



Reference Document 6

Requirements for Design Acceptance Submissions Issue 3

DOCUMENT OWNER	DATE APPROVED
Infrastructure Delivery	8 January 2026
	DATE EFFECTIVE
	12/1/2026
APPROVED BY	REVIEW DATE
Tim Rampton, A/g Executive Group Manager City Operations	December 2030

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1.0 PURPOSE

This document establishes the City and Environment Directorate (CED) design requirements to be included in any Submission requesting Letter of Design Review (Submission) for proposed public infrastructure works (Works). That is, approval is needed for works on public unleased land.

2.0 SCOPE

These Requirements apply to any formal Submission for all Works.

3.0 OBJECTIVES

The Requirements are issued to:-

- Define the information required by CED for any Submission to be accepted, reviewed, assessed, and ultimately endorsed.
- Encourage high quality Submissions with complete supporting documentation that complies with these Requirements.
- Enable the option to opt-out of Design review for certain, prescribed assets (see Section 5.2.9).

4.0 DEFINITIONS, TERMS AND ABBREVIATIONS

Developer

In the private sector, the organisation nominated in the Deed of Agreement as the 'Developer' including its employees, contractors, successors and agents.

In the public sector, the Land Development Agency (LDA) or any other ACT Government agency responsible for development of public infrastructure works in the ACT including its employees, contractors, successors and agents.

Coordinator

The Developer, the Head Consultant or the agent nominated by the Developer as being responsible for the coordination of all disciplines of design and documentation prepared and certified by the relevant Consultant/s and for the superintendence of the construction of the Works. The Coordinator shall be responsible for the lodgement of the Submission with CED and shall be the sole point of contact between Design Review and Asset Acceptance (DRAA), through the Project Lead, and the Developer throughout the life of the development. DRAA is not required to meet or communicate directly with any other entity or individual other than the nominated Coordinator on issues relating to the Submission.

Head Consultant

The organisation responsible on behalf of the Developer for the overall design and/or site superintendence of the whole of the Works and certification that the design and/or construction of the Works comply with these Requirements and the Standards.

Consultant

The organisation responsible for the overall design and/or site superintendence of part of the Works and certification that the design and/or construction of that part of the Works for which it is responsible to comply with these Requirements and the Standards. A Consultant may also act as the Head Consultant.

Design Review and Asset Acceptance (DRAA)

Design Review and Asset Acceptance (DRAA) is the section of CED responsible for coordinating the

Design Review submissions and Asset Acceptance process on behalf of CED.

DRAA Project Lead (Lead)

The Manager who will act as a single point of contact for the life of the project.

Chartered Engineer

An engineer who has the chartered status of Chartered Professional Engineer (CPEng) and is registered as such on the National Professional Engineers Register (NPER) administered by Engineers Australia. The Chartered Engineer must also be acceptable to, and meet the requirements of, the ACT Government and be suitably experienced in the type of engineering works involved in this project.

Standards

All Australian Standards, applicable written ACT Government standards, codes and guidelines and all statutory and regulatory requirements governing the design of the works.

Works

The public infrastructure works for which CED will become the ultimate owner and operator on behalf of the ACT Government.

Parks Conservation and Lands (PCL)

PCL is the section of CED responsible as Asset Owners for the maintenance of all public lands other than the road reserve areas and urban open space.

Assets

The completed Works.

Works Area (Area)

The area bounded by the approved Works boundaries and all road reserves, street verges, public open spaces and unleased Territory land adjacent to, and within ten metres of, the Works boundaries.

Design Acceptance via Letter of Design Review (LoDR)

Acceptance by CED that the design of the Works is acceptable to the extent that it complies with the plans, specifications and Requirements and has been satisfactorily completed. All documentation necessary for the construction of the Works shall be certified by the Consultant as appropriate and endorsed by the Coordinator as complying with the Requirements and the Standards and is fit for purpose. The issue of a Design Certificate does not transfer the responsibility for the integrity of the design to CED, nor does it in any way absolve the Coordinator, Head Consultant and Consultant from all care and responsibility for the integrity of the design and its compliance with the Requirements and the Standards.

5.0 PROVISION TO OPT-OUT OF DESIGN REVIEW FOR LOW IMPACT INFILL PROJECTS

Design Review processes are optional for infill projects with low impacts, and of low risk to Territory assets and services.

