4.2 TURRELLA TO ALEXANDRA CANAL - REVIEW

2002 February - M5 East Cycleways

Description

An update on the progress on the M5 East Cycleway states the following:

- A new shared 3 meter wide pedestrian and cycle path has been constructed along both sides of the M5 East between King Georges Road and Bexley Road.
- The section of path along Alexandra Canal from Coward Street to Giovanni Burnetti Bridge was constructed.
- The connection from Turrella Station to Giovanni Burnetti Bridge and Alexandra Canal was not further planned due to the significant development proposed at Wolli Creek Station and Turrella Station. It was considered that the cycleway would be constructed as part of the future development. This section did not get completed as part of the re-development hence the gap that still remains in the present route.
- A shared path along Tempe Recreational Reserve included a cycle bridge over the canal. This was not constructed.
- The section between Princes Highway bridge and Turrella station was not constructed due to the significant amount of redevelopment occurring. It was understood that the route from Princes Highway bridge and Turrella station would be constructed by future development. This did not occur.

Legend

Proposed Route (not constructed)
Completed Cycleway
2016 - M5 East Cycleways

Description
At present, Sydney Water is constructing a shared pedestrian and cycle way from Maddox Street to the north end of the Alexandra Canal as part of the ‘Green Square Trunk Stormwater Drain’ project. Recent meetings with stakeholders have also noted that the western and eastern sides of the canal have a proposed cycleway that will be predominantly constructed by 2019.

In 2016 a new pedestrian cycle bridge was constructed over Princes Highway. Bayside Council has also undertaken planning for cycleways through Wolli Creek and Cahill Park.
4.3 BEXLEY NORTH TO TURRELLA - REVIEW

1994 - M5 East Motorway Bicycle Planning Report (ARUP)

Description
This report addressed the bicycle planning routes which relate to the proposed tunnel section of the M5 East Motorway.

A number of alternative schemes were developed for the tunnel section of the M5 East. They break down into four categories:

1. Do nothing
2. Provide lanes in the M5 Tunnel
3. A cycle path in the Wolli Creek Valley
4. An on-road cycle route

Category 1 and 2 were not considered feasible. Three options / routes had been identified for each of the last two categories, routes 3, 4 & 5 are shown in fig 4.04 and are as follows:

- Route 3: Dual use cycle / pedestrian path through Wolli Creek Valley
- Route 4: High quality cycle path through Wolli Creek Valley
- Route 5: Cycle path parallel to the East Hills rail reservation

Preferred Route
The preferred alternative bicycle route scheme, based on a variety of weighted criteria ranking costs and benefits was Route 5, a high quality bicycle path along side or within the railway reserve for the tunnel section of the M5.

Outcomes
- The preferred route was taken forward for further investigation. In Jan 1999 and again in August 2001 in principle agreement was received from the then ‘Rail Infrastructure Corporation’
- The cycleway planning was being further developed for the preferred route.
2001 October - M5 East Cycle Way

Description

Up until mid 2001 the preferred route was consistently identified as the route through Rail Infrastructure Corporation (RIC) Land adjacent to the East Hill rail line. This was consistent with the preferred route identified in the original 1994 planning report. During this period substantial planning and design work was progressed including a Review of Environmental Factors for the project and completion of 90% documentation for the preferred route.

However from mid 2001 concerns began to be raised about the feasibility of this route. While informal and in-principle approval had been provided by RIC on a number of occasions including in mid 2000, there was no formal approval from RIC for the use of the rail corridor.

Hence, as a result, three routes were considered at a schematic level for further discussion internally within RMS. These routes included an on-road route, a Wolli Creek Reserve route and the original rail corridor option. These alternate options were developed because concerns were being raised about the potential for delays to the project.

Preferred Route

The rail corridor route was confirmed as the preferred route and it was resolved to continue progressing this route. The on-road route was not considered a suitable route for a regional level of cycle path and this route was identified as being opposed by Bicycle NSW while Wolli Creek reserve was not considered suitable due to the steep grades that needed to be traversed and potential requirement for steps.

