

# Additional crossing of the Clarence River at Grafton

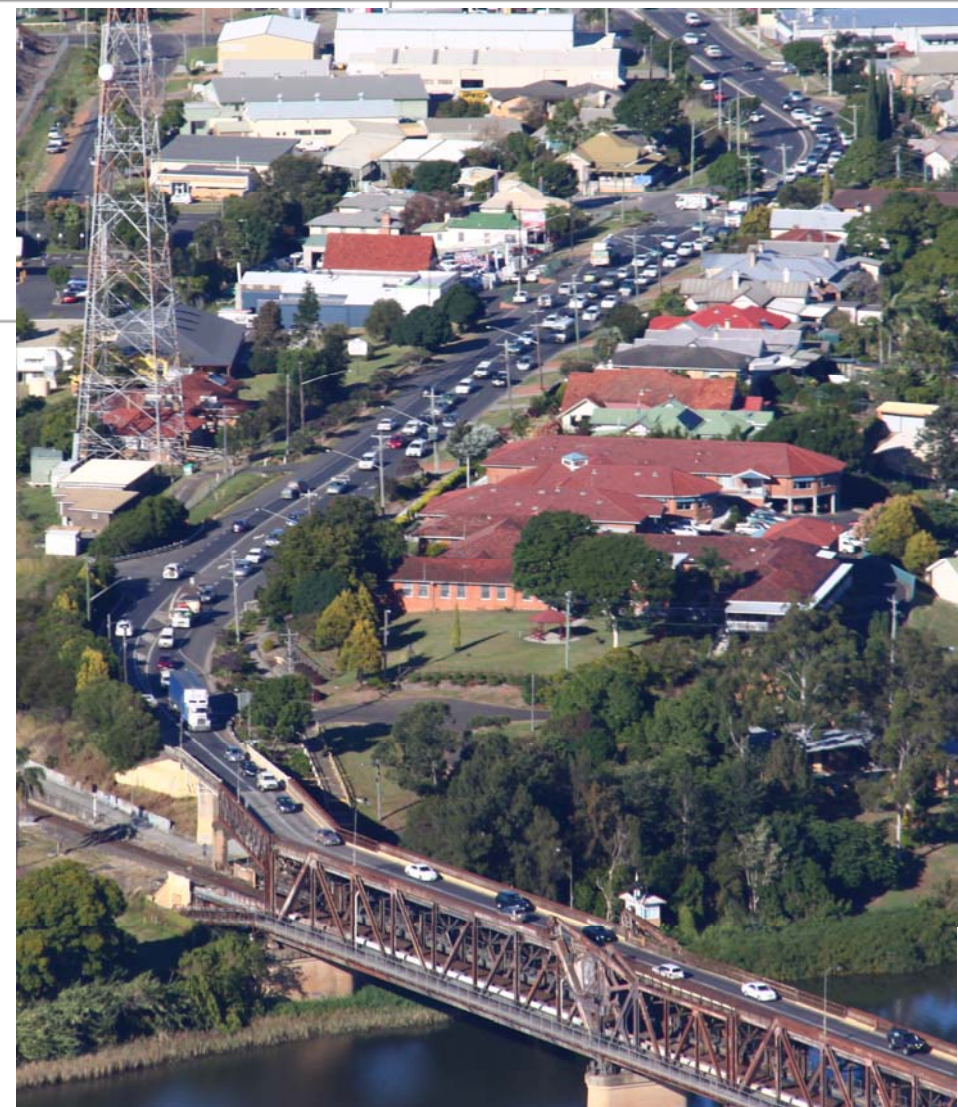


Transport  
Roads & Maritime  
Services

## Community and stakeholder evaluation workshop

### Grafton Community Centre

- 9am-4pm Friday 25 November 2011
- 9am-3pm Saturday 26 November 2011



# Welcome and introduction



Transport  
Roads & Maritime  
Services

- Welcome by Bob Higgins (BH)
  - Where are we now? (BH)
  - Short-listing process (BH)
  - Purpose of this workshop (BH)
-

# Welcome and introduction



Transport  
Roads & Maritime  
Services

- Administration (DW)
  - Agenda and breaks (DW)
  - Pre-reading and workshop materials (DW)
  - Role of project team and facilitator (DW)
-

# Community participants and stakeholder representatives



Transport  
Roads & Maritime  
Services

## ➤ Community participants (DW)

- Susan Hillery
- Matthew Pope
- David Graham
- Richard Green
- Greg Hayes
- Kim Dahl
- Neil Jameson
- Jayne Miller
  
- No nominations were received from Clarenza

## ➤ Stakeholder representatives (DW)

- ❑ David Morrison (Clarence Valley Council)
- ❑ Tim Jenkins (Clarence Valley Council)
- ❑ Jenny Johnson (Dept of Planning and Infrastructure)
- ❑ Phil Belletty (Grafton Chamber of Commerce and Industry)
- ❑ Brett Duroux (Grafton-Ngerrie LALC)
- ❑ Robert Blanchard (freight transport industry)
- ❑ Chris Webb (public transport industry)
  