The decision to “opt-out” only pertains to identified low impact infill developments which include upgrade or construction of one or more of the specific Territory asset types listed below:

1. A driveway where it crosses the verge
2. A stormwater tie
3. Kerbside residential waste collection / onsite commercial waste collection
4. Footpaths
5. Streetlight relocation up to 5m
6. Trees planted within grassed / organic street verges (paved areas are excluded)

The provision to “opt-out” of Design Review does not apply to the following higher impact development projects:

- Significant developments as defined in the ACT planning system.
- Estate developments.
- Development projects in local centre, group centre or town centre environments.
- Works where the existing verge is paved or the verge is to be paved as part of the works.
- Development projects where construction of Territory asset types not included in the above list is part of the scope (e.g. roadworks, pavement construction works, stormwater upgrades, new streetlight installations, retaining wall works etc).
- Where the design includes at least one proposal for departure from standards.
- If flood modelling, traffic modelling, or any other modelling tasks are required to be undertaken as part of post Development Application design activities.

The following arrangements apply to a proposal to opt out of Design Review.

- Plans in relation to above items must be submitted at DA / WA stage for review
- At the end of the project, you must submit all certified documents to DRAA for Operational Acceptance in accordance with Reference Document 07, which will still be required. This includes certification of the Works in accordance with the requirements of Reference Document 07.
- In the event an asset certification is not deemed satisfactory, the Territory may choose to accept the asset and the associated remediation work and costs, or the Territory could refuse to accept the asset and require the developer to remediate.
- All works must be designed and constructed in accordance with the Municipal Infrastructure Standards (MIS) and Municipal Infrastructure Technical Specifications (MITS) and other applicable standards and specifications, and /or relevant ACT Government Guidelines. If compliance has not been achieved, the Territory may refuse

to accept the asset and require the developer to remediate, at the developers cost.

- Formal certification of the design are required, from the responsible Chartered Engineer and/or Chartered Landscape Architect as applicable. The Consultant shall certify that each design element prepared by the Consultant complies with the design criteria, the Standards, is suitable for end use and complies with all previous approvals.

6.0 GENERAL REQUIREMENTS FOR DESIGN REVIEW

Introduction

The request for LoDR shall be submitted under cover sheet AA-SCS-06 Design Review Submission Cover Sheet (refer Attachment A) and shall include the completed and endorsed checklist AA-DCL-06 (ext) LoDR Submission Checklist (refer Attachment B).

6.1 Documentation

The Submission shall be in the form of a Design Report and providing the following information:

1. **Certification** by the Consultant, endorsed by the Coordinator, that each design element prepared by the Consultant complies with the design criteria and the Standards and is suitable for end use.

The Consultant shall certify, and the Coordinator endorse, that the design comply with the Standards and all previous approvals .i.e. Estate Development Plans, Development Applications and Deed of Agreement. Any departure from the Standards will require documenting with justification from the Coordinator that the design element still meets the design criteria.

2. **The lodgement of the Submission by the Coordinator** shall include a clear unambiguous confirmation that the Submission satisfies the safety, operational and maintenance requirements for the Works together with a recommendation that the Submission be endorsed by CED.
3. **Final Design Drawings and Specifications** shall be individually signed by the responsible Chartered Engineer/Architect/Landscape Architect as applicable, as confirmation that the documents comply with the design criteria and the Standards. These documents shall then be endorsed by the Coordinator as fit for purpose.
4. The completed **Design Checklists** listed in the Attachment C verifying that all design work has been checked against the design criteria and complies with the Requirements and Standards.
5. A **list of all drawings** submitted including document numbers and revisions formatted in excel as per the example below:
6. Provide Dilapidation Report on Territory Land and Assets in the vicinity of the project site.

6.2 Design Report Components

6.2.1 Index

Index all sections of the Design Report so that records can be easily traced and located.

6.2.2 Project description

The Project Description shall commence with the reason for the proposed works: the intent of this is to make the Design Report self-explanatory without the need for recourse by CED to previous studies or other reports.

This shall be followed by a Synopsis of the Works-to-date recording all preparatory events leading to the Submission and include all reports developed and submitted during the Works definition stages.

The Design Report shall include and cross reference the DA and the Coordinator shall certify that the detailed design complies with the approved EDP and/or the Development Application (DA) / NCA Works Approval (WA) and any conditions of the approval.

The Design Report shall then elaborate on the details of the Works including, but not limited to:

- the **Scope** of the Works;
- a **Site plan** including the **Proposed Staging** and indicating the relationship with other stages as addressed by their Block and Section, Suburb and Street name(s);
- the **Works Title**; • the **Works Number**, and
- any other references.

List all **key parties** involved in the project including:

- Client
- Developer
- Project Manager
- Project Director
- Coordinator (the Developer or Head Consultant or the agent of the Developer)
- Consultant/s
- Proposed Superintendent (if known)
- Principal Contractor(s) (if known)
- Nominated Sub-contractors and Suppliers (if known)

6.2.3 Design Standards

The Coordinator shall provide a list of Standards used by the Consultant together with the methodology employed to validate that they are appropriate to the Works. Any interpretation of the Standards that deviate from the intent of the Standards, including sensitivity analysis, must be listed and provided together with specific reasons for not fully complying with the intent of the Standards.

