RIVERLANDS FORESHORE WALK RIVERLANDS, MILPERRA. NSW LANDSCAPE PLANS

Landscape Drawing List

Drawing No.	Title
LA-000	COVER SHEET AND REFERENCE PLAN
LA-001	MASTERPLAN
LA-100	PRECEDENTS AND MATERIAL PALETTE
LA-101	LANDSCAPE PLANS
LA-102	LANDSCAPE PLANS
LA-103	LANDSCAPE PLANS
LA-104	LANDSCAPE PLANS
LA-105	LANDSCAPE DETAIL PLANS
LA-106	LANDSCAPE DETAIL PLANS
LA-300	PLANTING SCHEDULE
LA-400	LANDSCAPE DETAILS
LA-401	LANDSCAPE DETAILS
LA-SPEC	LANDSCAPE SPECIFICATIONS

Site Location Plan



NOTE: Landscape Plans must be read in conjunction with Calibre's Drawings

NOTE: Plans are designed to be read and printed in colour

REFER SHEET LA-100 1 REFER SHEET LA-102 REFER SHEET LA REFER SHEET LA-101 **REFERENCE PLAN** Not To Scale

NOTE: All planting specified from 'Riverlands Site – Georges River and Northern Creekline VMP' (Cumberland Ecology 2022)









SITE VISIT 26.04.23

DRAWING NO.

В



MASTERPLAN



SINGLE SEATING NODE



SEATING/VIEWING NODE











MULTIPLE SEATING NODE





 \bigcirc

SEATING NODE TYPOLOGY



PICNIC AREA











MASTERPLAN

RIVERLANDS FORSHORE WALK, MILPERRA



PROJECT

В	02	DEVELOPMENT APPLICATION	CA	GP	13.11.23
А	01	DEVELOPMENT APPLICATION	CA	GP	03.10.23
REV	NO	DESCRIPTION	DWN	CHK	DATE

** GGBF HABITAT SWALE & SEATING NODE LOCATIONS INDICATIVE. FURTHER INFIELD ANALYSIS REQUIRED.



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¹ Viewing Platforms Platforms overlooking the river immerse visitors in the surrounding landscape. Image - Narrabeen Lagoon

2

Shaded Seating
 Seating placed strategically near existing canopy, making use of dappled shade. Image - Narrabeen Lagoon

MATERIAL PALETTE

- ⁴ Seating Node Materiality Cement stabilised crushed sandstone gravel, with 200mm wide reinforced concrete edge.
- ⁵ Elevated Path With Balustrade FRP grate deck with non slip surface and stainless steel balustrade.
- 6 FRP Pattern Rectangular pattern on FRP grate.

- 7 Seating Materiality 500x500x2000mm timber billets, on 30mm feet.
- 8 Picnic Seating Street Furniture Australia Aria dda table with seating. 2 x CMA6-DDA 1800mm, wheelchair end access. Material/Colour: PEFC Spotted Gum oiled



DESIGNED:	DRAWN:	ET	CHECK:	GP		
APPROVAL:	BLA (CANB) MLAUD (HARV) FAILA - Registered Landscape Architect: 71					
	on Japan	_ .	DATE: 13.11.23			
ISSUE DA ISSU	JE		PROJECT NO.			
SCALE						

DRAWING NO REVISION LA-100 В



DESIGNED:	DRAWN:	ET	CHECK:	GP
APPROVAL:	Garth Paterson		ANB) MLAUD (HARV) Registered Landscape	Architect: 716
	ion Japan		DATE: 13.11.23	
ISSUE DA ISS	UE		PROJECT NO.	
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LANDSCAPE PLAN

RIVERLANDS FORSHORE WALK, MILPERRA



PROJE

В	02	DEVELOPMENT APPLICATION	CA	GP	13,11,23
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REV	NO	DESCRIPTION	DWN	CHK	DATE

** VPA RIPARIAN CORRIDOR INCLUDES GGBF HABITAT SWALES - REFER FUTURE DA.

** SEATING NODE LOCATIONS INDICATIVE. FURTHER INFIELD ANALYSIS REQUIRED.

	0
LEGEND	
	PATENT OF WORKS
	RMER EDGE
\bigcirc	EXISTING TREE TO BE RETAINED
Õ	EXISTING TREE TO BE REMOVED
Õ	Ang Ib Angophora floribunda PER DETALS AND SCHEDULE
\odot	Cas gla Casuarina glauca PER DETALS AND SCHEDULE
\odot	Euc cre Eucalyptus crebra PER DETALS AND SCHEDULE
$\mathbf{\mathbf{\cdot}}$	Euc mol Eucalyptus moluccans PER DETAILS AND SCHEDULE
$\mathbf{\odot}$	Euc ter Eucalyptus taraticomis PER DETALS AND SCHEDULE
\odot	Mel ely Melaleuca stypheloides PER DETALS AND SCHEDULE
	VPA RIPARIAN CORRIDOR SEEDED REVEGETATION REFER FUTURE DA
	SWAMP OAK FLOODPLAIN FOREST REVEGETATION HIKO TUBE REFER DETAILS AND SCHEDULE
	RIVER FLAT EUCALYPT FOREST REVEGETATION HIKO TUBE PER DETAILS AND SCHEDULE
	MANGROVE REVEGETATION HIKO TUBE PER DETALS AND SCHEDULE
	CUMBERLAND PLAIN WOODLAND REVEGETATION HIKO TUBE PER DETALS AND SCHEDULE
	CONCRETE SHARED PATH REFER CIVIL DETAILS
<u>88</u>	SANDSTONE ROCK RIP RAP REFER CIVIL DETAIL
	ELEVATED SHARED PATH REFER CIVIL DETAILS

