

RIVERSIDE EXPRESSWAY RECONSIDERED

- **NORTH BANK**
- TRANSPORTATION PLANNING IN BRISBANE
- 3 BRISBANE TRANSPORTATION PLAN 1965
- 4 IMPLEMENTATION OF THE PLAN: Stage 1 5 IS THE RIVERSIDE EXPRESSWAY SIGNIFICANT?





Multiplex (now Brookfield Multiplex) schemes

November 2007 Revised Scheme



BMX November 2007 Scheme – River Elevation



north bank

NORTH BANK 2001-2008

Cox Rayner Developed Design 2007 Plan and River Elevation

Media Release



12 September 2008

Speak Up on North Bank - before it's too late.

The National Trust is strongly urging Queenslanders to speak up on North Bank before public comments close on 24 September 2008.

President of the National Trust John Jackson said "The public is still confused and concerned about the North Bank process and is not supporting large commercial development in the Brisbane River."



Enhancing Heritage

Could North Bank become 'The Rocks' of Brisbane?

Extensive interpretation of history, great public spaces framed by

historic buildings, sensitive subservient new development, places to sit, eat and drink, art and sculpture, markets and events, and a place of boats and waterfront activity.









National Trust: *Press Release* 12.9.2008 North Bank: *Enquiry by Design* June 2008

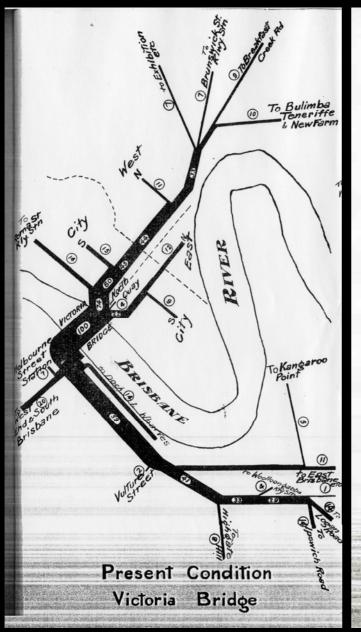


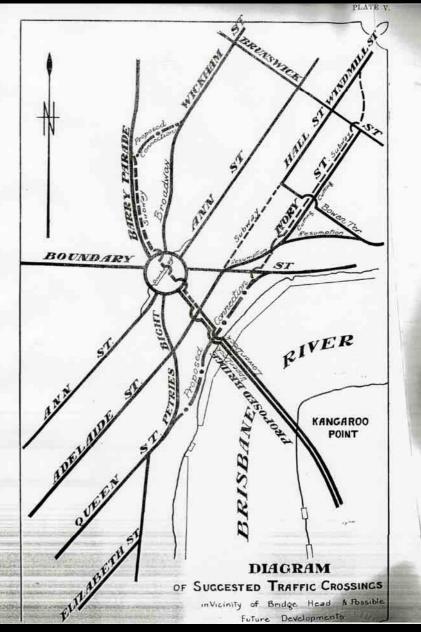


1920	Main Roads Board
1932	Bureau of Industry: Roads, Mining and General Works Committee
1938	Co-ordinator General

Brisbane CBD Transportation Planning

1925-1926	Cross River Commission
	Grey Street and Kangaroo Point Bridges
1944-45	Brisbane Congestion Study
	Eastern Bypass/Petrie Bight viaduct
	1947-1950 Tram Undergrounding
1957	BCC Proposals for CBD
	Viaducts to Town and South Brisbane River Reaches
1958	BCC/State Traffic Commission Study
	Inner Ring road/Viaducts to both Reaches
1965	Brisbane Transportation Plan: Wilbur Smith & Associates
	Riverside and Petrie Bight Expressways
	Victoria and Captain Cook Bridges
	1966 Lower Brisbane River Study, etc.
	1968- Brisbane Public Transportation Plan





Cross River Commission 1926: Present condition: Victoria Bridge

WINNING SUGGESTIONS FOR USEFUL IDEAS TO GO TO CITY PLANNERS

DEAS put forward by readers who sent in traffic competition are being taken into account by the City Council planning committee in the comprehensive city plan, now under way.

The ideas include extension of tunnels, building of viaducts, re-routing of trams, and subreays for pedestrians. Most of them go much Jurther ofield than the Petrie Bight problem.

