Job Number @ Type here

Functional Specification Template

C7524 – Infrastructure Sustainability Design Requirements Addendum

December 2021

* To be used as a guide when compiling project-specific specifications.
* @ = project-specific detail required.
* For clauses / items not required – insert text “Not Required” in clause heading, do not delete clause.
* Delete this table when document finalised.

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# Infrastructure Sustainability – Introduction

This Functional Specification applies to the Department of Transport and Main Road's requirement for the Consultant’s design to achieve an Infrastructure Sustainability Council’s (ISC) design rating of not less than excellent, independently verified by ISC.

## Definition of terms

The terms used in this Design Functional Specification shall be as defined in Table 1.1.

Table 1.1 – Definitions

| Term | Definition |
| --- | --- |
| ISC | Means the Infrastructure Sustainability Council. |
| ISMP | Means the Infrastructure Sustainability Management Plan. |
| Rating Tool | Means ISC's Infrastructure Sustainability Rating Tool v1.2, details of which are available at the website [Infrastructure Sustainability Council (iscouncil.org)](https://www.iscouncil.org/). |
| Sustainability Representative | Means the Consultant’s Infrastructure Sustainability Accredited Professional under ISC who must have a minimum of two years’ experience delivering ISC ratings on linear infrastructure projects. |
| Weightings Assessment | Means the Weightings Assessment in accordance with *ISC IS Technical Manual, v1.2*. |
| Kick Off Workshop | Means the ISC‑led workshop to discuss with the Consultant and Principal’s project team, the process for pursuing an IS rating, establish project parameters, undertake or discuss the weightings assessment, clarify scope, timing and base case assumptions. |

## Reference documents

Reference documents in this Design Functional Specification are listed in Table 1.2.

Table 1.2 – Reference documents

| Reference | Title |
| --- | --- |
| *IS Technical Manual, v1.2* | Infrastructure Sustainability Council’s *Infrastructure Sustainability Technical Manual, v1.2*. |
| IS Scorecard | Infrastructure Sustainability Council’s Infrastructure Sustainability Scorecard, v1.2. |
| *Environmental Sustainability Policy* | Transport and Main Roads’ published *Environmental Sustainability Policy* (refer Appendix A). |
| MRTS16 | Transport and Main Roads Technical Specification MRTS16 *Landscape and Revegetation Works*. |

## Quality system requirements

### Hold Points, Witness Points and Milestones

General requirements for Hold Points, Witness Points and Milestones are specified in MRTS01 *Introduction to Technical Specifications.* The Hold Points, Witness Points and Milestones applicable to this Project Specific Technical Specification are summarised in Table 1.3.1.

Table 1.3.1 – Hold Point, Witness Point and Milestones

|  |
| --- |
| Project Manager: delete / add relevant hold points, witness points and milestones as applicable. |

| Clause | Hold Point | Witness Point | Milestone |
| --- | --- | --- | --- |
| 4.1 |  |  | @ Type here  Consultant to host Kick Off Workshop with ISC and the Principal. |
| 4.2 |  | @ Type here  Weightings Assessment provided to the Principal for review. |  |
| 4.3 | @ Type here  Submission of ISMP(D) for deemed suitability from the Principal. |  |  |
| 4.7 |  | @ Type here  Base Case provided to the Principal for acceptance. |  |
| 4.9 |  |  | @ Type here  Design rating package submitted to ISC for Round 1 verification prior to 100% Detailed Design. |
|  | @ Type here | @ Type here | @ Type here |

## General

As part of the Queensland Government’s commitment to ensuring the long‑term sustainability of infrastructure investment, this project, and all state government projects valued at more than $100 million, will be subject to, and guided by, a sustainability assessment in accordance with requirements of the State Infrastructure Plan.

The terms in this Functional Specification shall be read in conjunction with those identified in the IS Technical Manual, v1.2, unless IS Technical Manual, v 2.1 is referenced for a specific purpose.

Where required by the methodologies prescribed in IS Technical Manual, v1.2*,* the assessment shall consider the whole of life of the asset.

### Sustainability representative

The Consultant must engage a Sustainability Representative for the detailed design contract. The Consultant must also ensure that sufficient resources are provided to address infrastructure sustainability and achieve the defined ISC rating. The Sustainability Representative must consult and liaise with ISC and the Consultant regarding infrastructure sustainability.

