## Appendices

### Appendix A: Consultation Minutes

UDLP Consultation Register							
Stakeholder	Contact details	Date document issued for comment					
RMS (Roads and Maritime Services)	Grafton - Greg Nash Senior Project Manager PO Box 546 Grafton 2460 T 02 6640 1390 Gregory.NASH@rms.nsw.gov.au Sydney UD - Raeburn Chapman Jenny Burge Gareth Collins	16th June 2016 Discussion regarding heritage interpretation, area under bridge, Greaves St precinct					
Clarence City Council		21st July 2016 Meeting minutes attached					
Grafton Ngerrie LALC		16th July 2016 - Grafton Meeting minutes attached					
Community consultation							

Table A-1 UDLP Consultation Register



Level 3 Studio 3 t +61 2 95717900 The Cooperage f +61 2 95717600 56 Bowman Street e info@kistudio.com.au Sydney NSW 2009 Australia

PROJECT NAME:         GRAFTON BRIDGE UD           MEETING No:         01           DATE:         21/07/2016; TIME – 2.30pm, RMS Office, Gr           PRESENT:         Greg Nash, RMS           David Morrison, CRVC         David Sutton, CRVC           Judy van Gelderen, KIS/for FH         APOLOGIES:           Brendon Johnson         Image: Strenge S		PROJECT	No: 16-14
DATE:         21/07/2016; TIME – 2.30pm, RMS Office, Gr           PRESENT:         Greg Nash, RMS           David Morrison, CRVC         David Sutton, CRVC           Judy van Gelderen, KIS/for FH         APOLOGIES:           Brendon Johnson         Image: Comparison of the second seco		PROJECT	NAME: GRAFTON BRIDGE UD
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Table A-2 Meeting Minutes - KI Studio



**Meeting Minutes** 

MM

WRITER'S NAME: Judy van Gelderen

arafton. Meeting closed at 3.45

COMPLETE/comments ACTION ving less open space provision noted design. safer streets- and to reclaim ed this as well and commented noted KIS ink habitat and he suggested JvG provide plan to be functional, with easy to said he preferred no feature noted JvG W would be providing funds for the rail line used to go to the RMS Refer HIP Refer HIP- this a each side of the river. FH/noted has been recommended andscape plan, indicating the ent: bank; and substituting with a path eet Pound Street, inside the RMS gaining permission from the NSW erty- which would likely cause time ing blocks, to recreate the Greaves KIS to Works all rather than having such a large prepare completed and plan between narrowed space between ge and also provide TTSTS habitat incorporated into UDLMP following FH inputs permitting. ran east along the river bank, from existing residents, and it may be 20 alised. the SW generator under the bridge ng could be reduced to clumps, to planting plans from the bid to nitial feedback, especially with То be be submitted via FH to Greg JvG/RMS undertaken by FH scape plan, and mentioned the noted bunding to allow more street RMS? , ( numbers still required) along noted th of Pound Street- access will



### Meeting Minutes

Meeting:	Meeting with Grafton Ngerrie LALC to discuss induction training, Construction Heritage Management Plan (CHMP), Heritage Interpretation Plan (HIP) and Aboriginal participation				
Project	Additional Crossing of the Clarence River at Grafton				
Date & time:	Thursday 21 July 2016, 1:40pm – 3:30pm.				
Location:	RMS Regional Office, 76 Victoria Street Grafton NSW 2460, The Bruxner Tender Room – Level 2				
Minute taker:	Rebekah Byrne				
Attendees:	Grafton Ngerrie LALC: Brett Tibbet (BT). Fulton Hogan (FH): Rebekah Byrne (RB), Irina Kliger (IK), Brendon Johnson (BJ), Matthew Inkster (MI). kiStudio: Judy van Gelderen (JV) RMS: Greg Nash (GN), Scott Lawrence (SL)				
Distribution:	Above, Karen Williams (FH), John O'Donnell (RMS), Jason Sheehan (RMS), Roger Santos (RS), Sam Leigh (FH)				

Discus	ssion item	Action b
1. In	duction training	
1.1	IK explained the content of the four proposed heritage induction slides (Attachment 1), including no-go areas, the incident and emergency flowchart, signage and stop work processes. IK noted that the cultural heritage induction will form part of the overall environmental induction that runs for approximately 3 hours. Inductions are typically carried out 3 times per week commencing at 6am. Fulton Hogan provided BT with a hardcopy of the four induction slides.	Note
1.2	<ul> <li>BT advised that there is quite a bit of heritage on the south side. When the EIS process first began, Brett said that 3 stipulations came out from the initial members meeting: <ol> <li>Erection of a human-proof fence to prevent access to the Golden Eel site</li> <li>Interpretative signage to promote the importance of the Golden Eel site</li> <li>Involvement of Aboriginal Site Officers.</li> </ol> </li> <li>BT acknowledged that the fence has been installed. RB advised that interpretative signage would be covered in the HIP. BT advised that John O'Donnell advised him that there would be no Aboriginal Site Officers on the Project. BT said he would have to go back to the members meeting to advise them of the same.</li> </ul>	Note
1.3	BT advised that the workers need to know what scarred trees are. Don't include photos of the actual grinding stones at the site in the induction training.	Note
1.4	IK explained that Fulton Hogan has "Green rules" and one of these is – no work outside the project boundary. The project boundary will be clearly delineated.	Note
1.5	BT advised that the main concern is about <i>machinery</i> in the vicinity of the grinding stones.	Note
1.6	BT asked about the possibility of Grafton Ngerrie LALC having some kind of involvement in induction training. IK advised that induction training is carried out 3 times per week at 6am. It was agreed that a one off 'Train the Trainer' session would be undertaken between the relevant FH personnel (e.g. Environmental Manager, Environmental Officer) and a member of Grafton Ngerrie LALC to ensure that the person delivering the induction is aware of all the issues and culturally sensitive information is managed appropriately. FH will organise this with Grafton Ngerrie LALC once the Project Environmental Manager starts working on the project.	FH
2.1	HMP (Revision 2) The CHMP was sent to BT for review and comment on 15/07/2016. The CHMP focuses on the sites within 200m of the project, including Carr's Creek campsite, the Golden Eel, a scarred tree and grinding stones. Key mitigation measures are exclusion fencing, induction training, unexpected finds procedure, the Heritage Interpretation Plan and pedestrian-proof fencing. BT advised that he would take the CHMP to the members during the members meeting next week. BT to advise RB of any feedback on the CHMP after the members meeting on 27/07/16.	BT
	itage Interpretation Plan (HIP)	
3.1	JV advised that the HIP will be integrated with the Urban Design and Landscape Management Plan (UDLMP). The HIP will involve summarising the EIS material and preparing a sketch of the main areas where interpretation will be provided and how. In South Grafton - the Golden Eel, the old wharf. In North Grafton-two heritage houses and the Old Grafton Bridge.	Note
~ ~	BT explained the significance of the Golden Eel.	Note
3.2		

