

[*INSERT PROJECT NAME*]

DESIGN SERVICES CONTRACT

(DSC-1 2021)

brief

***[Last amended: 29 MAY 2024- PLEASE REMOVE PRIOR TO PUBLICATION OF TENDER DOCUMENTS]***

|  |
| --- |
| [***NOTE TO USERS: THIS DOCUMENT IS A TEMPLATE STARTING POINT AND:***   * ***ADOPTS TERMINOLOGY CONSISTENT WITH THE DSC-1 2021 TEMPLATE;*** * ***IS DRAFTED ON THE ASSUMPTION THAT IT WILL BE USED FOR A TWO PHASE (PLANNING PHASE AND DELIVERY PHASE) DESIGN SERVICES CONTRACT AND, IF THIS ASSUMPTION IS NOT CORRECT, THEN SECTIONS 4.1, 4.6(c)(i), 4.17, 4.24, 5.1 and 5.2 WILL NEED TO BE RECAST AS APPROPRIATE;*** * ***THIS DRAFT WILL NEED TO BE AMENDED AS APPROPRIATE IF AN ECI HC DELIVERY MODEL IS TO BE UTILISED EG SECTION 4.26;*** * ***EACH SECTION MUST BE CAREFULLY REVIEWED AND REVISED AS NECESSARY TO INCORPORATE THE PROJECT SPECIFIC REQUIREMENTS;*** * ***IT IS NOTED THAT CLAUSE 1.2(r) OF THE DSC CONDITIONS OF CONTRACT PROVIDES: “unless agreed or notified in writing by the*** [***Contract Administrator***](#ContractAdministrator)***, a reference to Standards Australia standards, overseas standards or other similar reference documents in the*** [***Brief***](#Brief) ***is a reference to the edition last published prior to the preparation of the*** [***Design Documentation***](#DesignDocumentation)***”. ACCORDINGLY, CARE NEEDS TO BE TAKEN AS TO HOW SUCH STANDARDS ETC ARE DESCRIBED IN THIS BRIEF SO AS TO NOT BE INCONSISTENT WITH CLAUSE 1.2(r) UNLESS A DIFFERENT PROJECT APPROACH IS REQUIRED***; ***AND*** * ***ALL USER NOTES IN SQUARE BRACKETS, BOLD AND ITALICISED SHOULD BE DELETED WHEN FINALISING THIS DOCUMENT.*** |

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2. INTERPRETATION
   1. Definitions

Unless the context otherwise requires, capitalised terms in this Brief have the meaning given to them in clause 1.1 of the Conditions of Contract. In addition, unless the context otherwise requires:

* + - 1. **Asbestos Management Plan** means the Security and Estate Group Asbestos Management Plan dated 15 December 2023, available at https://www.defence.gov.au/business-industry/industry-governance/industry-regulations/security-and-estate-asbestos-management-plan, as amended or replaced from time to time;
      2. **Base** means [***INSERT*** eg RAAF Base Darwin. ***AMEND/DEVELOP THIS DEFINITION AS NECESSARY IF IT IS TO ALSO COVER A TRAINING AREA***];
      3. **Cost Report** means a cost report that meets the requirements of this Brief including section 4.19;
      4. **Defence Asbestos Register** means **[*NOTE: DEVELOP THIS DEFINITION AS NECESSARY, INCLUDING A DESCRIPTION OF THE DOCUMENT(S) WHICH COMPRISE THE DEFENCE ASBESTOS REGISTER IN RELATION TO THE SITE AND ENSURE THAT SUCH DOCUMENT(S) ARE PROVIDED TO THE CONSULTANT AS PART OF THE TENDER PROCESS AND BEFORE THE AWARD DATE*]** as amended from time to time;
      5. **Design Milestone** has the meaning given in section 4.4(a);
      6. **Design Report** means a design report that meets the requirements of this Brief;
      7. **DMS** means the document management system (if any) required to be established under this Brief **[*NOTE: INCLUDE THIS DEFINITION IF SECTION 4.6 BELOW APPLIES, OTHERWISE, DELETE]***;
      8. **Functional Area Schedule** means a document to be prepared by the Consultant in accordance with the Contract that provides the basis for the RDS and, as a minimum:
         1. tabulates and identifies all building spaces (within a functional area such as a building) with unique designators (usually numerical);
         2. assigns for each space a common name (eg ‘conference room’) with intended number of occupants and indicative area (based on standard office allocations or customised for non-standard spaces); and
         3. identifies the generic services to be provided in the space and FF&E;
      9. **Mechanical Standard Inclusions** has the meaning given in clause 7.2(a)(ii);
      10. **P80 Confidence** means a cost confidence level that the cost estimate will not be exceeded 80% of the time, as further described in the Commonwealth Property Management Framework (RMG 500), in the section titled “Defining P50 and P80”, found at: <https://www.finance.gov.au/government/managing-commonwealth-resources/commonwealth-property-management-framework-rmg-500/defining-p50-and-p80> (as may be updated or replaced from time to time);
      11. **Project** means the project described in section 2.1;
      12. **section** means a section of this Brief; and
      13. **Stakeholders** means the stakeholders as contemplated in section 5.3(b).
  1. Acronyms and abbreviations

