

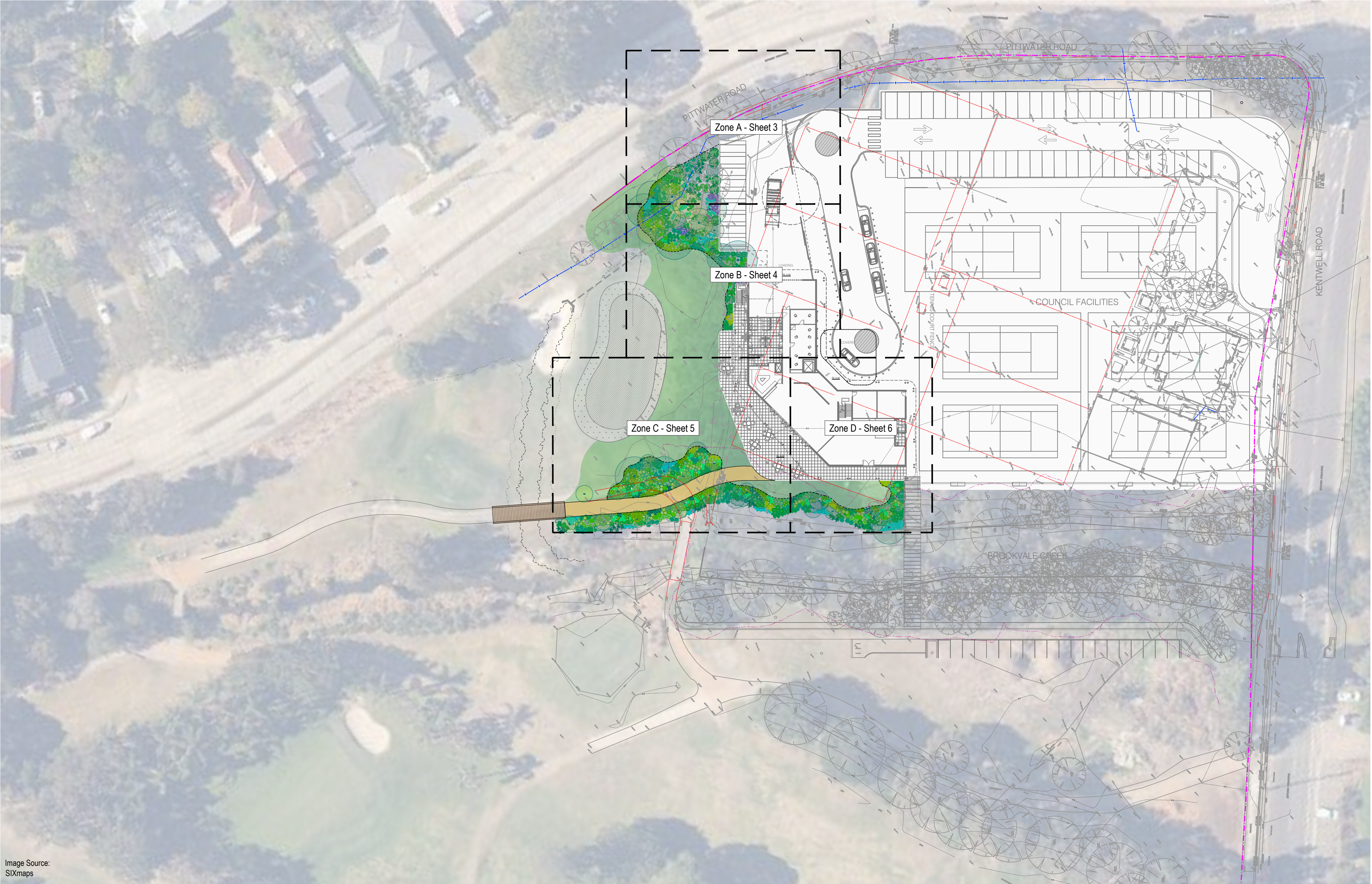


Image Source:
SIXmaps

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Serenescapes Landscape Designs
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Client:
Warringah Golf Club Ltd.
ABN:15 000 085 601

Project:
New Warringah Golf &
Community Club Clubhouse
Site Address:
433 Pittwater Road
North Manly NSW 2100

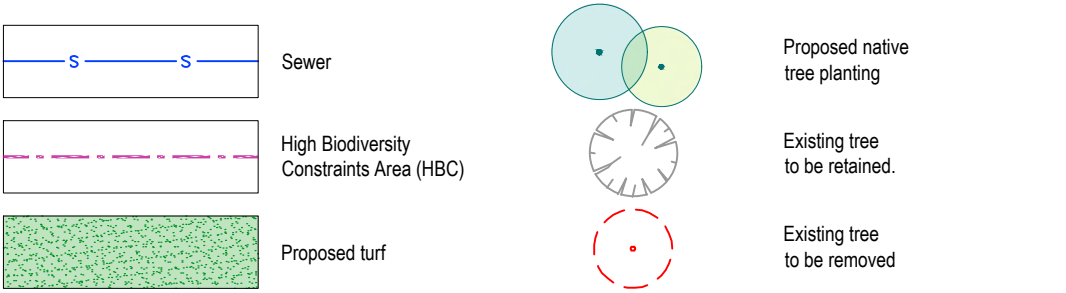
Drawing Title:
Landscape Design
Location Plan
Project Number:
21956
Scale:
1:500 @ A2
Sheet Number:
L-01 of 7

Rev:	Date:	Issue:	Checked:
A	13/09/2022	Preliminary Issue	BF
B	18/10/2022	Preliminary Issue	BF
C	16/11/2022	Preliminary Issue	BF
D	18/11/2022	DA Issue	BF