Page 1 of 3

Fulton Hogan

Discu	ssion item	Action by
4. Ab	original participation	
4.1	MI advised that FH looks forward to meeting its obligations under the NSW Government's Aboriginal Participation in Construction Guidelines (1 May 2015). FH would like to meet the guidelines and also Grafton Ngerrie LALC's expectations with regard to engaging with the community. FH would be looking to get some guidance from BT as to how FH can get involved. The Project is a Category 2 project. This means a targeted project spend of 1.5% of the total estimated contract value to support Aboriginal participation. This equates to approximately \$2.15 million.	Note
4.2	BT to provide MI with a list of Aboriginal businesses in the area. BJ advised that there are not many services that FH would not need in one form or another. For example, fencing contractors; machinery – diggers, trucks; cleaning; tree planting.	BT
4.3	BT confirmed receipt of the Gerringong Upgrade heritage training video. BT advised that he would be showing it at the next members meeting. BT said he thought it was a good way to deliver the message.	Note

# Attachments: No. Description

1	Proposed heritage induction slides

Table A-3 Meeting Minutes - Fulton Hogan

### Meeting Minutes



Level 3 Studio 3 t +61 2 95717900 The Cooperage f +61 2 95717600 56 Bowman Street Sydney NSW 2009 Australia

 PROJECT
 16-14- GRAFTON BRIDGE Urban design
 WRITER'S NAME:
 Judy van Gelderen

 MEETING REGARDING
 Page turn of the revised UDLMP and HIP (Heritage Interpretation Plan)

 MEETING No:
 02

 DATE:
 17<sup>th</sup> November,2016; TIME – 10am, Grafton Ngerrie LALC . Meeting closed at 12.00

 PRESENT:
 Brett Tibett, Grafton Ngerrie LALC

 Judy van Gelderen, KIS/for FH
 Nazanine Azimpanah

APOLOGIES:

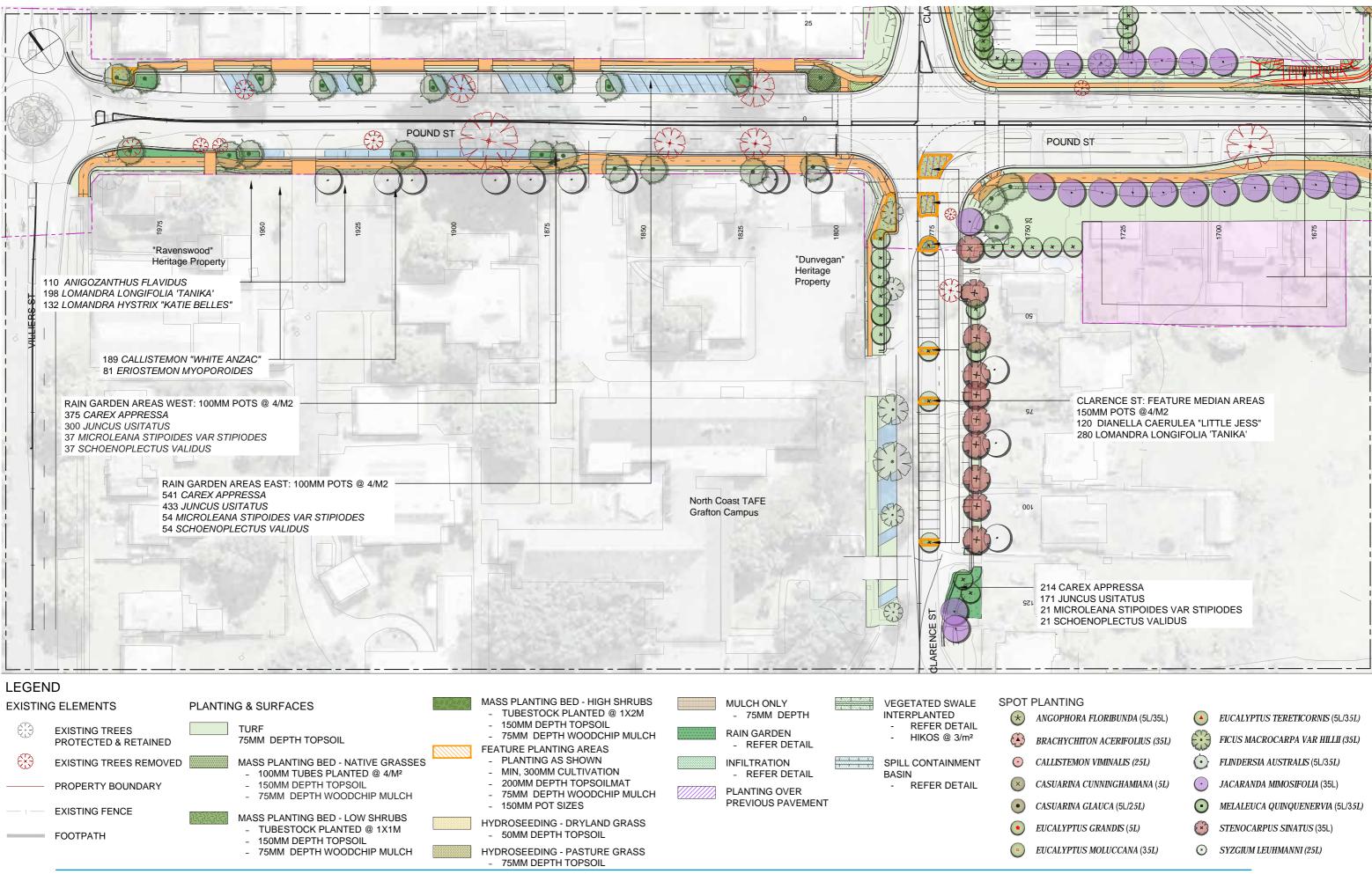
ITEM	DESCRIPTION	ACTION	COMPLETE/ comments
1	Judy took Brett though the latest version of the UDLMP, including the HIP, and explained that various emails had been sent requesting information regarding material to be interpreted, stories etc. Judy noted that the UDLMP will be going on public display within a week or so and FH /KIS require GLALC feedback – preferably before this is released. Confirmation of the written and graphic material noted in the HIP and acceptance or otherwise of the themes and story	noted	
2	lines presented as concepts to be further developed in detail design. Brett mentioned he had been to recent meetings regarding the Grafton Bridge to discuss the Participation Plan with Tara Freeman. It was noted that Council had undertaken a previous study of Aboriginal	noted	
3	Heritage with limited inputs from NALC. The short notice for providing inputs was not acceptable and the process needed to be improved. This study was overseen by Jason Kingsley, Deputy Mayor and CRC Aboriginal Consultative committee, of which Brett is Deputy Chair. Rosemary Laurie is Chair.	noted	
4	Judy confirmed that FH/KIS were trying to improve the process- hence the string of emails and previous attempts for meetings.	noted	
5	<ul> <li>The following material was confirmed as acceptable, and also any material previously published in the Biosis or EIS reports:</li> <li>The Clarence river itself is the main interpretation element;</li> <li>The Golden Eel story, and the story of <i>Dirahnggan</i> (the wicked, mischievous witch and the water story) in relation to the Creation Story (Brett's version of this was recorded by KIS). Brett will get approval or otherwise for releasing this information.</li> </ul>	Noted. JvG to include (pending Elders approval) the info in the HIP	BT
6	Brett mentioned that Wilsons Hill should be included as an Aboriginal site- it is where the battle occurred between the Golden Eel and <i>Dirahnggan</i> and it was here that the <i>Dirahnggan</i> tried to turn the water back (according to the story). It was also the place for refuge from floods. Wilsons Hill was also a place where in the massacres of 1800s the reference to "Rivers of Blood"- was the cursed point of Grafton, where bodies floated past after massacres. Some tribes say that Elizabeth Island is <i>Dirahnggan</i> 's resting place.	Noted. JvG to include (pending Elders approval) the info in the HIP	ВТ
7	The Clarence River itself is said to connect three nations- Bundalung, Gumlaynagirr and Yaegl.	noted	BT
8	Brett confirmed that Kempsey and Coffs Harbour use the QR code for interpretation /cultural trail that has been effective and popular.	noted	BT
9	Brett recalled the story of the Marriage trees- also called divorce trees. If women wanted a divorce, the elders chose a branch for the woman to cut a big trunk off. If she survived (that was rare) she could be granted a divorce. The idea was so that women stopped and thought about their decision before making it, as marriages were arranged and sanctimonious family structure. This practice continued till the 1970s.	Text added into current HIP	BT
10	The idea of an artist competition was discussed; Brett thought it would be a good idea	noted	BT/FH
11	Brett took Nazanine and Judy on site to see the Marriage Trees	noted	
12	Brett said he would take the HIP to the Elders and attempt to get comments back by Thursday, 24 <sup>th</sup> November, 2016.	BT	

