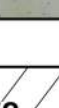
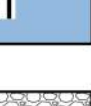



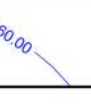

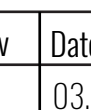
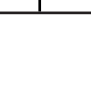



**LEGEND**

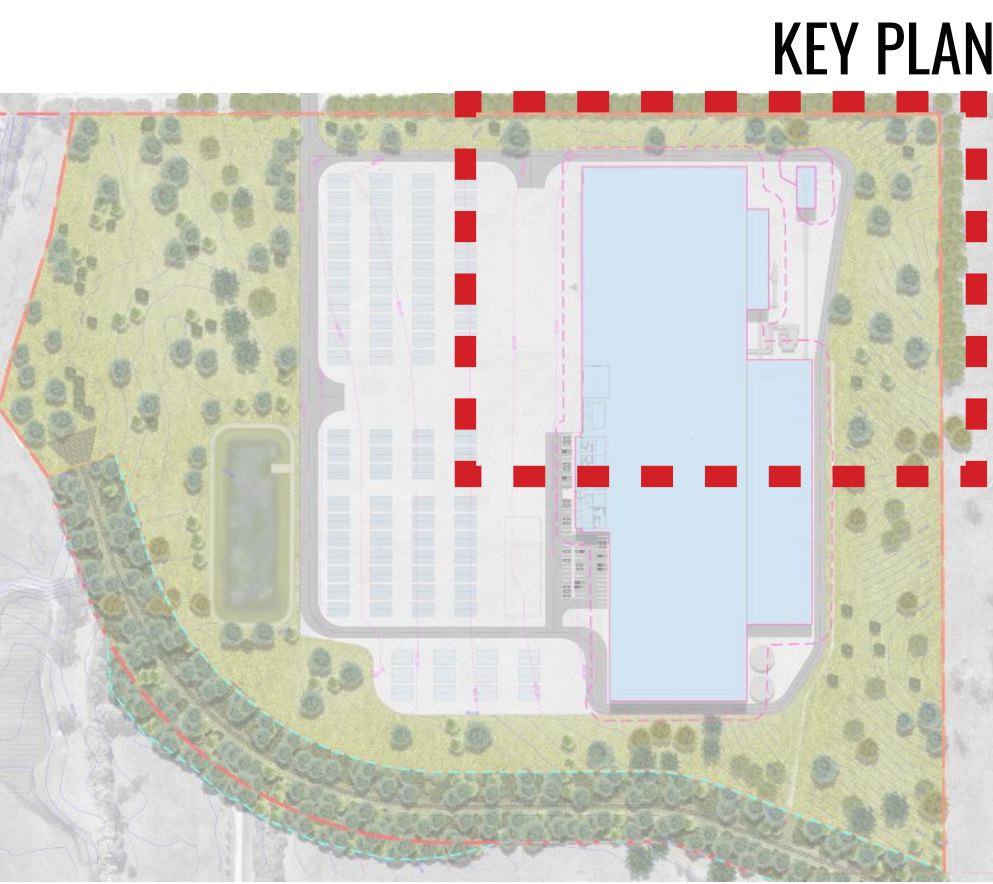
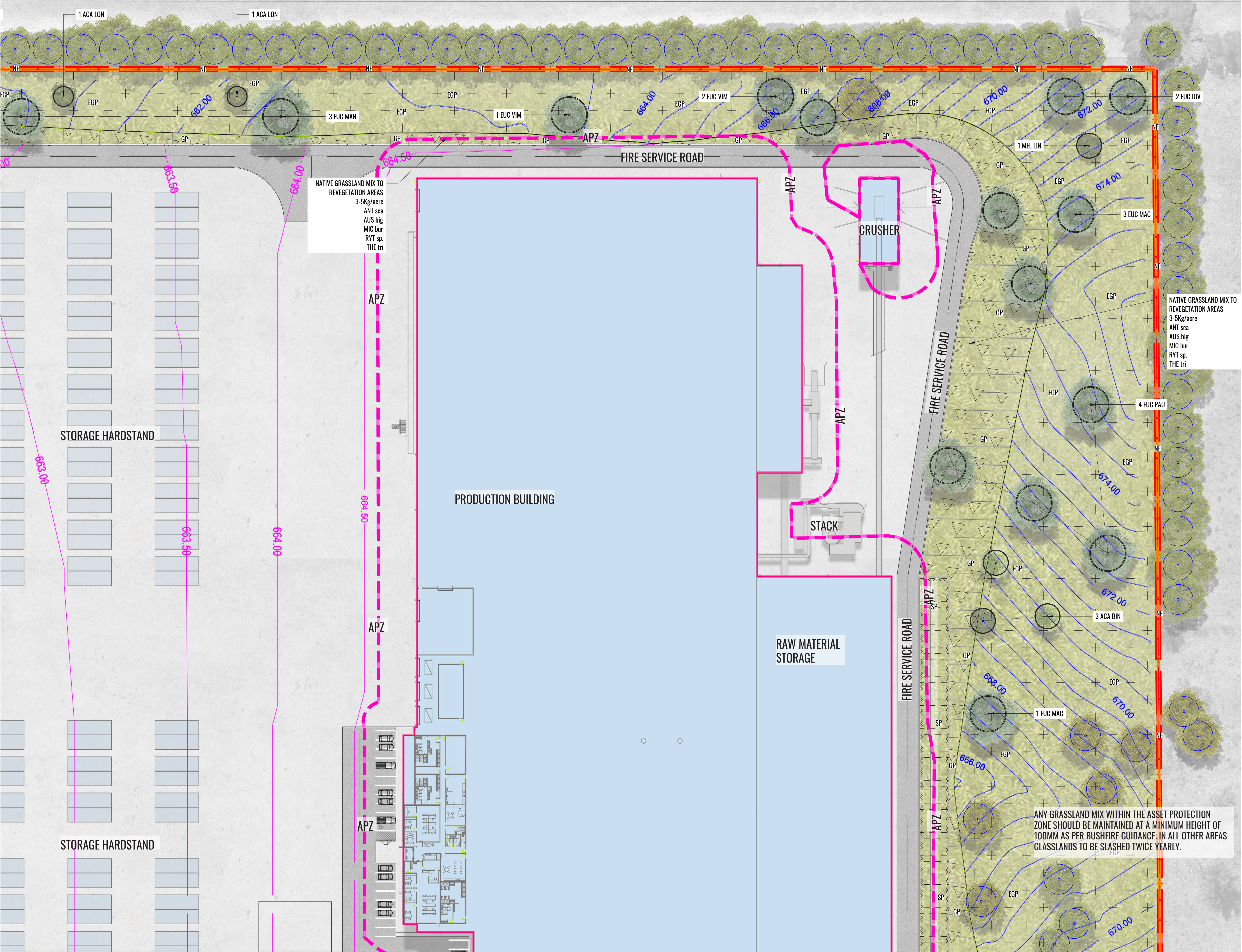
- SITE BOUNDARY
- FENCE TO ARCHITECT'S DETAILS
- EXISTING PASTURE LAND TO BE RETAINED
- PROPOSED HARDSTAND
- PROPOSED INDICATIVE FLOW SPREADER. REFER TO CIVIL DWGS.
- 40M RIPARIAN CORRIDOR BUFFER SETBACK
- ASSET PROTECTION ZONE BOUNDARY AS PER BUSHFIRE REPORT





