



BRIDGING OF KINGS AVENUE OVER PARKES WAY AT THE RUSSELL ROUNDABOUT, CANBERRA, AC.T.

Parliamentary Standing Committee on Public Works

Public Hearing Parliament House, Canberra

6 August 2008

Professor James Weirick, President Walter Burley Griffin Society Inc. 140 Edinburgh Road Castlecrag, NSW 2068

Supplementary Submission No. 6. 0 0 (Bridging of Kings Ave.)



NCA, Griffin Legacy, 2004, p.45 (detail)

Griffin Plan 1913



NCA, Griffin Legacy, 2004, pp.110-111

Griffin Plan 1918

2004 streets overlaid on Griffin Plan 1918



Paul Reid, Canberra following Griffin, 2002, p.269

National Capital Development Commission, Parkes Way, 1958-1963



NCA, Griffin Legacy, 2004, p.176

NCA Central National Area Redevelopment, 2004 to date



Maunsell AECOM, Griffin Legacy Implementation Traffic Analysis, 2006, p.2, 14

NCA Central National Area Redevelopment, 2031

 Commercial GFA
 934,000 sq m

 Residential GFA
 675,000 sq m

 Other
 236,000 sq m

 Total
 1,845,000 sq m



Maunsell AECOM, Griffin Legacy Implementation Traffic Analysis, 2006, p.2, 14

Constitution Avenue East & West Redevelopment, 2031

 Commercial GFA
 613,000 sq m

 Residential GFA
 343,000 sq m

 Other
 73,000 sq m

 Total
 1,029,000 sq m





NCA, Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.9

NCA Central National Area Redevelopment



Principal Entry Points to Civic



Civic - Canberra Airport Connection



Canberra Airport Roads Upgrade, 2006 to date

Canberra Airport Roads Working Group, Report, 2006, p.6

Stage One – Changes

Stage Two - Changes



NCA, SoE, p.22 overlaid on Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.16

NCA Central National Area Redevelopment





NCA, Griffin Legacy, 2004, p.176

NCA Central National Area Redevelopment, 2004









Fig. 1. Number of road traffic crash fatalities per 100000 population: Australia, states and territories, 2003.



Fig. 2. Total cost per capita (AUD, 2003) of road traffic crashes: Australia, states and territories.

Canberra - higher motor vehicle use and markedly lower accident rate than the rest of Australia

Data	ACT	Aust	Source
		Average	
Total Registrations of Passenger Vehicles per 000 population	524	499	ABS: Survey of Motor Vehicle Use. Cat:9208.0. 2000
Average Kilometres per vehicle per annum.	16,200	14,300	ABS: Survey of Motor Vehicle Use. Cat:9208.0. 2000

Motor Vehicle Registrations and Kilometres Travelled. 200	0
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ACT PALM, Sustainable Transport for the ACT: an issues paper, 2003, p.10



NCPA, Draft Russell Master Plan Explanatory Report, 1994, p.2

NCPA Russell Master Plan 1994



Russell Defence Precinct 2008



NCA, Amendment 60 NCP: Constitution Avenue, 2006, p.16

Image © 2008 Google 149"08'54.01"

NCA Russell Master Plan 2006

Russell Defence Precinct 2008



JSCNET, Report: Draft Amendment no.12 (Russell) of the National Capital Plan, 1995, p.27

NCPA 1994 Traffic Flow Estimates, Russell – Canberra Airport, AM Peak, 2016

Figure 3.1 Traffic flow estimates 2016

JSCNET, Report: DA.12 (Russell) National Capital Plan, 1995, p.27

SMEC, Pialligo Avenue Duplication Modelling Study, Draft Report, 2006, Appendix C



1994 AM Peak Estimate for 2016

2006 AM Peak Traffic Count

eastward flow on Morshead Drive - 327% increase on 1994 estimate







4.0 STATEMENT OF MUTUAL BENEFITS

- 4.1 The *Griffin Legacy* Propositions and Strategic Initiatives deliver benefits to the Commonwealth Government, ACT Government and the Canberra community including:
 - (a) increased land value with a high rate of return on public investment to both the Australian and ACT Governments (a catalyst for economic and community growth in the Territory);
 - (b) focused growth along the Constitution Avenue corridor, consolidating the 'great triangle' with people and commerce, and delivering a compact and vibrant city with a more efficient use of existing infrastructure;
 - (c) reinforcing City Hill as the heart of the City and as an important ceremonial space for the capital;
 - (d) extending the city to the lake at West Basin to create a new urban waterfront esplanade to celebrate our nation's diversity and to link the National Museum to the city and Parliamentary areas; and
 - (e) making Russell Defence Headquarters more secure through rationalising land management and consolidation of control of civil infrastructure.