LEGEND



KEY

- A. Native tree planting to replace those removed for construction. To be planted in small groups to provide amenity to the lawn area and to frame views from the clubhouse into the course.
 - B. Mixed native planting of low shrubs, grasses and groundcovers.
 - C. Riparian planting using EEC species noted in the Flora and Fauna Constraints Assessment Report prepared by Narla Environmental to blend with future creek planting by Council.
 - D. Open lawn areas to provide open vistas to golf course and areas for children to play.
 - E. Access path to first tee and practice green. Avenue planting of small trees to create a sense of arrival / departure from the clubhouse.
 - F. Proposed bridge (Future works by Council).
 - G. New pipe with junction pit to convey flows to swale (Future works by Council).
 - H. Swale inlet (Future works by Council).
 - I. Relocated drainage swale (Future works by Council).
 - J. Creek rejuvenation and riparian planting (Future works by Council).
 - K. Existing foot bridge / stormwater headwall / bridge abutments to be removed and returned to natural state (Future works by Council).
 - L. High Biodiversity Constraints Area (HBC) - Remove weed and exempt vegetation species throughout HBC area as noted in Figure 5. Biodiversity development constraints mapped within the Subject Site from the Flora and Fauna Constraints Assessment Report prepared by Narla Environmental in-line with findings in the Arboricultural Construction Impact Statement prepared by Aura Tree Services.
- A reduced area of lawn and a planting buffer between the club terrace and the creek is shown to maintain a sense of continuity in the vicinity of the clubhouse. A mix of endemic riparian species will be planted beyond with the intent to create a seamless interface to the future Creek / riparian works by Council and an area high in ecological and habitat value.
- M. Maintain and supplement existing habitat planting adjacent Pittwater Road and through the golf course (Future works by Council).

Note regarding replacement trees.

In total 41 trees will be removed from the subject site to make way for the proposed works or because they are dead, exempt or weed species.

In total, 3 exempt trees and 1 dead tree will be removed from within the HBC area. Refer to the Arboricultural Construction Impact Statement prepared by Aura Tree Services.

Native species: 33

Exempt species: 7

Dead tree: 1

40 native and endemic tree species are proposed to replace those removed for construction within the vicinity of the clubhouse.

Image Source:
SIXmaps

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Client:
Warrigah Golf Club Ltd.
ABN:15 000 085 601

Project:
New Warrigah Golf & Community Club Clubhouse
Site Address:
433 Pittwater Road
North Manly NSW 2100

Drawing Title:
Landscape Design
Site Plan / Scope of Works
Project Number:
21956
Scale:
1:250 @ A2
Sheet Number:
L-02 of 7

Rev:	Date:	Issue:	Checked:
A	13/09/2022	Preliminary Issue	BF
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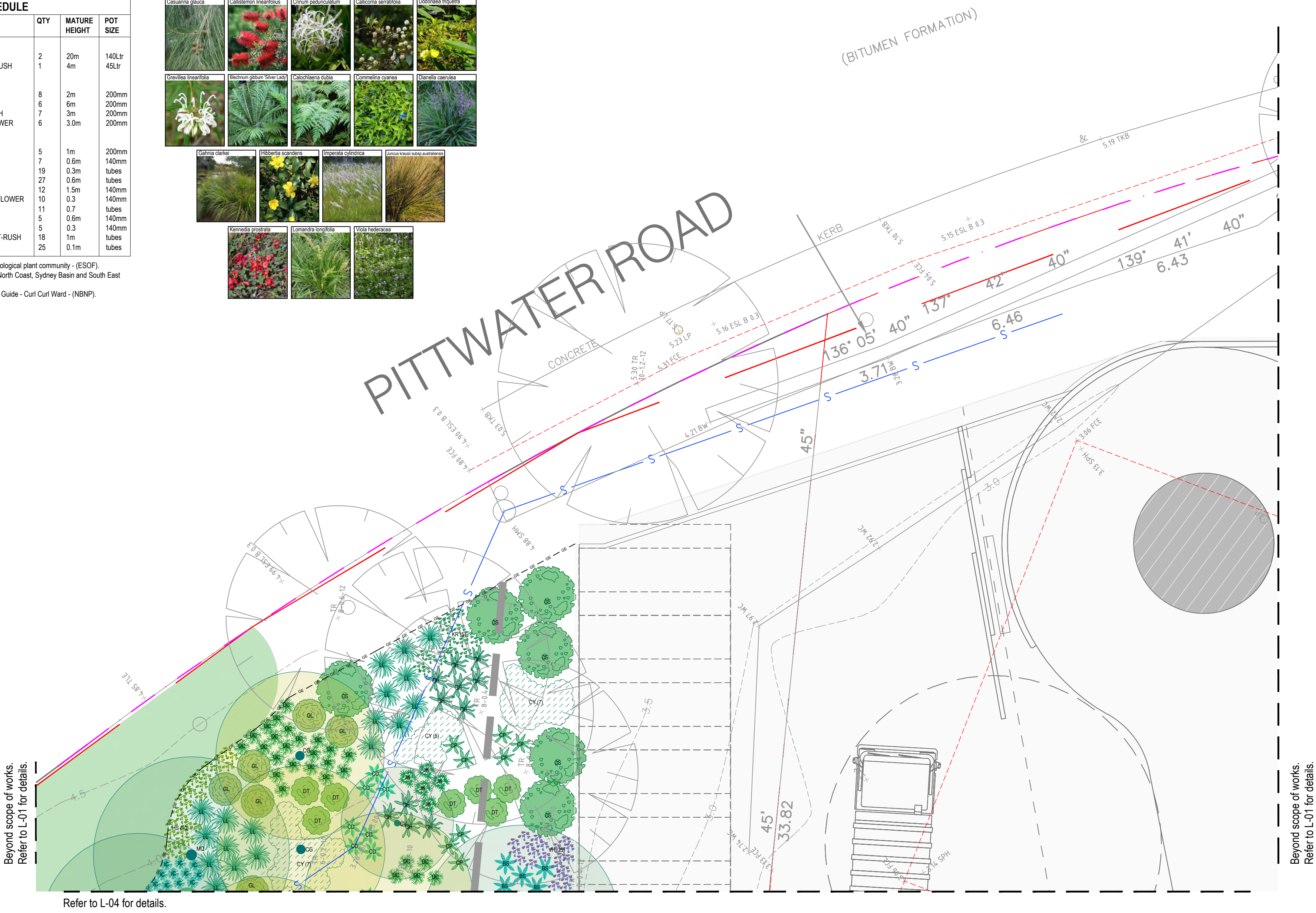
ZONE A PROPOSED PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	QTY	MATURE HEIGHT	POT SIZE
CG ^{AS} CV [*]	TREES				
	CASUARINA GLAUCA	SWAMP OAK	2	20m	140Ltr
	CALLISTEMON LINEARIFOLIUS	NETTED BOTTLEBRUSH	1	4m	45Ltr
CP ^D CS ^{AS} DT [#] GL [#]	SHRUBS				
	CRINUM PEDUNCULATUM	RIVER LILY	8	2m	200mm
	CALICOMA SERRATIFOLIA	BLACK WATTLE	6	6m	200mm
	DODONAEA TRIQUETRA	COMMON HOP-BUSH	7	3m	200mm
BS [*] CD ^{AS} CY ^D OC ^{AS} GH [#] HS [#] IC ^D JK ^D KR [#] LL ^{AS} VH ^{AS}	GRASSES / GROUND COVERS				
	BLECHNUM GIBBUM 'SILVER LADY'	SILVER LADY FERN	5	1m	200mm
	CALOCHLAENA DUBIA	SOFT BRACKEN	7	0.6m	140mm
	COMMELINA CYANEA	SCURVY WEED	19	0.3m	tubes
	DIANELLA CAERULEA	BLUE FLAX LILY	27	0.6m	tubes
	GAHNIA CLARKEI	SAW SEDGE	12	1.5m	140mm
	HIBBERTIA SCANDENS	CLIMBING GUINEA FLOWER	10	0.3	140mm
	IMPERATA CYLINDRICA	BLADY GRASS	11	0.7	tubes
	JUNCUS KRAUSII subsp. AUSTRALIENSIS	SEA RUSH	5	0.6m	140mm
	KENNEDIA RUBICUNDA	DUSKY CORAL PEA	5	0.3	140mm
	LOMANDRA LONGIFOLIA	SPINY-HEADED MAT-RUSH	18	1m	tubes
	VIOLA HEDERACEA	NATIVE VIOLET	25	0.1m	tubes