6.2.4 Verification and Validation

The Coordinator shall advise the verification and validation processes used by the Consultant and provide written evidence that they have been undertaken in accordance with the Consultant's Quality Management System.

6.2.5 Draft Construction Surveillance Plan

Irrespective of which party is to undertake the construction supervision, the final design shall include a draft Construction Surveillance Plan including checklists and hold points prepared to comply with CED standard format.

6.2.6 Consultation

Include details of any consultation with stakeholders and the general public identifying any issues raised and the actions/outcomes proposed to address those issues.

6.2.7 Products

The Coordinator shall provide a list of all new and/or customer supplied products identified by makers name, model and model number together with certification that the product complies with the Standards.

6.2.8 Exception Clause

The Coordinator shall prepare and submit a list of any variances from, and/or non-compliances with, the requirements of this document and the Standards.

- Detailed design calculations such as hydraulic grade lines and structural calculations are not generally required to be submitted as part of the Design Report, however, CED may request such calculations as part of the detailed design assessment.
- The Submission must be complete and include all Civil, Landscape, TCDs and Street Lighting, and any other design elements of the Works.
- CED will not accept incomplete Submissions or Submissions from individual Consultants for separate design elements of the Works. Where CED considers the Submission to be incomplete, the Coordinator will be advised to this effect within one working day (i.e. by close of business the next working day following receipt of the Submission) and will be requested to collect the Submission from CED offices. Assessment will not commence until a complete Submission has been received. Upon receipt of the complete Submission, within two working days CED will acknowledge receipt confirming the date of Submission and nominating the Lead responsible for the progression of the Submission through the review and approval process: all communication by the Coordinator with CED shall be through the Lead.

6.3 Design Drawings and Specification

As part of the detailed design assessment, drawings shall be provided in all of the following formats

Electronic formats only

- One full set of AutoCAD drawings compliant with the latest version of 'Ref-11 CED Drafting Standard'.
- One full set of drawings in Adobe® PDF format created at a minimum size of A3 with a resolution of 600 DPI or higher. These drawings shall be oriented correctly with respect to the original.

The following design drawings and specifications shall be included in the Design Report:

- **Plan Index and/or Key Plan**
- **Landscape Management and Protection Plan (LMPP)**
- **Project Site Plans** showing the precise location of new road boundaries and/or the extent of the site requirements including access provisions, construction compound and spoil dumps. The Plans shall also indicate all existing and altered landforms, paved areas and planting, and the location of main services with floor plans.

- **General Arrangement Plans** showing all work, irrespective of type, illustrating in a simple and legible manner exactly what is involved in the Works.
- Where the design calls for the retention of existing works and services within the Area, or where adjacent property and assets are likely to be affected by the Works, a **Pre- construction Condition Survey** of existing works and services shall be provided.
- **Location Plan** showing the relationship of the Works site to existing buildings and landscape features.
- **Staging Plan.**
- **Survey and Setting Out** details.
- **Typical Cross-sections and Construction Details.**
- **Standard Details** of all civil and landscape infrastructure works.
- Details of work resulting from **Sub-surface Investigations.**

A full list of drawings for each type of development is included at Appendix D.

6.4 Operation and Maintenance - Technical Information

In addition to the design information required for the construction of the Works, the Design documentation shall include a separate report / drawings containing information vital to the safety, operation and maintenance of the Works at its optimum performance. This refers to such matters as:

- landscape and irrigation system design – operation and maintenance manuals;
- pumping stations - normal operating schedules, emergency procedures, special maintenance;
- GPT - maintenance manuals and instructions for cleaning;
- playground information including details, specifications and product information;
- proprietary products - repair, replacement and maintenance instructions; and
- WSUD Systems operation and maintenance manual.

6.5 Supplementary Submissions

Any supplementary Submissions, whether initiated by a request from CED or by a change of strategy by the Coordinator, must contain all the elements identified in Clause 6.1 together with reasons for the changes. In the event that the resubmission is a response to a request from CED, the Coordinator shall address point by point all the issues raised by CED in its request for changes.

Changes to any drawing submitted by the Coordinator shall be clearly highlighted by 'clouding' the areas changed and the inclusion of a table identifying the changes made and their sequence. The Submission will not be assessed until this information has been provided

7.0 ASSET SPECIFIC REQUIREMENTS

Where applicable to the specific asset, the following information shall be provided:

7.1 Roads

- a) If a Road Safety Audit is required as per previous advice or notice of decision (NOD) for the Works, a copy of the audit report on the design shall be provided as part of the Submission.
- b) Pavement Design Report including options study and whole of life costing analysis where $ESA > 106$.
- c) Pavement Plans showing all pavement types and materials including traffic category and

- design CBR.
- d) Longitudinal sections, typical cross sections and detailed cross sections.
 - e) Horizontal alignments, intersection details, rear lane access, driveways, bus routes, bus stops, indented on-street parking and kerb details.
 - f) Noise and Acoustic analysis and design if requested by the Project Brief or by Deed of Agreement.
 - g) Maintenance access tracks and fire trails.
 - h) Retaining walls.
 - i) Street furniture.
 - j) Guideposts.