	SITE BOUNDARY
	FENCE TO ARCHITECT'S DETAILS
	EXISTING TREE TO BE RETAINED (REFER TO ARBORIST'S REPORT)
	NATIVE ENDEMIC CANOPY TREE PLANTING
	MIX OF INDIGENOUS SHRUB PLANTING (ONLY WITHIN STRUCTURED RIPARIAN BUFFER )
	EXISTING PASTURE LAND TO BE RETAINED
	NATIVE GRASSLAND PLANTING MIX (TO BE MANAGED TO 100mm HIGH IN APZ AREAS AS PER BUSHFIRE GUIDANCE)
	BASIN EMBANKMENT PLANTING (REFER PLANTING SCHEDULE)
	BASIN FLOOR PLANTING (REFER PLANTING SCHEDULE)
	STRUCTURED RIPARIAN BUFFER PLANTING ZONE 2
	STRUCTURED RIPARIAN BUFFER PLANTING ZONE 1
	2.0M WIDE ROCK-LINED FLOW CHANNEL
	OPEN DRAIN SWALE PLANTING
	PROPOSED INDICATIVE FLOW SPREADER. REFER TO CIVIL DWGS.
	STORMWATER BASIN MAINTENANCE TRACK
	40M RIPARIAN CORRIDOR BUFFER SETBACK
	ASSET PROTECTION ZONE BOUNDARY AS PER BUSHFIRE REPORT
MEL LIN 	PLANTING CODES (REFER TO PLANT SCHEDULE)
	EXISTING CONTOUR LEVELS REFER CIVIL DWG
	PROPOSED DESIGN CONTOURS. REFER CIVIL DWG





LEGEND				
	SITE BOUNDARY			
	FENCE TO ARCHITECT'S DETAILS			
	EXISTING TREE TO BE RETAINED (REFER TO ARBORIST'S REPORT)			
	NATIVE ENDEMIC CANOPY TREE PLANTING			
	MIX OF INDIGENOUS SHRUB PLANTING (ONLY WITHIN STRUCTURED RIPARIAN BUFFER )			
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	NATIVE GRASSLAND PLANTING MIX (TO BE MANAGED TO 100mm HIGH IN APZ AREAS AS PER BUSHFIRE GUIDANCE)			
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	BASIN FLOOR PLANTING (REFER PLANTING SCHEDULE)			
	STRUCTURED RIPARIAN BUFFER PLANTING ZONE 2			
	STRUCTURED RIPARIAN BUFFER PLANTING ZONE 1			
	2.0M WIDE ROCK-LINED FLOW CHANNEL			
	OPEN DRAIN SWALE PLANTING			
	PROPOSED INDICATIVE FLOW SPREADER. REFER TO CIVIL DWGS.			
	STORMWATER BASIN MAINTENANCE TRACK			
	40M RIPARIAN CORRIDOR BUFFER SETBACK			
	ASSET PROTECTION ZONE BOUNDARY AS PER BUSHFIRE REPORT			
	PLANTING CODES (REFER TO PLANT SCHEDULE)			
	EXISTING CONTOUR LEVELS REFER CIVIL DWG			
	PROPOSED DESIGN CONTOURS. REFER CIVIL DWG			

Drawing Title:  
**Landscape Detail Plan 02**  
DWG No:

**LDA-03**

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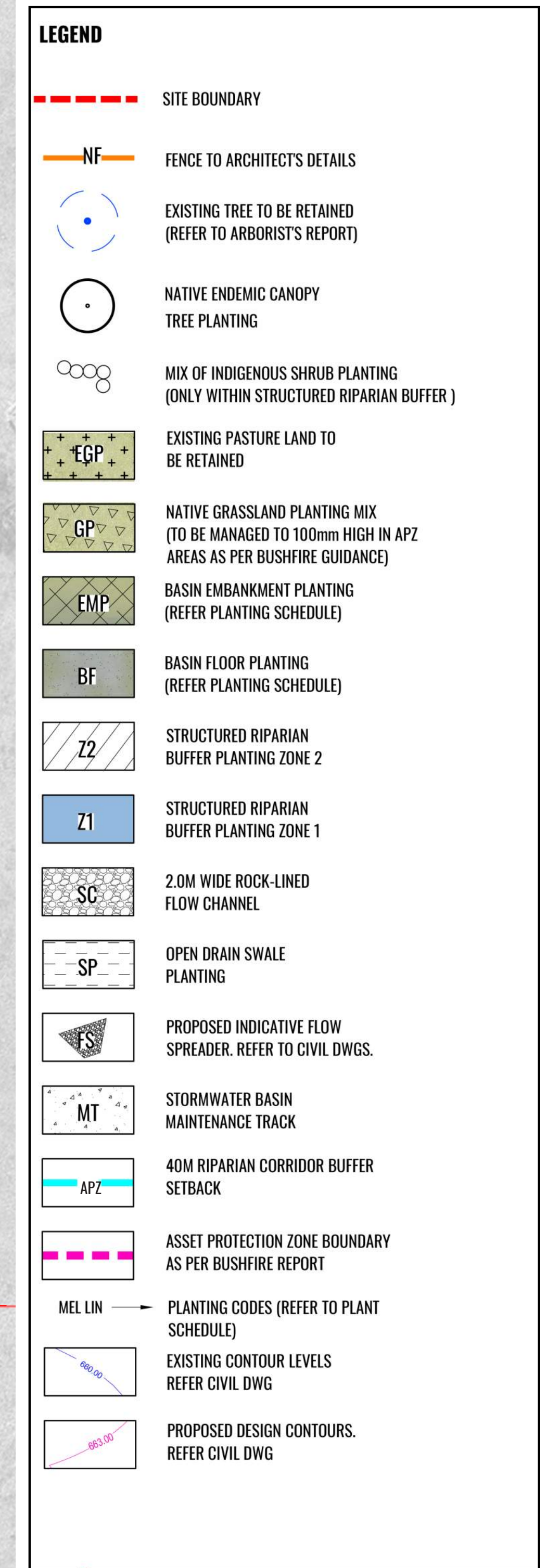
Architect:  
**SBA**  
ARCHITECTS

Client:  
**WILLOW TREE**  
PLANNING

Scale:  
1:500 @ A1  
1:1000 @ A3  
Date:  
24.04.20  
Job Number:  
190722  
North:  
  
Project:  
**PROPOSED BRICKWORKS PLANT**  
416 and 524 Berrima Road, Moss Vale, NSW 2577

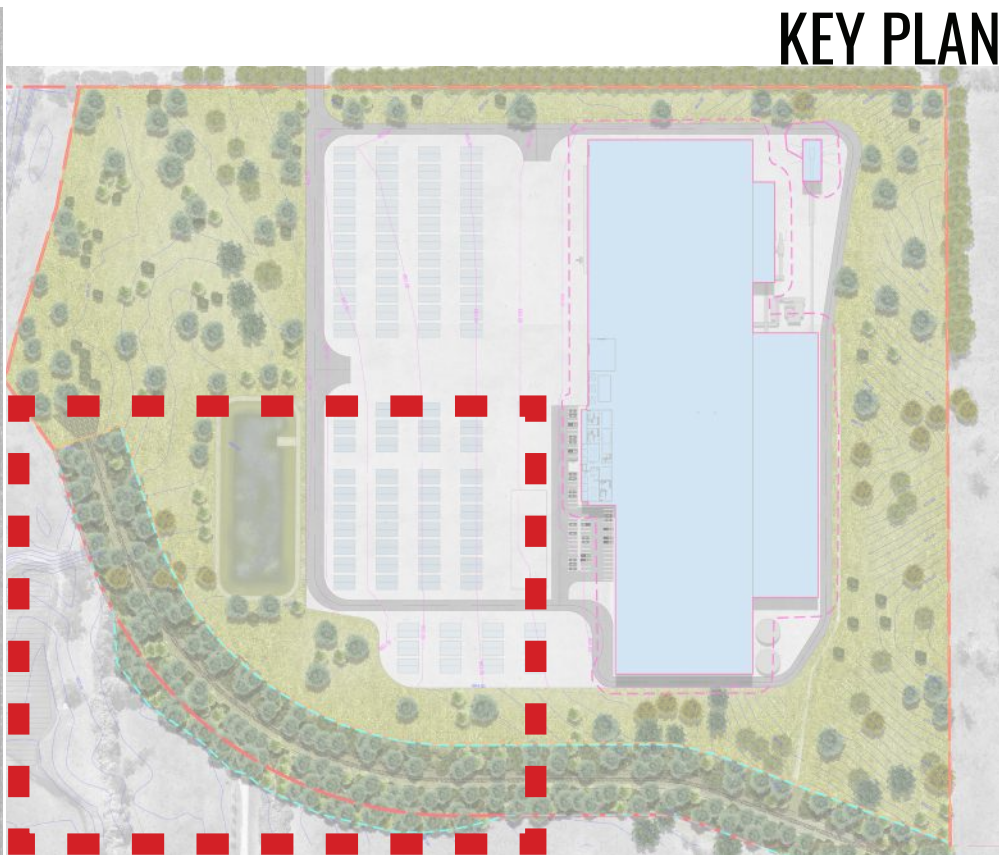
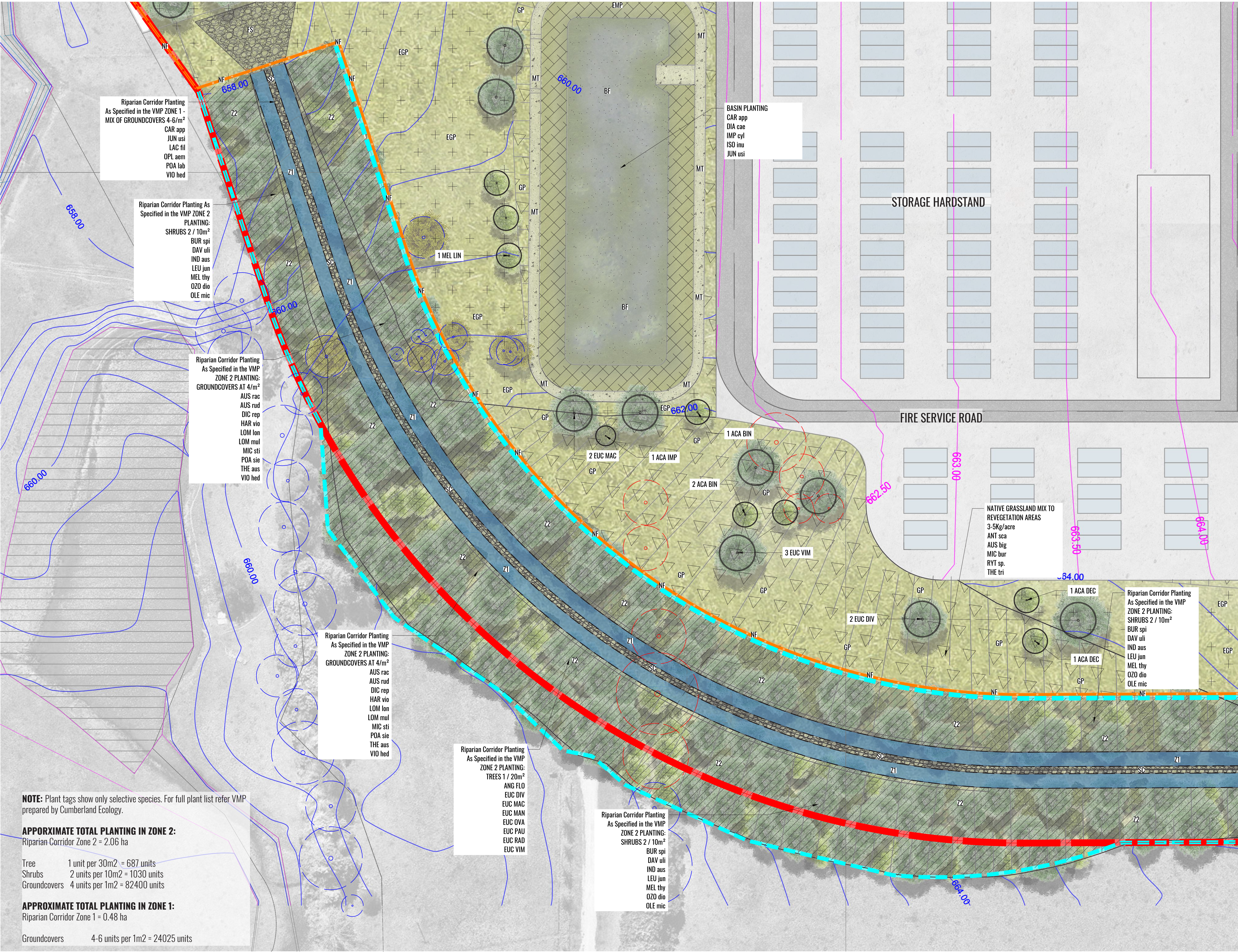
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Rev	Date	Description	Drawn	Checked
<b>D</b>	03.04.20	FOR SSD	SW	BG
<b>E</b>	22.04.20	FOR SSD	SW	BG
<b>F</b>	24.04.20	FOR SSD - UPDATED FLOW SPREADER	SW	BG