^A Denotes species selected from the Estuarine Swamp Oak Forest threatened ecological plant community - (ESOF).
^D Denotes species selected from the Swamp Oak Floodplain Forest in the NSW North Coast, Sydney Basin and South East Corner Bioregions Threatened plant community - (SOFF).
[#] Denotes species selected from Northern Beaches Council Native Plant Species Guide - Curl Curl Ward - (NBNP).
^{*} Denotes native plant or cultivar.

Total plants: 174 (100%)

Native plants - ESOF: 58 (33.33%)
Native plants - SOFF: 82 (47.13%)
Native plants - NBNP: 28 (16.90%)
Other native plant/cultivar: 6 (3.45%)

Total locally native plants: 168 (96.55%)
Total other native plants: 174 (100%)



Beyond scope of works.
Refer to L-01 for details.

Refer to L-04 for details.

Beyond scope of works.
Refer to L-01 for details.

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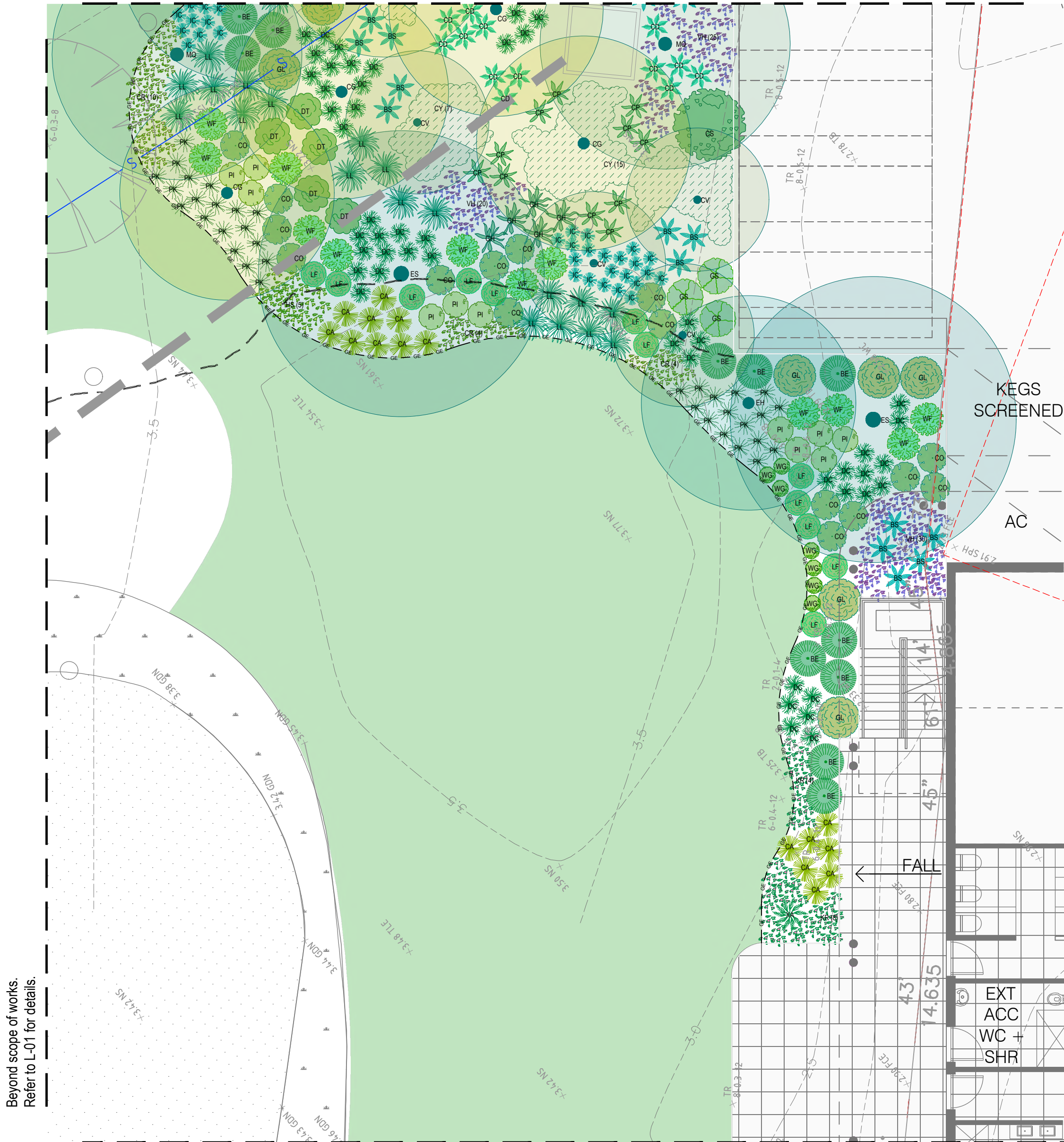


