



MINISTER FOR THE ENVIRONMENT AND HERITAGE

Statement No.

000595

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED  
(PURSUANT TO THE PROVISIONS OF THE  
ENVIRONMENTAL PROTECTION ACT 1986)**

**CONSTRUCTION AND USE OF THE TONKIN HIGHWAY EXTENSION FROM MILLS  
ROAD WEST, GOSNELLS TO SOUTH WESTERN HIGHWAY, MUNDIJONG**

**Proposal:** The design, construction and use of the Tonkin Highway extension from Mills Road in Gosnells to the South Western Highway in Mundijong, as documented in schedule 1 of this statement.

**Proponent:** Main Roads Western Australia

**Proponent Address:** PO Box 6202, Perth WA 6892

**Assessment Number:** 1367

**Report of the Environmental Protection Authority:** Bulletin 1043

The proposal referred to above may be implemented subject to the following conditions and procedures:

*Procedural conditions*

**1 Implementation and Changes**

1-1 The proponent shall implement the proposal as documented in schedule 1 of this statement subject to the conditions of this statement.

1-2 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is substantial, the proponent shall refer the matter to the Environmental Protection Authority.

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- 1-3 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is not substantial, the proponent may implement those changes upon receipt of written advice.

## **2 Proponent Commitments**

- 2-1 The proponent shall implement the environmental management commitments documented in schedule 2 of this statement.
- 2-2 The proponent shall implement subsequent environmental management commitments which the proponent makes as part of the fulfilment of the conditions in this statement.

## **3 Proponent Nomination and Contact Details**

- 3-1 The proponent for the time being nominated by the Minister for the Environment and Heritage under section 38(6) or (7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal until such time as the Minister for the Environment and Heritage has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal.
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent and provide a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.
- 3-3 The nominated proponent shall notify the Department of Environmental Protection of any change of contact name and address within 60 days of such change.

## **4 Commencement and Time Limit of Approval**

- 4-1 The proponent shall provide evidence to the Minister for the Environment and Heritage within five years of the date of this statement that the proposal has been substantially commenced or the approval granted in this statement shall lapse and be void.

Note: The Minister for the Environment and Heritage will determine any dispute as to whether the proposal has been substantially commenced.

- 4-2 The proponent shall make application for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement to the Minister for the Environment and Heritage, prior to the expiration of the five-year period referred to in condition 4-1.

The application shall demonstrate that:

- the environmental factors of the proposal have not changed significantly;
- new, significant, environmental issues have not arisen; and
- all relevant government authorities have been consulted.

Note: The Minister for the Environment and Heritage may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.

### *Environmental conditions*

## **5 Compliance Audit and Performance Review**

5-1 The proponent shall prepare an audit program in consultation with and submit compliance reports to the Department of Environmental Protection which address:

- the implementation of the proposal as defined in schedule 1 of this statement;
- evidence of compliance with the conditions and commitments; and
- the performance of the environmental management plans and programs.

Note: Under sections 48(1) and 47(2) of the *Environmental Protection Act 1986*, the Chief Executive Officer of the Department of Environmental Protection is empowered to audit the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement. Usually, the Department of Environmental Protection prepares an audit table which can be utilised by the proponent, if required, to prepare an audit program to ensure that the proposal is implemented as required. The Chief Executive Officer is responsible for the preparation of written advice to the proponent, which is signed off by either the Minister or, under an endorsed condition clearance process, a delegate within the Environmental Protection Authority or the Department of Environmental Protection that the requirements have been met.

5-2 The proponent shall submit a performance review report every five years after the start of construction, to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority, which addresses:

- the major environmental issues associated with the project; the targets for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those targets;
- the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable;
- significant improvements gained in environmental management, including the use of external peer reviews;

- stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
- the proposed environmental targets over the next five years, including improvements in technology and management processes.

Dr Judy Edwards MLA  
MINISTER FOR THE ENVIRONMENT AND HERITAGE

12 JUN 2002

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- the proposed environmental targets over the next five years, including improvements in technology and management processes.

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## Schedule 1

### The Proposal (Assessment No. 1367)

The proposal is to design, construct and use the extension of the Tonkin Highway from Mills Road West to the South Western Highway. The highway is approximately 32 kilometres in length and includes the design, construction and use of a highway of six lanes from Mills Road West to Mundijong Road, and four lanes from Mundijong Road to the South Western Highway within the "footprint" depicted in Figures 1 and 2.

The road construction will largely be contained within the existing Metropolitan Region Scheme reservation, but will extend beyond to a minor extent in some areas.