# LDA-04





LEGEND

SITE BOUNDARY

FENCE TO ARCHITECT'S DETAILS

EXISTING TREE TO BE RETAINED  
(REFER TO ARBORIST'S REPORT)

NATIVE ENDEMIC CANOPY  
TREE PLANTING

MIX OF INDIGENOUS SHRUB PLANTING  
(ONLY WITHIN STRUCTURED RIPARIAN BUFFER )

EXISTING PASTURE LAND TO  
BE RETAINED

NATIVE GRASSLAND PLANTING MIX  
(TO BE MANAGED TO 100mm HIGH IN APZ  
AREAS AS PER BUSHFIRE GUIDANCE)

BASIN EMBANKMENT PLANTING  
(REFER PLANTING SCHEDULE)

BASIN FLOOR PLANTING  
(REFER PLANTING SCHEDULE)

STRUCTURED RIPARIAN  
BUFFER PLANTING ZONE 2

STRUCTURED RIPARIAN  
BUFFER PLANTING ZONE 1

2.0M WIDE ROCK-LINED  
FLOW CHANNEL

OPEN DRAIN SWALE  
PLANTING

PROPOSED INDICATIVE FLOW  
SPREADER. REFER TO CIVIL DWGS.

STORMWATER BASIN  
MAINTENANCE TRACK

40M RIPARIAN CORRIDOR BUFFER  
SETBACK

ASSET PROTECTION ZONE BOUNDARY  
AS PER BUSHFIRE REPORT

PLANTING CODES (REFER TO PLANT  
SCHEDULE)

EXISTING CONTOUR LEVELS  
REFER CIVIL DWG

PROPOSED DESIGN CONTOURS.  
REFER CIVIL DWG

DEMOLISHED STRUCTURES  
REFER ARCHITECT'S DWG

EXISTING TREES REMOVED  
(REFER TO ARBORIST'S REPORT)

Drawing Title:  
**Landscape Detail Plan 04**  
DWG No:  
**LDA-05**

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Architect:  
**SBA**  
ARCHITECTS

Client:  
**WILLOW TREE**  
PLANNING

Scale:  
1:500 @ A1  
1:1000 @ A3

Date:  
24.04.20

Job Number:  
190722

North:

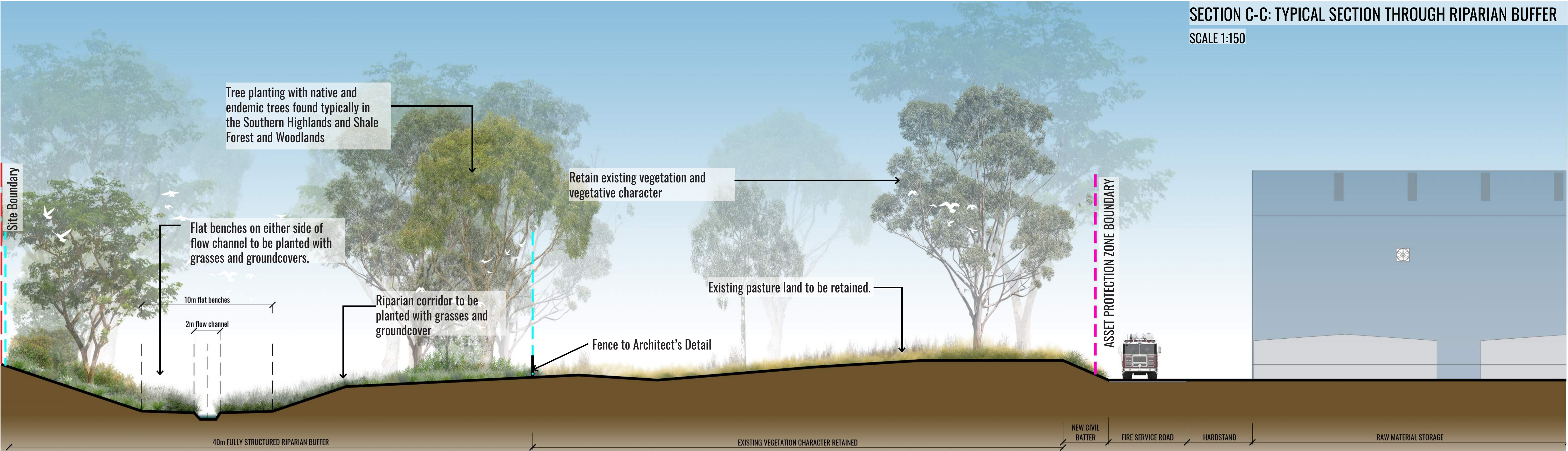
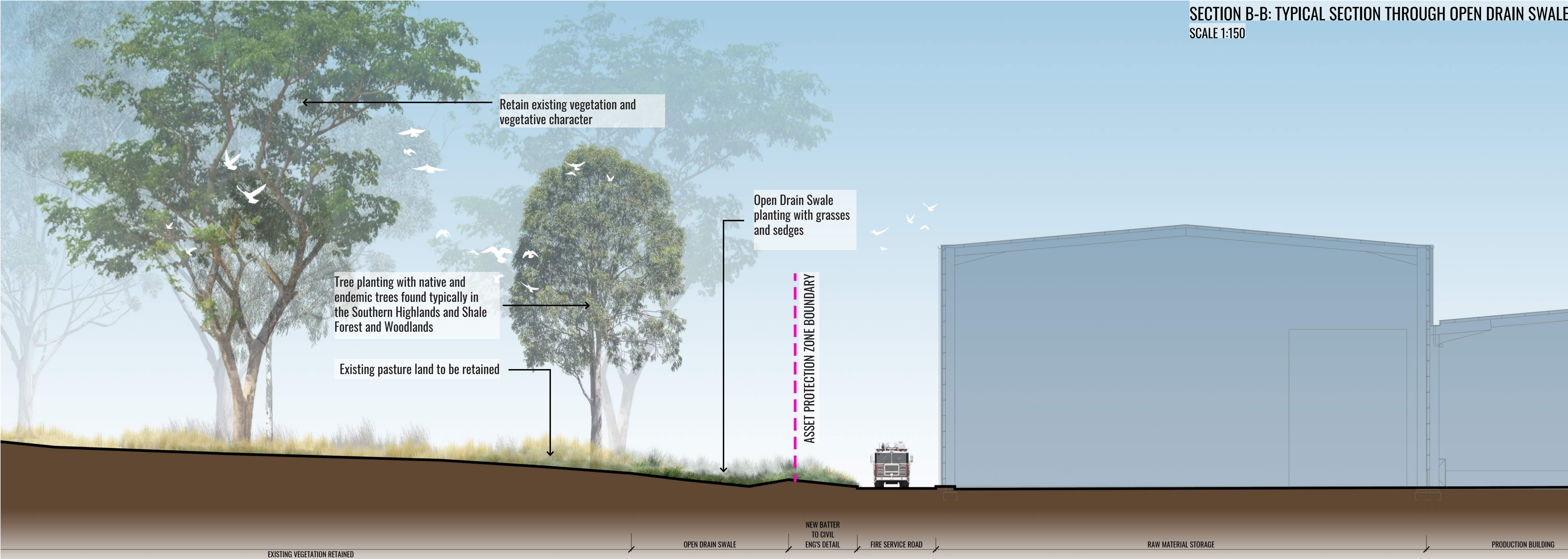
Project:  
**PROPOSED BRICKWORKS PLANT**  
416 and 524 Berrima Road, Moss Vale, NSW 2577

Revision		FOR SSD APPROVAL		
Rev	Date	Description	Drawn	Checked
<b>D</b>	03.04.20	FOR SSD	SW	BG
<b>E</b>	22.04.20	FOR SSD	SW	BG
<b>F</b>	24.04.20	FOR SSD - UPDATED FLOW SPREADER	SW	BG









Drawing Title:  
**Typical Landscape Sections 02**  
DWG No: **LDA-07**

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ABN 84 620 205 781 ACN 620 205 781

Architect:  
**SBA**  
ARCHITECTS

Client:  
**WILLOW TREE**  
PLANNING

Scale:	Date:	Job Number:	North:	Revision					FOR SSD APPROVAL	
				Rev	Date	Description	Drawn	Checked		
Project:	24.04.20	190722	PROPOSED BRICKWORKS PLANT 416 and 524 Berrima Road, Moss Vale, NSW 2577	D	03.04.20	FOR SSD	SW	BG		
				E	22.04.20	FOR SSD	SW	BG		
				F	24.04.20	FOR SSD - UPDATED FLOW SPREADER	SW	BG		



## MAINTENANCE PLAN

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. The landscape contractor shall attend the site on a **weekly basis** to maintain the landscape works commencing from practical completion.

## Rubbish Removal

The Landscape Contractor shall undertake rubbish removal from the site on a **weekly basis** to ensure the site remains in tidy condition.