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APPROVAL:	Garth Paterson		CANB) MLAUD (HARV) • Registered Landscap	e Architect: 716
	on Japan	_ .	DATE: 13.11.23	
ISSUE DA ISSU	E		PROJECT NO.	
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LANDSCAPE PLAN

RIVERLANDS FORSHORE WALK, MILPERRA



PROJECT

B 02 DEVELOPMENT APPLICATION A 01 DEVELOPMENT APPLICATION REV NO DESCRIPTION CA GP 13.11.23 CA GP 03.10.23 DWN CHK DATE



** SEATING NODE LOCATIONS INDICATIVE. FURTHER INFIELD ANALYSIS REQUIRED.

MANGROVE REVEGETATION HIKO TUBE PER DETALS AND SCHEDULE CUMBERLAND PLAIN WOODLA HIKO TUBE PER DETAILS AND SCHEDULE CONCRETE SHARED PATH REFER CIVIL DETAILS SANDSTONE ROCK RIP RAP REFER CIVIL DETAL ELEVATED SHARED PATH REFER CIVIL DETALS





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DRAWING TI LANDSCAPE DETAIL PLAN

RIVERLANDS FORSHORE WALK, MILPERRA



PROJEC1

В	02	DEVELOPMENT APPLICATION	CA	GP	13.11.23
A	01	DEVELOPMENT APPLICATION	CA	GP	03.10.23
REV	NO	DESCRIPTION	DWN	CHK	DATE
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** VPA RIPARIAN CORRIDOR INCLUDES GGBF HABITAT SWALES - REFER FUTURE DA.

** SEATING NODE LOCATIONS INDICATIVE. FURTHER INFIELD ANALYSIS REQUIRED.

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	EXTENT OF WORKS
	RIVER EDGE
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Õ	Ang Ito Anggaphora floribunda PER DETAILS AND SCHEDULE
\odot	Cas gla Casuarina glauca PER DETAILS AND SCHEDULE
Ō	Euc are Eucatyptus crebra PER DETAILS AND SCHEDULE
\odot	Euc mai Eucalyptus moluccana PER DETALS AND SCHEDULE
\odot	Eucler Eucalyptus teneticomis PER DETAILS AND SCHEDULE
\odot	Mel By Molaleuca stypholoides PER DETAILS AND SCHEDULE
	VPA RIPARIAN CORRIDOR SEEDED REVEGETATION REFER PUTURE DA
	SWAMP OAK FLOODPLAIN FOREST REVEGETATION HKO TUBE REFER DETALS AND SCHEDULE
	RIVER FLAT EUCALYPT FOREST REVEGETATION HIKO TUBE PER DETAILS AND SCHEDULE
	MANGROVE REVEGETATION HKO TUBE PER DETAILS AND SCHEDULE
	CUMBERLAND PLAIN WOODLAND REVEGETATION HKO TUBE PER DETAILS AND SCHEDULE
	CONCRETE SHARED PATH REFER CIVIL DETAILS
333	SANDSTONE ROCK RIP RAP REFER CIVIL DETAIL
	ELEVATED SHARED PATH REFER CIVIL DETAILS