**Table 1: Key Characteristics of Approved Proposal**

Element	Description
Proposal Description	Design, construction and use of a highway of six lanes from Mills Road West to Mundijong Road and four lanes from Mundijong Road to South Western Highway (ultimate) within the 'footprint' depicted on Figures 1 and 2. The proposal includes construction of all road pavements, access roads, drainage basins, drains, medians, 'at grade' intersections, 'grade separated' interchanges, ramps, traffic signals, associated earth works, dual-use paths, bridges, culverts, lighting, noise barriers, under passes, over passes, fencing, landscaping and signs.
Length of highway	Approximately 32 kilometres.
Area of road reserve	Approximately 416 hectares.
Typical cross-section (3 lanes)	6 metres for drains, 33 metres for pavement and shoulder, 10 metres for median, 4.5 metres for dual-use path (53.5 metres total).
Typical cross-section (2 lanes)	6 metres for drains, 25 metres for pavement, shoulder and verge, 4 metres for median, 3.5 metres for dual-use path (38.5 metres total).
Road area	Approximately 190 hectares (includes interchanges).
Area of construction	Approximately 260 hectares (includes batters and drainage basins).
Area to be revegetated	Approximately 250 hectares (includes batters and drainage basins).
Construction duration	The highway will be constructed and upgraded in stages from Gosnells to Mundijong: Lanes will be added over time and 'at grade' intersections will be replaced with grade separated interchanges, as traffic demand increases. It is expected that construction will occur to Armadale Road by 2004 and to the South Western Highway by 2006.
Grade separated intersections and connections	Mills Road East and West *, Albany Highway, Corfield Street, Champion Drive *, Ranford Road*, Armadale Road, Forrest Road*, Rowley Road*, Thomas Road*, Orton Road*, Bishop Road, Mundijong Road*(roundabout), Shanley Road* and South Western Highway*. * Initially 'at grade' intersections.

Bridges	Canning River, two bridges Southern River, one bridge; and Wright Street one bridge.
General Standard of Design and Construction	Design Speed 80 to 100 kilometres per hour - Austroads and Main Roads Western Australian standards.
Construction material source	Road mostly constructed on fill. All materials sourced by Design and Construction contractor from approved sources (eg sand mines) and suppliers.

**Definitions**

‘Footprint’: the actual area which will be used for the highway.

‘At grade’ intersection: an intersection with both roads on the same level.

**Figures (attached)**

Figure 1 - Locality of the Tonkin Highway extension within the south-east Metropolitan region.

Figure 2 (sheets a to d) – ‘Footprint’ of the extension.

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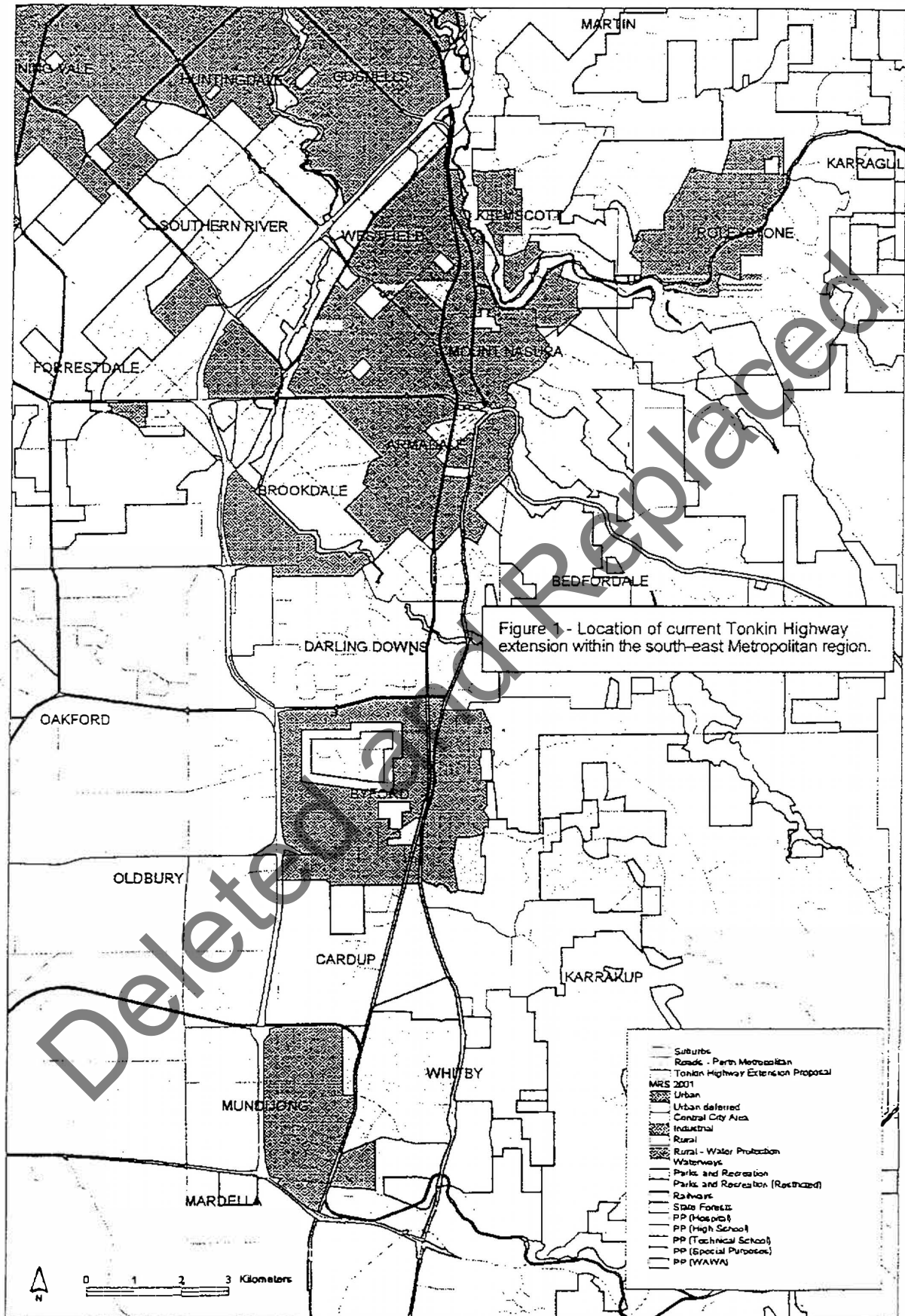