## Weed Eradication

Weed growth that may occur in grassed, planted or mulched areas is to be removed using environmentally acceptable methods i.e. non-residual glyphosate herbicide (e.g. 'Roundup', applied in accordance with the manufacturer's direction).

## Tree Replacement

Trees shall show signs of healthy vigorous growth and be free from disease and not exhibit signs of stress prior to handover to the client. Any trees or plant that die or fail to thrive, or are damaged or stolen will be replaced. Replacement material shall have the initial maintenance period extended in accordance with the landscape contract conditions. Trees and plant materials shall be equal to the minimum requirements of species specified and approved material delivered to site. Should the condition decline from the approved sample the Superintendent reserves the right to reject the tree / plants.

Frequency: as required.

## Stakes

Adjust and/or replace stakes and ties where required. Remove staking and guying when instructed by the Superintendent.

## Pruning

Selective pruning may be required during the establishment period to promote a balanced canopy structure. These activities shall be carried out to the best horticultural and industry practice. All pruned material is to be removed from site.

## Mulched Surfaces

All planter beds and garden areas shall have a minimum depth of 75mm organic mulch. All mulch is to be free of deleterious matter such as soil, weeds, sticks and should conform to AS 4454.

Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter. Reinstate depths to a uniform level of 75mm with mulch as specified mulch to be free of any wood material impregnated with CCA or similar toxic treatment. Top up mulch levels prior to handover to client & estate management.

## Watering

Implement an appropriate hand watering regime in areas not irrigated in association with current watering programme to maintain plant health and vigour. The program shall reflect seasonal conditions and plant species.

Frequency: Weekly or as required.

### Soil In Natural Ground

Non-Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Organic Garden Mix' as supplied by Australian Native Landscapes. Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Native Low 'P' Mix' as supplied by Australian Native Landscapes. Soil to conform to AS4419 refer to typical detail.

## Pest and Disease Control

The Landscape Contractor shall spray for pests and disease infestations when the pest and fungal attack has been positively identified and when their populations have increased to a point that will become detrimental to plant growth. Apply all pesticides to manufacturer's directions.

Frequency: weekly inspection

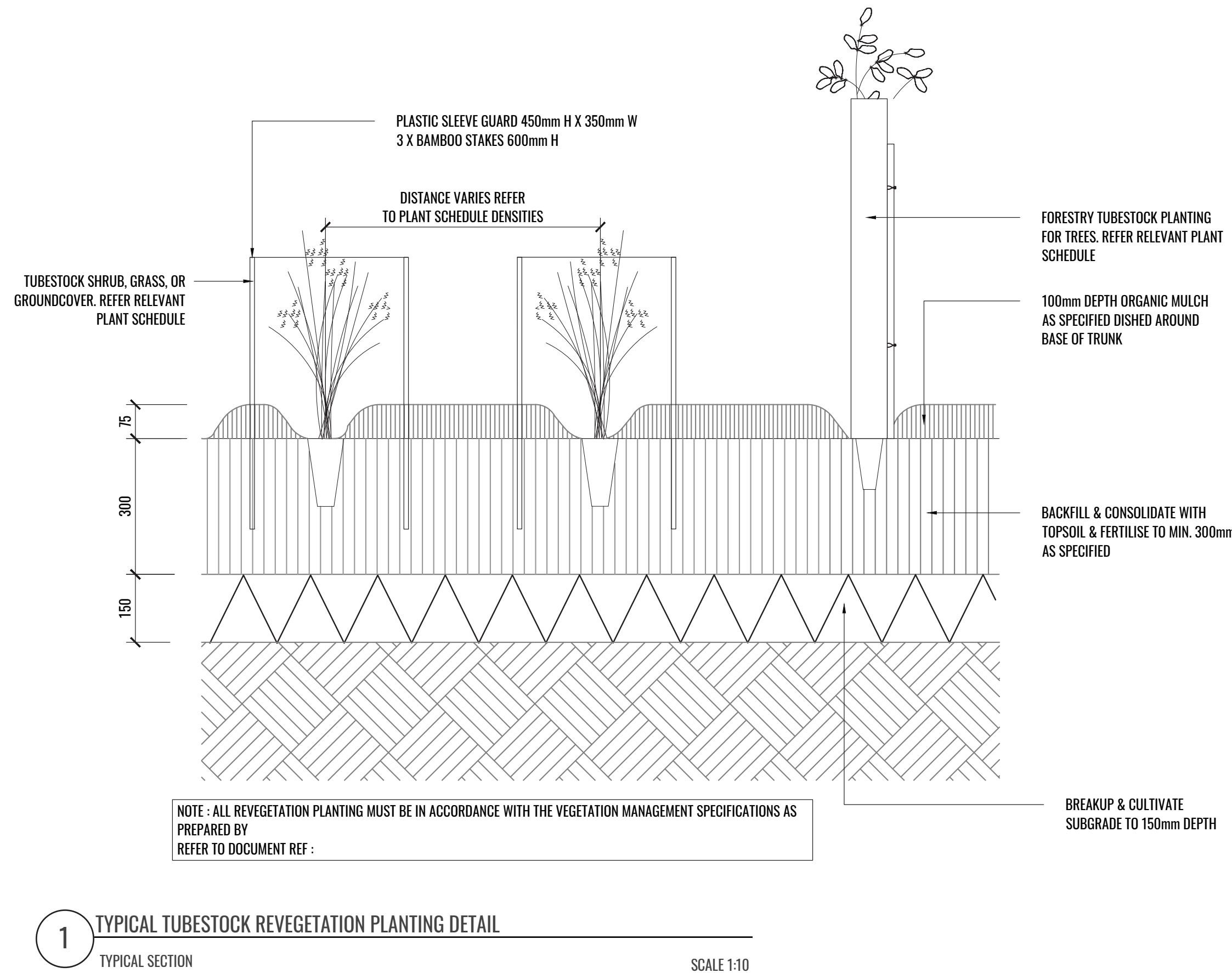
## Fertilising

Generally check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Fertiliser should be applied at the beginning and the end of the (summer) growing season.