Few of the entrants were able to offer suggestions for practical improvement upon the sectional Petria Bight plan already designed by the council's experts.

At the request of the Vice-Mayor (Ald. W. R. Moon) The Courier-Mail is handing the entries over to the City Council for further study by its planning and transport

Analysis of the entries fina provided a most interesting survey of Brisbane's traffic

difficulties.

The entries were submitted to a number of traffic experts, who had contained the most thromaling and metical suggestions. These were committee of City Council planting and framport experts and a Control Mail representative.

Prize Winners

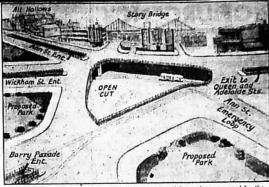
The five winners of the guinea start offered by The Courier-

Mr. G. H. Welber, "Thirimere," Turagindi Road, Tarragindi taes seigni.

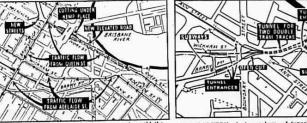
gengn).
Mr. E. V. Appleton, Meredith
first, Banro isee Gesign).
Mr. N. J. Beden, 154 Virginia
Areast, Hawthorns (see design).

Aston. Hawthorne ties designi.
Mr. J. Krars, Relvedere Hotel,
Woods Point—He songessa underground trams from Creek Hireto He vider and Contensary Park,
Comment A. well inought outthough it is doubtful whether an
endermond fram marthalling
and sould ered free. A Parine

Mr W. Blair Gray, 64 Payne fired Turwood. - Ills scheme abouts a system of viadveta



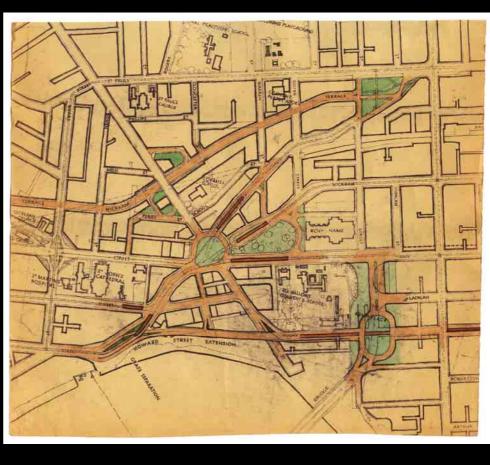
SKETCH of the Petrie Bight traffic solution prepared from plans proposed by the City Council Officers' Planning Committee. It was for constructive criticism or suggestions regarding this plan that The Courier-Mail competition was held.

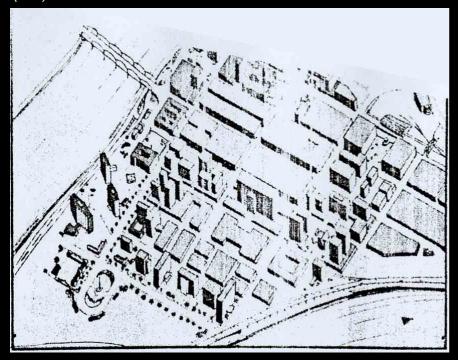


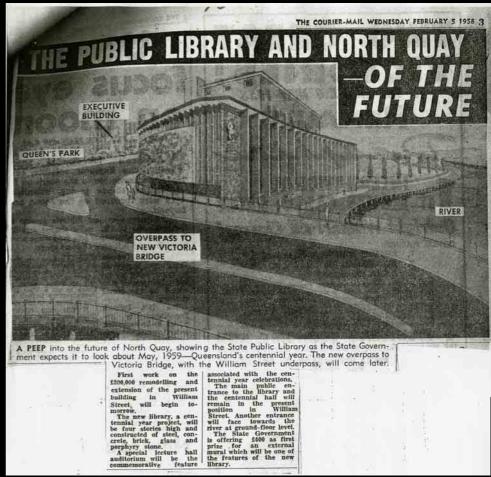
MR. WALKER'S plan re-routes trams so as to avoid the bight, and provides for construction of a viaduct and road extension from the Customs House to Brunswick Street, forming a tunnel under Kemp Place, Comment: He does not provide for passengers desiring to go to intermediate points, Also, a junction is still necessary to handle