Figure 1: Location of current Tonkin Highway extension within the south-east Metropolitan region.

Figure 2a - Tonkin Highway Proposal Definition

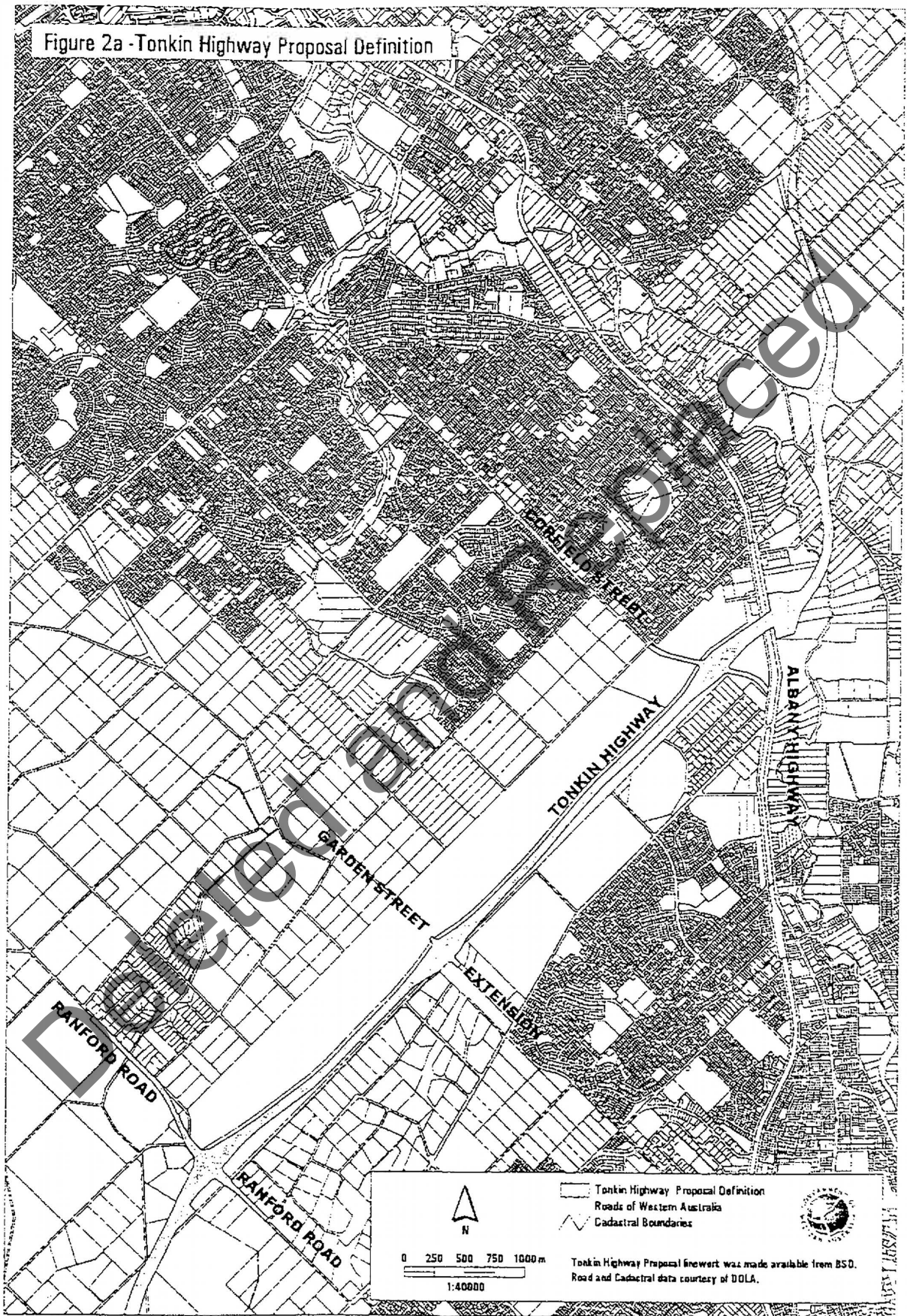


Figure 2a: Footprint of the proposed extension.

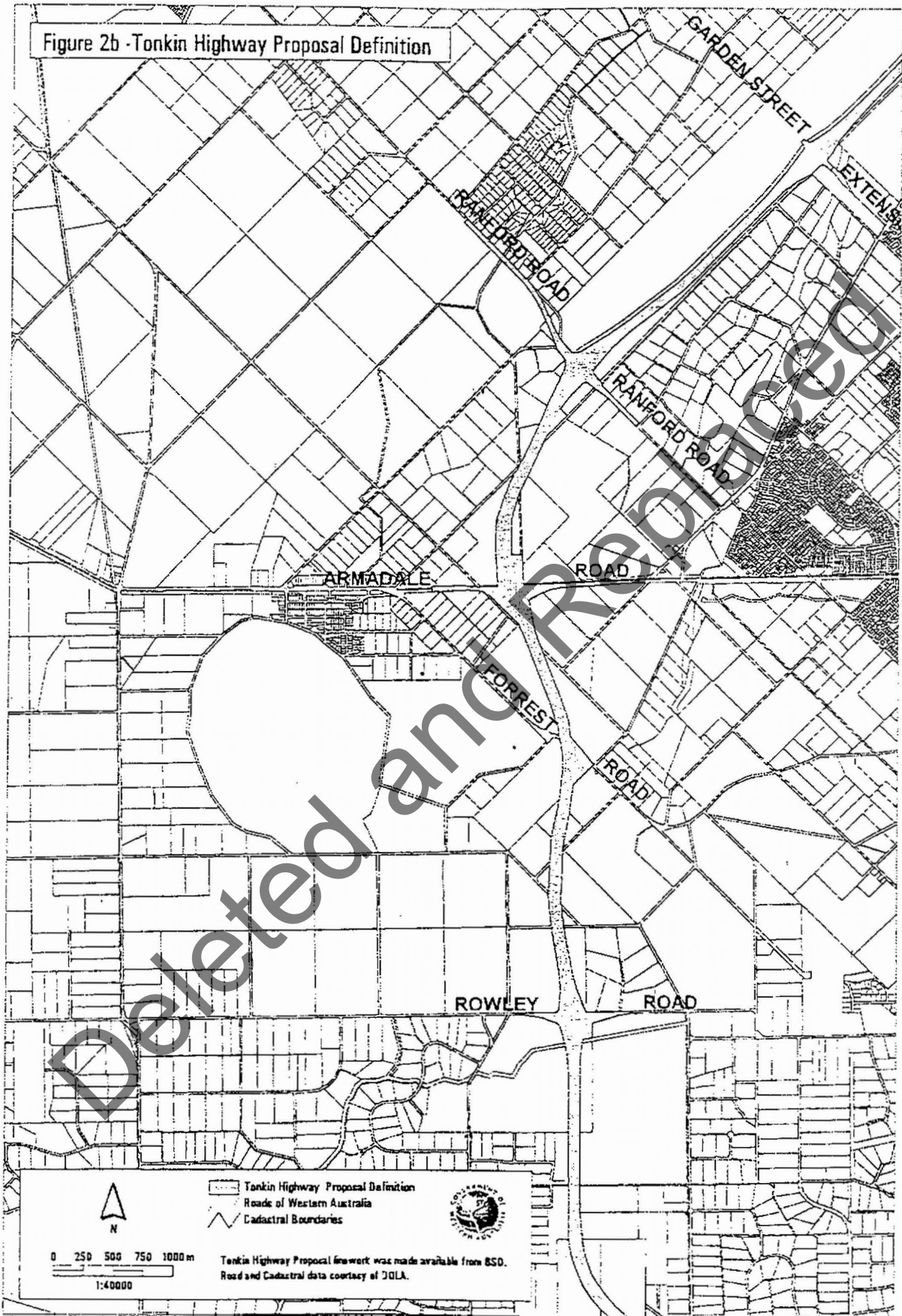


Figure 2b: Footprint of the proposed extension.