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PLANTING MIXES

		Ν	ASTER PLANTING	LIST TREES				SOFF REVEG	ETATION	
Code	Botanical Name	Pot Size	Density	HEIGHT @ PLANTING	CALIPER	STAKING	TOTAL			
			45L TREE				•	Zone 1b	TA=2798m2	
Ang flo	Angophora floribunda	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts	1	Plants	Plants/m2	Density (per VMP)
Cas gla	Casuarina glauca	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts		U Tetragonia tetragonioides	1	1 4 per 1m2
Euc cre	Eucalyptus crebra	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts		Selliera radicans		-
Euc mol	Eucalyptus moluccana	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts		Si Carex apressa Se Gahnia clarkei	0.5	
Euc ter	Eucalyptus tereticornis	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts	3	Juncus kraussii subsp. Australiensis	0.5	1
Mel sty	Melaleuca stypheloides	100L	as shown	2.5m	40mm	2x 50x50x1800mm KDHW posts	3	☆ Callistemon salignus	0.1	1 1 per 5m2
		-	HIKO/TUBE T			1	-	Ryoporum acuminatum	0.1	L
Ang flo	Angophora floribunda	HIKO Tube	refer mix table	NA	NA	NA	12	5 (0)		
Cas gla	Casuarina glauca	HIKO Tube	refer mix table	NA	NA	NA	280	ដ្ឋ Casuarina glauca		1 2 per 10m2
Euc bau	Eucalyptus baueriana	HIKO Tube	refer mix table	NA	NA	NA	12	任 Glochidion ferdinandi	0.1	L
Euc cre	Eucalyptus crebra	HIKO Tube	refer mix table	NA	NA	NA	16	RFEF REVEGI	TATION	
Euc mol	Eucalyptus moluccana	HIKO Tube	refer mix table	NA	NA	NA	16			
Glo fer	Glochidion ferdinandi	HIKO Tube	refer mix table	NA	NA	NA	280	Zone 2b	TA=391m2	
								Plants	Plants/m2	Density (per VMP)
		MASTER	PLANTING LIST SH	RUBS & GRASSES				Viola hederacea	1.5	5 6 per 1m2
Code	Botanical Name	Pot Size	Density	HEIGHT @ PLANTING	CALIPER	STAKING	TOTAL	Doodia aspera	1.5	
		-	SHRUBS	-				Austrostipa ramosissima	1	1
Bre obl	Breynia oblongifolia	HIKO Tube	refer mix table	NA	NA	NA	156	B Themeda triandra	1	1
Bur spi	Bursaria spinosa	HIKO Tube	refer mix table	NA	NA	NA	32	Plectranthus parviflorus	0.3	3 1 per 3m2
Cal sal	Callistemon salignus	HIKO Tube	refer mix table	NA	NA	NA	280	Ozothamnus diosmifolius	0.3	3
Ind aus	Indigophora australis	HIKO Tube	refer mix table	NA	NA	NA	32	풍 Breynia oblongifolia 끮 Angophora floribunda	0.4	4 3 1 per 16m2
Myo acu	Myoporum acuminatum	HIKO Tube	refer mix table	NA	NA	NA	280	Eucalyptus baueriana	0.03	
Ozo dio	Ozothamnus diosmifolius	HIKO Tube	refer mix table	NA	NA	NA	130			
Ple par	Plectranthus parviflorus	HIKO Tube	refer mix table	NA	NA	NA	130	MANGROVE REV	EGETATION	
•			GRASSES		•	•	•			
Aus ram	Austrostipa ramosissima	HIKO Tube	refer mix table	NA	NA	NA	391	Zone 3b	TA=1527m2	
Bau jun	Baumea juncea	HIKO Tube	refer mix table	NA	NA	NA	764	Plants u Sarcocornia quinqueflora	Plants/m2	Density (per VMP)
Car app	Carex appressa	HIKO Tube	refer mix table	NA	NA	NA	1399	^o Tetragonia tetragonioides	1	1 4 per 1m2 1
Gah cla	Gahnia clarkei	HIKO Tube	refer mix table	NA	NA	NA	1399	Baumea juncea	0.5	5
Jun kra	Juncus krassii subsp. Australiensis	HIKO Tube	refer mix table	NA	NA	NA	3562	Juncus kraussii Subsp. Australiensis	0.5	5
Lom mul	Lomandra multiflora	HIKO Tube	refer mix table	NA	NA	NA	316	Sporobulus virginicus	1	1
Lom fil	Lomandra filiformis	HIKO Tube	refer mix table	NA	NA	NA	391			
Mic sti	Microlaena stipoides	HIKO Tube	refer mix table	NA	NA	NA	632	CPW REVEGI	TATION	
Spo vir	Sporobulus virginicus	HIKO Tube	refer mix table	NA	NA	NA	1527	Zone 4b	TA=632m2	
The tri	Themeda triandra	HIKO Tube	refer mix table	NA	NA	NA	707	Plants	Plants/m2	Density (per VMP)
			GROUNDCOV		1	1	1	Ajuga australis	0.5	5 4 per 1m2
Aju aus	Ajuga australis	HIKO Tube	refer mix table	NA	NA	NA	316	ں Dichondra repens	0.5	
Dic rep	Dichondra repens	HIKO Tube	refer mix table	NA	NA	NA	316	Glycine tabacina Wahlenbergia gracilis	0.5 0.5	
Doo asp	Doodia aspera	HIKO Tube	refer mix table	NA	NA	NA	510	Lomandra multiflora	0.5	
Gly tab	Glycine tabacina	HIKO Tube	refer mix table	NA	NA	NA	316	Microlaena stipoides	1	L
Sar qui	Sarcocornia quinqueflora	HIKO Tube	refer mix table	NA	NA	NA	1527	ច Themeda triandra	0.5	
Sel rad	Selliera radicans	HIKO Tube	refer mix table	NA	NA	NA	2798	Bursaria spinosa		5 1 per 10m2
Tet tet	Tetragonia tetragonioides	HIKO Tube	refer mix table	NA	NA	NA	4325	Indigophora australis	0.05	
		HIKO Tube	refer mix table	NA	NA	NA	4325 587	Eucalyptus crebra	0.021	5 1 per 20m2
Vio hed	Viola hederacea		rotor miv tanio	NA NA	NI A	NIA NIA	527			

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ENGINEER



LEGEND

PROJECT **RIVERLANDS FORSHORE** WALK, MILPERRA

ET CHECK: GF

BLA (CANB) MLAUD (HARV) FAILA - Registered Landscape Archite

DATE: 13.11.23

PROJECT NO.

PLANTING SCHEDULE

DRAWN:

Gain Japan.



DESIGNED: APPROVAL:

SIGNED:

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ISSUE

SCALE



В	02	DEVELOPMENT APPLICATION	CA	GP	13.11.23
А	01	DEVELOPMENT APPLICATION	CA	GP	03.10.23
REV	NO	DESCRIPTION	DWN	CHK	DATE

A 01 DEVELOPMENT APPLICATION CAL GP 03 10	В	02	2 DEVELOPMENT APPLICATION	CA	GP	13.11.23
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Α	01	DEVELOPMENT APPLICATION	CA	GP	03.10.23
REV	NO	DESCRIPTION	DWN	CHK	DATE

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REV	NO	DESCRIPTION	DWN	CHK	DATE

В	02	DEVELOPMENT APPLICATION	CA	GP	13,11.
Α	01	DEVELOPMENT APPLICATION	CA	GP	03.10.
REV	NO	DESCRIPTION	DWN	CHK	DAT

В	02	DEVELOPMENT APPLICATION	CA	GP	13.11.
A	01	DEVELOPMENT APPLICATION	CA	GP	03.10.
REV	NO	DESCRIPTION	DWN	CHK	DAT

	В	02	DEVELOPMENT APPLICATION	CA	GP	13.1
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DRAWING NO. REVISION В LA-300



