

PART D16
SAFETY IN DESIGN

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1. GENERAL

- .1 This Part specifies the requirements for the incorporation of safety into the design of roadworks and bridgeworks infrastructure. This Part must be read in conjunction with Part D13 Road Safety Audits.

2. REFERENCES

- .1 The following documents are referenced in this Part:
 - (a) Australian Safety and Compensation Council (ASCC): Guidance on the Principles of Safe Design for Work; available from <http://www.safeworkaustralia.gov.au>;
 - (b) Safe Work Australia: model Code of Practice on the Safe Design of Structures; available from <http://www.safeworkaustralia.gov.au>; and
 - (c) Consult Australia: Safety in Design Pocket Guide; available from <http://www.consultaustralia.com.au>.
- .2 The Contractor must ensure that the design of the Works enables compliance with the following:
 - (a) Work Health and Safety Act 2012 (SA); and
 - (b) Work Health and Safety Regulations 2012 (SA).

3. DESIGN REQUIREMENTS

- .1 The Contractor acknowledges the importance that the Principal places on safety during the construction, operation and maintenance of the Works. The Contractor must ensure that safety principles are considered throughout the design process and its design procedures must have due regard for the requirements of the documents listed in Clause 2 "References".
- .2 The Contractor must liaise and consult with the Principal with regard to risks to health and safety arising from the design during the construction of the infrastructure, pursuant to Section 294 "Person who commissions work must consult with designer" of the *Work Health and Safety Regulations 2012* (SA).
- .3 The Contractor's design must take into consideration the safety of all persons:
 - (a) during construction of the Works;
 - (b) accessing, operating or utilising the completed Works; and
 - (c) maintaining the Works.

4. SAFETY IN DESIGN PROCEDURE

- .1 The Contractor must have a documented Safety in Design procedure outlining their process towards managing design implications in construction, operational and demolition phases of the project.
- .2 A Safety in Design risk assessment must be developed for the project and proposed safety controls must be forwarded to the Principal at the notional 30%, 70% and 100% design review stages in the process.
- .3 In undertaking the Safety in Design process, the Contractor must:
 - (a) establish the context for the design;
 - (b) identify the foreseeable uses of the design;
 - (c) identify hazards relevant to the phase of the project;

- (d) undertake an assessment of risk;
- (e) develop the Safety in Design risk assessment;
- (f) identifies potential control measures and determine residual risk based on the So Far As Is Reasonably Practical (SFAIRP) legal principle;
- (g) monitor and review the design process at critical stages (30%, 60% and 95%); and
- (h) communicate and consult with the Commissioner regarding Safety in Design.

.4 The Design Risk Register is a Controlled Document and submission to the Principal shall constitute a **HOLD POINT** (refer Clause 7 "Hold Points").

5. SAFETY IN DESIGN REPORT

.1 The Contractor must prepare a written Safety in Design Report which:

- (a) summarises the process, assessments and outcomes from accessing safety risks and hazards in the design;
- (b) is used to inform the contractor's Work Health and Safety Management Plans and Safe Work Method Statements;
- (c) considers and addresses construction / maintenance risks that can be ameliorated by the design process, including:
 - .1 positioning of site access and egress points;
 - .2 location of site facilities and accommodation;
 - .3 location of traffic/pedestrian routes;
 - .4 safe work at height requirements;
 - .5 working in confined spaces / excavations;
 - .6 proximity to traffic; and
 - .7 issues relating to working adjacent to or with live Utility Services, including high voltages or pressures, overhead clearances, dangerous excavations and asbestos materials;
- (d) addresses safety in the use / operation of the Works (if not addressed in other reports); and
- (e) satisfies the requirements of Section 295 "Designer must give safety report to person who commissions design" of the *Work Health and Safety Regulations*.

6. RECORDS

.1 The following records shall be provided to the Principal:

- (a) Safety in Design Report.

7. HOLD POINTS

.1 The following is a summary of Hold Points referenced in this Part:

CLAUSE REF.	HOLD POINT	RESPONSE TIME
4.4	Submission of the Design Risk Register	