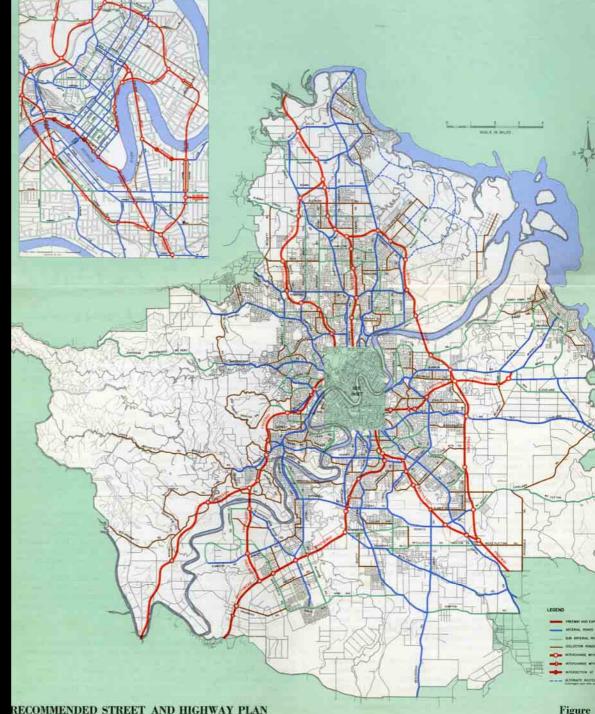
Detail of CBD



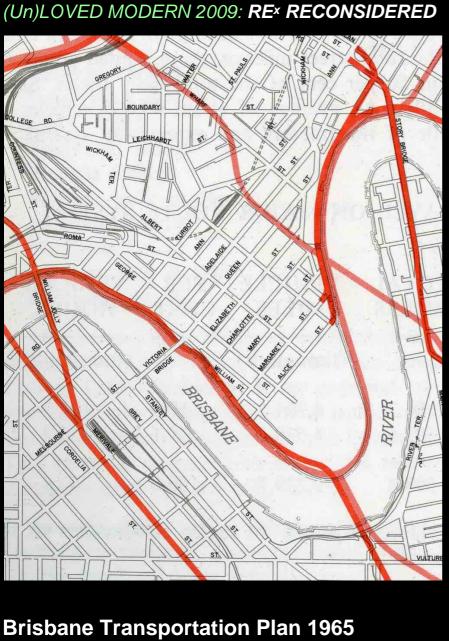
Brisbane City Council

Technical Planning Co-ordinating Committee: Roads of Major Importance September 1963

