

# NEWCASTLE LIGHT RAIL

## Tramways for the 21<sup>st</sup> Century



**Map Key**

- Raised Island Super Stops
- Railway Stations
- Planned Railway Stations
- Rail line
- Tram Line
- Tramway Junctions

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### Community Benefits and Concerns

- Provide a fast user friendly environmentally responsible mode of transport for the 21st Century.
- The Tramway Depot/Maintenance Centre will service the new network sitting alongside the newly installed RailCorp Railway stabling facilities at Broadmeadow. This improvement to RailCorp operations will also complement the newly installed and long overdue Glendale Interchange.
- The operator of the existing Sydney Light Rail Line could apply through a Public Tender Process to operate the entire network given the way in which the Light Rail Line now successfully moves people.
- Tracks will be dual operation set in mass concrete.
- Raised Super Stops as the case at Flinders/Swanston Street Melbourne Stop will be laid out with tram tracks on either side of the platform.
- Raised Super Stops allows mothers with strollers, the elderly and disabled to use the new trams easily with low floor entry.
- The workings of the tramcars are set in the roof of the vehicle.
- Road Rules will not require alteration or a return to the days when all traffic had to stop when a tram stopped. This is largely because the platform forms will be island formation and make for a faster movement of passengers when alighting or disembarking.
- Traffic signalling will have T signals as per the case in Sydney where the Tram line crosses George Street and Darling Drive.
- Island platforms are a safer means for passengers alighting and disembarking instead of boarding from the street curb.
- There will not be a need to install Central Tram Fairways down the middle of Streets given the modern island nature of the Raised Super Stop.
- The need for Bus Lanes in Hunter Street or any other Street stops people from parking legally to go to the shops.
- The Newcastle System has potential to be extended however this should not be at the expense of Heavy Rail expansion.

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### **WORTH PLACE CROSSING:**

- The Worth Place Crossing will be reinstated for Tram movements and Pedestrians. This would not be a crossing for vehicles as this would lead to congestion on Hunter Street. This crossing will be laid in mass concrete.
- The overhead Railway and Tramway wires while of different voltage would be individually protected by modern safety systems.

### **ADAMSTOWN CROSSING:**

- The installation of a Tram/Train crossing at Glebe Road Adamstown will allow for safer conditions for motorists as the case is now given the curved nature of the approach of Glebe Road to the crossing.
- In addition to the widening and upgrade of the Adamstown Crossing is for a Roundabout to be installed at the busy and dangerous intersection of Glebe Road/Park Avenue/Court Street. Traffic Lights at this intersection would be impractical given the timing of the Boom Gates at the Level Crossing.
- Both the Worth Place and Adamstown Crossings will be upgraded significantly and the four intersecting standard gauge tracks would be laid in mass concrete.
- Tramway Junctions will be operated by the driver and not require Conductors to get out of the tram and flick the points with a metal pole.

Melbourne currently has four Tram/Train Crossings\* these being at:

- Glenhuntly Road Glenhuntly
- Glenferrie Road Kooyong
- Riversdale Road Camberwell
- Burke Road Gardiner Still in use – note tramway closed during construction of SE Arterial (now Monash Freeway) Burke Road overbridge.

\*Courtesy Hawthorn Tram Depot Website.

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Financing of the construction of the Newcastle Tramway system will come from a variety of sources similar to the funding formula for the long overdue expansion requirements of the New South Wales Railways.

- Commonwealth Funding Assistance
- State Government Funding Assistance
- Private Consortium Involvement and Possible Operation
- Raised Super Stops to include advertising
- Railway/Tramway Bonds guaranteed by the NSW Treasury
- Railway/Tramway Lottery administered by the NSW Government
- Tramway Trust Fund administered by the NSW Department of Transport

The operation of the tramway system and contracts for the advertising at Raised Super Stops will be open to public tender. Melbourne's Tramway operations were funded and managed by various local councils such as:

- Prahran and Malvern Tramways Trust
- Hawthorn Tramways Trust
- Melbourne, Brunswick and Coburg Tramways Trust
- Fitzroy, Northcote and Preston Tramways Trust
- Footscray Tramway Trust
- Northcote Municipality Cable Tramways

This situation ceased to exist when the Melbourne and Metropolitan Tramways Board (MMTB) was formed following the passing of the Melbourne and Metropolitan Tramways Act 1918 through the Victoria Parliament. By 1920 most of the Tramway Trusts were transferred to the MMTB.

Given that tramways overlap council boundaries easily it is the NSW Department of Transport who is best placed to administer the Tramways Trust Fund in consultation with the NSW Treasury.