Outcomes

- The rail corridor option was still considered as the preferred route.
- Cycleway planning and design was further developed for the preferred route.
2002 February - M5 East Cycleway

Description
In February 2002 a Ministerial briefing note was issued which confirmed that further support for use of RIC land had been sought and confirmed in late January 2002. As a result of discussions with RIC, the former Road and Traffic Authority (RTA) were notified that relocation of RIC infrastructure (such as signalling equipment) was required to accommodate the cycle path along the rail embankment.

It was agreed that RIC would investigate what rail infrastructure was required to be relocated and to advise on the costs to relocate this infrastructure to accommodate the cycleway.

Based on the ongoing discussions and progression of the project with RIC, the original preferred route was confirmed and a construction program was developed in consultation with RIC with the expectation that construction work would commence in April 2002.

Progress on routes
The preferred route remained the route along the rail corridor.

Outcomes
Investigations for the relocation and costing of the RIC infrastructure were being undertaken by RIC. Planning and design for the preferred route were further progressed including a proposed program which anticipated that construction would commence in 2012.
2002 November - M5 East Cycle Ways Options A-E

Description
Additional route planning was undertaken by RTA resulting in the identification and development of five alternative routes (Options A to E). These routes all considered alternate routes on the southern side of the rail corridor using a combination of on-road routes and open space. A route along the northern side of the rail was not considered feasible due to the steep grades and topography.

These routes were being considered due to concerns over cost and delays in approval on the original preferred route along the rail corridor. RIC had completed investigations into relocating rail infrastructure and had advised RTA that the cost to relocate this infrastructure would be approximately $2.6M. Most of these costs were associated with relocating infrastructure in the proximity of Turella Station.

The following concerns were raised:
- Delays in approval from RIC
- Lack of support from RIC management for a cycle path in the rail corridor
- Lack of access to and from the route as access was only available at Turella Station, Bardwell Park Station and Kingsgrove Station with no access outside of these locations

Preferred Route
The additional route planning did not state a preference for a preferred route out of the five options that were developed for the southern side of the rail corridor.

Outcomes
It was recommended that the alternate routes be further considered prior to the final decision on the preferred route.
Preferred route

The proposed route involves a mix of on road routes, traffic calming, and some off road construction in areas much less sensitive than the banks of Wolli Creek including:

- An on road route starting at Slade Road, continuing on through quiet streets towards Rickard Street and onto Turrella Station with a new bridge over Bardwell Creek between Edith Street and Hannam Street.
- An option to avoid Slade Road which runs on the south side of the rail corridor through a grassed park.
- A northern option on road along Bray Ave, Forrest Ave and Johnston Street then linking with a cycle bridge across the railway and onto the southern route.

Outcomes

Based on the ongoing uncertainty and increasing cost of the rail corridor route option and the objections raised in the report to the use of the Wolli Creek Valley as a regional cycle route RTA resolved to undertake further route planning analysis including a review of the recommendations in the report.

Legend

<table>
<thead>
<tr>
<th>Blue</th>
<th>Option A - Creek Side Cycle Plan - RTA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>Option B - Wolli Pathfinders Routes</td>
</tr>
</tbody>
</table>

2003 February - Bush Bikes & Bitumen

Description

A community group, the “Wolli Pathfinders” raised objections to the original preferred route through the bushland of the Wolli Creek Valley. The group prepared a report on the existing route identifying the issues with the existing route and also proposed alternative routes.

The group’s main concern was the potential impacts on the bushland due to the construction of a regional cycle path and the subsequent use of that cycle path. It was considered that this regional cycle path would significantly impact on one of the remaining remnant bushland zones in the region. The report noted that the Wolli Creek Valley was a narrow ecological zone and particularly south east of Bardwell Park station was considered to have high value including providing habitat for water birds which would be disturbed by the cycle path.

The report investigated a number of routes which are discussed further below and recommended an on-road route on the southern side of the rail line. The report noted that while not the groups preferred option, if they had to choose a portion of the Wolli Creek Valley to install a cycleway they would choose the western end of the route and preserve the eastern end.