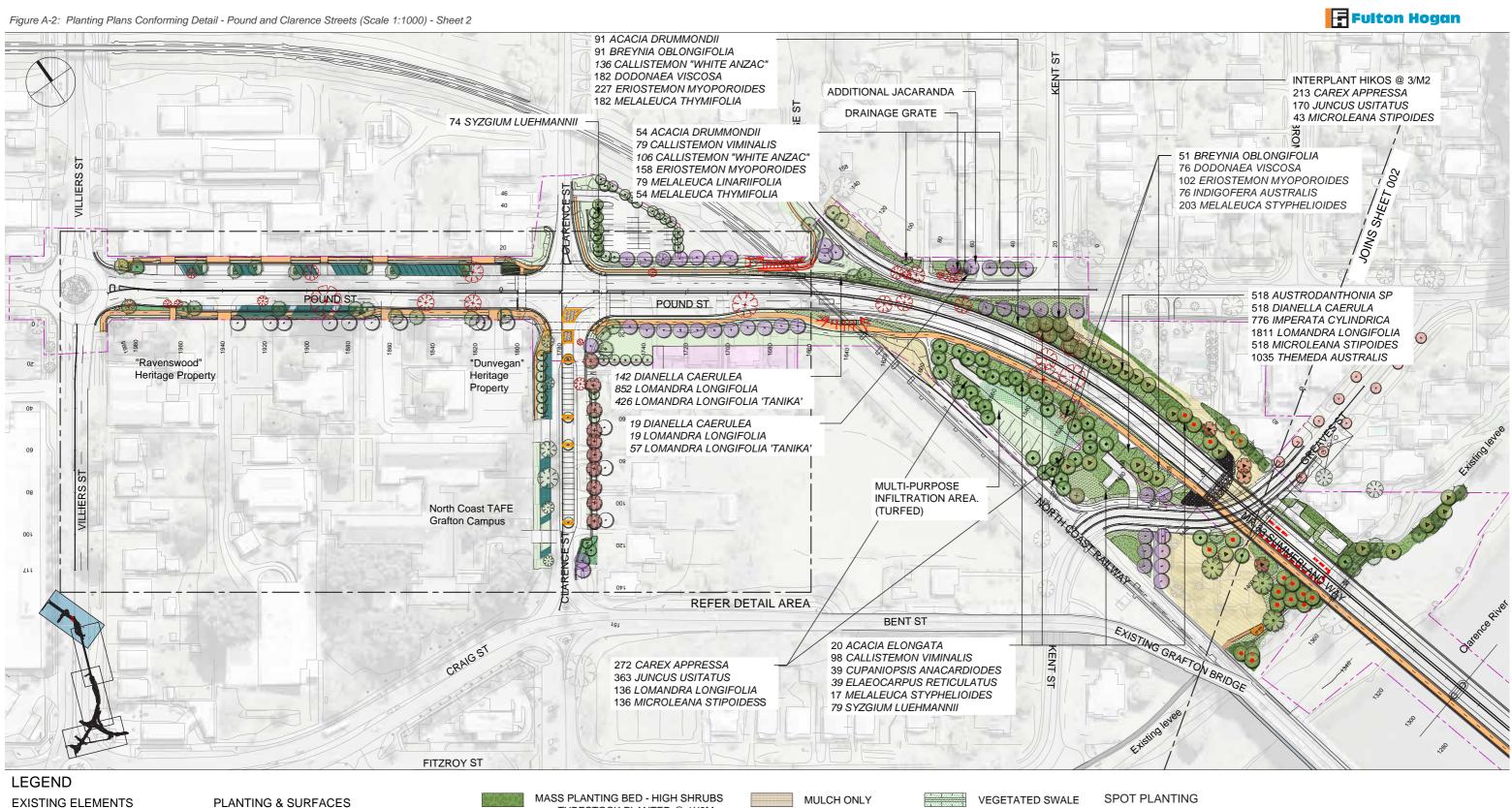
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**Meeting Minutes** 