## Standards

All grown or purchased plant stock must conform to all the conditions and requirements given in NATSPEC Guide: Specifying Trees. Soils to be in accordance with AS4419, mulching composts and conditioners to be in accordance with AS4454. Soils should conform to best practice specifications as listed in the Landscape Soils Handbook (Simon Leake & Elke Haeger 2017).

## TYPICAL LANDSCAPE DETAILS



**Drawing Title:**

## Specification & Details

**DWG No:**

# LDA-08

**GEO SCAPES**  
LANDSCAPE ARCHITECTS

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ABN 84 620 205 781 ACN 620 205 781

**Architect:**

**SBA**  
ARCHITECTS

**Client:**



WILLOW TREE  
PLANNING

Scale:

As shown @ A1  
As shown @ A3

Date:

24.04.20

Job Number:

190722

North:

Revision

**FOR SSD APPROVAL**

Rev	Date	Description	Drawn	Checked
<b>D</b>	03.04.20	FOR SSD	SW	BG
<b>E</b>	22.04.20	FOR SSD	SW	BG
<b>F</b>	24.04.20	FOR SSD - UPDATED FLOW SPREADER	SW	BG



PLANTING SCHEDULE

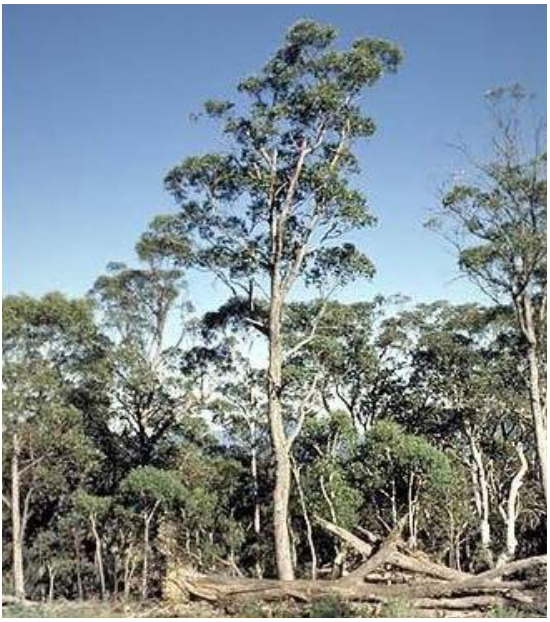
	PROPOSED PLANTING SCHEDULE							
CODE	BOTANICAL NAME	COMMON NAME	NATIVE	ENDEMIC	MATURE HEIGHT	SIZE	PLANTING DENSITY	QTY
	SCATTERED TREE GROUPS							
ACA BIN	Acacia binervata	Two-veined hickory	✓	✓	16m	Forestry Tube	AS SHOWN	19
ACA DEC	Acacia decurrens	black wattle	✓	✓	15m	Forestry Tube	AS SHOWN	9
ACA IMP	Acacia implexa	Hickory wattle	✓	✓	12m	Forestry Tube	AS SHOWN	15
ACA LON	Acacia longifolia	Sydney golden wattle	✓	✓	6m	Forestry Tube	AS SHOWN	10
EUC DIV	Eucalyptus dives	Broad-leaved Peppermint	✓	✓	20m	Forestry Tube	AS SHOWN	7
EUC MAC	Eucalyptus macarthurii	Camden Woollybutt	✓	✓	35m	Forestry Tube	AS SHOWN	16
EUC MAN	Eucalyptus mannifera	Brittle Gum	✓	✓	20m	Forestry Tube	AS SHOWN	10
EUC OVA	Eucalyptus ovata	Swamp Gum	✓	✓	30m	Forestry Tube	AS SHOWN	10
EUC PAU	Eucalyptus pauciflora	Snow Gum	✓	✓	30m	Forestry Tube	AS SHOWN	10
EUC RAD	Eucalyptus radiata sub. radiata	Narrow-leaved Peppermint	✓	✓	35m	Forestry Tube	AS SHOWN	3
EUC VIM	Eucalyptus viminalis	Manna Gum	✓	✓	25m	Forestry Tube	AS SHOWN	7
MEL LIN	Melaleuca linariifolia	Snow in Summer	✓	✓	4m	Forestry Tube	AS SHOWN	8
	NATIVE GRASSLAND MIX TO NEW EARTHWORKS AND DISTURBED AREAS							
ANT sca	Anthosachne scabra	Native Wheat Grass	✓		0.80m	Hydromulch	AS SPECIFIED	AS SPECIFIED
AUS big	Austrostipa bigeniculata	Kneed Spear grass	✓		1.0m	Hydromulch	AS SPECIFIED	AS SPECIFIED
MIC bur	Microlaena stipoides var. Burra	Burra Weeping grass	✓		0.25m	Hydromulch	AS SPECIFIED	AS SPECIFIED
RYT sp.	Rytidosperma spp.	Wallaby Grass	✓		0.80m	Hydromulch	AS SPECIFIED	AS SPECIFIED
THE tri	Themeda triandra	Kangaroo grass	✓	✓	0.50m	Hydromulch	AS SPECIFIED	AS SPECIFIED
	RIPARIAN CORRIDOR PLANTING							
	ZONE 1 PLANTING - GROUNDCOVERS 4-6 per 1m2							
CAR app	Carex appressa	Tall Sedge	✓		0.8m	Tubestock	As per VMP	As per VMP
JUN usi	Juncus usitatus	Common Rush	✓		0.8m	Tubestock	As per VMP	As per VMP
LAC fil	Lachnagrostis filiformis	Blown Grass	✓	✓	0.8m	Tubestock	As per VMP	As per VMP
OPL aem	Oplismenus aemulus	Basket Grass	✓	✓	1.0m	Tubestock	As per VMP	As per VMP
POA lab	Poa labillardieri	River tussock grass	✓	✓	0.80m	Tubestock	As per VMP	As per VMP
PHA aus	Phragmites australis	Common Reed	✓	✓	1.0m	Tubestock	As per VMP	As per VMP
VIO hed	Viola hederacea	Native violet	✓	✓	0.20m	Tubestock	As per VMP	As per VMP
	ZONE 2 PLANTING							
	TREES @ 1 units per 30m2							
ANG FLO	Angophora floribunda	Rough-barked Apple	✓		30m	Forestry Tube	As per VMP	As per VMP
EUC DIV	Eucalyptus dives	Broad-leaved Peppermint	✓	✓	20m	Forestry Tube	As per VMP	As per VMP
EUC MAC	Eucalyptus macarthurii	Camden Woollybutt	✓	✓	35m	Forestry Tube	As per VMP	As per VMP
EUC MAN	Eucalyptus mannifera	Brittle Gum	✓	✓	20m	Forestry Tube	As per VMP	As per VMP
EUC OVA	Eucalyptus ovata	Swamp Gum	✓	✓	30m	Forestry Tube	As per VMP	As per VMP
EUC PAU	Eucalyptus pauciflora	Snow Gum	✓	✓	30m	Forestry Tube	As per VMP	As per VMP
EUC RAD	Eucalyptus radiata sub. radiata	Narrow-leaved Peppermint	✓	✓	35m	Forestry Tube	As per VMP	As per VMP
EUC VIM	Eucalyptus viminalis	Ribbon Gum	✓	✓	25m	Forestry Tube	As per VMP	As per VMP