- ❑ Representatives from the Local Emergency Management Committee and the Clarence Environment Centre were not available to attend
- ❑ A representative from the Summerland Way Promotional Committee declined the invitation to attend

- Information and feedback sessions (DW)
  - Community feedback received on the Preliminary Route Options Report – Parts 1&2 (DW)
-

# Workshop objectives and anticipated outcomes



Transport  
Roads & Maritime  
Services

## ➤ Workshop objectives (CC)

- ❑ Gain a shared understanding of which options provide the best balance across social, environmental, economic, engineering and cost issues

## ➤ Anticipated outcomes (CC)

- ❑ Identify the “best” option or options within each of the five corridors
  - ❑ Identify and record any issues or comments
-



# Project purpose



Transport  
Roads & Maritime  
Services

The project purpose is to identify an additional crossing of the Clarence River at Grafton to address short-term and long-term transport needs.

---



# Project objectives



Transport  
Roads & Maritime  
Services

- Enhance road safety for all road users over the length of the project
- Improve traffic efficiency between and within Grafton and South Grafton
- Provide value for money
- Minimise impact on the environment
- Support regional and local economic development
- Involve all stakeholders and consider their interests
  - ❑ Not used for assessment – considered a process objective and includes community involvement

# Supporting objectives and indicators



Transport  
Roads & Maritime  
Services

- The Supporting Objectives provide more detail on the project objectives
  - The Indicators provide an indication of how each option performs in achieving the objectives of the project
-

# Process to rank options within each corridor



Transport  
Roads & Maritime  
Services

5 step process to rank options within each corridor (cc):

- Step 1 - Review the results for each indicator.
  
  - Step 2 - For each supporting objective, score each option out of 10, where:
    - ❑ 10 is awarded to the best option in the corridor, and
    - ❑ The other options are scored relative to the best option.
-

# Scoring of options



Transport  
Roads & Maritime  
Services

<b>Performance compared to other options in the corridor</b>	<b>Suggested score</b>
Best option within a corridor:	10 / 10
Performs marginally worse than the best option in that corridor:	9 / 10
Performs a little/somewhat worse than the best option:	7–8 / 10
Performs substantially worse than the best option:	5 / 10
Performs very poorly compared to the best option:	2–3 / 10
Performs extremely poorly compared to the best option:	0 / 10

# Process to rank options within each corridor

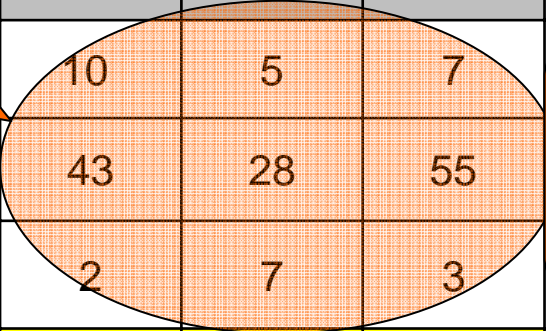


Transport  
Roads & Maritime  
Services

- Step 3 - For each project objective, consider the scores for all the supporting objectives, then rank the options in that corridor.
  - Step 4 - For each corridor, review the rankings for the project objectives and agree (where possible) on final option rankings.
  - Step 5 - Review final option rankings and agree on the best option(s) in that corridor.
-

SUPPORTING OBJECTIVE	INDICATORS	CORRIDOR XX			
	Indicator	Option X	Option Y	Option Z	Comments
<b>PROJECT OBJECTIVE 1</b>					
Supporting objective 1	Indicator 1	10	5	7	Comments recorded
	Indicator 2	43	28	55	
	Indicator 3	2	7	3	
	<b>SCORE for supporting objective 1</b>				
Supporting objective 2	Indicator 4	1	1	1	
	Indicator 5	3	4	8	
	<b>SCORE for supporting objective 2</b>				
<b>RANK FOR PROJECT OBJECTIVE 1</b>					
<b>RANK FOR PROJECT OBJECTIVE 2</b>					
<b>RANK FOR PROJECT OBJECTIVE 3</b>					
<b>RANK FOR PROJECT OBJECTIVE 4</b>					
<b>RANK FOR PROJECT OBJECTIVE 5</b>					
<b>OVERALL RANK FOR CORRIDOR XX</b>					

**Step 1 - Review the results for each indicator**



**Comments recorded**

SUPPORTING OBJECTIVE	INDICATORS		CORRIDOR XX			
	Indicator	Option X	Option Y	Option Z	Comments	
<b>PROJECT OBJECTIVE 1</b>						
Supporting objective 1	Indicator 1	10	5	7		
	Indicator 2	43	28	55		
	Indicator 3	2	7	3		
	<b>SCORE for supporting objective 1</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>Comments recorded</b>	
Supporting objective 2	Indicator 4	1	1	1		
	Indicator 5	3	4	8		
	<b>SCORE for supporting objective 2</b>					
<b>RANK FOR PROJECT OBJECTIVE 1</b>						
<b>RANK FOR PROJECT OBJECTIVE 2</b>						
<b>RANK FOR PROJECT OBJECTIVE 3</b>						
<b>RANK FOR PROJECT OBJECTIVE 4</b>						
<b>RANK FOR PROJECT OBJECTIVE 5</b>						
<b>OVERALL RANK FOR CORRIDOR XX</b>						