Figure 4.08 - Bush Bikes & Bitumen

Source: The Wolli Pathfinders 2003
2003 March - M5 East Cycleways

Description
This report reviewed alternative options developed in February 2003 as a result of opposition from the community and additional information from RIC relating to costs of relocating infrastructure in the rail corridor.

Rail Infrastructure Corporation provided an estimate for the relocation of rail utilities required to be undertaken as part of the project. The estimated cost of the project (rail corridor option – red colour) increased to $9.5M, which excluded any track possession costs that may be required during the works. The original strategic cost estimate was $4.8M.

Given the estimated cost of the current route and resistance from RIC to construct the cycleway in the rail corridor, particularly adjacent to Turrella Station, alternative options developed in February 2003 were assessed.

Preferred Route
Option E: Composite Road / Rail as it avoided the most sensitive bushland areas and also high cost of RIC infrastructure location.

Outcomes
The preferred route was investigated further and additional options were considered.

Legend
- Option A - Rail Corridor
- Option B - Modified Rail Corridor
- Option C - Park Route
- Option D - On Road
- Option E - Composite Road/Rail

Figure 4.09 - M5 East Cycleways
Source: Roads and Traffic Authority NSW 2003
2003 April - Bexley North to Turrella Cycleway

Description
Further route planning and investigations were undertaken to further develop those routes previously identified in March 2003. An additional route, Route F, was developed in addition to the 5 previous route options. This route was the original rail corridor option from Bexley North Station to Bardwell Park Station and an on-road option between Bardwell Park Station and Turella Station. The option included use of predominantly local roads and a crossing of Bardwell Valley Creek.

Preferred route
Internal discussions within the RTA identified that Option F was the preferred route out of the 6 options that had been developed. The route was chosen as a 'compromise' route which partially met the preferences of Bicycle NSW for a dedicated off-road regional route and partially met the concerns raised by the local community with regards to the potential impacts of a regional cycle path on Wolli Creek Valley.

Outcomes
Further investigation of the preferred route was undertaken.
**2004 March - Turrella Cycleway Options Assessment**

**Description**

Geotech investigation on the rail embankment between Bexley North and Bardwell Park Stations was undertaken in October 2003 and found that the embankment was unstable. Due to cost impacts, an on road route was further considered. These included a series of routes for the Bexley to Turrella cycleway through a range of land ownership groups. These routes consisted of sections that were both on road and off road. Each route had identified preliminary design nonconformities such as grades, speed limits, detour factors and stops per average km. Preliminary major risks were identified such as environmental disturbances, flooding, personal safety, railway protection and geotechnical stability. The identified routes are shown in figure 4.11.

**Preferred Route**

No preferred route was identified, but routes that have been noted as ‘Feasible Option’ are as follows:

- A5: Rail Corridor BN-BP - off road 3m wide concrete path, bridge
- B5: Bridge over railway west of Bardwell Station - 3m wide concrete path, bridge
- B6: Bridge over railway east of Bardwell Station - 3m wide concrete path, bridge
- B7: Through RSL car park adjacent to railway - on road
- B8: RSL adjacent to Wolli Creek - 3m wide concrete path
- C2: Rail corridor BP-T - on road, some off road sections

**Outcomes**

- Key stakeholders were identified
- Strategic estimated costs were identified
- No preferred route was identified

**Legend**

- A1: Wolli Ave - on and off road
- A2: Through Reserve and Laneway - off road 3m wide concrete path
- A3: From Johnston St over Wolli Creek to Railway - off road 3m wide concrete path, bridge
- A4: Through Wolli Creek Regional Park - off road 3m wide concrete path, bridge
- A5: Rail Corridor BN-BP - off road 3m wide concrete path, bridge
- B1: Hartill-Law Ave Lane reconfiguration - on road
- B2: Hartill-Law Ave Bridge Widening - on road
- B3: Through shopping strip, awning adjustment - on road
- B4: Through shopping strip, minimum treatment - on road
- B5: Bridge over railway west of Bardwell Station - 3m wide concrete path, bridge
- B6: Bridge over railway east of Bardwell Station - 3m wide concrete path, bridge
- B7: Through RSL car park adjacent to railway - on road
- B8: RSL adjacent to Wolli Creek - 3m wide concrete path
- C1: On road through mostly local roads - on road, some off road sections
- C2: Rail corridor BP-T - on road, some off road sections

*Source: Roads and Traffic Authority NSW 2004*
2004 March - Turrella Cycleway Options Assessment

Preferred Routes

Description
As an outcome of the 'Turrella Cycleway Options Assessment', five preferred routes were selected which are shown in figure 4.12.