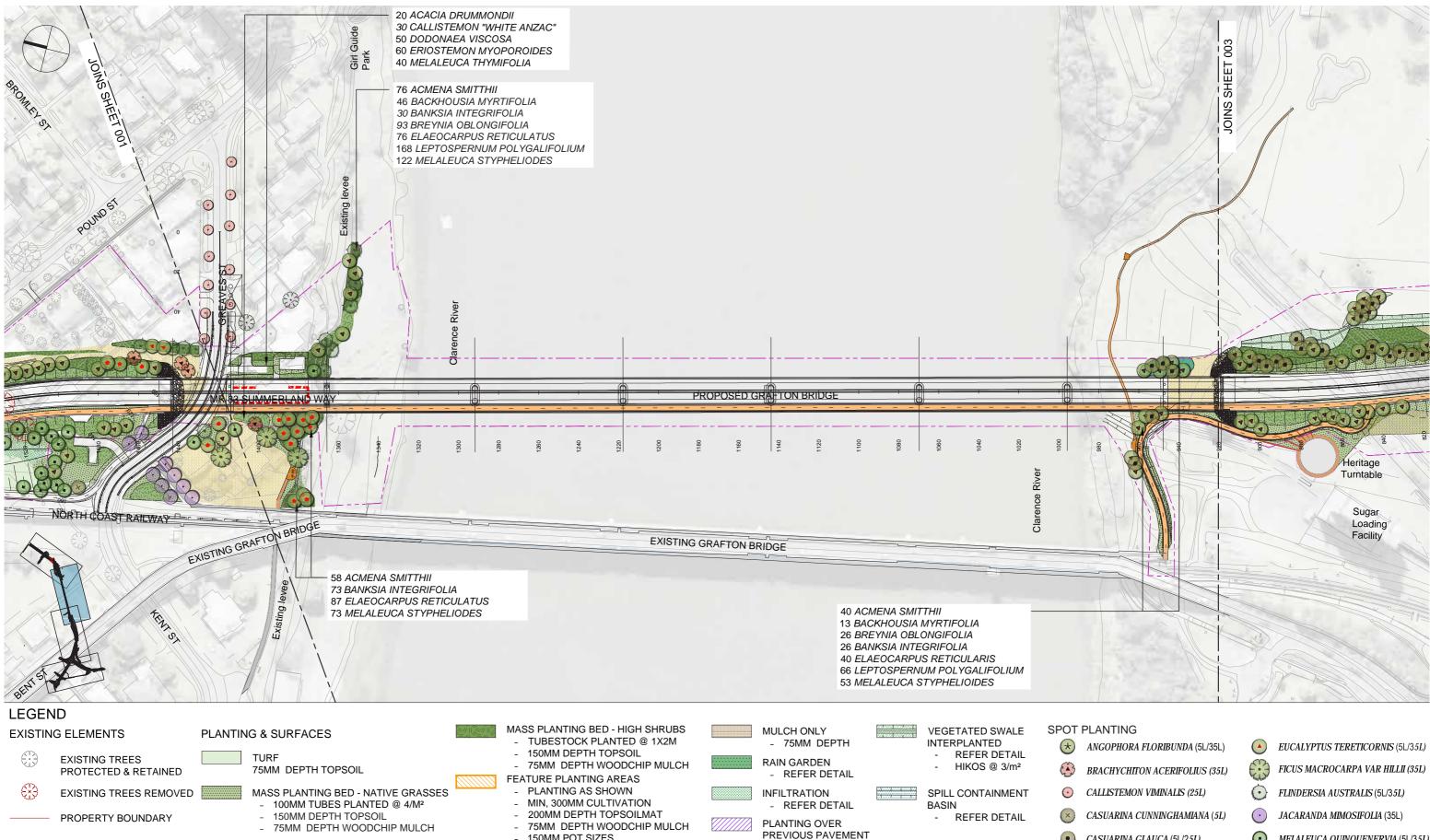
Figure A-1: Planting Plans Conforming Detail - Pound and Clarence Streets (Scale 1:1000) - Sheet 1





EXISTIN	G ELEMENTS	PLANTIN	IG & SURFACES	MASS PLANTING BED - HIGH SHRUBS	MULCH ONLY	53(2)31553(2)215	VEGETATED SWALE	SPOT	PLANI
_/				 <ul> <li>TUBESTOCK PLANTED @ 1X2M</li> </ul>	 - 75MM DEPTH		INTERPLANTED	$(\star)$	ANGOP
	EXISTING TREES PROTECTED & RETAINED		TURF 75MM DEPTH TOPSOIL	<ul> <li>150MM DEPTH TOPSOIL</li> <li>75MM DEPTH WOODCHIP MULCH</li> <li>FEATURE PLANTING AREAS</li> </ul>	 RAIN GARDEN - REFER DETAIL		<ul> <li>REFER DETAIL</li> <li>HIKOS @ 3/m<sup>2</sup></li> </ul>	$\mathbf{\mathfrak{S}}$	BRACH
	EXISTING TREES REMOVED		MASS PLANTING BED - NATIVE GRASSES - 100MM TUBES PLANTED @ 4/M <sup>2</sup>	<ul> <li>PLANTING AS SHOWN</li> <li>MIN. 300MM CULTIVATION</li> </ul>	INFILTRATION - REFER DETAIL		SPILL CONTAINMENT BASIN	$(\cdot)$	CALLIS
	PROPERTY BOUNDARY		<ul> <li>150MM DEPTH TOPSOIL</li> <li>75MM DEPTH WOODCHIP MULCH</li> </ul>	<ul> <li>200MM DEPTH TOPSOILMAT</li> <li>75MM DEPTH WOODCHIP MULCH</li> </ul>	PLANTING OVER		- REFER DETAIL	$\overline{\mathbf{x}}$	CASUA
	EXISTING FENCE	14242424	MASS PLANTING BED - LOW SHRUBS	 - 150MM POT SIZES	PREVIOUS PAVEMENT			ullet	CASUA
	FOOTPATH	escentes a	- TUBESTOCK PLANTED @ 1X1M - 150MM DEPTH TOPSOIL	HYDROSEEDING - DRYLAND GRASS - 50MM DEPTH TOPSOIL					EUCAL
			- 75MM DEPTH WOODCHIP MULCH	HYDROSEEDING - PASTURE GRASS - 75MM DEPTH TOPSOIL					EUCAL