**Step 2 – For each supporting objective, score each option out of 10**

**A B C**

**Comments recorded**



SUPPORTING OBJECTIVE	INDICATORS	CORRIDOR XX			
	Indicator	Option X	Option Y	Option Z	Comments
<b>PROJECT OBJECTIVE 1</b>					
<b>Supporting objective 1</b>	Indicator 1	10	5		
	Indicator 2	43	28		
	Indicator 3	2	7		
	<b>SCORE for supporting objective 1</b>	<b>A</b>	<b>B</b>	<b>C</b>	
<b>Supporting objective 2</b>	Indicator 4	1	1		
	Indicator 5	3	4	8	
	<b>SCORE for supporting objective 2</b>	<b>E</b>	<b>F</b>	<b>G</b>	
<b>RANK FOR PROJECT OBJECTIVE 1</b>		<b>2</b>	<b>3</b>	<b>1</b>	<b>Comments recorded</b>
<b>RANK FOR PROJECT OBJECTIVE 2</b>					
<b>RANK FOR PROJECT OBJECTIVE 3</b>					
<b>RANK FOR PROJECT OBJECTIVE 4</b>					
<b>RANK FOR PROJECT OBJECTIVE 5</b>					
<b>OVERALL RANK FOR CORRIDOR XX</b>					

**Step 3 – For each project objective, rank the options in that corridor**

2 3 1

**Comments recorded**

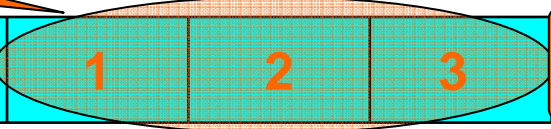
SUPPORTING OBJECTIVE	INDICATORS	CORRIDOR XX			
	Indicator	Option X	Option Y	Option Z	Comments
<b>PROJECT OBJECTIVE 1</b>					
<b>Supporting objective 1</b>	Indicator 1	10	5	7	
	Indicator 2	43	28	55	
	Indicator 3	2	7	3	
	<b>SCORE for supporting objective 1</b>	<b>A</b>	<b>B</b>	<b>C</b>	
<b>Supporting objective 2</b>	Indicator 4	1	1	1	
	Indicator 5	3	4	8	
	<b>SCORE for supporting objective 2</b>	<b>E</b>	<b>F</b>	<b>G</b>	
	<b>RANK FOR PROJECT OBJECTIVE 1</b>	<b>2</b>	<b>3</b>	<b>1</b>	
	<b>RANK FOR PROJECT OBJECTIVE 2</b>	<b>1</b>	<b>2</b>	<b>3</b>	
	<b>RANK FOR PROJECT OBJECTIVE 3</b>	<b>2</b>	<b>3</b>	<b>1</b>	
	<b>RANK FOR PROJECT OBJECTIVE 4</b>	<b>3</b>	<b>1</b>	<b>2</b>	
	<b>RANK FOR PROJECT OBJECTIVE 5</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>OVERALL RANK FOR CORRIDOR XX</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>Comments recorded</b>

**Step 4 – For each corridor, review the rankings for the project objectives and agree on final option rankings**



SUPPORTING OBJECTIVE	INDICATORS	CORRIDOR XX			
	Indicator	Option X	Option Y	Option Z	Comments
<b>PROJECT OBJECTIVE 1</b>					
<b>Supporting objective 1</b>	Indicator 1	10	5	7	
	Indicator 2	43	28	55	
	Indicator 3	2	7	3	
	<b>SCORE for supporting objective 1</b>	<b>A</b>	<b>B</b>	<b>C</b>	
<b>Supporting objective 2</b>	Indicator 4	1	1	1	
	Indicator 5	3	4	8	
	<b>SCORE for supporting objective 2</b>	<b>E</b>	<b>F</b>	<b>G</b>	
<b>RANK FOR PROJECT OBJECTIVE 1</b>		<b>2</b>	<b>3</b>	<b>1</b>	
<b>RANK FOR PROJECT OBJECTIVE 2</b>		<b>1</b>	<b>2</b>	<b>3</b>	
<b>RANK FOR PROJECT OBJECTIVE 3</b>		<b>2</b>	<b>3</b>	<b>1</b>	
<b>RANK FOR PROJECT OBJECTIVE 4</b>		<b>3</b>	<b>1</b>	<b>2</b>	
<b>RANK FOR PROJECT OBJECTIVE 5</b>		<b>1</b>	<b>2</b>	<b>3</b>	
<b>OVERALL RANK FOR CORRIDOR XX</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>Comments recorded</b>