TREE IN MASSPLANTING









Paterson Design Studio Г Landscape Architects / Urban Designers Paterson Design Studio PTV. LTD T +61 2 9452 4911 16a/1-15 Tramore Place admin@pdsdesign.com Killarney Heights, NSW 2087. www.pdsdesign.com.au Copyright by PDS Pty Ltd. This drawing, or parts thereof, may r consent of PDS Pty Ltd. It is implied and has legal backing. ons only. All dimensions to be verified on site before commencin e stated. The drawings are to be read in conjunction with the spe Use figured dimens mm unless otherwis written instructions tions issued. icies shall be ref Any discr ENGINEER calibre LEGEND 12 DEVELOPMENT APPLICATION 11 DEVELOPMENT APPLICATION 10 DESCRIPTION CA GP 13.11.23 CA GP 03.10.23 DWN CHK DATE mirvac RIVERLANDS FORSHORE WALK, MILPERRA LANDSCAPE DETAILS

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TREES IN CLUSTERS OF 2-3 TREES REFER PLANTING SCHEDULE, 1 TREE PER 10m2

- MIX OF TUFTED GRASSES & GROUNDCOVERS - TO BE PLANTED IN GROUPS OF 20-50 PLANTS REFER SCHEDULE 6 HIKO PLANTS PER 1m2

- SHRUBS TO BE PLANTED IN GROUPS OF 5 - 10 IN ORGANIC SHAPES PLANTED 1M CTC, 6 SHRUBS PER 10m2







NOTES 1) MIX 20:1 SELECTED NATURAL TONE SANDSTONE GRAVEL:CEMENT. CEMENT: TYPE GP TP AS 3972. 2) GRAVEL GRADING: MAXIMUM PARTICLE L2E 10mm, 30 - 40% PASSING 5mm SIEVE, OF UNIFORM COLOUR AND LOW PLASTICITY. 3) GRAVEL SOURCE AND COLOUR: BUFF AS SUPPLIED BY ANL R APPROVED EQUIVALENT. 4) COMPACTION; COMPACT TO ACHIEVE A DRY DENSITY RATIO OF 95% WHEN TESTED TO AS 1289.5.4.1 (STANDARD COMPACTION).







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Landscape Architects / Urban Designers Paterson Design Studio PTV. LTD T +61 2 9452 4911 16a/t-15 Tramore Place admin@pdsdesign.com. Killamey Heights, NSW 2087. www.pdsdesign.com.au	au
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Use figured dimensions only. All dimensions to be verified on site before commer mm unless otherwise stated. The drawings are to be read in conjunction with the written instructions less and	icing work, All dimensions are in specification and any other
Any discrepancies shall be referred to the Superintendent for a written decision p installation' construction.	
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FAILA- Re	3) MLAUD (HARV) jistered Landscape Architect: 716
	TE: 13.11.23
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TECHNICAL SPECIFICATION: LANDSCAPE WORKS Siteworks, including soil preparation; Planting including plant and other materials, planting works, and planting establishment; Building works associated with landscaping 1.2 STANDARDS REFERENCED DOCUMENTS: The following standards are referred to in this project specification. AS 4419 (2003) Soils for landscaping and garden use AS 4454 (1997) Composts, soil conditioners and mulches 1.3 ORDERING Within 12 days of the date of acceptance of tender, furnish proof of ordering the required materials, and advise immediately if any supply difficulties are encountered. No extension of time will be granted if any material or product is not available because of late ordering. 1.4 INTERPRETATION Site topsoil: Soil excavated from the site which has the following characteristics: Contains organic matter. Supports plant life. Free from unwanted matter. Unwanted matter (in topsoil) Large rocks, concrete and brick Stones over 25 mm diameter. Clay lumps. Weeds and tree roots Sticks and rubbish Material toxic to plants Material toxic to plants. Imported Topsoli: Medium: Sandy loam, fine sandy loam. Imported Topsoli mixture: Sandy topsoli 35-40%, recycled green waste 35-40%and ash 20%. Site Topsoli mixture: Three parts by volume of improved topsoil and one part of recycled greenwaste compost as specified in COMPOST AND FERTILISER, thoroughly mixed before placing. 2 QUALITY 2.1 INSPECTION Witness points Give sufficient notice so that inspection may be made at the following stages: Subgrades cultivated or prepared for placing topsoil. Grassing bed prepared before turfing, seeding, or temporary grassing. 75-100 litres trees available for inspection prior to planting 75-100 litre tree holes excavated, prepared for and planting Playground setout Completion of planting establishment work. 2.2 TESTS Soil Tests Sampling : As recommended in AS 4419 Appendix A 2.3 SAMPLES General General Submit representative samples of each material, packed to prevent contamination and labelled to indicate source and content. Samples schedule Quantity Imported topsoils/ mixes 5kg Compost types Mulch types 5kg 5kg 2.4 SUBMISSIONS 2.4 SUBMISSIONS Materials Compost: Submit a certificate of proof of compost pH value. Site Topsoil: Submit soil test results Execution: Submit a programme of work in the form of a bar chart for the landscape works. Maintenance programme: Submit a proposed planting maintenance program. Certifications: Submit playground equipment and softfall certifications. 3 SITE MANAGEMENT 3.1 WORK NEAR TREES Work under trees Tree Protection Zone is a radius of 12 x trunk diameter at 1.4m above ground, as defined in AS 4970-2009. TPZ also applies to canopy. Protect all existing trees from damage by the works within the TPZ, unless otherwise noted on Protect all existing trees from damage by the works within the 1PZ, unless otherwise noted on the drawing. Take the necessary precautions including the following : Protective Fence: Protect existing trees outside the riparian zone with a protective fence. Protective fence shall be a star picket and wire fence (pickets max 2400 centres with 3 strands fencing wire; 900 high) instaled minimum 3m from trunk in any direction. General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from, or add topsoil to, the area within the Tree Protection Zone General: Do not remove topsoil from the top of top of top of the top of top o fencing wire, 900 hig General: Do not remo (TPZ) of the trees. Excavation: If excavation is required within 3m of trees to be retained, give notice and obtain instructions. Where it is necessary to excavate within the TPZ, use hand methods such that the root systems are preserved intact and undamaged. Open up excavations under tree canopies for as short a systems are preserved intact and undamaged. Open up excavations under tree canopies for as short a time as possible. Hand methods: Use hand methods to locate, expose and cleanly remove the roots on the line of excavation. If it is necessary to excavate within the TPZ, use hand methods such that root systems are preserved intact and undamaged. Harmful materials: Do not store, stockpile, dump or otherwise place within the TPZ of retained trees, bulk materials and harmful materials including oil, paint, waste concrete, clearings, boulders and the like. No concrete wash shall enter the tree protection zone. No site sheds or amenities are to be placed in the TPZ. Do not place spoil from excavations against tree trunks, even for short periods. Prevent wind blown materials such as cement fron harming trees and plants. naming trees and plants. Damage: Prevent damage to tree bark and canopy. Do not attach stays, guys and the like to trees. Damage shall be treated by a qualified arborist as soon as possible after damage occurs. Roots: Where it is necessary to cut tree roots use a chain saw or similar means such that the cutting does not