The Consultant’s Sustainability Representative shall consider, assess, and deliver the sustainability requirements for the Detailed Design. The Consultant’s Sustainability Representative shall lead and deliver the infrastructure sustainability evaluation process. This shall include (without limitation) liaison with ISC, undertaking assessment of sustainability performance in accordance with the Rating Tool, submitting assessments to ISC for verification, and promptly providing all information requested by ISC to assist completion of its verification process.

### Transport and Main Road’s Environmental Sustainability Policy

Appendix A provides the department's published *Environmental* Sustainability Policy to set a clear direction for the project.

Further, the department actively supports and strives to contribute to the state government’s objectives for the community, which are:

* safeguarding our health
* supporting jobs
* backing small business
* making it for Queensland
* building Queensland
* growing our regions
* investing in skills
* backing our frontline services, and
* protecting the environment.

### Infrastructure sustainability integration

The Principal draws the Consultant's attention to the number of 'touch points' between ISC's Rating Tool requirements and other deliverables for the detailed design. The infrastructure sustainability requirements shall be considered within the broader context of the contract.

While meeting the infrastructure sustainability deliverables outlined in Clause 4, the Consultant shall address the applicable infrastructure sustainability rating requirements relevant to all tasks being undertaken during the contract, including:

* stakeholder engagement
* cultural heritage assessment
* environmental assessment
* landscape design assessment
* road design, and
* hydraulics.

### Principal retained infrastructure sustainability deliverables

The Principal may undertake the tasks specified in Table 1.4.4.

Table 1.4.4 – Project specific Principal‑retained responsibilities

|  |
| --- |
| Project Manager: delete / add relevant credits as applicable. |

| ISC Credit | Benchmark Level | Deliverable / Evidence | Timeframe for Delivery |
| --- | --- | --- | --- |
| @ Type here  Example: Sta-1  Stakeholder Engagement | @ Type here | @ Type here  Community engagement plan | @ Type here |
| @ Type here  *Example:*  *Pro-1 and Pro-2*  *Sustainable Procurement* | @ Type here | @ Type here  *Engagement with local suppliers to communicate sustainability intent.*  *Advise of environmental policy and sustainability policy requirements for future phases.* | @ Type here |
| @ Type here | @ Type here | @ Type here | @ Type here |

## Infrastructure sustainability as part of decision making

The Consultant shall incorporate infrastructure sustainability into decision‑making processes for significant decisions (that is, economic, environmental and social outcomes shall be assessed). This shall be documented as evidence for achieving an ISC rating for the design (refer to Man‑7). Appendix B provides guidance and a template for incorporating sustainability into decision‑making to address ISC requirements.

The output of this deliverable includes the documentation (forms, templates and tools) used for detailed design assessments showing the infrastructure sustainability considerations incorporated. A copy of the evidence collected for this deliverable shall be included in the detailed design report as per Clause 4.

# Previous infrastructure sustainability assessment

Prior to detailed design, work has commenced on the infrastructure sustainability assessment. The deliverables and assessments completed to date are:

|  |
| --- |
| Project Manager: include any sustainability assessment work that has already been completed. |

* @ Type here for example:
* @Type here Infrastructure Sustainability Management Plan (Planning) – ISMP(P).

## Business case handover

Documentation from the previous infrastructure sustainability assessments is made available to the Design Consultant in the form of a Business Case infrastructure sustainability handover. This will contain the documentation of infrastructure sustainability assessments completed to date (Appendix H).

## Additional evidence

Upon review of the Business Case infrastructure sustainability handover, the Consultant may seek clarification from the Principal whether there is additional evidence and documentation available from previous work that may be of use in compiling the design rating evidence submissions.

# Infrastructure sustainability scope

The Consultant must attain an infrastructure sustainability rating of excellent, independently verified by ISC for the design of this project. The work undertaken as part of the contract shall include achieving the infrastructure sustainability rating requirement and integrating sustainability strategies and considerations into the design to contribute to meeting the infrastructure sustainability requirements. The deliverables of the design are identified in Clause 4.

## Project registration with ISC

The Principal will register the project with ISC. The Principal will endeavour to register the project prior to Contract Award.

The representatives of both the Consultant and the Principal shall participate in the ISC Kick Off workshop.

The responsibilities assigned to the Principal in the ISC Rating Agreement shall then be delegated to the Consultant for the duration of the contract including but not limited to:

1. coordination with ISC for monthly support meetings
2. submission of Technical Clarification and Credit Interpretation Requests, and
3. assessment and submission of IS rating packages including base case, weightings assessment, design rating evidence.