Preferred route
From these five routes, a favoured route was not documented

Outcomes
There is no further archival records on the planning for the M5 East Green Link

Legend

- Entire Route Option 1:
  - A5: Rail Corridor BN-BP
  - B8: RSL adjacent to Wolli Creek
  - C2: Rail corridor BP-T

- Entire Route Option 2:
  - A5: Rail Corridor BN-BP
  - B8: RSL adjacent to Wolli Creek
  - B6: Bridge over railway east of Bardwell Station
  - C1: On road through mostly local roads

- Entire Route Option 3:
  - A5: Rail Corridor BN-BP
  - B5: Bridge over railway west of Bardwell Station
  - C1: On road through mostly local roads

- Entire Route Option 4:
  - A5: Rail Corridor BN-BP
  - B8: RSL adjacent to Wolli Creek
  - B5: Bridge over railway west of Bardwell Station
  - C1: On road through mostly local roads

- Entire Route Option 5:
  - A1: Wolli Ave - on and off road
  - B6: Bridge over railway east of Bardwell Station
  - C1: On road through mostly local roads

Figure 4.12 - Turrella Cycleway Options Assessment
Source: Roads and Traffic Authority NSW 2004
### History Review - Summary of Turrella to Bexley North

A wide range of routes were investigated for a cycle path between Turrella to Bexley North between 1994 to 2004. However despite substantial planning and design development, the original preferred route along the rail corridor was not considered feasible, at the time, due to the delays in obtaining RIC approval for use of the corridor, cost increases associated with the requirement to relocate RIC infrastructure, and community concerns raised over the potential impact on Woll Creek Valley. Route planning considered on-road route options, however these were not favoured by Bicycle NSW, had considerable constraints in terms of the steep grades in the local topography, and ability to achieve a reliable connected network due to pinch points in a number of locations, particularly along Slade Road. A summary of the route investigation and planning is included in Table 4.01.

<table>
<thead>
<tr>
<th>Year</th>
<th>Route Type</th>
<th>Description</th>
<th>Discussion / Outcome</th>
<th>Constraints Identified</th>
<th>Stakeholder Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>- Will Creek Valley</td>
<td>Route through Woll Creek Valley</td>
<td>Concepts were produced to identify a preferred cycle route for the tunnel section of the M5 East. Preferred route was the rail line route</td>
<td>- Will Creek Valley: Concept stage only</td>
<td>None identified</td>
</tr>
<tr>
<td>2001</td>
<td>Oct</td>
<td>On road</td>
<td>Bicycle route along the south side of Woll Creek embankment</td>
<td>Due to delayed approvals from RIC, additional routes were considered.</td>
<td>- On road: Steep grade on Slade Road and Darley Road</td>
</tr>
<tr>
<td>2002</td>
<td>Feb</td>
<td>Rail line</td>
<td>Rail line: Route along the railway embankment on RIC land</td>
<td>Support from RIC was obtained.</td>
<td>- Rail Line: Relocation of RIC infrastructure</td>
</tr>
<tr>
<td>2002</td>
<td>Nov</td>
<td>Entirely on road</td>
<td>Entirely on road: On road route from Bexley North Station to Turrella Station</td>
<td>RIC investigated the relocation of infrastructure cost to be $2.5 million. Alternative routes were proposed.</td>
<td>- Entirely on road: Steep grade on Slade Road and Darley Road</td>
</tr>
<tr>
<td>2003</td>
<td>Feb</td>
<td>Will Creek side</td>
<td>Will Creek side: Bicycle route along the south side of Will Creek embankment</td>
<td>RITA proposed a route along the Will Creek embankment, 'Will Creek Pathfinders' proposed alternative routes as the RITA proposal impacted the health of the land.</td>
<td>- Will Creek side: May impact on the health of the land</td>
</tr>
<tr>
<td>2003</td>
<td>Mar</td>
<td>Rail corridor</td>
<td>Rail corridor: Bicycle route along the south side of Will Creek embankment</td>
<td>Further investigation into alternative routes led to a preferred route that was both on road and in the rail corridor.</td>
<td>- Rail corridor: May impact on the health of the creek</td>
</tr>
<tr>
<td>2003</td>
<td>Apr</td>
<td>Rail corridor</td>
<td>Rail corridor: Bicycle route along the south side of Will Creek embankment</td>
<td>Further investigations towards a preferred route were undertaken. A hybrid option (F) was selected as the preferred option for further planning.</td>
<td>- Rail corridor: May impact on the health of the creek</td>
</tr>
<tr>
<td>2004</td>
<td>Mar</td>
<td>Railway corridor</td>
<td>Railway corridor: Route along the rail line from Bexley North to Bardwell Park Stations then on road towards Turrella Station</td>
<td>Geotechnical investigation found that the Will Creek embankment was unstable. Further investigations towards alternative routes were undertaken yet no preferred route was agreed.</td>
<td>- Rail corridor: May impact on the health of the creek</td>
</tr>
</tbody>
</table>