unduly disturb or rock the remaining root system. Any major structural roots shall be pruned by a qualified arborist. Maintain Trees:

Regualry water and maintain all disturbed areas within the TPZ.

3.2 EXISTING SERVICES

Marking Before commencing earthworks, locate and mark existing underground services in the areas which will be affected by the works including clearing, excavating and trenching.

Do not excavate by machine within 1 m of existing underground services

3.3 SEDIMENT AND EROSION CONTROL Comply with and install sediment and erosion control measures prior to or in conjunction with a **il** sections of earthworks. Refer to Civil Engineers drawings for Sediment and Erosion Control measures.

4 SITE AND SOIL

4.1 PREPARATION

4.1 PREPARATION Weed eradication Herbicide: Eradicate weeds using environmentally acceptable methods, such as a non-residual glyphosate herbicide in any of its registered formulae, at the recommended maximum rate. Manual: Regularly remove, by hand, rubbish and weed growth throughout grassed, planted and mulched areas. Remove weed growth from an area 750 mm diameter around the base of the trees in grassed areas. Continue eradication throughout the course of the works and during the planting establishment period.

Vegetative spoil Remove vegetative spoil from site. Do not burn.

4.2 SUBSOIL

Cultivation Minimum depth: 100 mm.

Cultivation depths (mm) Grassed areas: as shown on the drawings. Planting areas: as shown on the drawings fices and roots: Do not disturb services or tree roots; if necessary cultivate these areas by Turfing schedule Cultivate Mand. Cultivation: Thoroughly mix in materials required to be incorporated into the subsoil. Cultivate manually within 100 mm of paths or structures. Remove stones concrete and bricks exceeding 25 mm, clods of earth exceeding 50 mm, and weeds, rubbish or other deleterious material material and the subscription of t General: Maintain turfed areas until the attainment of a dense continuous sward of healthy grass over the whole brought to the surface during cultivation. Trim the surface to design levels after cultivation. Deep ripping Notify Superintendent where soil is compacted and needs ripping. Map any additional areas to be ripped within riparian zone and seek permission from should have regard to Aboriginal relics. sion from Blacktown City Council. Any insitu soil areas proposed to be ripped Additives General: Apply additives as recommended from the soil test results after ripping, and incorporate into the upper 100 mm layer of the subsoil. Subsoil: Where imported topsoil is to be installed, rip subsoil and incorporate additives into the top 100mm layer 6 PLANTS AND PLANTING Topsoil: Where topsoil is insitu or to be installed, apply additives to the topsoil and cultivate in. 6 1 PLANT 4.3 TOPSON Source General: No contaminated site soil is to be used within the site. Topsoil is insitu, or to be stockpiled site topsoil spread to disturbed areas. Refer to Civil Engineers Drawings. SOIL TYPES Soil Type A: Turf Areas Apply 300mm depth over treated sub grade. Then apply: 400 g/m2 of agricultural lime, 100 g/m2 of gypsum, 50 g/m2 of general purpose NPK fertiliser approx 10:4:8 NPK 30mm depth of green waste derived compost fines (30L/m2) Rotary how to 100mm to incorporate, then smooth the surface. Turf as specified. Soil Type E Mass Planting and Top Profile of Tree Pit. Ueliver plant material to the site on a day to day basis, and plant immediately after delive Upon delivery, adequately store and maintain trees prior to planting in designated areas. • Ensure sufficient watering is carried out at all times. • Trees are stored such that canopies are not restricted. • Temporary supports are to be provided where necessary. Superintendent may reject tree stock at any time if it is found to be damaged. Performance of the plant of the same base and size. Apply 300mm depth over treated sub grade Then apply: 400 g/m2 of agricultural lime 50 g/m2 of gypsum 50 g/m2 of general purpose NPK fertiliiser approx 10:4:8 NPK 50mm depth of green waste derived compost fines (15L/m2) Rotary how to 100mm to incorporate, then plant and mulch as specified. 6.2 PLANT INSPECTIONS Soil Type B - Advanced tree and yault backfill/subsoils As this is to be an imported mix, a full specification (rather than specifications for amelioration) is provided. 6.3 PLANTING GENERAL 'Fit-for-purpose' performance description A sandy, well drained medium with low organic matter for backfilling below 300mm from the surface in larger Canady, were drained information from organic matter for conclusing backer sound into it are samallow in adjer potted specification may use a small proportion of site won topsoil or subsoil, provided the organic matter upper limit is not exceeded. Above 300mm, use Soil type E. Planting conditions Topsoil Testing Site topsol for use in grassing and cultivated planting beds is to be tested by an approved NATA registered testing Authority. Site topsol must be raised to an acceptable standard for the relevant uses as recommended by the soil test results. Geotechnical investigation shall be carried out by the Contractor of stockpiled site soil to determine contaminants, nutrient levels, organic matter content and dispersion in accordance with AS 1280. Do not