## Boundaries and base case assumptions

The Consultant shall refer to the Principal's Guidance Note – Infrastructure Sustainability Base Case Framework provided in Appendix C to determine the most appropriate boundaries and business as usual assumptions for the project.

## Supporting information for infrastructure sustainability

Appendix D includes a suite of guidance materials and supporting documentation relating to infrastructure sustainability that the Consultant shall consider and/or reference where appropriate.

# Infrastructure sustainability deliverables for detailed design

The Consultant shall undertake enough actions to deliver a formal rating of excellent that has been verified by ISC for the design.

Furthermore, the Contractor’s design shall achieve a minimum of Level 2 benchmark for the infrastructure sustainability rating credits of:

|  |
| --- |
| Project Manager: include sustainability assessment targets relevant to the project |

* Ene‑1 – reduction of greenhouse gas footprint of a minimum of 15% over the base case
* Dis‑1 – consider land requirements for operational phase water quality and stormwater retention targets (required for projects in Great Barrier Reef catchments) Cli‑1 and Cli‑2 Climate change risk assessment and adaptation
* Was‑2 Diversion from landfill, and
* @ Type here [*add other specific credit objectives where applicable*].

Where achievement of these benchmarks is not practicable, the Consultant shall provide documented justification to the Principal for consideration of suitability and apply for approval of a variation to this clause.

## Infrastructure sustainability kick off workshop

The Consultant shall engage with ISC to hold a Kick Off workshop jointly with the Principal's representatives. The Kick Off workshop shall be used to:

* raise awareness of infrastructure sustainability and the process to be followed
* embed that sustainability concepts are to be a consideration for all disciplines which will make reporting and validation at later stages easier
* identify the most suitable roles and responsibilities for the various infrastructure sustainability rating credits within the Consultant’s team, and
* discuss ISC advice on addressing IS rating requirements.

The outputs of this deliverable include:

|  |
| --- |
| Project Manager: include delivery milestone timing. |

* the infrastructure sustainability workshop which shall be held by @ Type here Milestone, and
* documentation by the Consultant of the timeframes for distributing evidence.

## Infrastructure sustainability weightings assessment

The Consultant shall review and where appropriate, update, the Weightings Assessment provided in Appendix H *Business Case handover package*. The Weighting Assessment shall identify the areas of key importance for sustainability outcomes. The Consultant shall identify any credit weightings that do not align with the sustainability outcomes and the risks and opportunities that exist. The Consultant shall prepare any requests to the ISC project manager for verification by ISC.

The output of this deliverable is a finalised Infrastructure Sustainability Weightings Assessment that the Consultant must submit to the Principal for acceptance prior to the Consultant’s submission to ISC for verification.

The weighting assessment shall be completed and submitted to the Principal Witness Point with the Infrastructure Sustainability Management Plan (Design) ISMP(D) in accordance with Clause 4.3.

## Infrastructure Sustainability Management Plan (Design)

The intent of the Infrastructure Sustainability Management Plan (Design) (ISMP(D)) is that it provides a living document of infrastructure sustainability targets, management measures, and evidence requirements identified for the project.

The Consultant shall develop an ISMP(D) in accordance with the template in Appendix G, unless an alternate structure is approved by the Project Manager. The Consultant shall maintain the continuity of intent of previous plans, studies and assessments and include enough additional actions and documentation to deliver the ISC design rating of excellent.

The Consultant shall consider all previous infrastructure sustainability assessments (for example a climate change risk assessment) when developing their ISMP(D).

The ISMP(D) shall be:

1. endorsed by the Consultant’s Sustainability Representative as suitable for achieving the nominated credit and levels
2. submitted to the Principal for a direction as to its suitability within 30 business days of award of contract Hold Point
3. in place for the duration of the contract, and
4. reviewed and updated at least quarterly through the duration of the detailed design. Updates to the ISMP(D) shall be communicated to the Principal through the Consultant’s monthly report.

The Consultant shall ensure that the ISMP(D) and the associated sustainability strategies and actions are adequate to obtain an excellent design rating.

The Contractors ISMP(D) shall be maintained, reviewed, and updated to capture the decisions and targets as they evolve through the contract.

## Project sustainability commitments and objectives

The Consultant shall adopt already established sustainability commitments and objectives and nominate enough additional project-specific sustainability objectives to achieve the excellent design rating as part of the development of the ISMP(D). Appendix F provides example project sustainability commitments and objectives that could be considered.

## Business as usual assessment

The Principal has previously undertaken a self‑assessment of business as usual management strategies and actions against the IS scorecard (refer Appendix E). The assessment included identifying common target credits and potential sustainability strategies and actions that could be adopted to achieve respective credits.