*Table 4.01 - Summary of route investigation*
5.0 M5 East Linear Park
5.1 M5 EAST LINEAR PARK OVERVIEW

The M5 East Linear Park consists of open space adjacent to the north and south of the M5 between Bexley North and Kingsgrove. The open space varies in width along the route and is typically 10 to 30m in width along its route on both sides of the M5. The park consists of a shared path along the length of the park on both sides of the M5. The M5 Linear Park contains of four underpasses which enables pedestrian and cycle connectivity across the M5.

Currently, a regional cycle route runs parallel to the M5 East Motorway on both the north and south providing good quality access for pedestrians and cyclists travelling from King Georges Road in the west to Bexley Road in the east. This route consists of a 3 meter wide shared path with lighting on north and south of the M5 along its extent. The M5 East Linear Park cycle way access to this route from the north is relatively good while access to the south is limited due to the large industrial lots and Wolli Creek channel providing barriers to the shared path. Access from the east is limited as there is lack of connections beyond Bexley Road towards the east.

Connections to the M5 East Linear Park to the west exit via the improved pedestrian crossings at King Georges Road. Paths then continue west on the south side of the M5.

A section of the M5 Linear Park ATN will be temporarily removed as part of the construction of the New M5 western tunnel entry and exit portals. The ATN network will be reinstated after the construction works to its equivalent condition.

A copy of the design drawings for the new sections of 3m shared pathway delivered by the King Georges Road Interchange Upgrade Project and the New M5 Project are included as appendix 05.
Figure 5.01 - M5 East Linear Park Overview
Source: Roads and Traffic Authority NSW 2004

Legend
Regional Routes - Council

1. King Georges Road Overpass
2. M5 East Cycleway
3. Wolli Creek Channel
4. Kingsgrove Avenue Reserve

NOTE: “Regional Route - Council” include both existing and planned routes
5.2 KING GEORGES ROAD INTERSECTION

The Westconnex Stage 2 M5 King Georges Road Interchange Upgrade investigated options to improve the King Georges Road intersection for pedestrians and cyclists. This was addressed as part of the "Cyclist and Pedestrian Access Strategy: Part 2 Implementation".

Westconnex completed a design review and feasibility assessment of the options presented in the EIS. An option to modify the signals at the intersection was also considered which included introducing a signal to the northern side of the intersection.

This option was accepted and the design for a modified signal intersection was further progressed. The approved design is shown in the following Figure 5.02. It will enable a pedestrian or cyclist to cross from the north western corner to the north eastern corner of King Georges Road during peak periods within 1 minute of activating the crossing request. The study notes that the validity of this option is predicated on low pedestrian and cyclist use in peak periods in order not to compromise the vehicle traffic efficiency at the intersection.