Client:
Warringah Golf Club Ltd.
ABN:15 000 085 601

Project:	New Warrigah Golf & Community Club Clubhouse	Drawing Title:	Landscape Design Zone A - Planting Plan			Rev:	Date:	Issue:	Checked:
						A	13/09/2022	Preliminary Issue	BF
Site Address:	433 Pittwater Road North Manly NSW 2100	Drawn by: Ben Danks TLA Member	Project Number: 21956	Scale: 1:100 @ A2	Sheet Number: L-03 of 7	B	18/10/2022	Preliminary Issue	BF
						C	16/11/2022	Preliminary Issue	BF
						D	18/11/2022	DA Issue	BF



Refer to L-03 for details.



Refer to L-05 for details.

ZONE B PROPOSED PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	QTY	MATURE HEIGHT	POT SIZE
TREES					
CG ^{AE}	CASUARINA GLAUCA	SWAMP OAK	4	20m	140Ltr
CV ^{AE}	CALLISTEMON LINEARIFOLIUS	NETTED BOTTLEBRUSH	4	4m	140Ltr
EH ^{AE}	EUCALYPTUS HAEMASTOMA	SCRIBBLY GUM	1	15m	140Ltr
ES ^{AE}	EUCALYPTUS ROBUSTA	SWAMP MAHOGANY	2	20+m	140Ltr
MO ^{AE}	MELALEUCA QUINQUERVIA	PAPERBARK	2	15m	140Ltr
SHRUBS					
BE ^{AE}	BANKSIA ERICIFOLIA	HEATH BANKSIA	11	5m	200mm
CO ^{AE}	CORREA ALBA	WHITE CORREA	16	1.5m	200mm
CP ^{AE}	CRINUM PEDUNCULATUM	RIVER LILY	11	2m	200mm
CS ^{AE}	CALLICOMA SERRATIFOLIA	BLACK WATTLE	1	6m	140mm
DT ^{AE}	DODONAEA TRIQUETRA	COMMON HOP-BUSH	5	3m	200mm
GL ^{AE}	GREVILLEA LINEARIFOLIA	WHITE SPIDER FLOWER	6	3.0m	200mm
GS ^{AE}	GREVILLEA SERICEA	PINK SPIDER FLOWER	3	2m	200mm
LF ^{AE}	LEPTOSPERMUM LAEVIATUM 'FORESHORE'	DWARF COASTAL TEA-TREE	12	0.5m	200mm
PI ^{AE}	PIMELIA LINIFOLIA	RICE FLOWER	11	1.5m	200mm
WF ^{AE}	WESTRINGIA FRUTICOSA	COASTAL ROSEMARY	12	1.5m	200mm
WG ^{AE}	WESTRINGIA 'GREY BOX'	GREY BOX	7	0.5m	200mm
XA ^{AE}	XANTHORRHOEA AUSTRALIS	GRASS TREE	1	3m	45Ltr
GRASSES / GROUND COVERS					
BS ^{AE}	BLECHNUM GIBBUM 'SILVER LADY'	SILVER LADY FERN	14	1m	200mm
CA ^{AE}	CAREX APPRESSA	CAREX	16	1m	140mm
CD ^{AE}	CALOCHLAENA DUBIA	SOFT BRACKEN	13	0.6m	140mm
CR ^{AE}	CARPOBROTUS GLAUDESCENS	PIG FACE	18	0.2m	tubes
CY ^{AE}	COMMELINA CYANEA	SCURVY WEED	22	0.3m	tubes
DC ^{AE}	DIANELLA CAERULEA	BLUE FLAX LILY	49	0.6m	tubes
GH ^{AE}	GAHNIA CLARKEI	SAW SEDGE	5	1.5m	tubes
HS ^{AE}	HIBBERTIA SCANDENS	CLIMBING GUINEA FLOWER	5	0.3	140mm
IC ^{AE}	IMPERATA CYLINDRICA	BLADY GRASS	31	0.7	tubes
KR ^{AE}	KENNEDIA RUBICUNDA	DUSKY CORAL PEA	12	0.3	140mm
LL ^{AE}	LOMANDRA LONGIFOLIA	SPINY-HEADED MAT-RUSH	20	1m	tubes
VH ^{AE}	VIOLA HEDERACEA	NATIVE VIOLET	75	0.1m	tubes

^A Denotes species selected from the Estuarine Swamp Oak Forest threatened ecological plant community - (ESOF).
^D Denotes species selected from the Swamp Oak Floodplain Forest in the NSW North Coast, Sydney Basin and South East Corner Bioregions Threatened plant community - (SOFF).
^F Denotes species selected from Northern Beaches Council Native Plant Species Guide - Curl Curl Ward - (NBNP).
^{*} Denotes native plant or cultivar.