The business as usual sustainability assessment in Appendix E also includes a typical weightings assessment for a Transport and Main Roads project and is provided for supporting information purposes only.

## Managing the interface between detailed design contract and construction

In addition to integration with other discipline assessments, a number of ISC credits may require assessment tasks or documentation typically undertaken by the construction Contractor. Where the design Consultant has identified these credits and benchmarks as being targeted, the design Consultant shall ensure that the necessary deliverables and evidence will be included in the construction contract as drawings, specifications and items in the schedule.

Some of these are highlighted in Table 4.6 and should be considered within the broader context of the contract. The Consultant must determine the method and criteria selected to achieve an excellent rating.

Table 4.6 – ISC credit and benchmarks with construction‑related tasks or evidence

| ISC Credit | Discipline | Technical Requirement Consideration  for Detailed Design |
| --- | --- | --- |
| Wat‑1 and Wat‑2  Water | Design | This credit requires evidence of the Consultant’s modelling and monitoring.  If targeted for design rating, the construction contract documentation shall specify how the targets shall be achieved. |
| Dis‑1  Water Quality | Environment | Benchmark 1 credit requirements include monitoring and modelling.  Where this credit is targeted by the Consultant, the construction contract documentation shall specify how the targets shall be achieved. |
| Dis‑2  Noise | Noise, Vibration and Air Quality | For detailed design, modelling is required for both operational and construction noise and vibration.  The Consultant shall undertake a Noise Assessment in accordance with the Transport Noise Management Code of Practice Volume 1 and Volume 2.  Where this credit is targeted by the Consultant, the construction contract documentation must specify how the targets shall be achieved. |
| Dis‑3  Vibration |
| Dis‑4  Air Quality | Noise, Vibration and Air Quality | For this credit the IS technical manual requires that air quality modelling and monitoring is undertaken for both construction and operation to achieve benchmark Level 2.  Where this credit is material and targeted the Consultant shall undertake Air Quality modelling in accordance with the *Road Traffic Air Quality Management Manual* (Transport and Main Roads, 2014) and the construction contract documentation must specify how the targets shall be achieved. |
| Dis‑5  Light Pollution | Lighting | For this credit the assessment required is quite specific.  Where the Consultant has identified Dis‑5 as being targeted, the Consultant shall undertake the required assessment to prove Dis‑5 is achieved by the design. |
| Lan‑2  Conservation of On‑Site | Landscape Design and Environment | For this credit to meet departmental requirements and achieve benchmark Level 2, 95% by volume of all topsoil and subsoils are to retain productivity and be beneficially re‑used.  The design Consultant shall specify how soil must be managed within the construction contract.  The consideration of this credit must be done in association with MRTS16 *Landscaping requirements.* |
| Eco‑1  Ecological Value | Environment | For this credit a specific assessment to measure the change in ecological value on site must be included within the Consultant’s ecological assessment. ISC are specific about the methodology to be used and this would need to be undertaken as part of the Consultant’s environmental assessment.  The construction contract documentation must specify how retaining the ecological value shall be achieved. |
| Eco‑2  Habitat connectivity | Environment | For this credit a specific assessment of the site is required. This should be included in the environmental assessment scope of works to cost-effectively achieve the credit.  The construction contract documentation must specify how retaining or improving habitat connectivity shall be achieved. |
| Sta‑1  Sta-2  Sta-3  Sta-4 | Stakeholder engagement / Communications  (if being delivered by Consultant) | The Consultant should consider the requirements of these credits in developing any communications or stakeholder engagement.  The option to use the Rating Tool v2.0 (Sta‑1 and Sta‑2) for stakeholder engagement is recommended, as an innovation challenge and a means to increase the credit score. |
| Hea-2  Crime Prevention | Design | Inclusion of Crime Prevention Through Environmental Design (CPTED) principles and ensure all tunnels or underpasses have end‑to‑end visibility. Also ensure temporary construction diversions and lighting are designed to meet CPTED. |
| Her‑1  Heritage Assessment and Management | Cultural Heritage | Transport and Main Roads shall manage all indigenous Cultural Heritage for this project.  Standard departmental Cultural Heritage assessment processes generally fulfil a large percentage of the infrastructure sustainability benchmarks for Cultural Heritage, with the potential exception of non-official local heritage.  Stakeholder engagement should be used to identify community heritage values (other than identified on databases and so on). |
| Urb-1  Urban Design | Landscape Design | The landscape design should consider the credit requirements and document the requirements in the Specifications and Drawings for the Construction Contract. |

## Infrastructure sustainability base case

The design Consultant shall develop, document and calculate the Base Case for the project in accordance with ISC’s IS Technical Manual, v1.2 and Transport and Main Road's Guidance Note: Infrastructure Sustainability Base Case Framework (Appendix C). The Base Case shall include only 'business as usual' design elements that are industry standard for privately funded infrastructure and not necessarily inclusions of Transport and Main Roads or government policies.