NOTE:

ANY GRASSLAND MIX WITHIN THE ASSET PROTECTION ZONE SHOULD BE MAINTAINED AT A MINIMUM HEIGHT OF 100MM AS PER BUSHFIRE GUIDANCE. IN ALL OTHER AREAS GLASSLANDS TO BE SLASHED TWICE YEARLY.

	SHRUBS @ 2 units per 10m2							
BUR spi	Bursaria spinosa subsp. spinosa	Blackthorn	✓	✓	6m	Tubestock	As per VMP	As per VMP
DAV uli	Daviesia ulicifolia	Gorse bitter-pea	✓	✓	2m	Tubestock	As per VMP	As per VMP
IND aus	Indigofera australis	Australian indigo	✓	✓	1.2m	Tubestock	As per VMP	As per VMP
LEU jun	Leucopogon juniperinus	Prickly Beard-heath	✓	✓	1.0m	Tubestock	As per VMP	As per VMP
MEL thy	Melaleuca thymifolia	Thyme Honey myrtle	✓	✓	1.5m	Tubestock	As per VMP	As per VMP
OZO dio	Ozothamnus diosmifolius	Rice flower,	✓	✓	1.5m	Tubestock	As per VMP	As per VMP
OLE mic	Olearia microphylla	Small-leaved Daisy Bush	✓	✓	2.0m	Tubestock	As per VMP	As per VMP
	GROUNDCOVER @ 4 units per 1m2							
AUS rac	Austrodanthonia racemosa	Wallaby grass	✓	✓	0.60m	Tubestock	As per VMP	As per VMP
AUS rud	Austrostipa rudis	Veined Spear-grass	✓		0.6m	Tubestock	As per VMP	As per VMP
DIC rep	Dichondra repens	Kidney weed	✓	✓	0.10m	Tubestock	As per VMP	As per VMP
HAR vio	Hardenbergia violacea	Native lilac	✓	✓	1.0m	Tubestock	As per VMP	As per VMP
LOM lon	Lomandra longifolia	Spiny Mat rush	✓	✓	0.60m	Tubestock	As per VMP	As per VMP
LOM mul	Lomandra multiflora	Mat rush	✓	✓	0.80m	Tubestock	As per VMP	As per VMP
MIC sti	Microlaena stipoides var. stipoides	Weeping grass	✓	✓	0.25m	Tubestock	As per VMP	As per VMP
POA sie	Poa sieberiana	Snowgrass	✓	✓	0.50m	Tubestock	As per VMP	As per VMP
THE aus	Themeda australis	Kangaroo Grass	✓		0.7m	Tubestock	As per VMP	As per VMP
VIO hed	Viola hederacea	Native violet	✓	✓	0.20m	Tubestock	As per VMP	As per VMP
	STORM WATER BASIN PLANTING							
CAR app	Carex appressa	Tall Sedge	✓		0.8 m	Tubestock	6/m2	
DIA cae	Dianella caerulea var. caerulea	Flax Lilly	✓		.7 m	Tubestock	6/m2	
IMP cyl	Imperata cylindrica var major	Blady Grass	✓		1.2 m	Tubestock	6/m2	
ISO inu	Isolepsis inundata	Swamp Club Rush	✓		5-30 cm	Tubestock	6/m2	
JUN usi	Juncus usitatus	Common Rush	✓		1 m	Tubestock	6/m2	

PLANT IMAGES



Eucalyptus dives



Eucalyptus macarthurii



Eucalyptus mannifera



Eucalyptus radiata sub. radiata



Eucalyptus viminalis



Acacia decurrens



Eucalyptus ovata



Bursaria spinosa subsp. spinosa



Daviesia ulicifolia



Acacia implexa



Hardenbergia violacea



Anthosachne scabra



Rytidosperma spp.



Poa labillardieri



Carex appressa



Cyperus laevigatus



Ficinia nodosa



Juncus usitatus



Themeda triandra

Drawing Title:  
Planting Schedules & Imagery

DWG No: LDA-09

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Architect:



Client:



Scale:	Date:	Job Number:	North:	Revision		FOR SSD APPROVAL		
				Rev	Date	Description	Drawn	Checked
Project:	24.04.20	190722	PROPOSED BRICKWORKS PLANT 416 and 524 Berrima Road, Moss Vale, NSW 2577	D	03.04.20	FOR SSD	SW	BG
				E	22.04.20	FOR SSD	SW	BG
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