proceed with works that impact upon the site soils unless tests are satisfactorily completed and approval of the Superintendent has been given. Should site top soils be found to contain contaminants, have an unbalanced nutrient ratio or to be dispersive, notify the Superintendent and await instruction of site topsoil additive and/or removal works. Topsoil Testin Fertilisina Placing topsoil General: Spread the topsoil on the prepared subsoil and grade evenly, making the necessary 6.4 CULTIVATED PLANTING BED allowances to permit the following: Required finished levels and contours may be achieved after light compaction. Grassed areas shall be finished flush with adjacent hard surfaces such as kerbs, paths and Contamination: Where diesel oil, cement or other phytotoxic material has been split on the subsoil or topsoil, excavate the contaminated soil, dispose of it off the site, and replace it with site soil or imported topsoil to restore design levels. 6.5 STREET TREE PLANTING Spreading: On steep batters, if using a chain drag, ensure there is no danger of batter Finishing: Feather edges into adjoining undisturbed ground. Consolidation Compact lightly and uniformly in 150 mm layers. Avoid differential subsidence and excess 6.6 INDIVIDUAL TREES IN GRASS Compacting and uniformity in 100 mm agers. Avoid uniformial subsidence and compaction and produce a finished topsoil surface which has the following charact Smooth and free from stones or lumps of soil. Graded to drain freely, without ponding, to catchment points. Graded evenly into adjoining ground surfaces. Ready for planting. Watering basins for trees in grass Topsoil types and depths Spread topsoil types to the following typical depths: 4.4 COMPOST AND FERTILISER 6.9 MULCHING Compost General: Provide well rotted vegetative material or animal manure, free from harmful chemicals grass and weed growth. Standard: To AS 4454. stones and sticks. Standard: To AS 4454 Fertiliser Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, record Fertiliser schedule ended uses and application r Mulch Schedule

Location All exotic trees and shrubs	N:P:K Ratio 10.5:3.5:3.5	Application Rate 30/40 gm/m2	Proprietary Item Patons No. 20	
Location All turf areas	N:P:K Ratio 9.1:40:17.8	Application Rate 50gm/m2	Proprietary Item No.17 Lawn Foo	
Native trees and shrubs 5 GRASS	17.9:0.8:7.3	Osmocote Native Co	ontrolled Release	

5.1 TURFING

Obtain turf from a specialist grower of cultivated turf. Provide turf of even thickness, free from weeds and other foreign matter. Provide Common Couch to open space areas between roads and creek. Provide Common Couch Grass for street verges.

Deliver the turf within 24 hours of cutting, and lay it within 36 hours of cutting. Prevent it from drying out between cutting and laying.

Mix the fertiliser thoroughly into the topsoil before placing the turf. Apply lawn fertiliser at the completion of the first and last mowings, and at other times as required to maintain healthy grass cover.

Laying General: Lay the turf in the following manner:

rat. Lay use curi in the longwing mainter. in a stretcher pattern with the joints staggered and close butted. parallel with the long sides of a level area and with the contours on slopes. To finish flush, after rolling, with adjacent finished surfaces of ground, paving or edging.

Lightly roll to an even surface immediately after laving.

Pegging On steep slopes peg the turf to prevent down slope movement. Remove the pegs when the turf

s established

Watering Water immediately after laying until the topsoil is moistened to its full depth. Continue wate to maintain moisture to this depth. Keep the grass in a healthy condition.

Mow to maintain the grass height within the required range. Do not remove more than one third of the grass height at any one time. Carry out the last mowing within 7 days before the end of the planting establishment period. Remove grass dippings from the site after each mowing. Minimum thickness (mm) Mowing height (mm

turfed area, evenly green and of a consistent height. Failed turf: Lift failed turf and relay with new turf. Consort and the large during the wind the wi

Top dressing When the turf is established mow, remove cuttings and lightly top dress to a depth of 10 mm with 80%:20% sandy loam. Rub the dressing well into the joints and correct any unevenness in the turf surface.

Plants
General: Provide plants with the following characteristics:
Large healthy root systems, with no evidence of root curl, restriction or damage.
Vigorous, well established, free from disease and pests, of good form, consistent with the species or

Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions of the site.

- Hardened out, not son or horcea, and suitable for planting in the natural cumatic condutions of the site. Tubes and Cells: To be vigorous, disease and weed free, showing emergence of root laterals at edges, in a free draining potting medium. Tubes to be "forestry" / " hiko"tube 50x120mm, cells (bio-basin plants) to be ,super-cells sized 50mm x 70mm. Trees: For the purpose of this specification, trees are advanced plants in containers greater than 45 litres. Provide trees which, unless required to be multi-stemmed, have a single leading shoot and a balanced crow to be more than the specification.