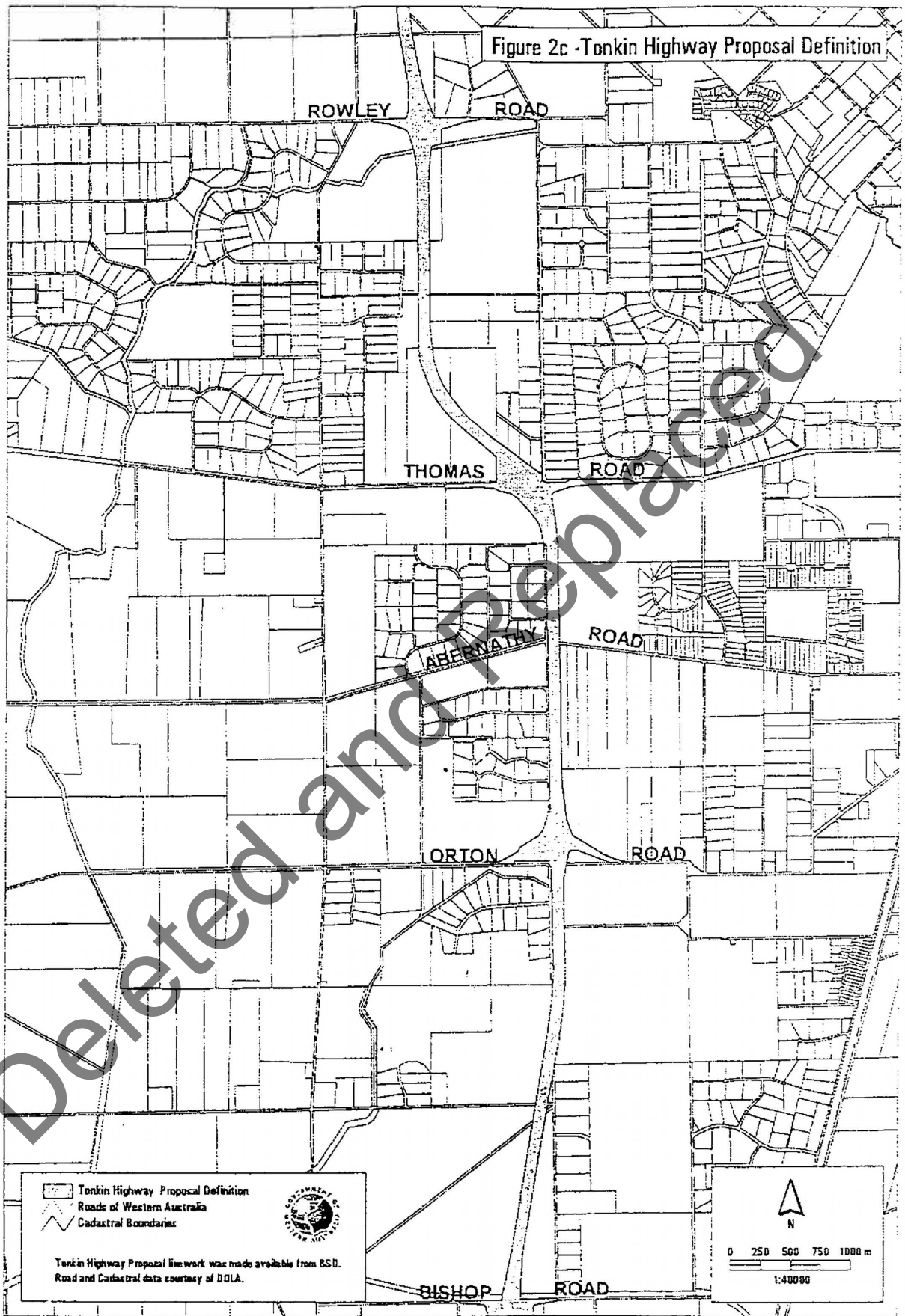


Figure 2c: Footprint of the proposed extension

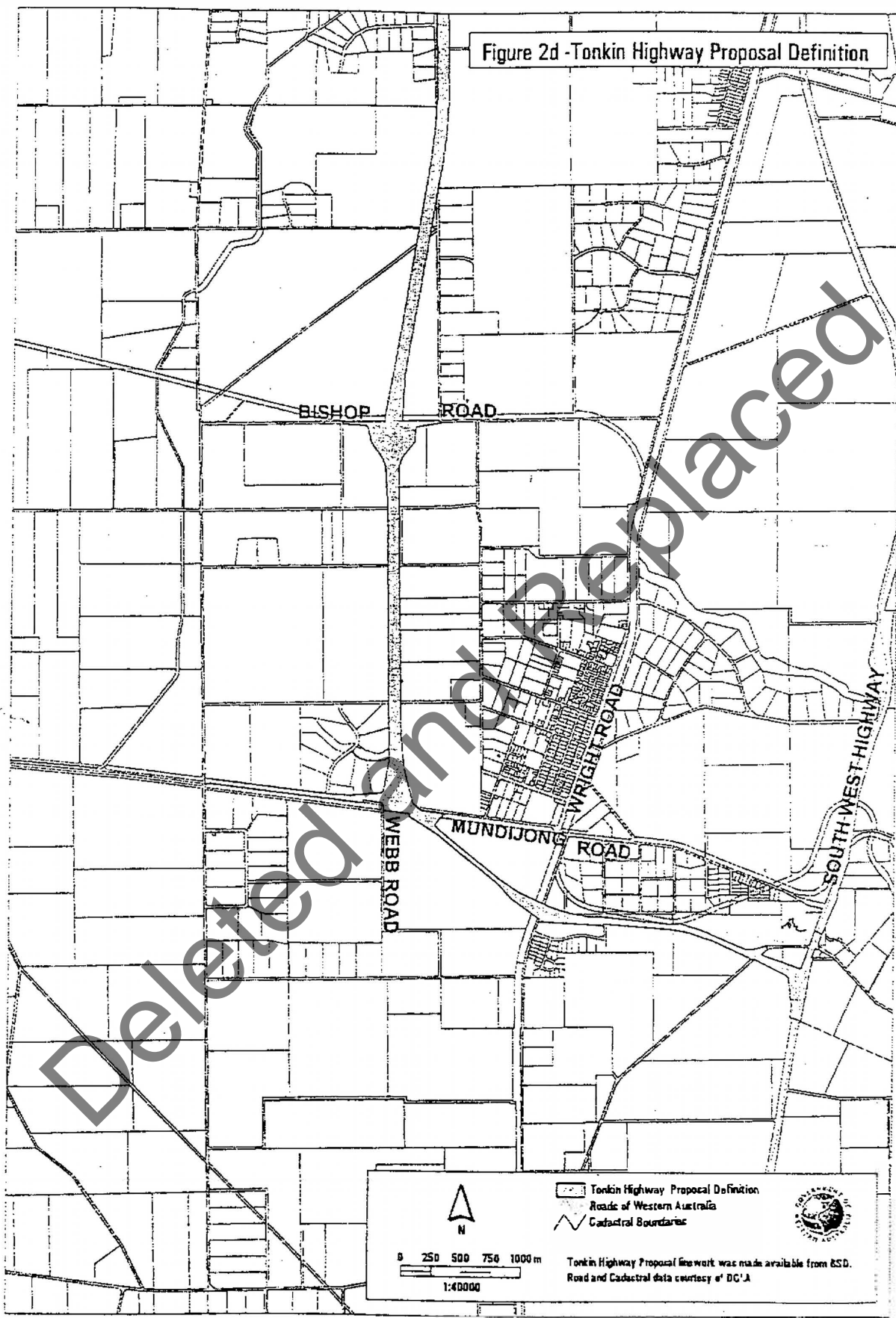


Figure 2d: Footprint of the proposed extension.

**Proponent's Environmental Management Commitments**

7 June 2002

TONKIN HIGHWAY EXTENSION FROM MILLS  
ROAD WEST, GOSNELLS TO THE SOUTH  
WESTERN HIGHWAY, MUNDIJONG  
(Assessment No. 1367)

Main Roads Western Australia

**PROPONENT'S ENVIRONMENTAL MANAGEMENT COMMITMENTS - TONKIN HIGHWAY EXTENSION FROM MILLS ROAD WEST, GOSNELLS TO THE SOUTH WESTERN HIGHWAY, MUNDIJONG (ASSESSMENT NO. 1367)**