7.2 Pedestrian and Cycle Facilities

- a) Compliance with [Municipal Infrastructure Standards 05, Active Travel Facilities Design](#).
- b) Details of on-road cycle lanes.
- c) Paths geometry and widths.
- d) Pedestrian crossings and access covering kerb ramps, cross-overs, access ramps, rest rails, access lanes and access to buildings.
- e) Path continuity through driveways.
- f) Tactile paving
- g) Green surface treatment for cyclist conflict areas on road.
- h) Signage for community paths.
- i) Path linkages with adjacent stages/suburbs and main activity nodes such as schools and shops.

7.3 Carparks

On and off-street geometry including provision for disabled and service vehicle parking as per Australian Standard AS2890.

7.4 Street lighting

- A lighting layout of the scheme at 1:500 or 1:200, depending on size of the Works, showing in A1 size sheet the location of the Electricity Supply Authority (ActewAGL) substation, connection points, proposed cable routes.
- Connection point with Electricity Supply Authority (ActewAGL) Connection Approval Number shall be clearly marked on the plans and a copy of the "Electricity Supply Authority (ActewAGL) Design Information Approval Letter" included in the design report.
- Provide Iso lux diagrams as requested by CED for V category road lighting and both horizontal and vertical Iso lux diagrams for car park designs or wherever it is deemed to be required due to possible spill lighting from the proposed design.
- Provide selected lighting spacing table information to CED for P category lighting designs plan.
- Asset Numbers issued by Street Light Maintenance Contractor (ActewAGL) to be clearly and unambiguously marked on the plans adjacent to the relevant assets.
- Certification by the lighting designer that layout conforms to required lighting levels and is in accordance with Municipal Infrastructure Standard 14 and AS 1158.

- Completed form from Attachment A to Electricity Networks Management System - Procedure No: En 4.04 P16 New Streetlights - Design Information Requirements for Power Supply Connections, ActewAGL 2004.

7.5 Bridges and Associated Structures

- Bridge number obtained from the CED Asset Information unit including location of bridge number plates. (The bridge number shall be included in all Drawing Title-blocks).
- Structural and geotechnical design report and certification.
- General arrangement information e.g. form and dimensions of all major structural elements.
- Foundation details.
- Special foundation details such as the type of pile foundations.
- Detailed setting out.
- Reinforcement information.
- General arrangement for the provision of services in the structure.
- Detailed information regarding bridge guardrail.
- Bearing and expansion joint types.
- Surface finishes and sample board.
- Method of construction.
- Means of access to voids and bearings for inspection and maintenance.
- Draft maintenance and inspection manual.

7.6 Stormwater

- Stormwater master plans on A1 and A3 size sheets showing contours, catchment boundaries and areas, cut-off drains, estimated flows and flow paths.
- Details of drainage proposals including cover levels, inverts, grades and sizes for any piped network.
- GPT detail design information and access track and work platform design detail.
- Water Sensitive Urban Design initiatives.
- Hydraulic structures.
- Easements.

7.7 Traffic Control Devices and Traffic Signals

- Design of permanent traffic control devices including signs and lines.
- Where new roads are to be provided, details of the opening of new road works to traffic.
- Traffic signal layout including post and lantern configuration, loop layout controller position and supply connection point.
- Guide sign inventory forms and asset numbers.

A formal submission of Traffic Control Devices shall include the following:

- a transmittal notice;
- one A1 hardcopy of the drawing;
- two A3 hardcopies of the drawing, and
- a CD of the drawing in AutoCAD and pdf format.

7.8 Waste Management

For Works that include any Waste Management component, including bin collection pads, waste enclosures or changes in the number or arrangement for collections, the Consultant must certify the Submission as complying with the requirements of the *Development Control Code for Best Practice Waste Management in the ACT 2019 and associated engineering advisory notes*.

7.9 Landscape

7.9.1 Soft landscape

- Landscape Management Protection Plan (LMPP).
- Cut and Fill Plan where trees are impacted.
- Readable Composite coloured Verge Plan on A1 size sheet including the itemising of all Landscape elements including tree location and canopy extent.
- Landscape plans and supporting drawings showing in detail the plant species
- Vegetation surveys undertaken by an accredited arborist including vegetation condition and indicating vegetation proposed to be removed.
- Visual impact assessment if not previously assessed at the Planning or EDP Stage;
- Soft landscaping adjacent to open space.
- Treatment of mounds, verges, medians and batters, and a schedule of plant species.
- Clearances from other infrastructure and details of root barriers.