Total plants:	389	(100%)
Native plants - ESOF:	128	(32.90%)
Native plants - SOFF:	134	(34.45%)
Native plants - NBNP:	74	(19.02%)
Other native plant/cultivar:	53	(13.62%)
Total locally native plants:	336	(86.36%)
Total other native plants:	389	(100%)



Beyond scope of works.
Refer to L-01 for details.

Beyond scope of works.
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Client:
Warringah Golf Club Ltd.
ABN:15 000 085 601

Project:
New Warringah Golf &
Community Club Clubhouse
Site Address:
433 Pittwater Road
North Manly NSW 2100

Drawing Title:
Landscape Design
Zone B - Planting Plan
Project Number:
21956
Scale:
1:100 @ A2
Sheet Number:
L-04 of 7

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A	13/09/2022	Preliminary Issue	BF
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D	18/11/2022	DA Issue	BF



ZONE C PROPOSED PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	QTY	MATURE HEIGHT	POT SIZE
TREES					
AC ^A #	ANGOPHORA COSTATA	SMOOTH-BARKED APPLE	1	15m	140Ltr
BI [#]	BANKSIA INTEGRIFOLIA	COAST BANKSIA	10	5m	140Ltr
CV [#]	CALLISTEMON LINEARIFOLIUS	NETTED BOTTLEBRUSH	2	4m	140Ltr
EH [#]	EUCALYPTUS HAEMASTOMA	SCRIBBLY GUM	1	15m	140Ltr
TL [#]	TRISTANIOPSIS LAURINA	WATER GUM	3	8m	140Ltr
SHRUBS					
BE ^A #	BANKSIA ERICIFOLIA	HEATH BANKSIA	21	5m	200mm
CO [#]	CORREA ALBA	WHITE CORREA	36	1.5m	200mm
CP ^A	CRINUM PEDUNCULATUM	RIVER LILY	3	2m	200mm
GS [#]	GREVILLEA SERICEA	PINK SPIDER FLOWER	14	2m	200mm
LF [#]	LEPTOSPERMUM LAEVIGATUM 'FORESHORE'	DWARF COASTAL TEA-TREE	43	0.5m	200mm
PI [#]	PIMELIA LINIFOLIA	RICE FLOWER	32	1.5m	200mm
WF [#]	WESTRINGIA FRUTICOSA	COASTAL ROSEMARY	11	1.5m	200mm
WG [#]	WESTRINGIA 'GREY BOX'	GREY BOX	82	0.5m	200mm
XA [#]	XANTHORRHOEA AUSTRALIS	GRASS TREE	6	3m	45Ltr
GRASSES / GROUND COVERS					
CA ^A	CAREX APPRESSA	CAREX	14	1m	140mm
CI [#]	CASUARINA GLAUCA 'COUSIN IT'	COUSIN IT	19	0.5m	200mm
CR [#]	CARPOBROTUS GLAUCESCENS	PIG FACE	18	0.2m	tubes
CY ^A	COMMELINA CYANEA	SCURVY WEED	30	0.3m	tubes
DC ^A #	DIANELLA CAERULEA	BLUE FLAX LILY	40	0.6m	tubes
FN [#]	FICINIA NODOSA	KNOBBY CLUBRUSH	49	0.6m	tubes
GH ^A	GAHNIA CLARKEI	SAW SEDGE	18	1.5m	tubes
HS [#]	HIBBERTIA SCANDENS	CLIMBING GUINEA FLOWER	30	0.3	140mm
IC ^A	IMPERATA CYLINDRICA	BLADY GRASS	78	0.7	tubes
JK ^A	JUNCUS KRAUSII subsp. AUSTRALIENSIS	SEA RUSH	23	0.6m	tubes
KR [#]	KENNEDIA RUBICUNDA	DUSKY CORAL PEA	30	0.3	140mm
LL ^A #	LOMANDRA LONGIFOLIA	SPINY-HEADED MAT-RUSH	34	1m	tubes
PK [#]	POA LABILLARDIERI 'ESKDALE'	ESKDALE	162	0.7m	tubes
TA [#]	THEMEDA AUSTRALIS	KANGAROO GRASS	34	0.4m	tubes

^A Denotes species selected from the Estuarine Swamp Oak Forest threatened ecological plant community - (ESOF).
^A Denotes species selected from the Swamp Oak Floodplain Forest in the NSW North Coast, Sydney Basin and South East Corner Bioregions Threatened plant community - (SOFF).
[#] Denotes species selected from Northern Beaches Council Native Plant Species Guide - Curl Curl Ward - (NBNP).
^{*} Denotes native plant or cultivar.

Total plants: 843 (100%)

Native plants - ESOFF: 56 (6.64%)
Native plants - SOFF: 260 (24.44%)
Native plants - NBNP: 237 (28.11%)
Other native plant/cultivar: 344 (40.81%)

Total locally native plants: 499 (59.19%)
Total other native plants: 843 (100%)



Refer to L-04 for details.



Beyond scope of works.
Refer to L-01 for details.

Beyond scope of works.
Refer to L-01 for details.

Refer to L-06 for details.