- GOPHORA FLORIBUNDA (5L/35L) CHYCHITON ACERIFOLIUS (35L) LISTEMON VIMINALIS (25L) SUARINA CUNNINGHAMIANA (5L) UARINA GLAUCA (5L/25L) CALYPTUS GRANDIS (5L)
- CALYPTUS MOLUCCANA (35L)
- EUCALYPTUS TERETICORNIS (5L/35L) £:3 FICUS MACROCARPA VAR HILLII (35L) FLINDERSIA AUSTRALIS (5L/35L)  $\odot$ JACARANDA MIMOSIFOLIA (35L)  $\odot$ MELALEUCA QUINQUENERVIA (5L/35L) Ex3 STENOCARPUS SINATUS (35L) SYZGIUM LEUHMANNI (25L)



- 150MM POT SIZES

HYDROSEEDING - DRYLAND GRASS

HYDROSEEDING - PASTURE GRASS - 75MM DEPTH TOPSOIL

50MM DEPTH TOPSOIL

- EXISTING FENCE
  - FOOTPATH

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MASS PLANTING BED - LOW SHRUBS

- TUBESTOCK PLANTED @ 1X1M

- 75MM DEPTH WOODCHIP MULCH

- 150MM DEPTH TOPSOIL

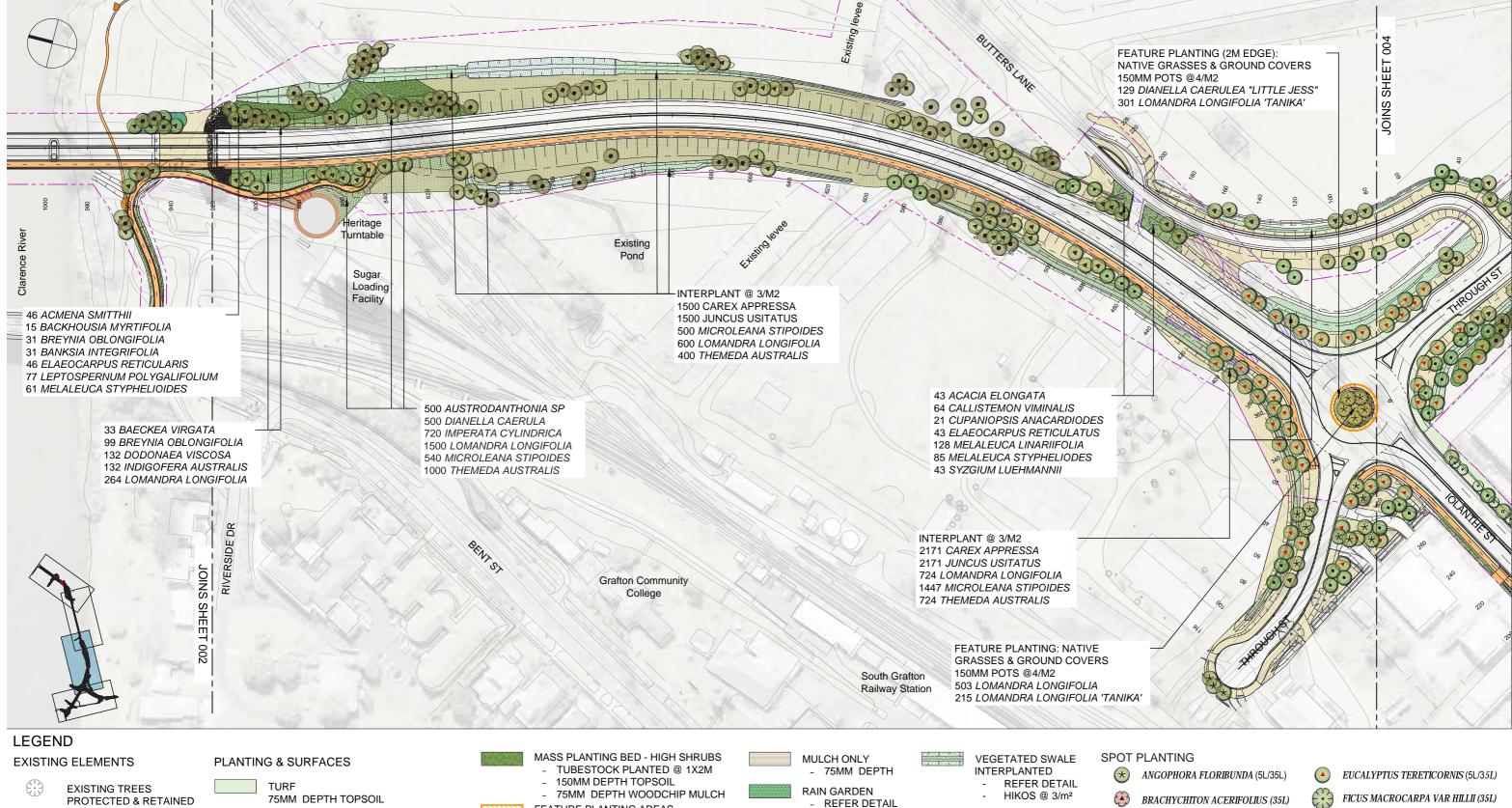
### Figure A-3: Planting Plans Conforming Detail - Pound and Clarence Streets (Scale 1:1000) - Sheet 3

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- CASUARINA GLAUCA (5L/25L)
- EUCALYPTUS GRANDIS (5L)
- EUCALYPTUS MOLUCCANA (35L)
- $\odot$ MELALEUCA QUINQUENERVIA (5L/35L) Ex3 STENOCARPUS SINATUS (35L)  $\odot$ SYZGIUM LEUHMANNI (25L)



INFILTRATION

PLANTING OVER

REFER DETAIL

PREVIOUS PAVEMENT

FEATURE PLANTING AREAS

- 150MM POT SIZES

PLANTING AS SHOWN

- MIN, 300MM CULTIVATION

**50MM DEPTH TOPSOIL** 

200MM DEPTH TOPSOILMAT

HYDROSEEDING - DRYLAND GRASS

HYDROSEEDING - PASTURE GRASS - 75MM DEPTH TOPSOIL

- 75MM DEPTH WOODCHIP MULCH

MASS PLANTING BED - NATIVE GRASSES

100MM TUBES PLANTED @ 4/M<sup>2</sup>

- 75MM DEPTH WOODCHIP MULCH

MASS PLANTING BED - LOW SHRUBS

TUBESTOCK PLANTED @ 1X1M

- 75MM DEPTH WOODCHIP MULCH

- 150MM DEPTH TOPSOIL

- 150MM DEPTH TOPSOIL

Figure A-4: Planting Plans Conforming Detail - Pound and Clarence Streets (Scale 1:1000) - Sheet 4

