

# CONSTRUCTION

## Update



WEEK COMMENCING

4 July 2011

## WHAT'S new...

### 20 MILLION HOURS WORKED

In late June week the combined Airport Link projects reached 20 million hours worked, which is a momentous achievement for the team of workers who have been building and tunnelling since construction began in November 2008.

They are part of a team of 4,350 people working across Airport Link, Northern Busway (Windsor to Kedron) and Airport Roundabout Upgrade projects.



### NORTHERN BUSWAY BRIDGE PROGRESS

The Northern Busway's final bridge beams at Bowen Hills, each weighing up to 60 tonnes, have now been installed, extending the length of the bridge to 250 metres.

Sitting nine metres above Lutwyche Road and Enoggera Creek, the Northern Busway bridge was constructed using a 450 tonne hydraulic crane to install the 54 precast beams. The next stage of bridge work at Bowen Hills will involve the installation of steel reinforcement and concreting for the deck slab and the installation of side parapets.



### LANDSCAPING AT BOWEN HILLS

This month, the Bowen Hills worksite will move into its final stage of construction, preparing the site for the creation of a 'hill-top park' for the local community.

More than three-and-a half hectares of new parkland will be provided for local residents upon completion of the projects, including the hill-top park, which will have stunning city views and recreational and playground facilities for locals to enjoy.



**Top:** 20 million hours worked by team of 4,350 people

**Middle:** Final beams installed on Bowen Hills busway bridge

**Lower:** Artist impression of new parkland at Bowen Hills



airportlink  
northernbusway  
windsor to kedron  
airport roundabout upgrade

# BOWEN HILLS UPDATE

## NEW WORK

- Installation of traffic signals and resurfacing work at Lutwyche Road and Cedric Street intersection

## ONGOING WORK

- Installation of formwork and concreting around the perimeter of the Airport Link tunnel portal cut-and-cover structure
- Installation of pre-cast roof and wall segments at the tunnel portal site
- Construction of bridge decks and parapet installation for Airport Link connections
- Mechanical and electrical fit-out operations in the Ventilation Station Outlet and north and southbound tunnels
- Gas installation work continues on Lutwyche Road between Newmarket Road and Cedric Street
- Footpath work and services installation work on Lutwyche Road between Bryden and Cedric Streets
- Bridge deck installation on the ICB off-ramp, adjacent to the Mews Apartments
- Excavation and concrete work in the Lutwyche Road tunnel off-ramp area
- Concrete deck and parapet installations for the Northern Busway bridge
- 24-hour tunnelling activities continue from the tunnel portal site
- Footpath installation and landscaping work in Cedric Street
- Electrical services conduit installation, drainage and road surface work along Mayne Road, Hamilton Place and Campbell Street
- Temporary ICB/CLEM7 carriageway and on and off-ramp closures as required

## UPCOMING WORK

- Transfer of backfill material from within the site onto the roof of the Airport Link tunnel portal cut-and-cover structure
- Drainage and road surface work in the Federation Street bus stop site



**Top:** Airport Link cut-and-cover tunnel portal

**Middle:** Southbound tunnel off-ramp egress passage

**Lower:** Aerial view of bridge construction

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# WINDSOR LUTWYCHE UPDATE

## NEW WORK

- Service installation work along Truro Street
- Service relocation work at Windsor State School

## ONGOING WORK

- Mechanical and electrical fit-out of the Northern Busway tunnel from Truro Street site
- Mechanical and electrical fit-out from the Truro Street site for the Airport Link mainline tunnels
- Concrete lining from the Truro Street site for the Airport Link mainline tunnels
- Excavation of the Tunnel Boring Machine burial chambers
- Construction of the Lutwyche Busway Station towers
- Demobilisation of the Truro Street site spoil shed
- Service installation for the Lutwyche Busway Station
- Drainage work and concrete lining within the cut-and-cover tunnel between Bradshaw Street and Norman Avenue
- Earthwork within Clarke Park
- Footpath reinstatement at the Norman Avenue/Lutwyche Road intersection

## UPCOMING WORK:

- Construction of the bus stop at Windsor State School
- Construction of the bus stop on Roblane Street
- Construction of the bus lane within Quarry Park
- Service relocation work across Lutwyche Road from Isedale Street
- Construction of the dedicated bus lane along Truro Street
- Drainage installation above the Northern Busway cut-and-cover tunnel from Bradshaw Street to Norman Avenue
- Pavement work within the Lutwyche Busway Station



**Top:** Installation of steelwork for TBM burial chamber

**Middle:** Aerial view of Lutwyche Busway Station

**Lower:** Airport Link tunnel and TBM burial chamber

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# KEDRON UPDATE

## NEW WORK

- Bridge pile installation on Stafford Road, approximately 100m west of the Gympie Road intersection
- Preparation work for the Gympie Road realignment
- Pre-cast beam installation on Gympie Road (opposite Brookfield Road)
- Construction of the stormwater access chamber on Stafford Road
- Kedron Park Road replacement work
- Service work on Stafford Road to install sewer infrastructure



## ONGOING WORK

- Telecommunication service relocation work across Gympie Road at Homebush Road
- Repositioning of services at the corner of Kedron Park Road and Lutwyche Road (intermittent night work)
- Landscaping activities within Amelia Park
- Temporary footpath diversion from Gympie Road to Brookfield Road
- Stafford Road widening work west of Rose Lane – footpath changes as required
- Backfilling operations in the Stafford/Gympie Road intersection
- Telecommunications relocation work along Gympie Road between Sadlier Street and Leckie Road
- Excavation activities under the intersection of Stafford and Gympie Roads for the Northern Busway and at Kedron North
- Pavement and landscaping activities for the Airport Link Operation Centre (ALOC) at the Stafford Road site
- 24-hour excavation operations and blasting activities under the Airport Link tunnel roof structure from Park Terrace to Arnott Street
- Excavation beneath the cut-and-cover structure, adjacent to Perry Street
- Construction of the Ventilation Station within the Kedron Central site
- 24 hour tunneling from the Kedron Central site
- Construction of the Kedron Brook Busway station at the Perry Street worksite, south of Kedron Brook