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ABN:15 000 085 601

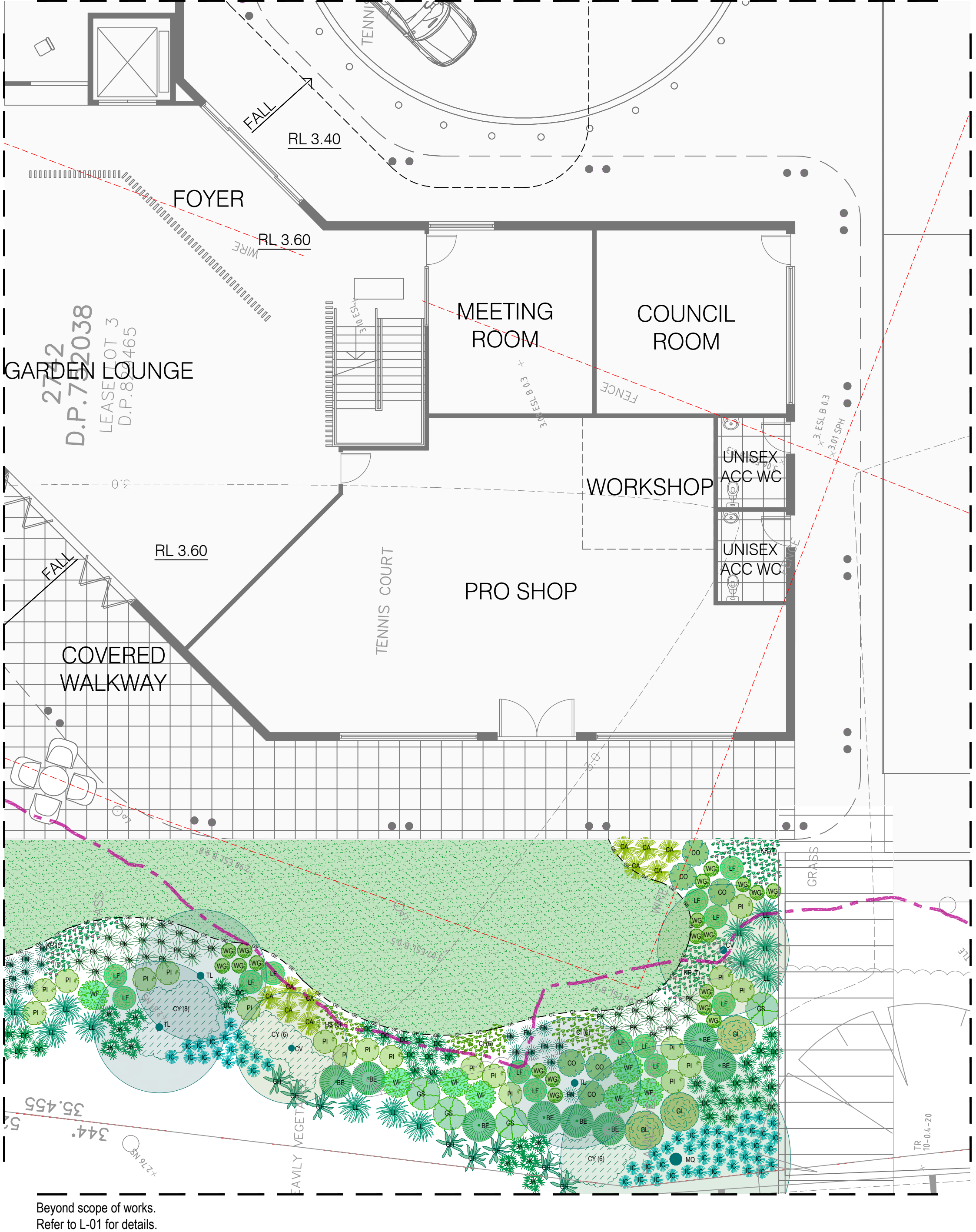
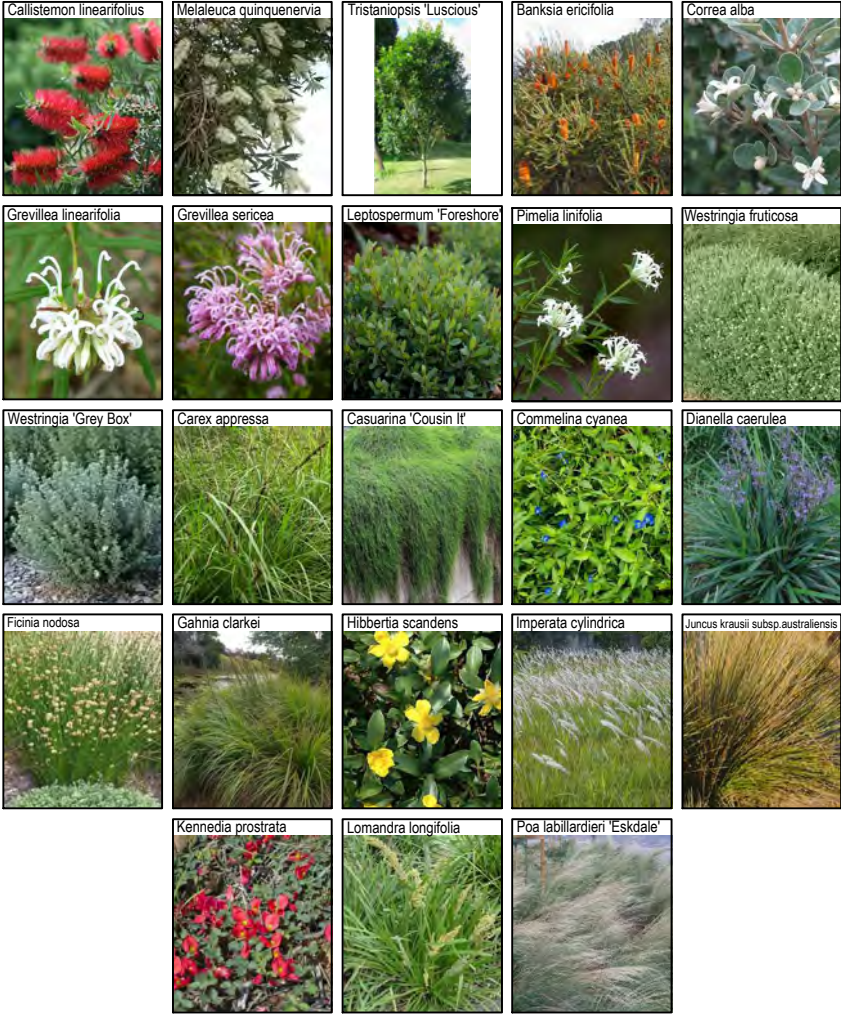
Project:
New Warringah Golf & Community Club Clubhouse
Site Address:
433 Pittwater Road
North Manly NSW 2100