7.9.2 Hard landscape

- Readable composite coloured Verge Plan on A1 size sheet including footpaths, driveways, all services, service ties, mini pillars, sumps, manholes, streetlights, parking and waste pads.
- Landscape plans and supporting drawings showing in detail the area and type of fencing, the paving areas and materials to be used, external lighting and associated water services.
- Irrigation, pedestrian paving, playground equipment, vehicle barriers, drainage and fencing adjacent to open space.
- Street and Park Furniture.
- Special structures such as barbeque areas.

7.10 Buildings

- Drawings showing the structural system.
- Plans, elevations and sections of the proposed building types clearly showing ceiling and roof heights, construction methods and indicating typical details.
- Show all floor areas calculated to outside walls. Net floor areas shall also be provided for client information.
- Roof plan showing slopes, materials and penetrations.
- Plan showing any awnings or other encroachments over the adjacent land.
- Sections through the overall scheme to a scale of 1:100 or 1:50.
- Services point of entry for gas, water, electrical and data cabling.

7.11 Services

- Site servicing drawings showing all hydraulic services, ground levels, floor levels, location of sumps and overland water flow, etc.

- Confirmation from the service authority that the existing infrastructure can accommodate the new development.
- Location of existing trees relative to existing and proposed services.
- Show the location of all utility services, survey marks, structures, etc.
- Identify services to be relocated and/or abandoned as a consequence of implementing the Works.
- Details of alteration to existing services and the appropriate timing for these alterations in order to allow the Works to proceed on schedule.
- Existing public infrastructure and landscape dilapidation report.

8.0 RISK ANALYSIS

Where specifically requested by CED, any risk analysis included in a Submission shall be submitted in accordance with the recommendations of AS31000: 2018.

9.0 Early Works Approval

Early Works Approval can enable commencement of the preliminary works for site establishment, demolition, clearing and grubbing, bulk earth works, and shoring prior to formally obtaining the Letter of Design Review (LoDR). The Early Works Approval may be requested if there is a need to commence these preliminary construction activities after obtaining a Notice of Decision while the Consultants are preparing documents for LoDR. These approvals are required to make sure that the developers / builders are working in accordance with DA conditions and protecting territory assets and services. Early works approvals are issued within 10 working days of application.

Where applicants have opted out of Design Review, any requirement for Early Works Approval is also waived.

All applications must be lodged via ProjectWise. A fee for this service is applicable as per CED Fees and Charges policy. The below provides information about the Early Works Approval submission requirements and process.

Industry is encouraged to contact DRAA by email if more assistance is needed with this matter.

9.1 Infill developments

Infill developments in this instance refer to all infill land developments with the exception of Estate Development works under an Estate Development Plan.

The request for Early Works Approval must include the following elements;

- Cover letter from the Developer or their agent requesting the approval,
- Copy of the Notice of decision,
- Landscape Management Protection Plan (LMPP)
- Dilapidation Report,
- Tree Management Plan (TMP),
- Temporary Traffic Management Plan,
- Extent of works,
- Acknowledgment of charges as per “Fees and charges guideline to the industry”
- Invoice information including:

- Full name and address of the entity to be invoiced, and
- Name, phone number and email address of a contact person.

9.2 Estate developments Early Works

The request for Early Works Approval must include:

- Cover letter from the developer or their agent requesting the approval. The letter should clearly articulate the contact details of the developer and the capacity in which the person is making the request either as developer or the agent,
- Copy of Notice of Decision,
- Extent of works,
- Acknowledgment of charges as per “Fees and charges guideline to the industry” Invoice information including:
 - Full name and address of the entity to be invoiced, and
 - Name, phone number and email address of a contact person.

10.0 FINAL DESIGN REVIEW

If the design elements are assessed as not complying with these Requirements, the Coordinator will be notified to this effect and the non-complying elements identified. The Coordinator may make the necessary changes to rectify the non-complying elements and resubmit the Submission. If the Coordinator is of the opinion that those elements identified as non-complying are in fact in accordance with sound engineering design principles and/or best engineering practices, the Coordinator may submit a report supporting and substantiating the original design. Upon completion of the review process and the Submission being assessed as complying with these Requirements and the design elements complying with the Standards, a Certificate of Design Acceptance will be issued to the Applicant.

The Certificate will list the elements of the design that have been assessed and list the drawings and other documentation that comprise the Submission, including their revision status.