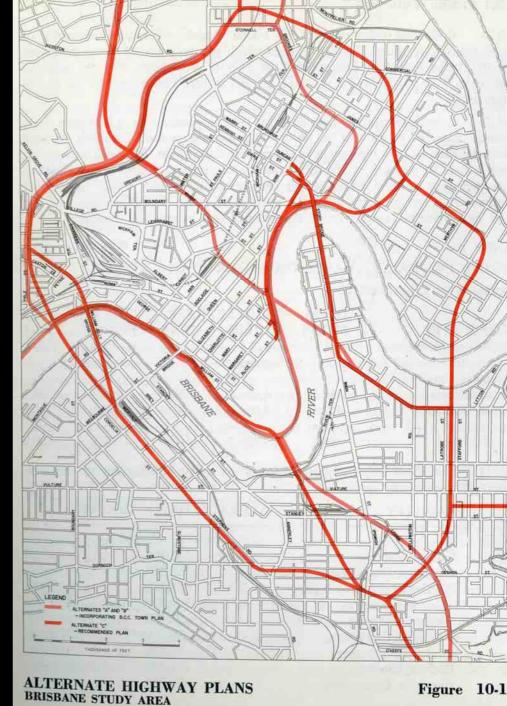


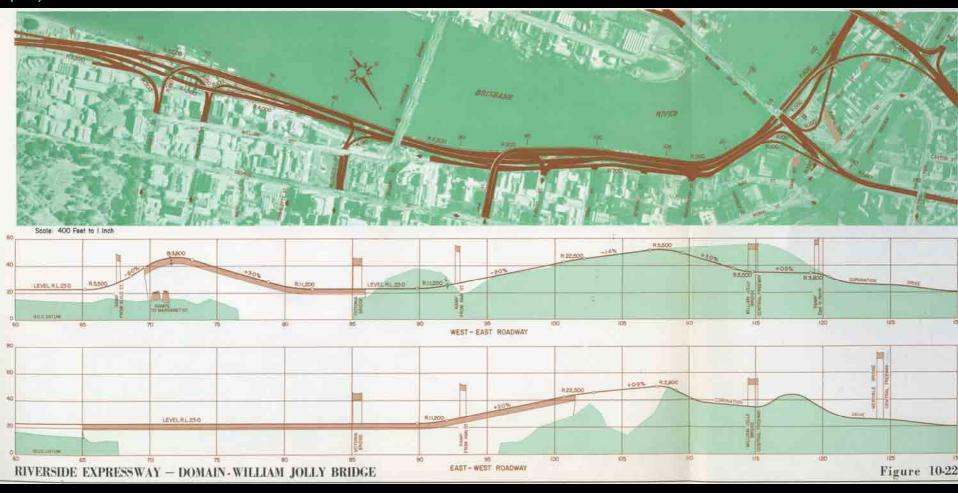


Brisbane Transportation Plan 1965 Street and Highway Plan

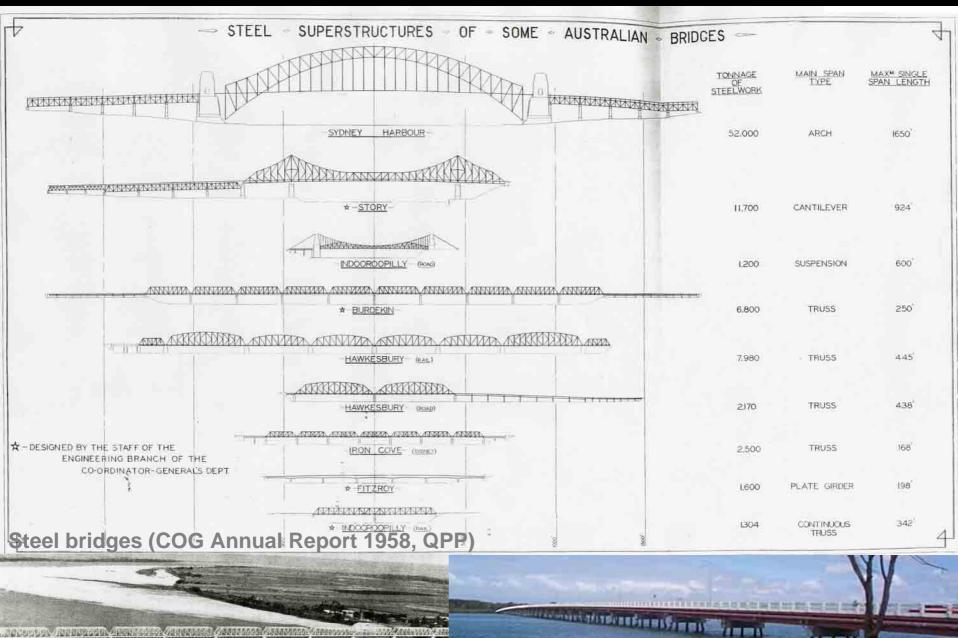


Brisbane Transportation Plan 1965
Alternate Highway Plans
(red) Wilbur Smith & Assoc 1965
(pink) Brisbane City Council 1963





Wilbur Smith & Assoc: *Brisbane Transportation Plan*, 1965 Riverside Expressway: Domain to William Jolly Bridge



Burdekin Bridge (COG Report 1958, QPP)