Drawing Title:
Landscape Design
Zone C - Planting Plan
Project Number:
21956
Scale:
1:100 @ A2
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L-05 of 7

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ZONE D PROPOSED PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	QTY	MATURE HEIGHT	POT SIZE
TREES					
CV*	CALLISTEMON LINEARIFOLIUS	NETTED BOTTLEBRUSH	2	4m	140Ltr
MQ ^{1,2}	MELALEUCA QUINQUINERVA	PAPERBARK	1	15m	140Ltr
TL [#]	TRISTANOPSIS LAURINA	WATER GUM	3	8m	140Ltr
SHRUBS					
BE ^{1,2}	BANKSIA ERICIFOLIA	HEATH BANKSIA	8	5m	200mm
CO*	CORREA ALBA	WHITE CORREA	6	1.5m	200mm
GL [#]	GREVILLEA LINEARIFOLIA	WHITE SPIDER FLOWER	3	3.0m	200mm
GS [#]	GREVILLEA SERICEA	PINK SPIDER FLOWER	4	2m	200mm
LF [#]	LEPTOSPERMUM LAEVIGATUM 'FORESHORE'	DWARF COASTAL TEA-TREE	13	0.5m	200mm
PI [#]	PIMELIA LINIFOLIA	RICE FLOWER	19	1.5m	200mm
WF [#]	WESTRINGIA FRUTICOSA	COASTAL ROSEMARY	7	1.5m	200mm
WG [#]	WESTRINGIA 'GREY BOX'	GREY BOX	19	0.5m	200mm
GRASSES / GROUND COVERS					
CA ^{1,2}	CAREX APPRESSA	CAREX	10	1m	140mm
CI*	CASUARINA GLAUCA 'COUSIN IT'	COUSIN IT	12	0.5m	200mm
CY ^{1,2}	COMMELINA CYANEA	SCURVY WEED	20	0.3m	tubes
DC ^{1,2}	DIANELLA CAERULEA	BLUE FLAX LILY	34	0.6m	tubes
FN [#]	FICINIA NODOSA	KNOBBY CLUBRUSH	17	0.6m	tubes
GH [#]	GAHNIA CLARKEI	SAW SEDGE	8	1.5m	tubes
HS [#]	HIBBERTIA SCANDENS	CLIMBING GUINEA FLOWER	5	0.3	140mm
IC ^{1,2}	IMPERATA CYLINDRICA	BLADY GRASS	56	0.7	tubes
JK ^{1,2}	JUNCUS KRAUSII subsp. AUSTRALIENSIS	SEA RUSH	10	0.6m	tubes
KR ^{1,2}	KENNEDIA RUBICUNDA	DUSKY CORAL PEA	19	0.3	140mm
LL ^{1,2}	LOMANDRA LONGIFOLIA	SPINY-HEADED MAT-RUSH	12	1m	tubes
PK*	POA LABILLARDIERI 'ESKDALE'	ESKDALE	31	0.7m	tubes



Total plants:	319	(100%)
Native plants - ESOF:	21	(6.58%)
Native plants - SOFF:	138	(43.26%)
Native plants - NBNP:	77	(24.14%)
Other native plant/cultivar:	83	(26.02%)
Total locally native plants:	236	(73.88%)
Total other native plants:	319	(100.00%)

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Client:
Warringah Golf Club Ltd.
ABN:15 000 085 601

Project: New Warringah Golf & Community Club Clubhouse

Site Address: 433 Pittwater Road
North Manly NSW 2100

Drawing Title: Landscape Design
Zone D - Planting Plan

Project Number: 21956
Scale: 1:100 @ A2
Sheet Number: L-06 of 7

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SITE PREPARATION

PROTECTION OF EXISTING TREES:

Protection of trees on development sites.

Fencing is to consist of Chain wire mesh panels at least 1.8m in height, anchored with concrete feet.

According to AS 4970-2009, activities excluded from the TPZ include but are not limited to;

- machine excavation including trenching
- excavation for silt fencing
- cultivation
- storage
- preparation of chemicals, including preparation of cement products
- parking of vehicles and plant and/or refuelling
- dumping of waste and/or wash down and cleaning of equipment
- soil level changes and/or placement of fill
- lighting of fires
- temporary or permanent installation of utilities and signs
- physical damage to the tree.

All trees to be removed shall be carried out by a qualified arborist and work shall conform to the provisions of AS4373-2007 Australian Standards for The Pruning of Amenity Trees.

Remove all existing weeds by hand, wiping or spraying with a glyphosate based herbicide. Weed control shall never be performed by mechanical cultivation or by scraping. Herbicide spraying is to be used to eliminate all existing weeds 30 days prior to planting.

Excavate garden beds to the depth required and rip or scarify base & sides of pit to a minimum depth of 150mm.