The NSW Fahey Liberal/National Government commenced construction of Sydney's current Light Rail line. NSW Premier Bob Carr opened the Central-Wentworth Park Line in 1997 and the extension to Lilyfield was completed in 2000.

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The Newcastle Tramways would have 6 different routes operating in each direction and numbered for ease of patronage. Each route will have a line colour associated for ease of use and each of the Raised Super Stops will be numbered with signage that will also indicate the cross-street at which the stop is nearest to. Next Tram Time running will be indicated electronically on signage at each stop as is the case in Melbourne.

Each of the routes commences from the Broadmeadow Tram Depot/Maintenance Centre and is as follows:

### Route 1-Yellow

**Route 1**-Services the John Hunter and Mater Hospitals, University of Newcastle, Bar and Merewether Beaches via Wharf Road and Shortland Esplanade. Both of these roads allow for Panoramic Views of the coast and headlands. Speed restrictions would allow passengers time to take in the breathtaking aspects that Newcastle has to offer.

### Route No. 1

Stop Name	Stop No.				
<b>Tram Depot</b>	<b>0</b>	Jesmond Park	17	Tudor Street	35
Lambton Road	1	Janet Street	18	Stewart Avenue	36
Glossop Street	2	Sunset Boulevard	19	Auckland Street	37
Sketchley Parade	3	Stannett Street	20	Hunter Street Mall	38
Rydal Street	4	Kimian Avenue	21	Watt Street	39
Birdwood Street	5	Catherine Avenue	22	<b>Via Wharf Road</b>	<b>0</b>
Orchard Town Road	6	Mater Hospital	23	<b>Via Shortland</b>	
Grinsdell Street	7	Platt Street	24	<b>Esplanade</b>	<b>0</b>
Carnley Avenue	8	High Street	25	Bar Beach	40
Grandview Road	9	Schroder Avenue	26	Smith Street	41
McCaffrey Drive	10	Oxley Road	27	National Park Street South	42
John Hunter Hospital	11	Kahibah Road	28	Beaumont Street South	43
Carrington Parade	12	Turton Road Junction	29	Samdon Street	44
Mitchell Avenue	13	Smith Park	30	Blackall Street	45
Elder Street	14	Chatham Road	31	Brunker Road	46
George Street	15	Hudson Street	32	Curley Road	47
Arthur Street	16	Beaumont Street North	33	<b>Tram Depot</b>	<b>0</b>
		Lawson Street	34		

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Each of the routes commences from the Broadmeadow Tram Depot/Maintenance Centre and is as follows:

### Route 2-Blue

**Route 2**-Services both the new and old of Newcastle via Hannell Street and Honeysuckle drive. Worth Place Crossing will reinstate one level crossing that will reunite the City of Newcastle. Restricting access of this reinstated crossing to trams and Pedestrians will not ensure that traffic congestion becomes an issue on Hunter Street. This route also services Tighes Hill TAFE and will go through the Hunter Street Mall as is the case in Bourke Street Melbourne and this will in turn reinvigorate the CBD. Rather than creating many terminus throughout Newcastle all tram routes start and finish at the Tram Depot. Route 2 also services the Beaches and Racecourse.

### Route No. 2

<b>Stop Name</b>	<b>Stop No.</b>				
<b>Tram Depot</b>	<b>0</b>	The Avenue	18	Hassall Street	32
Lambton Road	1	Anne Street	19	James Street	33
Wallarah Road	2	Throsby Street	20	Darling Street	34
Regent Street	3	Honeysuckle Drive	21	Broadmeadow Racecourse	35
Wickham Road	4	<b>WORTH PLACE CROSSING</b>	<b>0</b>	Brunker Road	36
Mitchell Avenue	5	Auckland Street	22	Curley Road	37
Elder Street	6	Hunter Street Mall	23	<b>Tram Depot</b>	<b>0</b>
Morehead Street	7	Watt Street	24		
Kahibah Road	8	<b>Via Wharf Road</b>	<b>0</b>		
Turner Street	9	<b>Via Shortland Esplanade</b>	<b>0</b>		
Georgetown Road	10	Bar Beach	25		
Newcastle Street	11	Merewether Beach	26		
Hubbard Street	12	Frederick Street	27		
Islington Park	13	Ridge Street	28		
William Street	14	Merewether Street	29		
Kings Road	15	Morgan Street	30		
Harrison Street	16	Henry Park	31		
Downie Street	17				

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### Route 3-Orange

**Route 3**-Services both Energy Australia Stadium and the No.1 Sports Ground when major sporting fixtures require a large volume of people to be moved quickly Route 3 also extends to Civic Park, Bar Beach and operates close to Hamilton TAFE.