The Base Case shall be developed from the Business Case design.

The output of this deliverable is the calculated Base Case which shall be submitted to the Principal for acceptance prior to submission to ISC for verification. Witness Point

## Construction contract requirements

The Consultant shall draft comprehensive Detailed Design Drawings and specifications for the construction contract integrating the requirements for infrastructure sustainability throughout the construction contract documentation. The specifications shall be suitably detailed to ensure that the construction contract is being set up for success to achieve an As‑Built rating of excellent at the completion of the construction contract.

The Consultant shall include a breakdown of the ISC rating criteria within the contract specifications. The breakdown shall identify the points to be achieved through delivery of the specification and the overall points targeted for an excellent score.

The TIC‑CO infrastructure sustainability project specific technical specification(s) would enable the construction contract to elect to either:

1. adopt the prescribed infrastructure sustainability requirements detailed in the provided drawings and specifications, or
2. develop their own infrastructure sustainability management plan, strategies and actions to achieve a rating of excellent as verified by ISC.

The output of this deliverable is the finalised set of drawings and specifications for the construction contract, inclusive of all infrastructure sustainability requirements in all relevant parts of the contract documentation. The construction contract specifications shall be submitted to the Principal for review and acceptance.

## Preparation of infrastructure sustainability rating submission

The Consultant shall collate the applicable evidence and documentation as stipulated in the Consultant’s Infrastructure Sustainability Management Plan (Design) throughout the detailed design contract.

The Consultant shall compile the evidence into a formal submission for the ISC design rating. The Consultant shall ensure all necessary evidence has been collected, collated, and documented.

The Consultant shall submit the IS design rating package to the Principal for acceptance before submitting to ISC for verification.

The Consultant shall submit the Round 1 verification package to ISC prior to the detailed design package submission to the Principal. Milestone

## Infrastructure sustainability Handover Package requirements

The Consultant shall develop supplementary specifications that will require the construction Contractor to achieve an ISC rating of excellent for the construction of the works. This shall include the Transport and Main Roads mandatory requirements for Ene‑1 and Dis‑1, any other infrastructure sustainability actions required to support the design rating and enough other infrastructure sustainability rating credits to achieve an overall rating of excellent for construction.

The Consultant shall prepare an infrastructure sustainability Handover Package for the construction Contractor as part of the detailed design.

The infrastructure sustainability Handover Package shall include as a minimum:

* 1. The final design rating submission including credit summary reports and a copy of the verified ISC rating, if available, and
  2. Design rating evidence including:

1. reports
2. modelling
3. monitoring
4. decision making documentation
5. key assumptions made during the detailed design, and
6. any other documentation that relates to achieving Transport and Main Roads infrastructure sustainability requirements.

## Cost‑Benefit register

The Consultant shall maintain a register of cost‑benefits achieved (including costs avoided) through the infrastructure sustainability initiatives. Suggested cost‑benefit analysis parameters are provided in Table 4.11.

The output of this deliverable is the completed cost‑benefit register which shall be submitted to Principal at the completion of the detailed design contract.

Table 4.11 – Cost‑benefit analysis parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Initiative / Strategy | Capital Costs  above or below BAU | Opex costs above or below BAU | Externalities | | |
| Environmental Benefits | Social Benefits | Other non-priced benefits |
|  | + or – | + or – | + or – | + or – | + or – |

## Progress reporting

The design Consultant shall provide the Principal with a monthly infrastructure sustainability report as part of the project monthly report. The infrastructure sustainability report shall detail the progress on the delivery of the Contractor's ISMP(D).

The monthly infrastructure sustainability report shall contain:

1. progress of infrastructure sustainability deliverables
2. risks and opportunities identified in relation to infrastructure sustainability outcomes, and
3. any progress during the month in relation to forecasted outcomes associated with key government priorities:
   * + 1. greenhouse gas reduction for the project
       2. water quality improvements, and
       3. community connectedness and active transport.