Without limiting section 1.1 and the other acronyms defined in clause 1.1 of the Conditions of Contract (including ESD and WOL), the following acronyms and abbreviations have the meaning given to them in this Brief: [***AMEND/ADD TO LIST BELOW TO ALIGN WITH THE TERMINOLOGY USED IN THIS BRIEF***]

| **ACRONYM** | **MEANING** |
| --- | --- |
| AS | Australian Standard |
| CDR | Concept Design Report |
| CFI | Capital Facilities and Infrastructure Branch |
| DBC | Detailed Business Case |
| DDR | Detailed Design Report |
| EGIS | Estate Governance and Integrity System |
| EMOS | Estate Maintenance and Operations Services |
| FF&E | Furniture, fixtures and equipment |
| FDR | Final Design Report |
| FSEOC | Future Sustainment, Employment and Operating Costs |
| HAZOP | Hazard and Operability Analysis |
| HVAC | Heating, Ventilation Air Conditioning |
| ICT | Information and Communications Technology |
| MFPE | Defence’s Manual of Fire Protection Engineering |
| MIEE | Defence’s Manual of Infrastructure Engineering-Electrical |
| MPFR | Master Plan and Feasibility Review prepared by the Contract Administrator and issued to the Consultant as an information document prior to the Award Date [***NOTE: CONTRACT ADMINISTRATOR TO INCLUDE THE MPFR AS AN INFORMATION DOCUMENT TO TENDERERS WHO ARE BIDDING FOR THIS DESIGN SERVICES CONTRACT***] |
| NCC | National Construction Code |
| NZS | New Zealand Standard |
| ODP | Ozone Depletion Potential |
| POC | Personnel and Operating Costs |
| POE | Post Occupancy Evaluation |
| PWC | Public Works Committee (being the Parliamentary Standing Committee on Public Works) |
| RDS | Room Data Sheets |
| SDR | Schematic Design Report |
| SEG | Security and Estate Group |
| SiD | Safety in Design |

1. project overview
   1. Background
      * 1. [***INSERT GENERAL OVERVIEW OF THE PROJECT, INCLUDING CONTEXT AND ANTICIPATED KEY ISSUES FOR THE PROJECT*]**
   2. Scope of Works
      * 1. As at the Award Date, the Works are summarised below and as more particularly described in Appendix 1 to this Brief:
           1. [***INSERT LIST OF SUMMARY DESCRIPTION OF THE WORKS***]
           2. [***INSERT LIST OF SUMMARY DESCRIPTION OF THE WORKS***]
        2. The purposes included in Appendix 1 are additional to any other purposes set out in, or to be reasonably inferred from, any other part of the Brief or other part of the Contract.
   3. Project Construction Budget

As at the Award Date, the anticipated budget construction cost for the Project is $[***INSERT***] (exclusive of GST). [***NOTE: THE BUDGET CONSTRUCTION COSTS SHOULD BE THE ANTICIPATED OUT TURNED COST OF CONSTRUCTING THE WORKS, BUT DOES NOT INCLUDE ANY PLANNING PHASE COSTS OR DELIVERY PHASE DEFENCE EXPENSES, CIOG COSTS OR COSTS OUTSIDE OF WHAT THE CONTRACTOR IS EXPECTED TO MEET SUCH AS PMCA FEES, DSC FEES ETC].***

* 1. Project Delivery
     + 1. **[*INSERT DESCRIPTION OF PROPOSED CONSTRUCTION CONTRACT DELIVERY MODEL*]**
  2. Other projects
     + 1. In parallel with the Project, there are other projects in the Planning Phase or Delivery Phase in respect of which the Project must integrate and coordinate. Due to the differing timeframes of each project that are, in some cases, scheduled to occur after the delivery of the Works, the Consultant must carefully coordinate the design of the Project with design documentation provided by other projects to ensure abortive works and disruption to Base operations are kept to a minimum. Where a conflict between the design for the Project and the design for any other project has been identified, the Consultant must inform the Contract Administrator and resolve these issues with the nominated representatives of the other projects.
       2. Other projects (both approved and unapproved) that may have an impact on the Project include those described below, the status of which may be updated by notice in writing from the Contract Administrator to the Consultant from time to time.