**Step 5 – Review final option rankings and agree on the best option(s) in that corridor**



## ➤ Environment (CC):

- ❑ Residential amenity
  - ❑ Heritage:
    - Aboriginal
    - Non-Aboriginal heritage
  - ❑ Natural environment (native plants and animals)
  - ❑ Aesthetics
  - ❑ Flooding
  - ❑ Social environment
-

# Issues and constraints for each corridor



Transport  
Roads & Maritime  
Services

- Road safety
  - Traffic and transport efficiency
  - Regional and local economic development
  - Value for money
  
  - More detail to follow during evaluation process
-

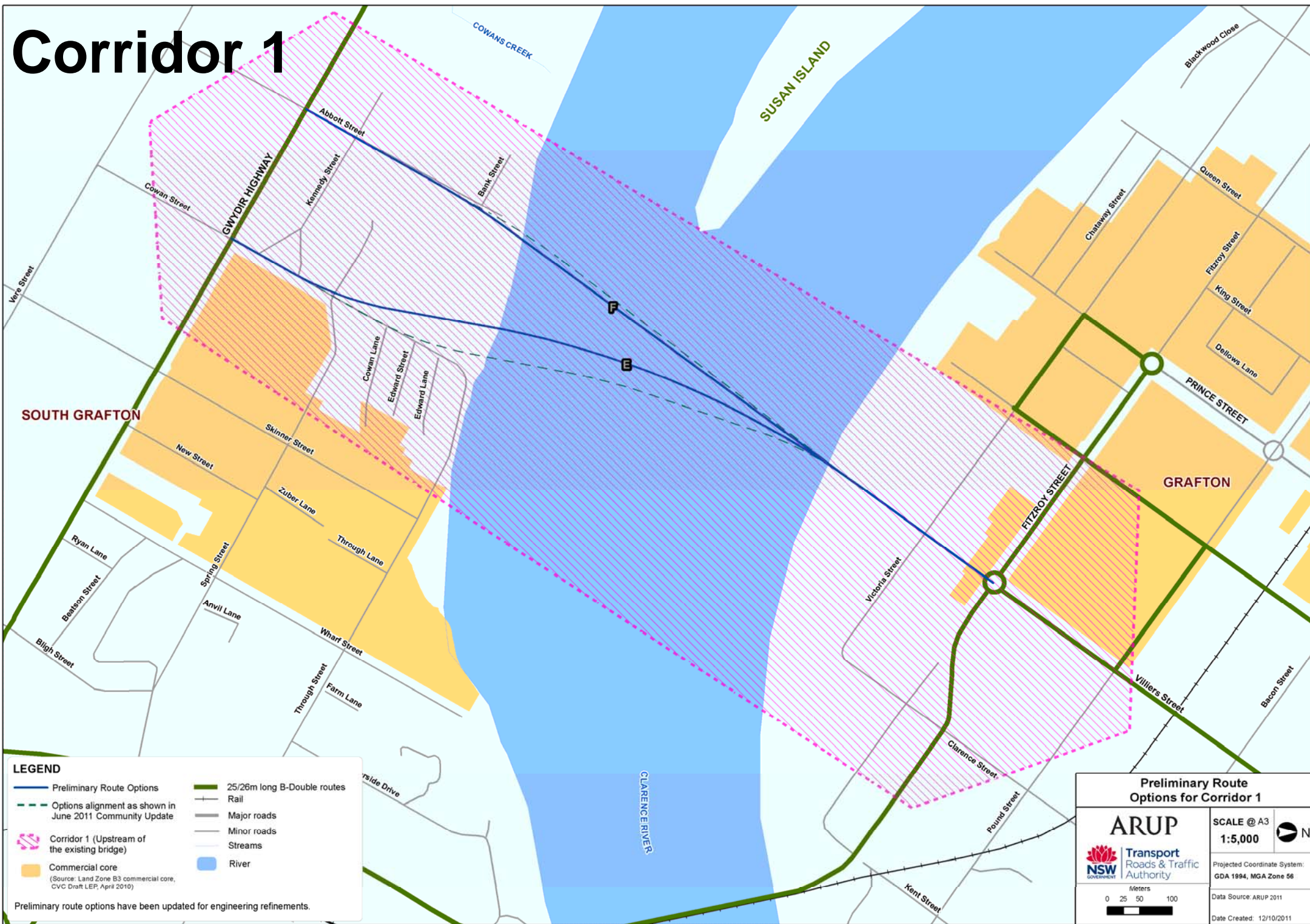


# Evaluation of options

---



# Corridor 1



**LEGEND**

- Preliminary Route Options
- - - Options alignment as shown in June 2011 Community Update
- ▨ Corridor 1 (Upstream of the existing bridge)
- ▨ Commercial core  
(Source: Land Zone B3 commercial core, CVC Draft LEP, April 2010)
- 25/26m long B-Double routes
- Rail
- Major roads
- Minor roads
- Streams
- River

Preliminary route options have been updated for engineering refinements.