Label at least one plant of each species or variety in a batch with a durable, readable tag.

Deliver plant material to the site on a day to day basis, and plant immediately after delivery.

Replacement: Replace damaged or failed plants with plants of the same type and size.

Give sufficient notice so that the trees may be inspected by the Superintendent before delivery to site.

All vegetation clearing, planting and rehabilitation tasks within the riparian zone are to be carried out by a suitably qualified horticulturalist or a bush regenerator/contractor.

Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods

Watering Thoroughly water the plants before planting, immediately after planting, and as required to maintain growth rates free of stress. Placing Remove the plant from the container with minimum disturbance to the root bal, ensure that the root bal is moist and place it in its final position, in the centre of the hole and plumb, and with the top soil level of the plant root ball level with the finished surface of the surrounding soil.

Pellets: In planting beds and individual plantings, place fertiliser pellets around the plants at the time of planting.

Backfill with topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that topsoil is not placed over the top of the root ball, so that the plant stem remains the same height above ground as it was in the

Spread a 50mm layer of organic compost over topsoil (insitu or respread,) and thoroughly cultivate into the top 150mm of the topsoil. Plant as for PLANTING GENERALLY.

b.3 STREET INCE TRANING Excavate a hole to twice the diameter of the root ball and to the depth of the root ball. Break up the base of the hole to a further depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth, Install root barrier against the back of street kerbs to a depth of 600mm and to a 6m length, 3m either side of tree. Plant as specified in PLANTING

GENERALLY. Add fertiliser and backfill with imported topsoil:compost mix. Mulch. Install tree guard where

Excavate a hole to twice the diameter of the root ball and at least 100 mm deeper than the root ball. Break up the hole to a further depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth.

Except in normally moist areas, construct a watering basin around the base of each individual plant, consisting of a raised ring of soil capable of holding at least 10 L.

Mulch General: Provide mulch which is free of deleterious and extraneous matter such as soil, weeds,

Mulch material: Material not permitted: Leaf litter and tree loppings from privet, camphor laurel, coral tree, poplar, willow, wild plives and poxious weed a rule; popular, window, wild drives and noxious weeks. a mulch: Mulch to contain no more than 5% fines by volume, with no bark. The average size voodchip to be 30mmx 20mm x 5mm and the maximum length to be not exceed 50mm.

Location	Туре	Description
Street tree Surrounds	ANL Eucy Mulch	15mm fine graded bark
Trees in Grass	ANL Leaf Litter	20-40mm chipped tree loppings
Cultivated beds	ANL Leaf Litter	20-40mm chipped tree loppings
Riparian Zone Rehabilitation Area	Site won mulch or locally source As riparian	ed ANL Leaf Litter equivalent

Placing mulc

General: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. In broad scale areas: Place after the preparation of the planting bed but before planting and

In smaller areas : Place after the preparation of the planting bed, planting and other work.

In smaller areas : Place after the preparation of the planting bed, planting and other work Application: Place mulch dear of plant stems, and rake to an even surface flush with the surrounding finished levels. Extent: To surrounds of plants in grass areas, provide mulch watering basin to min 1m diameter, or as detailed. Depths: Spread mulch to a depth of 75 -100mm.

6.10 STAKES AND TIES

As per detail 1/LA-09

6 12 POOT BARRIER

6.12 KNOT BARKIER Install a root barrier against back of kerb to all street trees where tree is planted within 2m of kerb, Root barrier to be equivalent to be a minimum 1mm thick flexible high density polythene membrane, as available from All Stake Supply, Riverstone, Overlap and join with butyl tape where necessary. Depth to be min 500mm from top of kerb. 6.13 WATERING

Water all plant material within 24 hours of planting then once daily for 1 week, followed by once value an plant material within 24 hours or planting their folice day for 1 week, followed by on daily every 2 days for 3 weeks. If planting occurs during extreme temperatures, the watering regime should be adjusted as required to accommodate the water requirements of plant life. Continue watering to maintain healthy growth throughout maintenance period.

7 REHABILITATION AREA

7.2 STAGING

Stage 3 - Mulching

Stage 5 - Maintenance

9 COMPLETION

Check Visits

og Book

9 1 PLANTING ESTABLISHMENT

times of attendance or problems noted

instructions received

the response to actions

during the establishment period. Maintenance Program

any other matters of importance

actions taken

materials used

The contractor shall keep a log book to record:

Spread mulch over areas of no natural resilience

top dressing, and keeping the site neat and tidy.

uring is mowing season. At the same time as mowing, trim lawn edges. Remove dippings from site. Topdressing: After initial topdressing as specified in GRASS, topdress the lawn only here directed to smooth out irregularities or depressions in the lawn. Mulching : maintain mulch in a clean, tidy and weed free state; remulch as necessary during the establishment period to maintain the specified 75mm depths.

Removal of Rubbish: regularly remove rubbish, debris, litter, etc, irrespective of how, when, or by whom it may have been brought to the site. Leaf Litter: Leaf litter shall be removed from all path and lawn areas and spread evenly over the mulched

areas, composted on site, or removed from site. Remove leaf litter at least bi-drop period.

one (1) week Fertilising: Fertilise all turf and planting areas with at least one application prior to completion of

establishment period using a slow release fertiliser For plants use equivalent to Nutricote (for plants) at establishment period using a slow release tertiliser For plants use equivalent to Nutricote (for pla manufacturers recommended rates, and according to seasonal growth requirements. Pruning: remove dead, broken, damaged or diseased parts as they appear, shrubs shall be allowed to grow to a natural form; any plant that restricts access along a designated path shall be trimmed back by the removal of whole branches and shall not be hedged; all prunings shall be chilled and mulched for use on site, or collected and removed.