Maunsell ALCOM, Grittin Legacy Implementation Irattic Analysis, 2006, p.2, 14

NCA Central National Area Redevelopment – Trunk Infrastructure

Kings Avenue Overpass	26.6 million
Constitution Avenue Duplication	46.5 million
West Basin Landfill/Reclamation	?
Corranderk St Roundabout Recon	ist. ?
Constitution Avenue Overpass	?
400m wide Landbridge, Acton	?
Total	\$100 - \$150 million





T. Powell, Civic, The Living City, 2005, p.34

JSCNET, *Report: DA12 NCP*, 2005, p.107

NCA Central National Area Redevelopment - National Land



NCA, Amendment 60 NCP: Constitution Avenue, 2006, p.4

Territory land not a Designated Area

National Capital Use

Adjoining Central National

Adjoining Central National

Open Space Designated Areas

Land Use A

Open Space

Map Areas

Road

NCA Central National Area Redevelopment - Land Use Zoning

CONSTITUTION EAST - PARKES

URBAN DESIGN GUIDELINES

Detailed conditions of planning design and development in accordance with the National Capital Plan.

These guildelines are consistent with The Griffin Legacy -Canberra the Nation's Capital in the 21st Century.



allan Government al Capital Authority Version 3 - 11 May 2008



AERIAL PHOTOGRAPH (April 2004)

- Reinforce and enhance the geometry of Constitution Avenue and Parkee Way with appropriate built form.
- Contribute to the national significance of Constitution Avenue's at the base of the 'Great Triangle' as a silverse and softwe high street' of the oby.
- Develop Constitution Avenue and Parkes Wey as a prestigious setting for retional capital uses, related employment and amenifies.
- Reinforce the 3 dimensional structure based on the City's topography and the landscape containment of the inner hills.
- Ensure off-site intrastructure capacity supports proposed and projected development (up to 7,000 in Constitution East precinct).
- Maximise development opportunities for Constitution East by establishing a robust subchriston pattern that allows for staged development and growth.
- Ensure conveniently located parking in a manner that does not dominate the public domain.
- Integrate perimeter socurity with structurage elements that anhance the public domain.
- 8. Ensure pedestrian accessibility to Lake Burley Griffin and Kings Park.
- 10.Piteimise impacts to the heritage values of the adjacent Commonwealth Heritage Mad Parliament riskae Visita, particularly the aeditedic values for the Visita which notes to the dealayed asso and within natural flataments of finanzia his, partierts and instances of architectural massing accommutated by planned open spaces, water planes and tree planning that are amonged accounts the area".
- 11.Pinimise the visual impact of new building development on the important parklands identified as part of the Commonwealth Heritage Isting for the Parkament House Vista, in particular Kinga Park.

OBJECTIVES





LANDSCAPE



PEDESTRIAN CONNECTIONS TO KINGS PARK



ACTIVE FRONTAGES



SITE AND EMPLOYMENT CAPACITY





HIERARCHY OF ADDRESS

Back.	Area (m2)	GFA 41 (m2)	GFA 8.1 (HZ)	Empiny 1 8 1/20m3 (IDFA 4.1) 500 1060
Antes Furk East		H0,000		
	8,300 (000704)	21,200	31,800	
1	8,180	12,800	18,900	630
3	1.300	5,200	7,800	190
4	2.840	19,240	15.360	8/2
¥ 34.800		66.000 (stage 18.2)	66.000 (stage 18.2)	3,750
	0.6.0	10,040	*5.130	824
4	2.800	11.440	17,160	872
	2,165	11,130	18.840	536
Sub Tetal	38,870	91,800	132,820	7,044
	2.020	10,040	15.125	304
10	2,760	11.000	18.500	550
11	2,440	8.760	14,840	488
.52	2,440	8,700	14.840	409
13	2,8/0	10,040	HE.000	534
Total	58,090	143,160	209,740	10,408