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EXISTING TREES REMOVED

PROPERTY BOUNDARY

EXISTING FENCE

FOOTPATH

SPILL CONTAINMENT

REFER DETAIL

BASIN

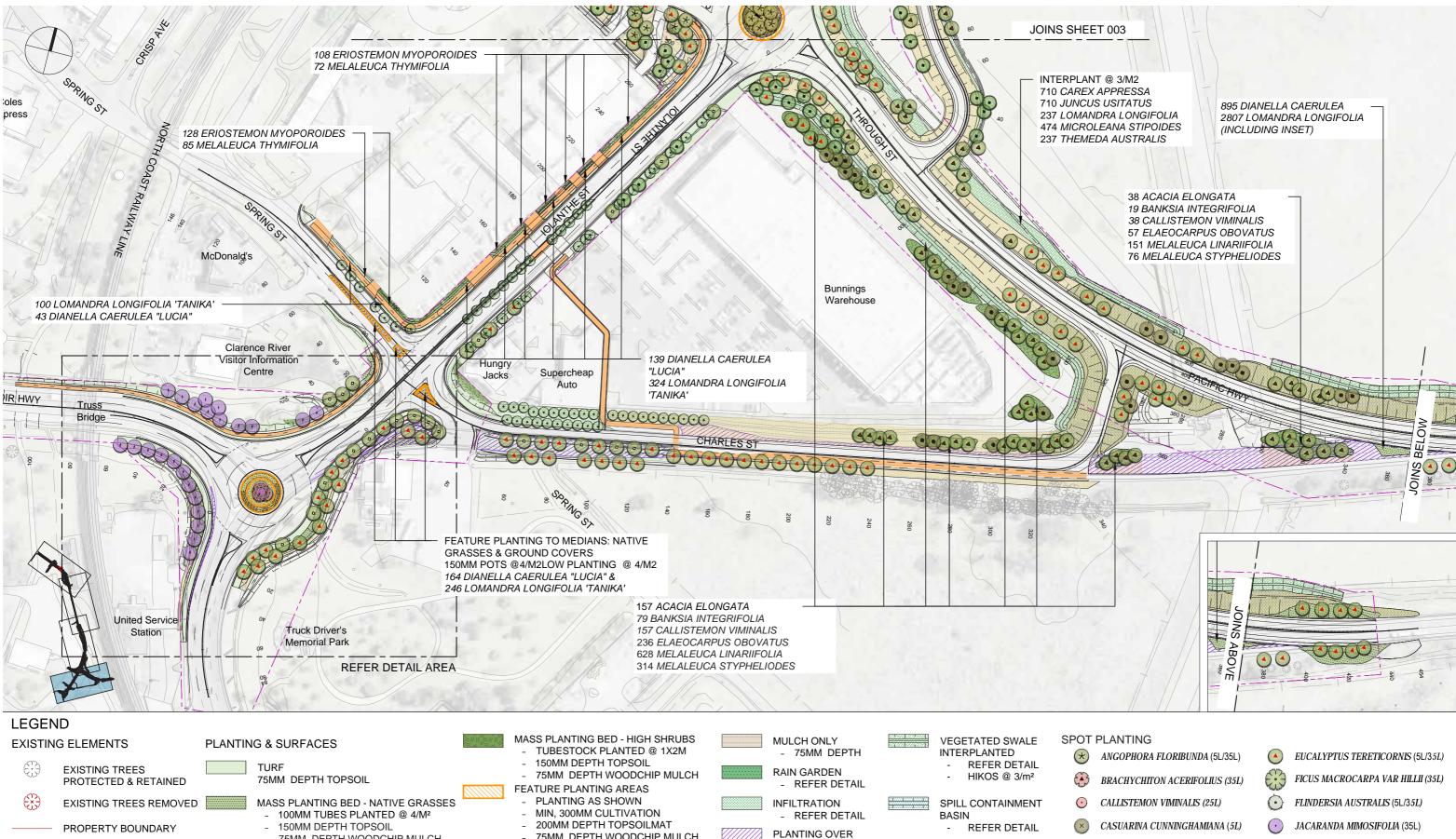
## **Fulton Hogan**

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- BRACHYCHITON ACERIFOLIUS (35L) CALLISTEMON VIMINALIS (25L) CASUARINA CUNNINGHAMIANA (5L) CASUARINA GLAUCA (5L/25L) EUCALYPTUS GRANDIS (5L) EUCALYPTUS MOLUCCANA (35L)
- FICUS MACROCARPA VAR HILLII (35L) FLINDERSIA AUSTRALIS (5L/35L)  $\odot$ JACARANDA MIMOSIFOLIA (35L)  $\odot$ MELALEUCA QUINQUENERVIA (5L/35L) Ex3 STENOCARPUS SINATUS (35L) SYZGIUM LEUHMANNI (25L)