Bribie Island Bridge 1963

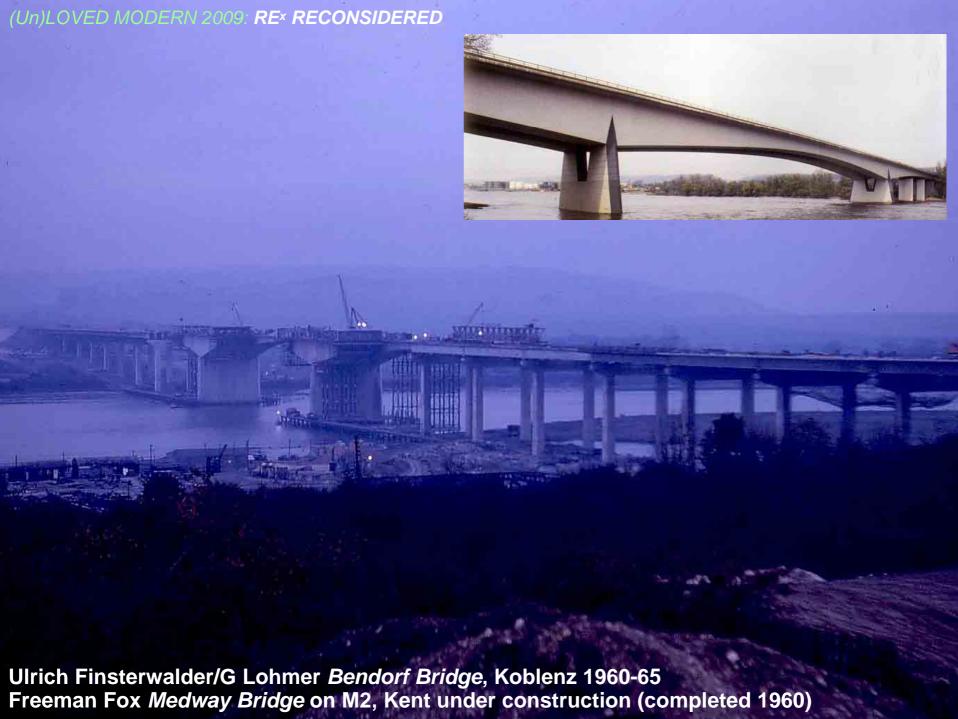




Rendel Palmer & Tritton (E Buckton/J Cueral)

Waterloo Bridge, London 1942-45

Victoria Bridge/underpass 1954 (Telegraph 18.9.1963)

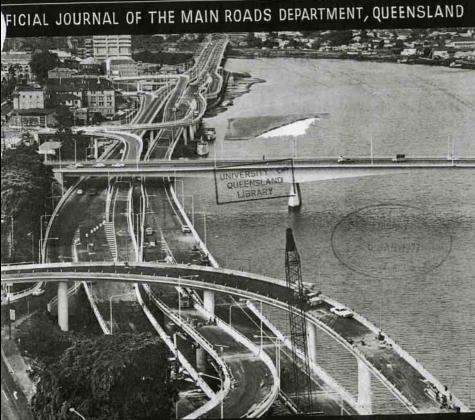




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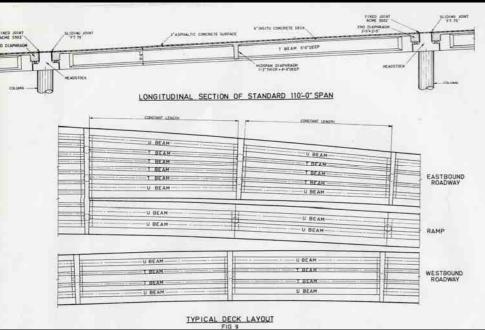
VOL. 15, No. 30