**Preliminary Route Options for Corridor 1**

**ARUP**  
NSW GOVERNMENT Transport Roads & Traffic Authority

SCALE @ A3  
**1:5,000**

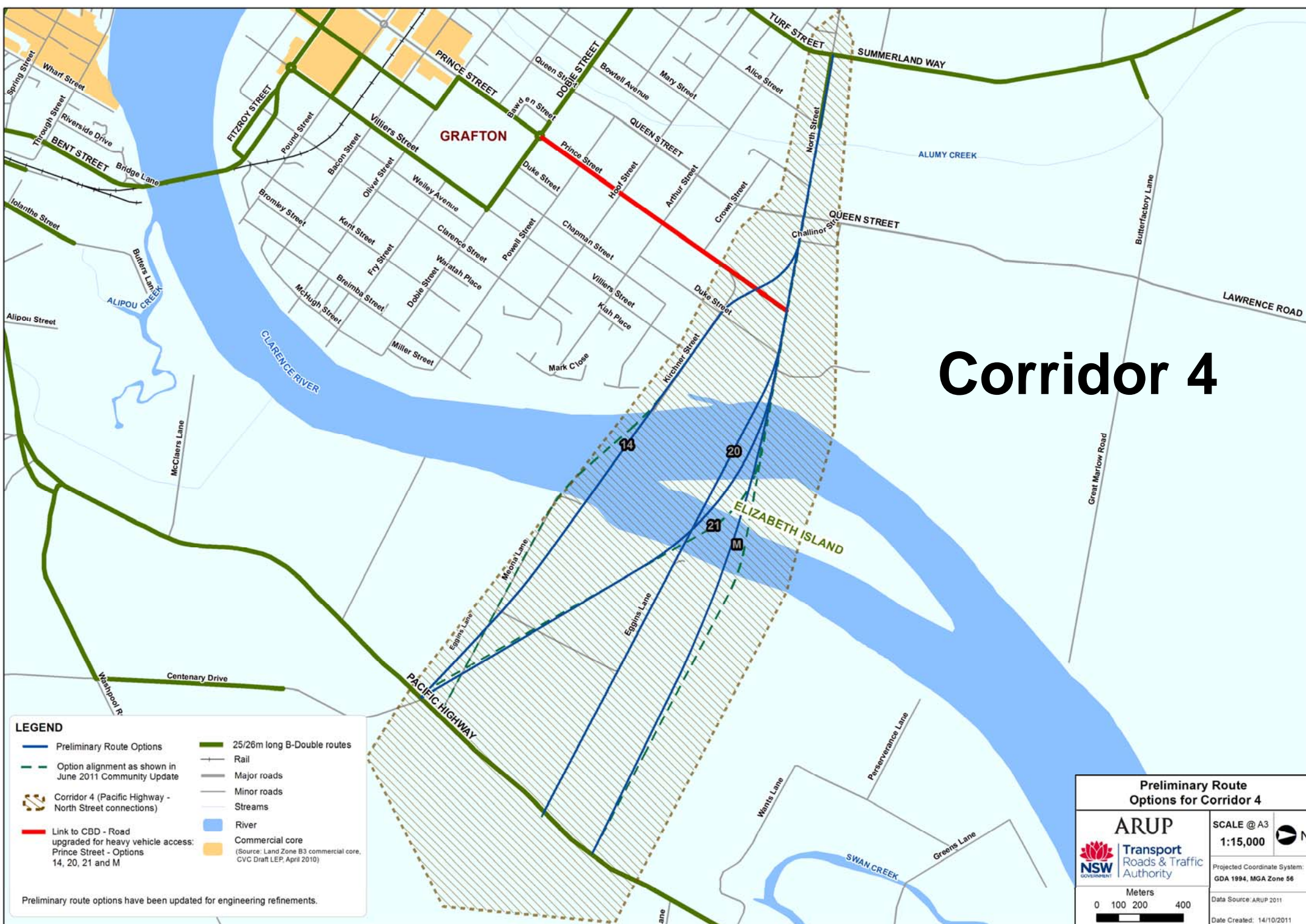
Projected Coordinate System:  
GDA 1994, MGA Zone 56