PREVIOUS PAVEMENT

- 75MM DEPTH WOODCHIP MULCH

HYDROSEEDING - DRYLAND GRASS

HYDROSEEDING - PASTURE GRASS 75MM DEPTH TOPSOIL

50MM DEPTH TOPSOIL

- 150MM POT SIZES

- EXISTING FENCE
- FOOTPATH

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- 75MM DEPTH WOODCHIP MULCH

TUBESTOCK PLANTED @ 1X1M

- 75MM DEPTH WOODCHIP MULCH

MASS PLANTING BED - LOW SHRUBS

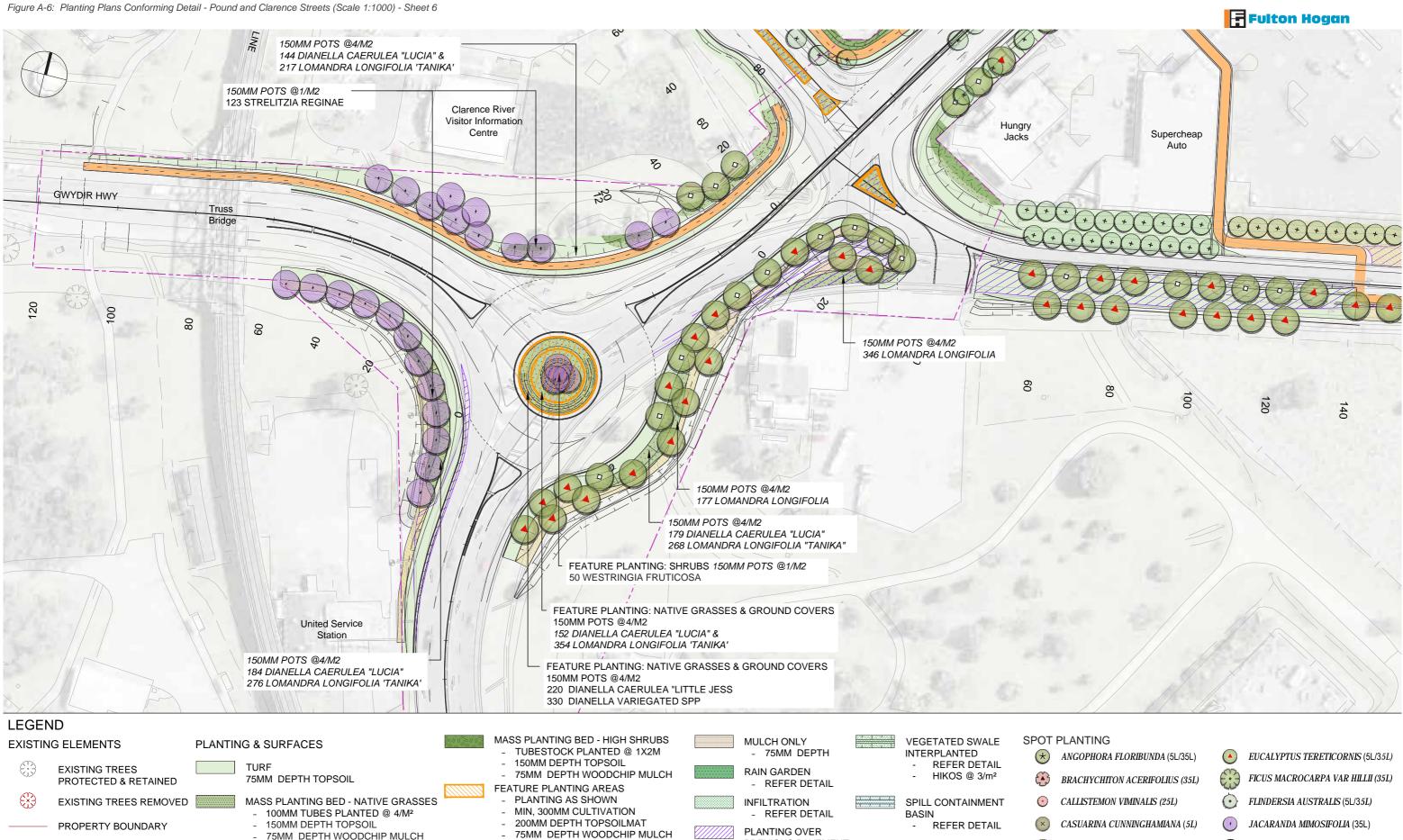
150MM DEPTH TOPSOIL

Figure A-5: Planting Plans Conforming Detail - Pound and Clarence Streets (Scale 1:1000) - Sheet 5

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- CASUARINA CUNNINGHAMIANA (5L)
- CASUARINA GLAUCA (5L/25L)
- EUCALYPTUS GRANDIS (5L)
- EUCALYPTUS MOLUCCANA (35L)
- JACARANDA MIMOSIFOLIA (35L)  $\odot$ MELALEUCA QUINQUENERVIA (5L/35L) (×3 STENOCARPUS SINATUS (35L)  $\odot$ SYZGIUM LEUHMANNI (25L)



PREVIOUS PAVEMENT

- EXISTING FENCE
  - FOOTPATH
- TUBESTOCK PLANTED @ 1X1M
  - 150MM DEPTH TOPSOIL - 75MM DEPTH WOODCHIP MULCH

MASS PLANTING BED - LOW SHRUBS

- 75MM DEPTH WOODCHIP MULCH - 150MM POT SIZES
- HYDROSEEDING DRYLAND GRASS 50MM DEPTH TOPSOIL
- HYDROSEEDING PASTURE GRASS
- 75MM DEPTH TOPSOIL

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- CASUARINA GLAUCA (5L/25L)
- EUCALYPTUS GRANDIS (5L)
- EUCALYPTUS MOLUCCANA (35L)
- MELALEUCA QUINQUENERVIA (5L/35L) STENOCARPUS SINATUS (35L) SYZGIUM LEUHMANNI (25L)

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Ex3

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## Appendix C: Structural Maintenance Diary

### Clarence River Bridge

Asset Element	Asset sub-item	Specific Durability Requirements	Inspection Regime	Maintenance Activities
Bored Piles	Structures	Concrete mix for Exposure Classification, B2	Detailed Inspection of representative sample number after each moderate seismic that may have resulted in high loading of the piles	Not accessible for maintenance.
Abutments	Structures	Concrete mix for exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress and damage and movement. Also look for signs of subsidence in approach slab and damage to the expansion joint.
Piers	Structures	Concrete mix for Exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Pile cap/ ground beam	Structures	Concrete mix for Exposure Classification B2	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Pile cap skirts	Structures	Concrete mix for Exposure Classification C	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Wingwalls	Structures	Concrete mix for Exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Bearings	Non-reinforced elastomeric bearing strips	-	Visual inspection each 5 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Check for excessive movement compared to the design drawings. Assume replacement interval of 40 years.
	Stainless steel attachment plates	Stainless steel Grade 316	Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Clean surface dirt from metal surface, assume 10 years max (frequency dependant on dirt).
	Pot bearings	Stainless steel Grade 316 components for all pot bearings	Visual inspection every 2 years. Detailed Inspection every 10 years, or after each moderate seismic event.	Inspect for evidence of squeezing out of the gaskets or other sliding surfaces within the bearing. Clean surface dirt from metal surface, assume 10 years max (frequency dependant on dirt).
	Mortar pad	-	Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Inspect for evidence of cracks or deterioration at the mortar pads.
Precast girders	Structures	Concrete mix for Exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress and damage. Clean surface i.e. dirt build-up of debris (from flooding), frequency dependant on dirt build up (if any). Assume replacement interval of 100 years.
Deck slab	General	Concrete mix for exposure	Visual inspection each 1 year.	Check Concrete and Asphalt wearing surface for