11.0 REFERENCES

1. *The Development Control Code for Best Practice Waste Management in the ACT 2019* is available online at <https://www.cityservices.act.gov.au/recycling-and-waste/resources>
2. For documents related to design refer to the Municipal Infrastructure Design Standards (MIS) website. <https://www.cityservices.act.gov.au/plan-and-build/standards-codes-and-guidelines/municipal-infrastructure-design-standards-mis>
3. For information on technical specifications, refer to Municipal infrastructure technical specifications (MITS) - City Services available online at <https://www.cityservices.act.gov.au/plan-and-build/standards-codes-and-guidelines/municipal-infrastructure-technical-specifications-mits>
4. For information on standard drawings refer to the Municipal Infrastructure Standard Drawings available online at <https://www.cityservices.act.gov.au/plan-and-build/standards-codes-and-guidelines/municipal-design-standard-drawings>
5. The ACT Standard Drawings to support the Municipal Infrastructure Design Standards

and Technical Specifications are available online at

<https://www.cityservices.act.gov.au/plan-and-build/standards-codes-and-guidelines/municipal-design-standard-drawings>

6. Ref-04 Guidelines for the Protection of Public Landscape Assets adjacent to Development Works are available online at https://www.cityservices.act.gov.au/_data/assets/pdf_file/0011/1326719/AA-REF-04_Landscape_Management_and_Protection_Plans_LMPP_REV14-1-10.pdf
7. AS 1100 Technical Drawing Standards Australia are available from Standards Australia.
8. The ACT Water Strategy is available online at https://www.act.gov.au/_data/assets/pdf_file/0010/2538559/act-water-strategy-2014-44.pdf
9. Guidelines for power supply connections are at [Utilities \(Electricity Service and Installation Rules Code\) Determination 2013 | Disallowable instruments](#)
10. Guidance on connecting Electrical Vehicle Charging is available at [202409 - Electrical Note September](#)
11. The ACT Transport Strategy is at https://www.transport.act.gov.au/_data/assets/pdf_file/0016/1613302/200601-ACT-Transport-Strategy_web.pdf

12.0 ATTACHMENTS

Attachment A: Design Review Submission Cover Sheet – AA – SCS - 06

Attachment B : Document No. AA-DCL-06 Design Review Submission Checklist

Attachment C : Design Checklists

- Document Nos.AA-DCL-Roads-01(ext) Road Design Checklist
- AA-DCL-Roads-02(ext) Pavement Plan Design Checklist
- AA-DCL-Roads-03(ext) Traffic Safety and Amenity Design Checklist
- AA-DCL-Roads-04(ext) Bus Routes and Bus Stop Design Checklist
- AA-DCL-SW-01(ext) Stormwater Master Plan and Final Design Checklist
- AA-DCL-Waste-01(ext) ACT Waste Design Checklist

Attachment D: Documentation Requirements

Project Title

Description

Developer's/Client's details

Name of the entity

Address

Contact person

E-mail

Tel. number

Applicant's details

Company name

Contact person

Company address

E-mail

Tel. number

These documents are submitted for audit and comments or endorsement.

All documents are in accordance with the design brief and have been prepared in accordance with the Requirements detailed in Reference Document AA-REF-06 Requirements for submission Requesting Design Acceptance (Ref 06).

Note: The Submission must be complete and include all Civil, Landscape, TCD's and Public Lighting, and any other design elements of the Works. TCCS will not accept incomplete Submissions or Submissions from individual Consultants for separate design elements of the Works. Where TCCS considers the Submission to be incomplete, the Applicant will be advised to this effect within five working days following receipt of the Submission and will be requested to collect the Submission from TCCS offices. Assessment will not commence until a complete Submission has been received.

Privacy Statement: Transport Canberra and City Services adheres to the ACT Information Privacy Act 2014. As a general rule, the personal information that is provided to us is not passed on to other organisations or third parties without your written consent. However, your information may be provided to the ACT Civil and Administrative Tribunal or another court or tribunal if required by law. You can view our privacy policy on the About Us page of the Directorate's website (<https://www.tccs.act.gov.au/about-us/privacy-policy-statement>)

Prepared by

Date

	Yes	No	Office use only
Index			
Certification by the relevant consultants (Clause 6.1.1 and Clause 6.1.2)			
Project description (clause 6.2.2)			
Design standards (clause 6.2.3)			
Validation and verification of the design (clause 6.2.4)			
Draft construction surveillance plan (clause 6.2.5)			
Dilapidation report (clause 6.1.6)			
Completed relevant to design checklists (clause 6.1.4)			
Drawing list and revision (clause 6.1.5)			

	Yes	No	N/A	Office use
Products (clause 6.2.7)				
Exception clauses (clause 6.2.8)				
Details of previous consultations (clause 6.2.6)				
Plan Index and or Key Plan (clause 6.3)				
Landscape Management Protection Plan (clause 6.3)				
Project site plans (clause 6.3)				
General arrangements plan (road and pedestrian layouts) (clause 6.3)				
Location plan (clause 6.3)				
Survey and setting out details (clause 6.3)				
Typical cross section and construction details (clause 6.3)				
Staging plan (clause 6.3)				
Use of Recycled Materials (clause 6.3)				
Details of work resulting from Sub-surface Investigations (clause 6.3)				
Cover letter (for Suburban Land Agency and City Renewal Authority projects only)				

Elements of works and submission status

	1 submission	2nd submission	3rd on following submissions
Civil			
Landscape			
TCD			
Public lighting			

As per "Fees and charges Guideline to the Industry" fees apply for the assessment of the 3rd and the following submissions.