	Topic	Action	Objective	Timing	Advice
1.	Design and Construction Environmental Management Plan	<p>Prepare a Design and Construction Environmental Management Plan which addresses:</p> <ul style="list-style-type: none"> <li>• measures to limit clearing (eg. exclusion fencing and retaining walls at Mundijong Road);</li> <li>• environmentally significant areas;</li> <li>• protection of Declared Rare and Priority flora (e.g. <i>Tetraria australiensis</i> – Mundijong Road);</li> <li>• hygiene measures to minimise the spread of diseases (ie. dieback – Area 1 (north of Wright Lake), Areas 4 (~400 metres south of Armadale Road) and 5 (Mundijong Road) and weeds;</li> <li>• water quality, erosion and sedimentation control;</li> <li>• construction noise and vibration;</li> <li>• Aboriginal and European heritage;</li> <li>• Property condition surveys;</li> <li>• dust management;</li> <li>• fire management;</li> <li>• registers of waste materials/contamination, monitoring and site audit sheets;</li> <li>• movement, storage and refuelling of machinery during construction;</li> <li>• storage and handling procedures for all construction materials and hazardous chemicals;</li> <li>• hazardous spill contingency plan;</li> <li>• contamination contingency plan;</li> <li>• potential contamination at Pt. Lot 19 Manning Road and Lot 1 Shanley Road;</li> </ul>	<p>Ensure that construction (direct and indirect) impacts are minimised on flora, fauna, wetlands, significant flora, Bush Forever sites, surface and groundwater quality, nearby residents and buildings, Aboriginal and European heritage sites.</p>	<p>Prior to site preparation work commencing.</p>	

	Topic	Action	Objective	Timing	Advice
		<ul style="list-style-type: none"> <li>• dewatering and water supply;</li> <li>• description of environmental standards, safeguards and emergency responses;</li> <li>• schedules for corrective action and verifications;</li> <li>• licensing requirements and approvals;</li> <li>• management structure and reporting;</li> <li>• community liaison;</li> <li>• environmental briefing/training/induction of personnel;</li> <li>• monitoring; and</li> <li>• progress and compliance reporting.</li> </ul>			
2.	Design and Construction Environmental Management Plan	Implement the Design and Construction Environmental Management Plan required by commitment 1.	Achieve the objectives of commitment 1.	During construction.	
3.	Landscape and Revegetation Strategy	Prepare a Landscape and Revegetation Strategy which addresses: <ul style="list-style-type: none"> <li>• visual amenity and wetland creation and enhancement;</li> <li>• plant/seed source and propagation methods;</li> <li>• fertilisation and irrigation if appropriate/required;</li> <li>• topsoil management and compaction;</li> <li>• mulching and soil stabilisation;</li> <li>• weed control;</li> <li>• soil and plant source material hygiene;</li> <li>• timing and implementation schedule;</li> <li>• monitoring and completion criteria;</li> <li>• landscaping maintenance; and</li> <li>• progress and compliance reporting.</li> </ul>	Minimise impact on vegetation, fauna, significant flora, Bush Forever sites, wetlands, water quality and visual amenity. Provide linkages, habitat and impact mitigation.	Prior to site preparation work commencing.	

	Topic	Action	Objective	Timing	Advice
4.	Landscape Revegetation Management Plan and	Prepare a Landscape and Revegetation Management Plan consistent with commitment 3.	Provide greater detail consistent with the objectives in commitment 3.	During design and site preparation works, but before construction of each stage(s).	
5.	Landscape Revegetation Management Plan and	Implement the Landscape and Revegetation Management Plan required by commitment 4.	Achieve the objectives of commitment 3.	During construction.	
6.	Vegetation Mitigation Strategy	<p>Prepare a Vegetation Mitigation Strategy to offset the loss of vegetation on the southern side of Mundijong Road and dryland Threatened Ecological Communities along the highway.</p> <p>The Strategy will address:</p> <ul style="list-style-type: none"> <li>• weed control;</li> <li>• access control;</li> <li>• interface and edge effects with Tonkin Highway;</li> <li>• rehabilitation of old materials dump area near the rail crossing;</li> <li>• conduct flora and fauna surveys of the Mundijong Road crossing area to locate any listed species;</li> <li>• restoration of Marri vegetation along Mundijong Road (eastwards to Paterson Road)</li> <li>• rehabilitation or acquisition of other suitable sites to mitigate dryland Threatened Ecological Communities (eg. Bush Forever site 345);</li> <li>• professional seed collection for inclusion in future restoration programs in the Marri Woodland Community; and</li> <li>• provision of educational or informative signage.</li> </ul>	Minimise impacts on vegetation along Mundijong Road and comply with the <i>Wildlife Conservation Act 1950</i> . Mitigate for the loss of vegetation at Mundijong Road and dryland Threatened Ecological Communities along the proposal.	Submit for approval prior to 31 December 2002.	CALM (for Mundijong Road Crossing)