Meters  
0 25 50 100

Data Source: ARUP 2011  
Date Created: 12/10/2011



# Corridor 4



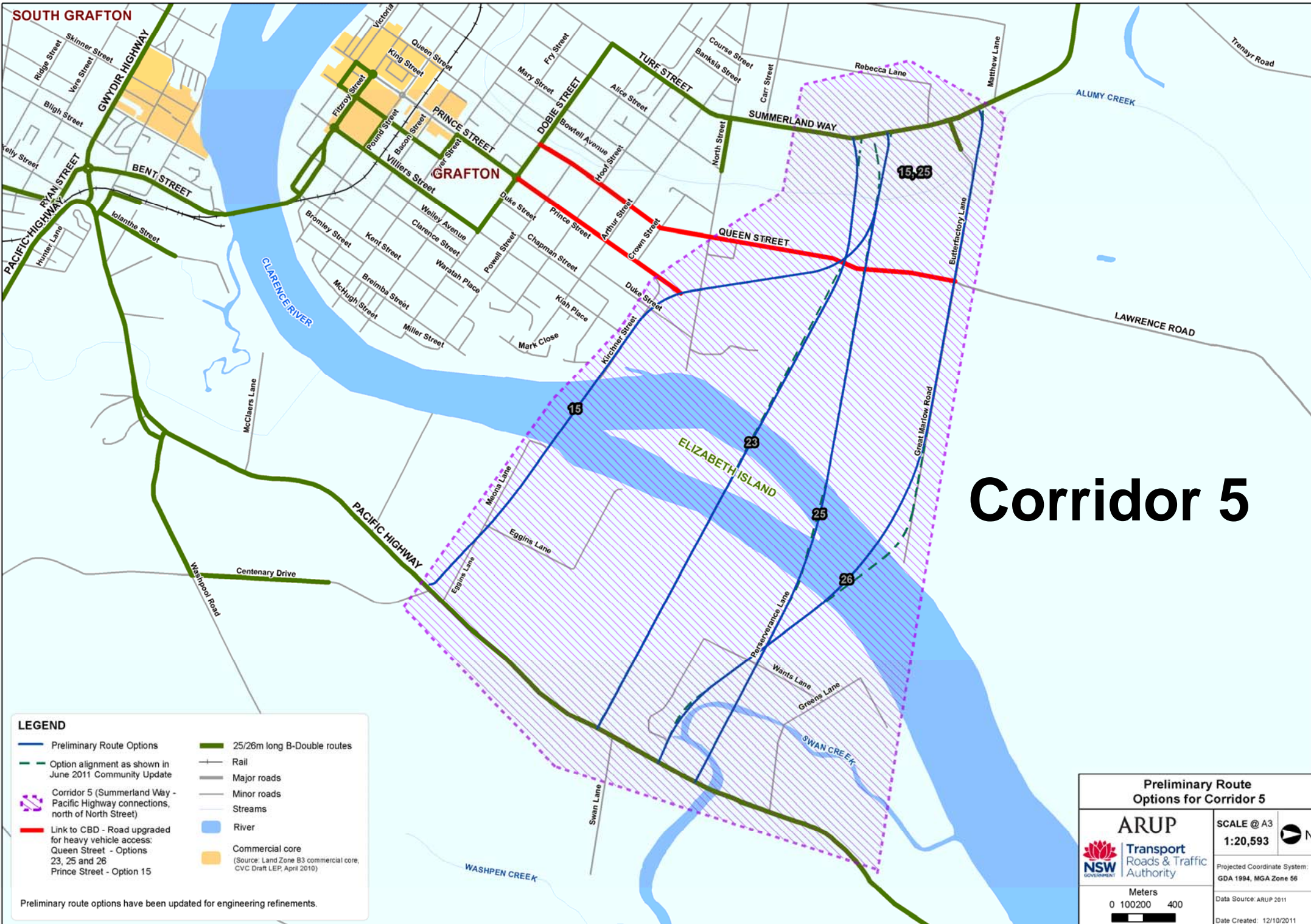
**LEGEND**

- Preliminary Route Options
- 25/26m long B-Double routes
- - - Option alignment as shown in June 2011 Community Update
- Corridor 4 (Pacific Highway - North Street connections)
- Link to CBD - Road upgraded for heavy vehicle access: Prince Street - Options 14, 20, 21 and M
- Rail
- Major roads
- Minor roads
- Streams
- River
- Commercial core (Source: Land Zone B3 commercial core, CVC Draft LEP, April 2010)

Preliminary route options have been updated for engineering refinements.

<b>Preliminary Route Options for Corridor 4</b>	
  <b>Transport Roads &amp; Traffic Authority</b>	<b>SCALE @ A3</b> <b>1:15,000</b>
<small>Projected Coordinate System: GDA 1994, MGA Zone 56</small>	
<small>Meters</small> 0 100 200 400	
<small>Data Source: ARUP 2011</small> <small>Date Created: 14/10/2011</small>	





# Corridor 5

**LEGEND**

- Preliminary Route Options
- 25/26m long B-Double routes
- - - Option alignment as shown in June 2011 Community Update
- Corridor 5 (Summerland Way - Pacific Highway connections, north of North Street)
- Link to CBD - Road upgraded for heavy vehicle access: Queen Street - Options 23, 25 and 26; Prince Street - Option 15
- Rail
- Major roads
- Minor roads
- Streams
- River
- Commercial core (Source: Land Zone B3 commercial core, CVC Draft LEP, April 2010)

Preliminary route options have been updated for engineering refinements.