Office use only

Compliance with documentation requirements of Reference Document 06

	Compliant	Not compliant
Submission		

Checked by

Date

ATTACHMENT B: DESIGN REVIEW SUBMISSION CHECKLIST

Reference No: Project Title:

Certifier: Consultant:

CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable	CHECK ELEMENTS	Provided - Yes	Provided - No	Not applicable
Design Reports				Specifications			
Executive Summary provided				Exception clauses			
Reason for the work clearly stated				Defects Liability Period 12 months			
Location Plan provided				Adequate control of customer supplied product			
List of Options evaluated							
Recommendation justified							
Design Assumptions listed							
Input factors detailed							
Drawings and Diagrams							
Number of sets of plans							
Drawing numbers checked against Transmittal							
Submission form completed							
Drawings signed as checked							
Drawings signed as approved							
Drawings coloured as required							
Sheet sizes standard							
North points shown correctly							
ISO scales used and indicated							
All streets clearly identified							
Contour values readable							
Drawings readable and uncluttered							
Text font min. 12pt on diagrams							

Certified as checked: Signature: Date:

ATTACHMENT C : Roads Design Checklist

Reference No:	Project Title:
Certifier:	Consultant:

CHECK ELEMENTS	Compl ies - Yes	Compl ies - No	Not applicable	CHECK ELEMENTS	Compl ies - Yes	Compl ies - No	Not applicable
<p>Road Location Block boundaries and numbers Road names Limit of Works (chainages) Match to existing (chainages) List all road chainages</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Kerbs Types/details Transition matches Pavement Plan Radius on all kerb returns TP markers Benchmarks</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Geometrics Horizontal curves Vertical curves Transition curves Turning templates: design vehicles Radius of all curves Stations at horizontal TPs*</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Contours Sufficient contour values Rounding of contour values Levels match contours High/low points identified</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Intersections Chainage at intersections Gradings RL at intersection matches profile Road names at intersection Chainages of centreline Bench marks Details Joints</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Typical Road Sections Correct cross falls Correct chainages Correct dimensions Verge slopes match cross sections Retaining walls shown</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Footpaths Location</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Intersections and roundabouts Cross sections Sections match profiles</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Utilities Location Sumps/pits match hydraulics</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Crossings Footpaths Pram crossings at kerb Prams ramps at islands</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<p>Lighting Design Design certification ActewAGL approval Conduit provision Specification Design report Other authorities Clearances Iso Lux diagram</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Certified as checked:

Signature: Date:

ATTACHMENT C: Pavement Plan Design Checklist

Reference No: Project Title:

Certifier: Consultant:

CHECK ELEMENTS	Provided - Yes	Provided - No	Not applicable	CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable
Pavement Location							
Block boundaries and numbers							
Road names							
Limit of Works (chainages)							
Match to existing (chainages)							
List all road chainages							
Pavement							
Type							
Details							
Design ESA							
Subgrade CBR							
Notation							
Legend							
Crossings							
Vehicle crossings and notation							
Driveways							
Prams crossings at kerbs							
Prams ramps at islands							
Kerbs							
Bench marks							
Details							
Footpaths							
Location							

Certified as checked:

Signature: Date:

ATTACHMENT C: Traffic Safety and Amenity Design Checklist

Reference No:	Project Title:
Certifier:	Consultant:

CHECK ELEMENTS	Considered - Yes	Considered - No	Not applicable	CHECK ELEMENTS	Considered - Yes	Considered - No	Not applicable
Safety and Amenity Considerations							
Traffic volumes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Residential amenity							
• speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• glare	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traffic Control Devices on road	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Driveway locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access visibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check for ratruns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Counter measures for ratruns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intersections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety at intersections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequate turning circles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Priority system-intersection control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Visibility at intersection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storage lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road furniture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
On-street parking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Off-street parking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pedestrian provision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HGV deliveries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access roads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taxi provision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bus provision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Certified as checked:

Signature: Date:

ATTACHMENT C: Bus Routes and Bus Stop Design Checklist

Reference No:	Project Title:
Certifier:	Consultant:

CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable	CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable
Bus Routes				Bus Priority Measures			
Road widths				Transponders			
Pavement strength				Advance detectors			
Bus stops on arterial roads				Bus lanes			
Turning lanes				Bus signals			
Swept path				Transit lanes			
Gradients							
Route efficiency							
Bus Stops				Intersections			
Peg				Turning lanes			
Pole				Turning circles			
Timetable holder				Swept path			
Sign				Lane widths			
Bench				Sight lines			
Disability access				Bus priority			
Lay-by				Transponders			
Line marking				Bus lanes			
Pedestrian hardstanding				Bus signals			
Sight lines							
Safety							
Shelter							
Location							
Interchanges				Taxis			
Pavement strength				Ranks			
Passenger services				Line marking			
Bus operations				Signage			
Integration with road users				Disability access			
Bike lockers				Telephones			
				Location			

Certified as checked:

Signature:

Date:

ATTACHMENT C: Stormwater Master Plan and Final Design Checklist

File No:	Title:
Auditor:	Applicant:

CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable	CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable
Master Plan : Network Analysis				Pipes			
Catchment areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design flows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Joint type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Velocity/depth ratio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Retention/detention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Velocity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overland flow path	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bedding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recurrence intervals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clearances/services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Curvature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• open channels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gradient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Final Design				Scour stops			
Open Channels				Road crossing angle			
Gradient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Service ties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Side slopes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Velocity check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structures			
Junction details	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back water effect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scour protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manholes			
On-site detention (OSD)				• flow path			
Above ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• diameter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Below ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• lid type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calculations provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• ladders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing tie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• offset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New tie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• depth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GPTs				• fall through			
Location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sumps			
Size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dewatering facility for major GPT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• flow path	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tap connection for minor GPT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• special benching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Davit facility for maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• step irons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Certified as checked:

Signature: Date:

ATTACHMENT C: ACT Waste Design Checklist

Reference No:	Project Title:
Certifier:	Consultant:

CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable	CHECK ELEMENTS	Complies - Yes	Complies - No	Not applicable
ESTATE DEVELOPMENT PLANS				PRECINCTS/CAPITAL WORKS			
Draft Implementation Plans				Preliminary Sketch Plan			
Waste collection plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Current location of waste storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slope and gradient plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed location of waste storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design Drawings				Final Sketch Plan/Detail Design Drawings			
Location of common collection points with dimensions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Design drawings of waste storage facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road cross sections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turning circles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Draft Lease and Development Conditions - consistent with				Demolition plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• waste collection plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Re-use plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• final design drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Truck Routes			
• common collection points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Road widths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garbage Areas				Pavement strength	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gradients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intersections			
Roof	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turning lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turning circles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diverter valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Swept path	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gradients	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lane widths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bin locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sight lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Certified as checked:

Signature: Date:

ATTACHMENT D : DOCUMENTATION REQUIREMENTS

Design Element	Residential/ Industrial Estate	Commercial	Industrial	Recreational Infrastructure	Community Facility	Transport Infrastructure	Drainage/ Water Harvesting/ Water Quality Infrastructure
• Design Report	✓	✓	✓	✓	✓	✓	✓
• Site Plan	✓	✓	✓	✓	✓	✓	✓
• Staging Plan	✓	✓	✓	✓	✓	✓	✓
• Detail Plan	✓	✓	✓	✓	✓	✓	✓
• Road Hierarchy Plan	✓					✓	
• Chainage Plan	✓					✓	
• Road Longitudinal Sections	✓					✓	
• Typical Sections	✓	✓	✓			✓	✓
• Pavement Plan and Details	✓	✓	✓	✓	✓	✓	
• Vehicular Turning Paths	✓	✓	✓			✓	
• Road Details Plan	✓	✓	✓		✓	✓	
• Public Transport and Footpath Plan	✓	✓	✓	✓	✓	✓	
• Parking Plan	✓	✓	✓		✓		
• Waste Collection Plan	✓	✓	✓	✓	✓		
• Road Cross Sections	✓	✓	✓			✓	
• Traffic Control Devices	✓	✓	✓	✓	✓	✓	
• Kerb Profiles	✓	✓	✓			✓	
• Shared Trench Management Plan	✓	✓	✓				
• Traffic Control Devices	✓	✓	✓			✓	
• Standard details of structures	✓	✓	✓	✓	✓	✓	✓
• Bridge/Culvert design	✓	✓	✓			✓	✓
• Stormwater Master Plan	✓	✓	✓			✓	✓
• Sewer Master Plan	✓	✓	✓		✓		
• Water Master Plan	✓	✓	✓		✓		
• Services Plan	✓	✓	✓				
• Tree Impact Plan	✓	✓	✓	✓	✓	✓	✓
• Landscape Plan	✓	✓	✓	✓	✓	✓	✓
• Tree Management Plan	✓	✓	✓	✓	✓	✓	✓
• Bushfire Protection Measures (as	✓	✓	✓				