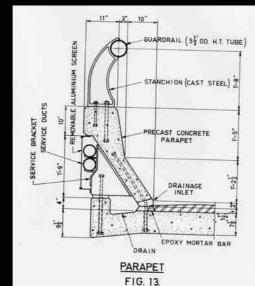


DECEMBER, 1976

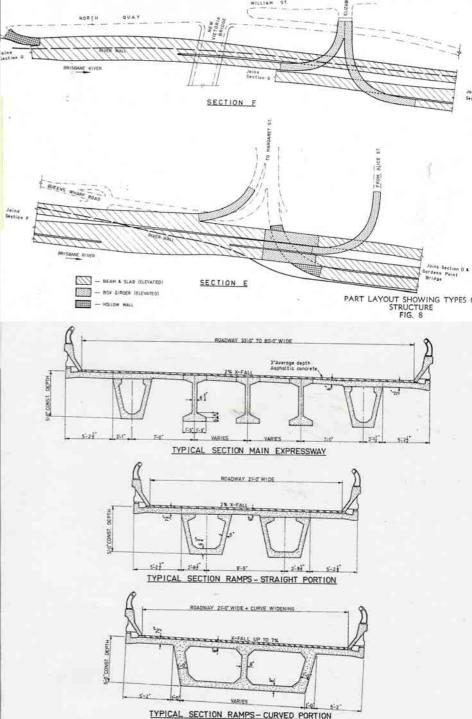
VOL. 13, No. 25

JUNE, 1974



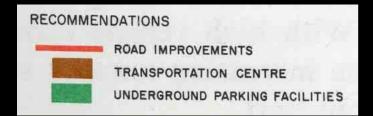


Co-ordinator-General's Department Riverside Expressway



Has RE^x cultural heritage significance? Does it meet criteria for inclusion in the Queensland Heritage Register?

- Is RE^x important in demonstrating the evolution of Qld's history?
- Does RE^x demonstrate rare or uncommon aspects of Qld's history?
- Is RE^x important in demonstrating the principal characteristics of freeways?
- Is RE^x important for its aesthetic significance?
- Has RE^x a high degree of creative achievement?
- (a) (b) (d) (e) (f) (g) Has RE^x a strong association with a community/cultural group?
- (h) Has a special association with the work of a particular person or organisation?

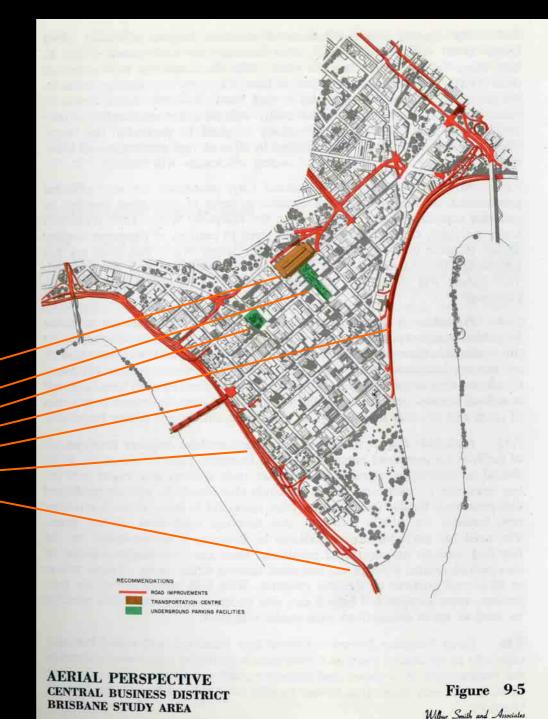


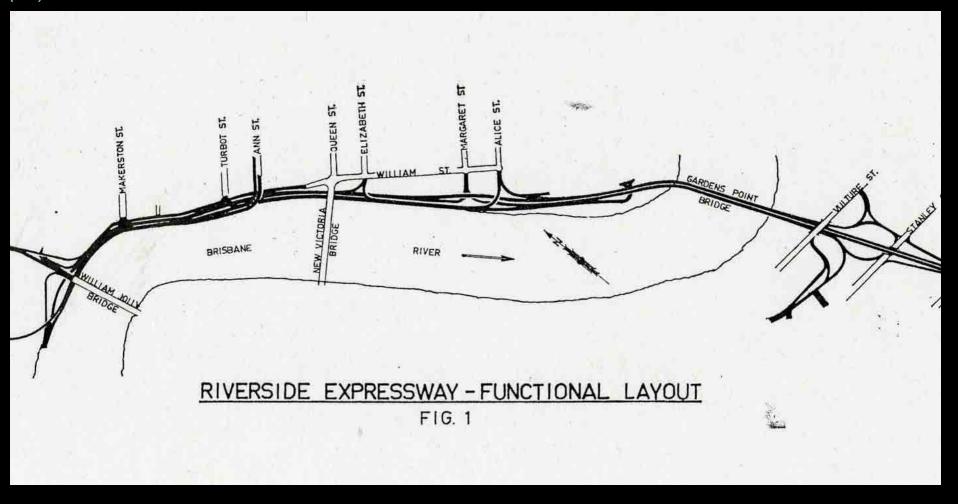
Wilbur Smith & Assoc. *Brisbane Transportation Plan* 1965