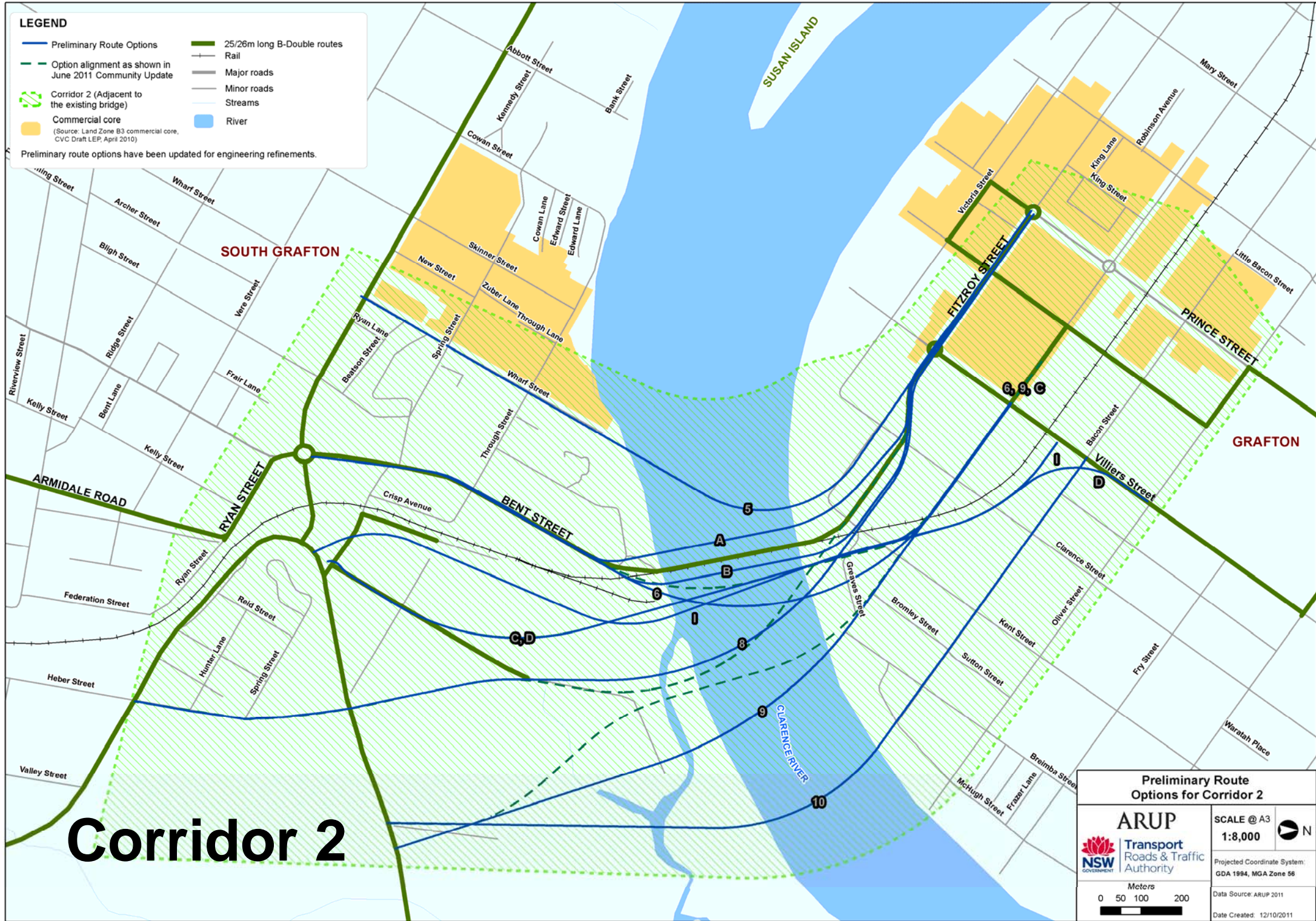
<b>Preliminary Route Options for Corridor 5</b>	
	<b>SCALE @ A3</b> <b>1:20,593</b>
 <b>Transport Roads &amp; Traffic Authority</b>	
<small>Projected Coordinate System: GDA 1994, MGA Zone 56</small>	
<small>Meters 0 100200 400</small>	
<small>Data Source: ARUP 2011 Date Created: 12/10/2011</small>	





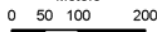
**LEGEND**

- Preliminary Route Options
- 25/26m long B-Double routes
- - - Option alignment as shown in June 2011 Community Update
- - - Corridor 2 (Adjacent to the existing bridge)
- Commercial core  
(Source: Land Zone B3 commercial core, CVC Draft LEP, April 2010)
- Rail
- Major roads
- Minor roads
- Streams
- River