### Route No. 3

Stop Name	Stop No.		
<b>Tram Depot</b>	<b>0</b>	Farquhar Street	18
Lambton Road	1	Llewellyn Street	19
Energy Australia Stadium	2	Pulver Street	20
Turton Road Junction	3	Learmonth Park	21
Smith Park	4	Dumaresq Street	22
Chatham Road	5	Everton Street	23
Hudson Street	6	Tudor Street Junction	24
Beaumont Street North	7	Lindsay Street	25
Lawson Street	8	Lawson Street	26
National Park Street North	9	Beaumont Street North	27
Ravenshaw Street	10	Hudson Street	28
Civic Park	11	Chatham Road	29
Perkin Street	12	Smith Park	30
Cathedral Street	13	Turton Road Junction	31
Church Street	14	Energy Australia Stadium	32
Bar Beach	15	Lambton Road	33
Glebe Road Junction	16	<b>Tram Depot</b>	<b>0</b>
Kenrick Street	17		

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Each of the routes commences from the Broadmeadow Tram Depot/Maintenance Centre and is as follows:

### Route 4-Green

**Route 4**-Services Energy Australia Stadium, Hunter Street Mall, Newcastle Railway Station, Beaches area, Hamilton TAFE and compliments Route 3.

<b>Route No. 4</b>			
<b>Stop Name</b>	<b>Stop No.</b>		
<b>Tram Depot</b>	<b>0</b>	Bar Beach	14
Lambton Road	1	Glebe Road Junction	15
Energy Australia Stadium	2	Kenrick Street	16
Turner Street	3	Farquhar Street	17
Georgetown Road	4	Llewellyn Street	18
Newcastle Street	5	Pulver Street	19
Hubbard Street	6	Learmonth Park	20
George Street	7	Dumaresq Street	21
Albert Street	8	Everton Street	22
Tudor Street	9	Tudor Street Junction	23
Stewart Avenue	10	Lindsay Street	24
Auckland Street	11	Lawson Street	25
Hunter Street Mall	12	Beaumont Street North	26
Watt Street	13	Hudson Street	27
<b>Via Wharf Road</b>	<b>0</b>	Chatham Road	28
<b>Via Shortland Esplanade</b>	<b>0</b>	Smith Park	29
		Turton Road Junction	30
		Energy Australia Stadium	31
		Lambton Road	32
		<b>Tram Depot</b>	<b>0</b>

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### Route 5-Pink

**Route 5**-Services the inner parts of Beaumont Street, Beaches areas, Adamstown and the Racecourse.

<b>Route No. 5</b>		<b>ADAMSTOWN CROSSING</b>	<b>0</b>
<b>Stop Name</b>	<b>Stop No.</b>		
<b>Tram Depot</b>	<b>0</b>		
Curley Road	1	Mackie Avenue	19
Brunker Road	2	Sketchley Parade	20
Blackall Street	3	Glossop Street	21
Samdon Street	4	Lambton Road	22
Beaumont Street South	5	<b>Tram Depot</b>	<b>0</b>
National Park Street South	6		
Smith Street	7		
Merewether Beach	8		
Frederick Street	9		
Ridge Street	10		
Merewether Street	11		
Morgan Street	12		
Henry Park	13		
Hassall Street	14		
James Street	15		
Chatham Road Junction	16		
Bryant Street	17		
Bourke Street	18		

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### Route 6-Red

**Route 6**-Services both Energy Australia Stadium and the No.1 Sports Ground while connecting with Newcastle Railway Station.

### Route No.6

Stop Name	Stop No.		14		29
<b>Tram Depot</b>	<b>0</b>	Burwood Street		Pulver Street	
Lambton Road	1	Tooke Street	15	Learmonth Park	30
Glossop Street	2	Parry Street East	16	Dumaresq Street	31
Sketchley Parade	3	Bull Street	17	Everton Street	32
Mackie Avenue	4	Darby Street Junction	18	Tudor Street Junction	33
<b>ADAMSTOWN CROSSING</b>	<b>0</b>	Perkin Street	19	Lindsay Street	34
Bourke Street	5	Cathedral Street	20	Lawson Street	35
Bryant Street	6	Watt Street	21	Beaumont Street North	36
Chatham Road Junction	7	Queens Wharf	22	Hudson Street	37
James Street	8	Workshops	23	Chatham Road	38
Hassall Street	9	<b>WORTH PLACE CROSSING</b>	<b>0</b>	Smith Park	39
Henry Park	10	Parry Street West	24	Turton Road Junction	40
Morgan Street	11	No.1 Sports Ground	25	Energy Australia Stadium	41
Merewether Street	12	The Junction	26	Lambton Road	42
Lingard Street	13	Farquhar Street	27	<b>Tram Depot</b>	<b>0</b>
		Llewellyn Street	28		