Central Business District

Central Station: Transportation
Terminal
Anzac/PO Square Car Park
King George Square Car Park
Petrie Bight Expressway
Victoria Bridge
Riverside Expressway
Captain Cook Bridge

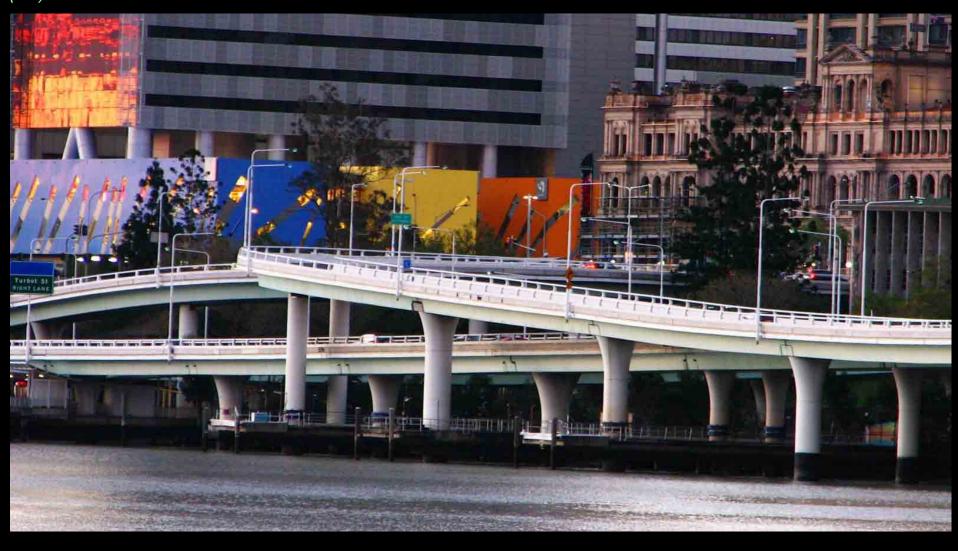
(a) Is RE^x important in demonstrating the evolution of Qld's history?



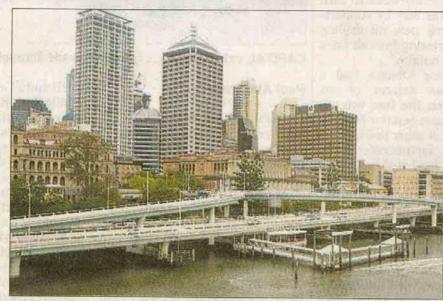


COG: Revised layout of Riverside Expressway -1967

- (b) Does RE^x demonstrate rare or uncommon aspects of Qld's history?(d) Is RE^x important in demonstrating the principal characteristics of freeways?



- (g) Has RE^x a strong association with a community/cultural group?
 (f) Has RE^x a high degree of creative achievement?
 (e) Is RE^x important for its aesthetic significance?



NORTH Bank ... improve a wonderful aspect of Brisbane.

Sculpt a brighter view

WHEN valuing the landmarks of Brisbane (The Big Picture, C-M June 21-22), we need to ask "If there was a severe earthquake tomorrow and buildings/places were destroyed, which ones would we really be sorry to lose?

We have lived overseas and travelled extensively in many countries and visited and walked in many cities.

One of the highlights of Brisbane is the North Bank precinct, especially when seen from South Bank. Looking on to the ribbons of freeway with the green underneath and the open view across the old Treasury building and into

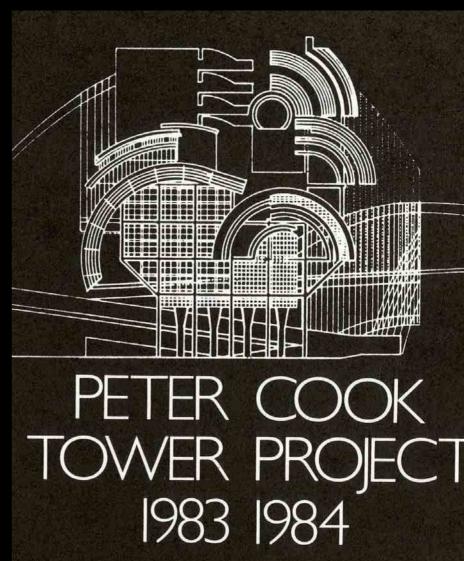
the city is unique, even worth a photo.