INDICATIVE ADDRESS TO CONSTITUTION AVENUE



TYPICAL SECTIONS



NCA, Griffin Legacy, 2004, p.176



SITE AND EMPLOYMENT CAPACITY

Block	Area (m2)	GFA 4:1 (m2)	GFA 6:1 (m2)	Employ't 4 1/20m2 (GFA 4:1) 500
Anzaic Fark East		10,000		
1	5,300 (approx)	21,200	31,800	1000
2	3,150	12.600	18,900	630
3	1,300	5,200	7,800	200
4	2.560	10.240	15.360	512
5 24,800		65,000 (stage 18 2)	65.000 (stage 18-2)	3,250
6	2,520	10,080	15,120	504
7	2,800	11,440	17,160	572
	2,780	11,120	16,680	556
Sub Total	39,970	91,880	132,820	7,844
	2.520	10.080	15,120	504
10	2,750	11.000	16.500	550
11	2,440	9,760	14,640	488
12	2,440	9,760	14,640	480
13	2,670	10.680	16.020	534
Total	58,090	143,160	209,740	10,408

TABLE

Commercial GFA40,000 sq mStaff2550Density15.5 sq m per person



Department of Education, Employment & Workplace Relations (DEEWR), Block 9, Section 31, Canberra



DEEWR, Proposed Fit out of Leased Premises, Block 9, Section 31, Canberra, SoE to Public Works Committee, 2008, pp.6, 30, 37



DEEWR x 4.5 = ANU Exchange



ACTPLA, ANU Exchange Master Plan & Implementation Plan, 2006, pp.15, 36.

ANU Exchange Master Plan, City West, Canberra
78,300 sq m

ANU Exchange x 10.4 = NCA Central National Area Redevelopment 1,845,000 sq m GFA

Figure 1: Office Floorspace Distribution 1995 and 2004



Source: Property Council of Australia, Office Market Report (2004)

ACTPLA, Residential, Commercial & Community Land Supply Strategy, 2005-2006 to 2009-2010, 2005, p4.

NCA Central National Area Redevelopment 2031 – Commercial Floor Space, 913,000 sq m

= combined total of all Commercial Floor Space in City, Russell, Airport, Belconnen and Phillip (Woden) in 2004

= 45,000 workers @ 1/20 sq m



Maunsell ALCOM, Grittin Legacy Implementation Irattic Analysis, 2006, p.2, 14

NCA Central National Area Redevelopment 2031 – Residential Floor Space, 675,000 sq m

= 14,000 residents, equivalent to the combined population of Campbell, Reid, Ainslie, Turner and City in 2006



NCA Amendment 44, National Capital Plan – Office Employment Location 2005



Integrated Transport Information System (ITIS)

NCA Amendment 44, National Capital Plan – Office Employment Location 2005



Civic - Canberra Airport Connection



NCA, Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.9

NCA Central National Area Redevelopment



NCA, Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.8

Indicative Public transport route

NCA Central National Area Redevelopment

Newman & Kenworthy, Sustainable Canberra, 1991, p.xv

Towards a More Sustainable Canberra

An Assessment of Canberra's Transport, Energy and Land Use



Peter Newman and Jeff Kenworthy

Institute for Science and Technology Policy Murdoch University Perth, Western Australia

Newman & Kenworthy, Sustainable Canberra, 1991



Light Rail Avenue, Zurich





NCA analysis: Griffin's Light Rail Avenues

NCA, Griffin Legacy, 2004, pp.71.



Griffin Avenue Section





CONSTITUTION AVENUE PROPOSED SECTION



NCA website



NCA Constitution Avenue Duplication Project, 2007

NCA Avenue Section





NCA, SoE, p.22 overlaid on Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.16

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NCDC Russell Defence Precinct, 1958-1963

JSCNET, Report DA12 NCP, 1995, p.48



NCPA Russell Defence Precinct, 1994







Indicative Reclamation and Land Bridge











NCA website