The TCS 2811 option is a better solution than the proposals put forward in the EIS which will result in an improved outcome for pedestrians and cyclists. This scope of work has been included in the King Georges Road Interchange Upgrade Project, with the work currently in progress. The revised traffic intersection will be completed and operational by the end of February 2017.
Figure 5.02 - King Georges Road Upgrade, TCS 2811

Legend
- Proposed Pedestrian / Cycle Crossing
- Existing Pedestrian / Cycle Crossing
- Existing Pedestrian / Cycle Shared Path
6.0 Conclusion
6.1 CONCLUSION

This report has reviewed the existing ATN network route plans, existing ATN routes and the proposed routes as part of WestConnex New M5. A condition of this review is that there is not a reduced level of cycle and pedestrian infrastructure. With regards to the condition this review has found that there is not a reduced level of cycle and pedestrian infrastructure and specifically:

- There is an improved level of pedestrian and cycling infrastructure at St Peters Interchange including construction of a number of shared and separated paths
- There is a similar level of pedestrian and cycling structure in Kingsgrove/Bexley North after the reinstatement of the M5 East Linear Path northern shared path
- There is no substantive change to the pedestrian and cycling infrastructure along the “M5 East Green Link”

The following sections summarises the outcomes of this review on the impacts on pedestrian and cycling infrastructure as well as identification of proposed changes to improve the connectivity of the proposed New M5 pedestrian and cycling network to existing and planned local and regional networks.

St Peters Interchange

The current ATN network is limited in the vicinity of the SPI. The SPI will add connectivity to the former landfill, a site that currently has no connectivity and will provide further connectivity to the south through the future Sydney Gateway proposal. After completion of these two projects there will be a link from the airport and Alexandria Canal ATN in the south to Sydney Park and Bourke St Cycleway in the north.

As well as key regional level connectivity, there is enhanced local ATN connectivity to be provided as part of the SPI. This is outlined in the table below.

A number of connection links for further investigation were identified for the ATN at

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Length</th>
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<tbody>
<tr>
<td>Campbell Road cycle path</td>
<td>Separated cycleway along Campbell Road between Bourke Street and Unwins Bridge Road</td>
<td>1300 m</td>
</tr>
<tr>
<td>Alexandra Canal Bridge</td>
<td>New bridge providing connectivity between Mascot and St Peters and Sydney Park</td>
<td>100 m</td>
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<tr>
<td>Bourke Road separated cycle path</td>
<td>Shared cycleway along Bourke Road between Campbell Road and Church Ave</td>
<td>650 m</td>
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<tr>
<td>Campbell Road Landbridge</td>
<td>Improved connectivity into Sydney Park over Campbell Road</td>
<td>20-50 m</td>
</tr>
<tr>
<td>SPI Shared path</td>
<td>Shared path along Canal Road linking to future Sydney Gateway ATN</td>
<td>750 m</td>
</tr>
<tr>
<td>Sydney Park shared path (subject to further discussion with CoS)</td>
<td>Shared path along Sydney Park Road between Mitchell Road and Euston Road</td>
<td>700 m</td>
</tr>
<tr>
<td>New signalised intersection</td>
<td>Providing improved connectivity at Euston Road and Campbell Street</td>
<td>N/A</td>
</tr>
<tr>
<td>New signalised intersection replacing 2 lane round-about</td>
<td>Providing improved connectivity at Euston Road and Sydney Park Road</td>
<td>N/A</td>
</tr>
<tr>
<td>New signalised intersection replacing zebra crossing</td>
<td>Providing improved connectivity at Campbell St and St Peters St</td>
<td>N/A</td>
</tr>
</tbody>
</table>

The following figure shows the connectivity gaps which are to be addressed in planning condition B51 and as part of the King Street Gateway.
Figure 6.01 - Connectivity gaps to be addressed in B51

NOTE: “Regional Route - Council” include both existing and planned routes.
The ATN at SPI plays an important component in linking concurrent and future ATN projects which are planned including:

- City of Sydney Alexandria Canal path
- King St Gateway ATN network
- Sydney Gateway path network
- Alexandria to Moore Park path network

**M5 Green Link (Mascot to Bexley North)**

A review of the M5 Green Link has been undertaken. This review found that:

- The eastern section along Alexandra Canal from Coward Street to Marsh Street was constructed including a link to Tempe Recreational Reserve in the south.
- The central eastern section was not constructed between Princes Highway and Turella as considerable re-development was under construction (e.g. Discovery Point at Wolli Creek) and this infrastructure was expected to be completed as part of the re-development. However, this infrastructure was not constructed as part of the re-development.
- The central western section between Turella and Bexley North was not constructed. The original preferred route along the rail line was not achievable due to a combination of technical cost and timing constraints. Alternate routes were considered including a route along Wolli Creek which was not considered acceptable by sections of the local community due to its potential impacts on the health of the Wolli Creek bushland reserve. A large number of on-road routes were considered but each of these routes included constraints which limited suitability including steep terrain and/or narrow road carriageways.
- The western section along the M5 Linear Park between Bexley North and Kingsgrove was constructed as a shared path on both sides of the existing M5.

The key existing impediment to the M5 Green Link is the section between Turella and Bexley North. A number of recent strategies, including by Council and RMS, have considered sections of this route but are not considered to have fully resolved the constraints or provided a regional ‘Green Link’ connection.

This review found that the M5 Green Link between Turella and Princes Highway is an important link in a regional ATN, as it links key destinations and existing ATN routes. This review has identified a number of issues in the historical implementation of the M5 East Green Link. All of these historical issues remain to date as do the various preferences and requirements of landowners and stakeholders regarding the preferred route.

Resolution of these issues and determination of the preferred route would require more time and resources due to the complexity of the route planning, the land ownership, the local site factors and the preferences of the various landowners and stakeholders.

As the M5 East Green Link is an important regional link, it is recommended that further options be developed and a preferred route is identified. The key step for this to occur is discussions with landowners and stakeholders. It is noted that while there may be differences in the preferred route alignment between stakeholders, there is general agreement on the requirement for the M5 East Green Link as an important component of regional ATN infrastructure.

A process to identify and further develop the preferred option for the M5 East Green Link is outlined below:

- Meet with key landowners, particularly Railcorp, NPWS, local Councils and Discovery Point development as well as local Councils to obtain their current position on co-location of regional ATN infrastructure within their land.
- Identify and meet with relevant stakeholders and their key contacts (including Bicycle NSW, community groups such as the Wolli Creek Preservation Society, local residents) and obtain their current position on the development of the regional ATN infrastructure.
- Document key issues and outcomes of stakeholder and landowner consultation.
- Develop route options based on stakeholder and landowner consultation.
- Undertake consultation with landowners on the route options focusing on the proposed routes on their land.
- Shortlist route options based on discussions with landowners and present shortlisted route options to all relevant stakeholders to determine preferred routes.
- Refine shortlisted route options based on discussion with stakeholders and undertake further focussed consultation with relevant landowners as required.
- Document and report on outcomes of route planning options and preferred route option.

**M5 East Linear Park (Kingsgrove to Bexley North)**

There are temporary impacts associated with construction due to the impacts on sections of the shared path along the M5 Linear Path. However, these impacts are minor due to the alternatives available including use of alternate shared paths. Post construction, the existing level of cyclist and pedestrian will be maintained after the re-construction of the existing shared paths to the same standards as existing shared paths.
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APPENDIX

2. Stakeholder Workshop Meeting Presentation
3. Sample notifications of road and pathway modifications around SPI
4. Safety Audit
5. M5 Linear Park - Shared Path Upgrade
APPENDIX 01

WestConnex Stage 2 – Planning Conditions B50 – Pedestrian and Cycle Implementation Strategy

Name of meeting: WestConnex Stage 2 - Planning Conditions B50 Pedestrian and Cycle Implementation Strategy
Location of meeting: City of Sydney Council, Town Hall House
Meeting facilitator: Grant Sutton, Project Manager, RMS
Date: 18 November 2016
Attendees: Bryony Cooper (BC), CoS
Elise Webster (EW), CoS
Rene Chau (RC), Canterbury Bankstown Council
Simon Lowe (SL), Inner West Council
Michael Lee (ML), Bayside Council
Ray Rice (RR), Bicycle NSW
Leon Paap (LP), RMS
Wayde Hazelton (WH), RMS
Grant Sutton (GS), RMS
David Knights (DK), McGregor Coxall
Logan Pennington (LoP), McGregor Coxall