This open view into the city, when driving across the Captain Cook Bridge is also quite spectacular; night or day.

Please keep the North Bank profile as it is, while enhancing the neglected space below the freeway. The city belongs to all of us.

Commission some sculptures, or alternatively organise a yearly sculpture exhibition along the river from Eagle St to the William Jolly Bridge like the one held yearly along Sydney's southern beaches cliff walk.

John and Beryl Holmes, St Lucia



Ray Hughes Gallery June 15-July 5 1984



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Registered in Australia for Transmission by Fost as a Periodical.

(To be presented at a Civil Engineering Branch Meeting of Queensland Division at the Hawken Auditorium, Brisbane, on 5th December, 1969).

"DESIGN OF CURVED BRIDGES"

H. G. BRAMELD, B.E., M.I.E. Aust., and J. GRALTON, B.E., M.I.E. Aust.

= Radius of curve

G

Ut

Uf

ds

= Shear Modulus = Youngs Modulus

= St. Venant torsion constant

= Torsion-bending constant

= Span length = Total strain

L = Strain energy due to bending Ub

= Strain energy due to torsion = Strain energy due to shear

= Second moment of area about the natural axis

= Length of element around curve

= angle of arc 0

= deflection (rotation) at point b

δ_b Mx = Bending moment at point x = Torsion moment at point x Tx

= Shear at point x Fx Wd

= Uniform distributed load per unit length

= Minimum compressive strength of concrete at 28 days F'c

= Average force in tendon over length Lc Tc = Length of tendon curved in elevation

= Angle change of tendon in elevation



QUEENSLAND DIVISION TECHNICAL PAPERS

UNIVE (PRE-PRINTS)

Vol. 10

SEPTEMBER

No. 13

Registered in Australia for Transmission by Post as a Perio Compression of the compression o

To be presented at a Civil Engineering Branch Meeting of Queensland Division at the Hawken Auditorium, Brisbane on 26th September, 1969).

THE NEW VICTORIA BRIDGE

H. G. BRAMELD, B.E., M.I.E. (Aust.)

(Chief Structural Design Engineer, Co-ordinator-General's Department)

and

A. CONTESSA, B.E., M.I.E. (Aust.)

(Executive Engineer, Co-ordinator-General's Department)

SUMMARY: This paper describes the design and such parts of construction as affect the design of the New Victoria Bridge, Brisbane.

INTRODUCTION

Historical

Queen Street, Brisbane, ends at the river in a rocky bluff so inviting to bridge builders that already three and a half bridges have occupied the site, and as far back as 1843 people were ferried across in open boats, and vehicles in flat top punts.

The first bridge, of wrought iron, was commissioned in 1864, but a temporary timber bridge, built as a staging for the iron bridge, was completed and opened for traffic in 1865 thus becoming the first bridge at the site. Within two years this structure had been severely damaged by borers and half of the framework collapsed in 1867 Financial troubles caused delays and a flood in 1873 wrecked the temporary timber bridge and damaged the unfinished iron bridge.

The permanent bridge, constructed of wrought iron lattice girders, and made of eleven fixed spans and a double swing span had a total length of 1,008 ft. between abutments. It was finished in

RE^x: Creative and technical significance?

Prestressed Concrete Box-Girder: Bridges

Ulrich Finsterwalder

Bendorf Bridge, Rhine River, 1964: max span 208m

Culmination of development of prestressed concrete bridges in Germany

Co-ordinator-General/Main Roads Department

(HG Brameld/A.Contessa/S McIntosh) Victoria Bridge, 1969: max span: 142m (466'8")

(HG Brameld/A Contessa) Captain Cook Bridge 1972: max span: 183m

(J Gralton/J Fenwick) New Farm Bridge (not built): max span: 215m

Horizontal curve of 2,300m radius/longer thinner, wider

(J Gralton/JA Hart: official design – not built) Gateway Bridge: max span: 260m

Balanced cantilever spans as inverted "T", strutted cantilevers

Pioneering fin back bridge

Macdonald Wagner & Priddle/VSL(contract design): Gateway Bridge, 1985: max span: 260m

Longest concrete box girder bridge in the world 1985-1998