Disease and pest control: The Contractor shall be responsible for the control of any pest or disease in plants or turf. Record any evidence of insect attack or disease immediately it appears on plant material; spray or dust strictly in accordance with the manufacturers recommendations and to comply with statutory

equirements until the problem has been eliminated. Proper care should be taken to protect the user and requirements until the problem has been eliminated. Proper care should be taken to protect the user and persons who may come in contact with the spray. Spray outside normal working hours if necessary. Plastic sleeve tree guards: Remove after 12 months. Riparian and Rehabilitation Zone: All continuing weed removal, revegetation and maintenance as specified in Vegetation Management Plan. Plant material failing throughout the 5 year period is to be replaced with same species and size, or larger. Where tree species fail, the

pot size minimum requirement will be increased to match growth size of remaining tree species

9.2 DEFECTS LIABILITY PERIOD

The Contractor shall be liable for defects for all works undertaken during this contract for a period of 3 years, to run after the date of Practical Completion and concurrent with the Plant Establishment Period.

9.3 COMPLETION

Product warranty Submit the supplier's written statement certifying that plants are true to the required species and type, and are free from diseases, pests and wee Cleaning Cleaning Stakes and ties: Remove those no longer required at the end of the planting establishment ball.

End specification

bod

ne following stages	ne	following	stages
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7.2 STAGING Complete the rehabilitation and regeneration process in the following stages: Stage 1 – Primary weeding Initial weed dearance, thorough hand weeding and the use of herbicides for woody vines woody weeds and annual weeds. Stage 2 – Secondary and Follow up weeding

Reworking of sites which have already received primary weeding, control of weed grasses, control herbaceous weeds and start regeneration of areas of natural resilience.

Spread influction over areas of in of nutural resultances Stage 4 – Maintenance weeding and Revegetation Monitoring and removal of weed re-growth and care of native plant seedlings (naturally occurring and planted), and revegetation –use of locally indigenous species to restore an area via tube-stock planting, direct seeding, transplanting and/or bush matting.

nance, monitoring, removal of weed re-growth and care of native plant seedlings (both naturally occurring and planted). Maintain plantings by watering

In areas where degradation has been serious enough to severely deplete or extinguish native regenerativ capacity, it may be necessary to reconstruct a plant community. This will involve weeding, soil remediatio planting and on-going site maintenance as specified for Planting works in the Riparian Zone. Small scale earthworks, soil stabilisation and remedial drainage works may be required.

renoa Commencement: The planting establishment period commences at the date of Completion. Required period: 104 weeks for Stage One, 260 weeks (5 years) for Creek and Riparian Zone Existing planting and grass Where existing grass or planting is within the landscape contract area, maintain it as for the corresponding dassifications of new grass or planting.

Regardless of the weather the Contractor shall make a visit at least once every two weeks to check on any works needed and shall perform such works within forty eight (48) hours of checking

The log book is to be left on site with recommendations for work to be carried out after completion

Mowing Plan Submit a mowing plan to the Superintendent, showing the areas and cutting frequency of grass to be adopted

Within 21 days from the date of Completion, submit a program schedule of works for the planting establishment period. Specify the frequency and timing for all tasks described as part of the establishment requirements. Recurrent works Throughout the planting establishment period, carry out maintenance and establishment work. Establishment work shall include the items listed and any additional items deemed necessary to maintain the areas in good order.

Generally watering, mowing, weeding, rubbish removal, fertilising, pest and disease control, returfing, staking and tying, replanting, cultivating, pruning, hedge clipping, aerating, reinstatement of mulch, renovating,

Plant replacement: Continue to replace failed, damaged or stolen plants as specified; substitutions shall only be made with the approval of the Superintendent where a species is considered to be responding poorly to

Stake adjustment ; adjust as necessary to avoid damage to plant stems; replace if damaged; remove al

Stake adjustment; adjust as necessary to avoid damage to plant stems; replace in deminaged, remove at
the end of the contract if so directed.
 Grass: Commence grass maintenance works at the completion of turfing. Maintain healthy weed-free
growth. Mow at a height consistent with the growth habit of the grass. Generally (except during under wet
conditions) mowing is to be carried out on a weekly basis during the mowing seaso (November to March) and
bi-weekly during April to October. Rake the lawn with a flexible rake before mowing at least once a month

Watering: water as required to maintain the best possible conditions for the health and growth of plants and turf; the minimum acceptable watering requirement shall equal 20mm natural rainfall during any period of



Paterson Design Studio PTV. LTD T +61 2 9452 4911 16a/1-15 Tramore Place admin@pdsdesign.com. Killarney Heights, NSW 2087. www.pdsdesign.com.au

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dimensions only. All dimensions to be verified on site before commencing work. All dim otherwise stated. The drawings are to be read in conjunction with the specification and r tions issued. ncies shall be referred to the Su

ENGINEER



LEGEND





RIVERLANDS FORSHORE WALK, MILPERRA

I ANDSCAPE SPECIFICATION

DESIGNED:	DRAWN:	ET	CHECK:	GP
APPROVAL:	Garth Paterson		(CANB) MLAUD (HARV) A - Registered Landscap	
SIGNED:	n Japan.		DATE: 13.11.23	
ISSUE			PROJECT NO.	
DA ISSUE			-	
SCALE				
NOT TO	SCALE			
DRAWING NO.)		REVISION	B