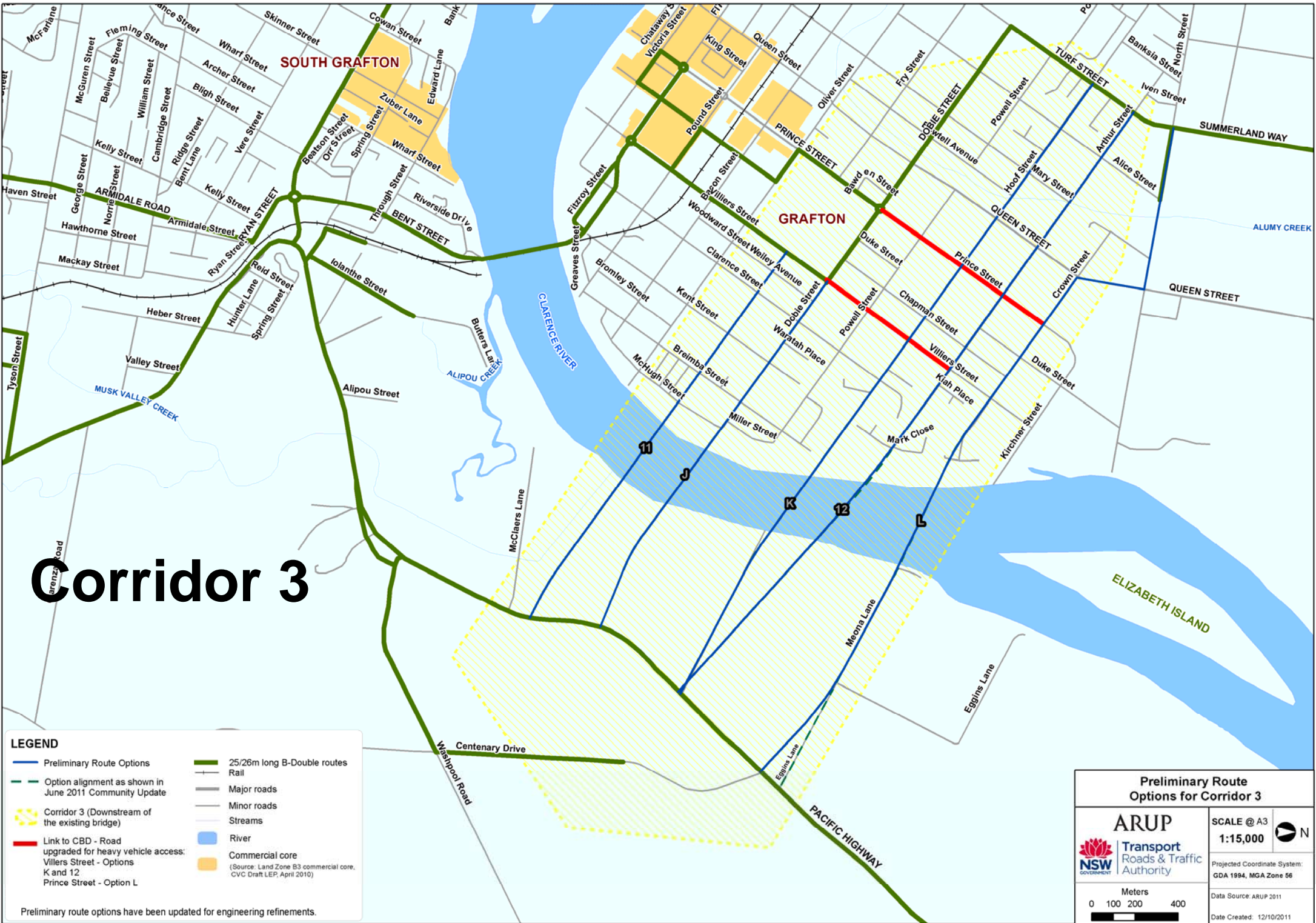
Preliminary route options have been updated for engineering refinements.



# Corridor 2

<b>Preliminary Route Options for Corridor 2</b>	
 <b>ARUP</b> Transport Roads & Traffic Authority	SCALE @ A3 <b>1:8,000</b> 
Projected Coordinate System: GDA 1994, MGA Zone 56	
Meters 0 50 100 200 	
<small>Data Source: ARUP 2011 Date Created: 12/10/2011</small>	





# Corridor 3

**LEGEND**

- Preliminary Route Options
- 25/26m long B-Double routes
- Option alignment as shown in June 2011 Community Update
- Rail
- Major roads
- Minor roads
- ▨ Corridor 3 (Downstream of the existing bridge)
- Streams
- River
- Link to CBD - Road upgraded for heavy vehicle access: Villiers Street - Options K and 12; Prince Street - Option L
- ▨ Commercial core (Source: Land Zone B3 commercial core, CVC Draft LEP, April 2010)

Preliminary route options have been updated for engineering refinements.

**Preliminary Route Options for Corridor 3**

ARUP  
Transport  
Roads & Traffic  
Authority

SCALE @ A3  
**1:15,000**

Projected Coordinate System:  
GDA 1994, MGA Zone 56

Data Source: ARUP 2011

Date Created: 12/10/2011

Meters

0 100 200 400