## UPCOMING WORK

- Temporary closure of the left-in to Leckie Road to install concrete wall units
- Gympie Road realigned east, from south of the Kedron Brook to the Kedron Park Road intersection
- Sheet pile installation along Gympie Road, south of Brookfield Road
- Demolition of the old Gympie Road bridge
- Permanent closure of Suez Street – to be implemented during the Gympie Road realignment
- Piling activities north of the Kedron Brook, south of Suez Street
- Installation of pre-cast bridge segments at Stafford/Gympie Road intersection

**Top:** Construction of Kedron Brook Busway Station towers

**Upper middle:** ALOC landscaping

**Lower middle:** Eastbound tunnel on-ramp back fill

**Lower:** Preparation for Gympie Road realignment

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# WOOLOOWIN UPDATE

## NEW WORK

- Nil to report

## ONGOING WORK

- Deliver and mobilise arch form to install permanent concrete tunnel lining
- Excavation of the sump lower level, including the removal of material from site
- Installation of waterproof lining
- Excavation, concreting and installation of pits to construct roadway drainage and cross passage floor slabs
- Electrical pit and conduit installation
- Mechanical and electrical fit-out of cross passages
- Steel fixing, formwork and concreting for tunnel arch lining support and inverts
- Mechanical and electrical fit-out of substation including block work
- Delivery of materials and equipment as required
- Monitoring of existing groundwater well locations
- Monitoring of ground conditions at survey marker points

## UPCOMING WORK

- Installation of concrete tunnel arch lining



Top: Eastbound tunnel footers

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# TOOMBUL UPDATE

## NEW WORK

- Demolition of the second jacked box's shield and tail including drilling and hammering
- Steel fixing, form work and concreting under the new Sandgate Road bridge
- Footpath work along the eastern side of Sandgate Road between the AirTrain overpass and Centro Toombul intersection
- Concreting and removal of barriers along the Widdop Street off-ramp

## ONGOING WORK

- Tunnel Boring Machine (TBM) tunnelling occurring 24/7, including operation of the conveyor belt and support equipment at the Kalinga Park West worksite
- Night time delivery of road deck units and segments to support tunnel excavation
- Mechanical and electrical fit-out of cross passages
- Night time operations at Kalinga Park West including excavation, loading and removal of material, water blasting, steel fixing, concreting and crane operations
- Demolition of the first jacked box's shield and tail including drilling, hammering and saw cutting
- Night operation at Kalinga Park East Worksite including core drilling, saw cutting, hammering and crane operations of the jacking box rafts and installation of roof beams
- Mechanical and electrical fit-out of the Ventilation Station and electrical substation
- Excavation and drainage beneath the Sandgate Road bridge including the removal of spoil via the construction access road and East West Arterial Road
- Installation and removal of props beneath the Sandgate Road bridge
- Installation of the Living Green Wall within the East West Arterial Road trough
- Steel fixing and concreting of the East West Arterial Road trough base slab
- Installation of footings, posts and lanterns at the Sandgate Road/East West Arterial Road intersection
- Installation of Energex cable along the eastern footpath of Sandgate Road between the AirTrain overpass and Centro Toombul intersection
- Ongoing upgrade of Sandgate Road footpaths from Kedron Street to Junction Road (night work)
- Construction of the Fire Deluge System at the corner of Wongara Street and Sandgate Road
- Kerb and median work along Sandgate Road
- Relocation and installation of water, telecommunication, electrical and optical services along the eastern and western sides of Sandgate Road from Kedron Street to Parkland Street (night work)
- Steel fixing and concreting for installation of the Air Quality Monitoring Station at Aviation High
- Delivery of materials and equipment via Alma Road, Stuckey Road, Lewis Street and Wongara Street



**Top:** Completion of jack box operation

**Middle:** Aerial view of Toombul worksite

**Lower:** Excavation under new Sandgate Rd/East West Arterial Rd intersection

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## UPCOMING WORK

- Gas installation along Sandgate Road (night work)
  - Installation of an Energex pit at the corner of Wongara Street and Sandgate Road
  - Installation of electrical, water and waste water services along the western side of Widdop Street and across to the Widdop Street off-ramp
  - Concreting of footpath along the eastern side of Sandgate Road from AirTrain to Centro Toombul intersection (night work)
  - Installation of noise barrier panels around the Kalinga Park tunnel portal (west of Sandgate Road) and remaining section of the noise wall along the southern side of East West Arterial Road, where it meets Sandgate Road
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**Above:** Mechanical and electrical fit-out of TBM tunnel cross passage

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# AIRPORT ROUNDABOUT UPGRADE UPDATE

## NEW WORK

- Nil

## ONGOING WORK

- Line marking, landscaping, installation of signs, road barriers and guardrails along the east and westbound carriageways of East West Arterial Road, inbound and outbound carriageways of Airport Drive, Southern Cross Way and the fast diamond intersection
- Complete landscaping work along East West Arterial Road, Nudgee Road, Airport Drive and Southern Cross Way, including drainage
- Lane closures and detours as required on Airport Drive, East West Arterial Road, Nudgee Road and the Fast Diamond intersection with traffic management

## UPCOMING WORK

- Nil



Above: Airport Flyover

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