Table A-5 Structural Maintenance Diary - Clarence Bridge - 1



Asset Element	Asset sub-item	Specific Durability Requirements	Inspection Regime	Maintenance Activities
		Classification B1		evidence of distress and damage.
				Detailed inspection if cracking is evident.
Approach slab	General	Concrete mix for exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress and damage and movement.
				Check for signs of subsidence in approach slab and damage to the expansion joint.
Deck expansion joints	Fingerplate joint	Bridge joints	Visual inspection, initially on a quarterly basis. Assess required frequency after 1st year.	Clean joints to ensure no dirt build up, moss, or vegetation impedes function (likely to be only for part length).
				Assume replacement of joint membrane every 10 years
	Sealant		Visual inspection each 1 year.	Check for failure of deck and adjoining surface.
				Assume replacement of sealant every 15 years or as necessary (will depend on traffic load and numbers of vehicles).
Bridge barrier – concrete parapet	General	Concrete mix for exposure Classification B1	Visual inspection each 1 year.	Check for minor collision damage, if any. Repair damage as required to maintain integrity of reinforcement and structure. Assume replacement of joint sealant every 20 years.
Bridge Barrier – steel traffic railing	General	Bridge traffic barriers	Visual inspection each 1 year.	Check for minor collision damage, if any. Repair damage as required to maintain integrity of reinforcement and structure.
Bridge deck waterproof	Surface coating systems	Water proof membrane wearing course	Visual inspection each 1 year.	Check for wear each year. Assume replacement interval of 10 years.
membrane and wearing surface			Detailed Assessment for correction maintenance every 5 years.	
Road barrier – concrete parapet	General	Concrete mix for exposure Classification B1	Visual inspection each 1 year.	Check for minor collision damage, if any. Repair damage as required to maintain integrity of reinforcement and structure. Assume replacement interval of 20 years.
Maintenance access stairs	General		Visual inspection each 1 year.	Check for minor corrosion and/or damage, if any. Repair damage as required to maintain integrity of structure.
Scour protection	General	Abutment stability	Visual inspection each 1 year. Detailed Assessment for correction maintenance every 5 years.	Check for loose and missing rocks each year.
FRC Drainage pipe	General		Visual inspection each 1 year.	Check for minor corrosion and/or damage, if any. Repair damage as required to maintain integrity of structure.
Anti-graffiti coating			Visual inspection each 1 year.	Check for wear and assume replacement every 12 years.



### Pound Street Bridge

Structures			
	Concrete mix for Exposure Classification, B2	Detailed Inspection of representative sample number after each moderate seismic that may have resulted in high loading of the piles	Not accessible for maintenance.
Structures	N/A	Visual inspection each 1 year.	Check for signs of concrete distress and damage and movement. Also look for signs of subsidence in approach slab.
Structures	Concrete mix for Exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Structures	Concrete mix for Exposure Classification B2	Visual inspection each 1 year.	Check for signs of concrete distress or damage.
Non-reinforced elastomeric bearing strips	-	Visual inspection each 5 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Check for excessive movement compared to the design drawings. Assume replacement interval of 40 years.
Stainless steel attachment plates	Stainless steel Grade 316	Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Clean surface dirt from metal surface, assume 10 years max (frequency dependant on dirt).
Pot bearings	Stainless steel Grade 316 components for all pot bearings	Visual inspection every 2 years. Detailed Inspection every 10 years, or after each moderate seismic event.	Inspect for evidence of squeezing out of the gaskets or other sliding surfaces within the bearing. Clean surface dirt from metal surface, assume 10 years max (frequency dependant on dirt).
Mortar pad	-	Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.	Inspect for evidence of cracks or deterioration at the mortar pads.
General	Concrete mix for exposure Classification B1	Visual inspection of soffit and edge kerbs each 2 year.	Check Concrete surface under ballast for evidence of distress and damage every 10 years during a scheduled track possession in 3 locations.
Gaparal		Visual inspection each 1 year	Detailed inspection if cracking is evident. As per ARTC requirements.
S Nes Sa P	Structures Structures Non-reinforced elastomeric bearing etrips Stainless steel ettachment plates Pot bearings Mortar pad	StructuresN/AStructuresConcrete mix for Exposure Classification B1StructuresConcrete mix for Exposure Classification B2Non-reinforced elastomeric bearing trips-Stainless steel tttachment platesStainless steel Grade 316Pot bearingsStainless steel Grade 316 components for all pot bearingsMortar pad-SeneralConcrete mix for exposure Classification B1	Ioading of the pilesStructuresN/AVisual inspection each 1 year.StructuresConcrete mix for Exposure Classification B1Visual inspection each 1 year.StructuresConcrete mix for Exposure Classification B2Visual inspection each 1 year.Von-reinforced Hastomeric bearing trips-Visual inspection each 5 year. Detailed Inspection every 10 years, or after each moderate seismic event.Stainless steel ttachment platesStainless steel Grade 316Visual inspection every 10 years, or after each moderate seismic event.Pot bearingsStainless steel Grade 316 components for all pot bearingsVisual inspection every 2 years. Detailed Inspection every 10 years, or after each moderate seismic event.Aortar pad-Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.Aortar pad-Visual inspection every 10 years, or after each moderate seismic event.SeneralConcrete mix for exposure Classification B1Visual inspection each 2 year. Detailed Inspection every 10 years, or after each moderate seismic event.

Table A-7 Structural Maintenance Diary - Pound Street Bridge - 1



Asset Element	Asset sub-item	Specific Durability Requirements	Inspection Regime	Maintenance Activities
Structural Steel Truss main members	Painted steelwork	Painted steel to B220	Visual Inspection each 1 year Detailed Inspection every 5 years, or after each moderate seismic event.	Clean surface dirt and debris from metal surf Patch paint where protective coating is broke Repaint every 25 years. Check steelwork for evidence of distress and damage. Detailed inspection if cracking is evident.
Structural Steel Truss stiffeners, bracing and connections	Painted steelwork	Painted steel to B220	Visual Inspection each 1 year Detailed Inspection every 5 years, or after each moderate seismic event.	Clean surface dirt and debris from metal surf Patch paint where protective coating is broke Repaint every 25 years. Check steelwork for evidence of distress and damage. Detailed inspection if cracking is evident.
Approach slab	General	Concrete mix for exposure Classification B1	Visual inspection each 1 year.	Check for signs of concrete distress and dan movement. Check for signs of subsidence in approach s damage to the joint.
Anti-graffiti coating			Visual inspection each 1 year.	Check for wear and assume replacement ev years.

Table A-8 Structural Maintenance Diary - Pound Street Bridge - 2



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