Subject: Review of Pedestrian and Cycling Network and M5 East Green Link

<table>
<thead>
<tr>
<th>Meeting Minutes</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
| The Review of the WestConnex and Council existing and / or proposed cycleways and routes were presented and the previous state of planning for the M5 East Green Link (refer attached presentation) | DK to amend plans
| Comments:       | DK to include in next revision |
| • A comment was received on inclusion of Alexandra Canal and it was agreed that this was an error that this was not included |

2               |        |
<p>| St Peters Interchange | Noted |
| Refer attached presentation for information presented on overall area and existing, planned and proposed New M5 Routes. It was noted that there was substantial redevelopment occurring and connectivity to key areas was discussed. | |
| • Discussion was held on the provision of facilities along the Sydney | |</p>
<table>
<thead>
<tr>
<th>Meeting Minutes</th>
<th>ACTION</th>
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| Gateway project | • The loss of connection along Qantas Drive was discussed and raised as a major issue. Councils and RMS support keeping the ATN link on Qantas Drive (BC/SL/RR/ML)  
  • Discussion was held on Euston Rd and the provision of ATN infrastructure along Euston Rd and street tree planting. It was noted that there were ongoing discussions about Euston Rd with City of Sydney which impacted on the proposed ATN along Euston Rd (BC)  
  • Alexandra Canal Bike Paths: Intended for eastern side to be completed by 2019 and western side was to be implemented by ongoing projects as they occurred (BC)  
  • The shared path along the northern boundary of the St Peters Interchange was supported, and it was noted that the safety (CPTED) for users of the shared path, width of the path and links at the south western end were the main outstanding concerns that needed to be addressed (SL/BC) | DK, GS to confirm  
  Noted;  
  Noted, DK to ensure consistency.  
  Noted, allowance for connectivity to be provided.  
  Noted, DK/GS to investigate |
| 3 M5 Linear Park | • Connectivity across King Georges Rd was raised as an issue and the requirement to minimise waiting times for cyclists and pedestrians to cross the interchange (RR)  
  • Bridge across King Georges Rd was discussed (RR). It was noted that a bridge was not currently proposed as part of the KGRI upgrade works (DK/GS)  
  • A query was raised about the existing widths and lighting of the shared paths in the linear park and whether they met current standards (RR)  
  • A query was raised about the proposed widths and lighting of the shared paths to be replaced in the linear park and what standards were to be provided (RR) | DK to further investigate  
  DK to investigate  
  DK to investigate |
| 4 M5 East Green Link | WH discussed his latest strategy as part of the principle bicycle network planning.  
  Noted:  
  • The M5 Green Link was noted as an important link between south-western Sydney and the airport (RR, WH)  
  • Canterbury Council has proposed an on-road route along the north side, but that this was only considered as a local route/connection (RC)  
  • There was discussion about the route and the preferred route and potential options (All)  
  • Bicycle NSW indicated that there was a preference for an important regional route such as this to be an off road route, as direct as possible (RR)  
  • It was noted that previous historical concerns about impacts on Wolli Creek may have changed with time due to improvements in construction approaches | DK to include comments in report. |
| 5 Further Actions: | • RMS to finalise and issue B50 report  
  • RMS to incorporate comments and to further develop concepts as part of B51 report | DK/GS  
  GS |
APPENDIX 02

M5 East Green Link Presentation
M5 EAST GREEN LINK ACTIVE TRANSPORT NETWORK

Workshop
18.11.2016
M5 East Motorway Bicycle Planning Report 1994
RTA Bikemap (draft)
On Road Tunnel Alternatives
Steep Grade
Narrow Road
Speed Humps
Bexley Rd
Bardwell Park Station
Bexley North Station
Slade Rd
Darley Rd
Wolli Ave

M5 East Motorway
Bicycle Planning Report
1994