	Topic	Action	Objective	Timing	Advice
7.	Vegetation Mitigation Strategy	Implement the Vegetation Mitigation Strategy referred to in commitment 6.	Achieve the objectives of commitment 6.	Progressively and within 12 months of vegetation being lost/impacted or as soon as practicable.	
8.	Fauna crossings	Provide fauna crossings.	Minimise impact on fauna.	During construction.	
9.	Wetland Mitigation Strategy	<p>Prepare a Wetland Mitigation Strategy in consultation with key stakeholders, including community and conservation groups which addresses:</p> <ul style="list-style-type: none"> <li>• assessment of values and functions lost and gained;</li> <li>• details of wetlands to be acquired;</li> <li>• specific areas/lots for wetlands enhancement and creation;</li> <li>• vesting and long term management responsibility of wetlands outside the road reserve;</li> <li>• landscaping and revegetation;</li> <li>• drainage management;</li> <li>• monitoring and maintenance; and</li> <li>• compliance reporting.</li> </ul>	Minimise impacts on wetlands to achieve no net loss of values and functions.	During design and site preparation work.	WRC

	Topic		Action	Objective	Timing	Advice
10.	Wetland Strategy	Mitigation	Implement the Wetland Mitigation Strategy referred to in commitment 9.	Achieve the objectives of commitment 9.	Progressively and within four years of particular wetlands being lost/impacted or as soon as practicable.	
11.	Drainage Strategy	Management	Prepare a Drainage Management Strategy which addresses: <ul style="list-style-type: none"> <li>• an assessment of the expected stormwater treatment efficiency of the drainage system and justification that the system incorporates all of the principles of current best practice (i.e. source control and treatment train approach);</li> <li>• landscaping and amelioration (eg. red mud); and</li> <li>• a five year water quality monitoring program.</li> </ul>	Minimise impacts on surface and groundwater quality from storm water and vehicle accidents.	Prior to construction of drainage infrastructure.	WRC
12.	Drainage Strategy	Management	Implement the Drainage Management Strategy required by commitment 11.	Achieve the objectives of commitment 11.	During construction of drainage infrastructure.	
13.	Noise Management Plan		Prepare a Noise Management Plan which addresses: <ul style="list-style-type: none"> <li>• design issues;</li> <li>• noise modelling for the whole highway taking into account topography, cadastral information, dwelling locations, road design (including elevation), road surfaces and traffic volumes location of noise-sensitive premises;</li> </ul>	Minimise noise impact on sensitive premises.	Prior to design.	DEP

	Topic	Action	Objective	Timing	Advice
		<ul style="list-style-type: none"> <li>• noise criteria (including intersections);</li> <li>• noise management measures;</li> <li>• implementation timing of noise management measures;</li> <li>• visual amenity/impact of noise barriers</li> <li>• monitoring; and</li> <li>• compliance reporting.</li> </ul>			
14.	Noise Management Plan	<p>Implement the Noise Management Plan required by commitment 13 in accordance with the following:</p> <ul style="list-style-type: none"> <li>• Manage noise from the highway such that existing residents are not exposed to a noise level above 55 dB(A) <math>L_{Aeq,Night}</math>.</li> <li>• Adopt a 'best practicable' approach such that a noise level below 55 dB(A) <math>L_{Aeq,Night}</math> will be investigated and implemented. (Note: 'practicable' as defined by the <i>Environmental Protection Act</i>)</li> <li>• Where future urban land has been zoned in the MRS allow land developers, where reasonable and appropriate, to construct noise management measures (noise walls or barriers) in the road reserve.</li> </ul>	Achieve the objectives of commitment 13.	During construction.	DEP
15.	Community Consultation Strategy .	<p>Prepare a Community Consultation Strategy which:</p> <ul style="list-style-type: none"> <li>• identifies relevant community stakeholders including nearby residents, residents' groups, environmental groups and local government who might provide input into the preparation of the Plans and Strategies (commitments 1, 3, 6, 9, 11 and 13). Input will ensure that each Plan or Strategy achieves the objectives and criteria established by the Environmental Protection Authority (Bulletin 1043); and</li> <li>• includes the establishment of stakeholder reference groups to provide input into the preparation of plans and strategies for commitments 1, 3, 6, 9, 11 and 13.</li> </ul>	To ensure further consultation is undertaken with relevant community stakeholders relating to the above plans and strategies.	Approved for implementation within one month following the formal authority issued to decision-making authorities under section 45(7) of the <i>Environmental Protection Act</i> .	DEP

	Topic	Action	Objective	Timing	Advice
16.	Community Consultation Strategy.	Implement the Community Consultation Strategy required by commitment 15.	Achieve the objectives of commitment 15.	Consultation to be undertaken prior to the approval of each of the plans or strategies for commitments 1, 3, 11 and 13. Any significant changes must be referred back to stakeholders. Consultation for commitments 6 and 9 to be ongoing throughout the project.	

#### Notes

Site preparation includes surveying and preliminary earthworks.

Construction includes final earthworks, bridges, road base and asphalt, drainage features, noise barriers and paths.

#### Abbreviations

CALM: Department of Conservation and Land Management

DEP: Department of Environmental Protection

MRS: Metropolitan Region Scheme

WRC: Water and Rivers Commission