Install drainage layer where there is surface water runoff draining into garden bed areas & where the existing sub-soil has more than 50% clay composition & there is a risk of subsurface water ponding. Install perforated corrugated ag. line 75-100mm Dia. with geotextile filter sock & backfill to a minimum 200mm using free draining material, reclaimed/recycled where available. Direct flows at a minimum 0.5% fall to sw system. In areas isolated from stormwater system excavate & backfill an appropriate water dispersion pit.

Existing site topsoil should be salvaged & appropriately stockpiled where possible.

Quality System: AS 4419 or as specified below.

Tree Pit and Shrub Planting: 'Premium Garden Mix' as supplied by, ANL p: 02 9450 1444 or approved alternative.

Health & Vigour: Supply plants with foliage size, texture & colour consistent with that shown in healthy specimens of the species. Crowns must contain no epicormic shoots or dieback.

All plants supplied should be consistent with the guidelines provided in AS2303-2015 Tree stock for landscape use.

Install 2 x 1800mm 40x40 hardwood timber stakes with hessian ties to all trees. Provide appropriate support considering exposure to prevailing winds. Stakes and hessian ties to be removed as soon as the tree is self supporting.

Supply and install Link Edge 75mm as per Landscape Plan. Compact and level the base in the required area as indicated on Landscape Plan. Half hammer spikes into pre-punched holes (approx. 4 spikes every 3m length) starting from the first hole in the end of the Link Edge. Use spike washers supplied by manufacturer. Half hammer subsequent spikes in pivotal areas along the length. (Especially at points where a curve is required). Connect lengths together by using fish-plate connectors supplied by manufacturer. Check position of Link Edge is correct before hammering spikes firmly into ground.

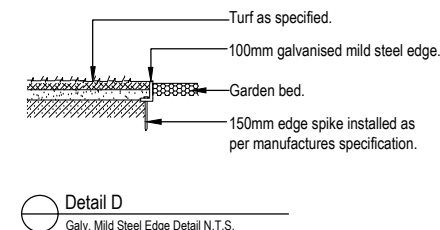
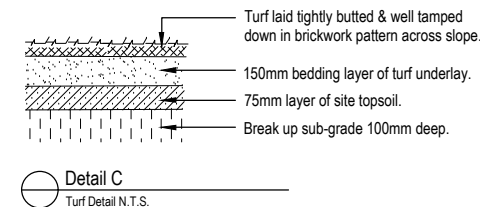
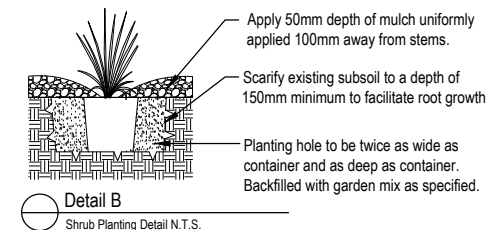
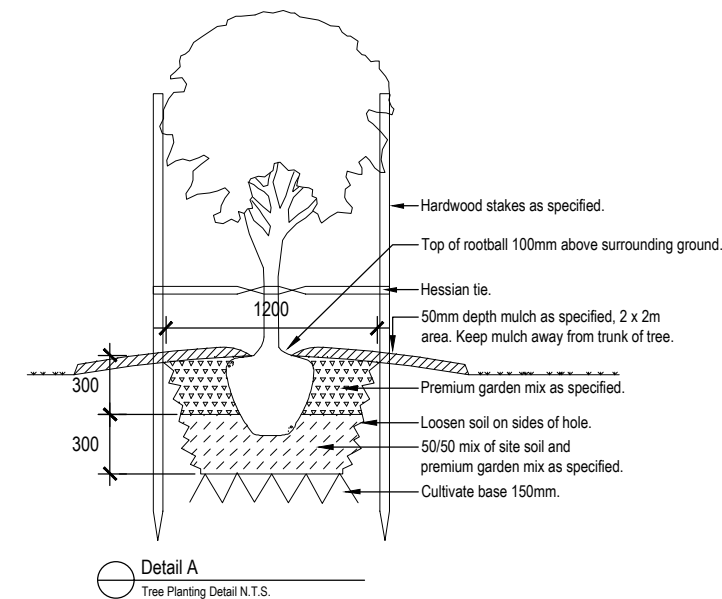
Quality system: AS 4454

All planting area impacted by building works to receive 50-75mm of garden Mulch, Forest Fines, ANL p: 02 9450 1444 or approved alternative. Keep mulch 100mm away from plant stem & form a well to stop excessive water runoff. Finish flush with adjacent surfaces.

New turf- Sir Walter Soft Leafed Buffalo.

Excavate / grade all areas to be turfed to 120mm below finished levels. Ensure that all surface runoff is directed away from buildings. Ensure that no pooling or ponding will occur. Further rip the sub-grade to 150mm. Install 100mm of imported turf underlay. Rolls to be closely butted and laid in a brickwork pattern. Fill any small gaps with topsoil and water thoroughly.

Water in immediately after plant installation & allow for soil settlement. For the first 2 to 4 weeks after planting, the root zone & immediate surrounds must be kept moist. Continue watering until plants have established.



 Serenescapes Landscape Designs ABN 71 611 726 222	Suite 54, 14 Narabang Way Belrose NSW 2085 Tel: 02 9986 2157 info@serenesCAPES.com.au www.serenescapes.com.au		Client: Warringah Golf Club Ltd. ABN:15 000 085 601	Project:	New Warringah Golf & Community Club Clubhouse			Drawing Title: Landscape Design Specification & Details			Rev:	Date:	Issue:	Checked:
				Site Address:							433 Pittwater Road North Manly NSW 2100	Drawn by: Ben Danks TLA Member	Project Number: 21956	Scale: ntcs @ A2
					B	18/10/2022	Preliminary Issue	BF						
					C	16/11/2022	Preliminary Issue	BF						
					D	18/11/2022	DA Issue	BF						