# Payment

|  |
| --- |
| Project Manager: include the associated Item No. for infrastructure sustainability. |

The Lump Sum for Item No. DD @ Type here XX Infrastructure Sustainability shall include all works specified in this Functional Specification – Detailed Design.

## Item @ Type here xxx Infrastructure sustainability bonus item

In order to incentivise performance in infrastructure sustainability, the contract includes a clause that rewards achievement of ratings beyond the Supplementary Specification requirements and penalises performance below the standard requirements.

Table 5.1 – Infrastructure sustainability bonus

|  |  |
| --- | --- |
| Verified IS Rating | Supplementary Specification |
| No Rating achieved | 100% deduction (‑ve) of Supplementary Specification Bonus Item  (@ Type here $xxx taken out of contract payments) |
| Commended Rating  (25 – 49.9 points) | 50% deduction (‑ve) of Supplementary Specification Bonus Item  (@ Type here $xxx taken out of contract payments) |
| Excellent Rating  (50 – 64.9 points) | 0% payment of Supplementary Specification Bonus Item |
| Excellent Rating  (65 – 74.9 points) | 50% payment of Supplementary Specification Bonus Item |
| Leading Rating  (75 – 100 points) | 100% payment of Supplementary Specification Bonus Item |

# Appendix A: Environmental Sustainability Policy



# Appendix B: Guide to incorporating sustainability into project decision making

# Appendix C: Guidance Note – Infrastructure Sustainability Base Case Framework

# Appendix D: Supporting information for infrastructure sustainability

Table D1 – Queensland Government Guidance and Policy

| Reference | Title |
| --- | --- |
| Protection of Great Barrier Reef | [*Reef 2050 Plan*](https://www.awe.gov.au/parks-heritage/great-barrier-reef/long-term-sustainability-plan)*,* Australian and*,* Queensland Government |
| Queensland Waste Management and Resource Recovery Strategy | [*Waste Management and Resource Recovery Strategy for Queensland*](https://www.qld.gov.au/environment/pollution/management/waste/recovery/strategy)*,* Queensland Government |
| Business Case Development | [*Business Case Development Framework*](https://www.statedevelopment.qld.gov.au/industry/infrastructure/business-case-development-framework)*,* 2021 |
| Queensland Procurement | [*Queensland Procurement Policy* 2021](https://www.forgov.qld.gov.au/finance-and-procurement/procurement/procurement-resources/procurement-policies-and-frameworks/our-procurement-policy), Queensland Government, Department of Housing and Public Works |
| Ethical Supplier Mandate | [*Ethical Supplier Mandate* 2021](https://www.forgov.qld.gov.au/finance-and-procurement/procurement/procurement-resources/search-for-procurement-policies-resources-tools-and-templates/ethical-supplier-mandate)*,* Office of the Chief Advisor – Procurement, Queensland Government |
| Indigenous Employment Policy | [*Queensland Indigenous (Aboriginal and Torres Strait Islander) Procurement Policy*](https://www.dsdsatsip.qld.gov.au/our-work/aboriginal-torres-strait-islander-partnerships/business-economic-development/queensland-indigenous-procurement-policy)*,* Queensland Government |
| Climate Change Policy | [*Climate Change Adaptation Strategy* 2017 - 2030](https://www.qld.gov.au/environment/climate/climate-change/adapting/strategy)*,* Queensland Government  [*Climate Change Transition Strategy*](https://www.qld.gov.au/environment/climate/climate-change/transition/queensland-climate-transition-strategy)*,* Queensland Government |

Table D2 – Transport and Main Roads Guidance and Policy

| Reference | Title |
| --- | --- |
| Transport and Main Roads Sustainability BAU Assessment and Recommended Credits | Transport and Main Roads Sustainability Business As Usual Assessment and Recommended Credits\_Default – Appendix G |
| Hydraulic Climate Change Requirements | [*Road Drainage Manual*](https://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/Road-drainage-manual.aspx)*,* Transport and Main Roads |
| EP170 | [Engineering Policy EP170 *Climate Change Risk Assessment Methodology*](https://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/Engineering-policies)*,* Transport and Main Roads |
| Climate Change Risk and Adaptation Assessment Framework for Infrastructure Projects | [Climate Change Risk and Adaptation Assessment Framework for Infrastructure Projects](https://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/Climate-change), March 2020, Transport and Main Roads |

# Appendix E: Sustainability business as usual assessment and recommended credits

# Appendix F: Guidance Note – Project sustainability commitments and objectives

# Appendix G: Infrastructure sustainability management plan outline

# Appendix H: Business Case handover package