Table 2 - Other projects

| **Other Related Project** | **Impact on the Project** |
| --- | --- |
| [***INSERT PROJECT TITLE***] | [***INSERT PROJECT DESCRIPTION AND SPECIFICALLY HOW THE RELATED PROJECT MAY IMPACT ON THE PROJECT*]** |
| [***INSERT PROJECT TITLE*]**  [***ADD FURTHER ROWS AS REQUIRED***] | [***INSERT PROJECT DESCRIPTION AND SPECIFICALLY HOW THE RELATED PROJECT MAY IMPACT ON THE PROJECT*]**  [***ADD FURTHER ROWS AS REQUIRED***] |

* 1. The Site

[***INSERT DESCRIPTION – CHECK FOR ALIGNMENT OF HOW “SITE” IS DEFINED IN THE CONTRACT PARTICULARS AND WHETHER IT LINKS DIRECT TO THIS SECTION. ALSO INSERT APPROPRIATE SITE DIAGRAM. DESCRIPTION OF ‘SITE’ TO BE ALSO CONSIDERED IN LIGHT OF WHETHER OR NOT A PRELIMINARY SITE SELECTION FOR THE PROJECT IN QUESTION HAS BEEN UNDERTAKEN BY THE CONTRACT ADMINISTRATOR PRIOR TO THE FINALISATION OF THE APPLICABLE DESIGN SERVICES CONTRACT, WHICH ORDINARILY SHOULD BE THE CASE. SEE ALSO SECTION 4.8 (SITING APPROVAL).****]*

1. Project plans AND CONSULTANT’s PROGRAM
   1. Design Management Plan

[***THIS SECTION 3.1 TO BE REFINED AS NECESSARY TO REFLECT THE REQUIREMENTS FOR A DESIGN MANAGEMENT PLAN.***]

The Design Management Plan must address the procedure and process the Consultant will undertake in order to plan and manage the design of the Works. The Design Management Plan must address (as a minimum):

* + - 1. process for the management of the design including key people and design subconsultants;
      2. design control;
      3. document control;
      4. process for consultation with all applicable Stakeholders;
      5. process for liaison with the EMOS Contractor;
      6. process and narrative on how the design will progress, including:
         1. design reviews including recording all points raised by stakeholders, design decision made on the points raised and the justification for the decision;
         2. conducting briefings, design and other workshops, including:

value management workshops;

risk management workshops;

SiD workshops;

HAZOP workshops;

Stakeholder workshops;

construction phase workshops convened to resolve particular issues;

commissioning phase workshops convened to assist commissioning planning and/or to resolve particular issues;

lessons learned workshops;

post occupancy evaluation workshop;

protective security working group (or equivalent) workshops; and

integrated project management team workshops (if applicable);

* + - * 1. liaising with external agencies, including applicable State departments, service/utility providers (such as power, communications and gas) and Local Council; and
        2. finalisation of each Design Report;
      1. programming;
      2. cost estimate process;
      3. process for support of approval processes, including:
         1. siting approval process;
         2. PWC process; and
         3. any applicable environmental process;
      4. activities to support the HOTO process;
      5. how the design will be managed to meet the requirements of the Contract including this Brief;
      6. management of any dispensations required to be submitted in compliance with the Building Works Manual; and
      7. description of how the design will be managed to meet relevant standards of Standards Australia, Statutory Requirements and the existing Site infrastructure conditions and requirements.
  1. Required Project Plans (additional)
     + 1. The requirements in relation to the “Project Plans (additional)” contemplated in the Contract Particulars are set out in the section(s) below.
       2. The general requirements in relation to all Project Plans are addressed in clause 7.4 of the Conditions of Contract.
  2. Stakeholder Management Plan

[***THIS SECTION 3.3 TO BE INCLUDED AND REFINED AS NECESSARY IF THE STAKEHOLDER MANAGEMENT PLAN IS INCLUDED AS AN ADDITIONAL PROJECT PLAN FOR THE PURPOSES OF SECTION 3.2 OF THIS BRIEF. OTHERWISE THIS SECTION TO BE DELETED.*]**

* + - 1. The Stakeholder Management Plan must list all stakeholders included on the stakeholder register separately prepared by the Contract Administrator for the Project (and the Contract Administrator will provide a copy of such list to the Consultant) together with such additional stakeholders as may be subsequently identified by the Consultant, the Commonwealth or the Contract Administrator. This information must be further broken down to identify (as a minimum):
         1. the Stakeholders to be consulted;
         2. the Stakeholders to be keep informed;
         3. the Stakeholders from whom approvals (if any) are required;
         4. a communications protocol defining methods and nature of communications to stakeholders;
         5. workshops and meetings to be conducted to gather and review user requirements, including a schedule for these activities; and
         6. applicable Stakeholders to be invited to design presentations.
      2. The Stakeholder Management Plan must include the identification and engagement of the Stakeholders and the definition of their roles, responsibilities and input requirements throughout the Project, including authorities in accordance with section 5.4.
  1. Consultant’s Program

In addition to the specific requirements contemplated in clause 8.2 of the Conditions of Contract, the program to be developed by the Consultant under clause 8.2 must include the following:

* + - 1. [***INSERT DETAILS TO SUIT THE PROJECT REQUIREMENTS***]

1. Scope of Services
   1. Services

The Consultant must undertake the Services in accordance with this Brief and the other requirements of the Contract (including the quality assurance requirements set out in clause 7.1 of the Conditions of Contract). The Services are to be performed in each of the Planning Phase and (if applicable) the Delivery Phase as follows:

To the extent that an obligation of the Consultant under this Brief does not specify the phase in which it is to be performed, the Consultant must, unless the context clearly indicates otherwise (for example, by reference to a Milestone within a particular phase), perform the relevant Services in each of the Planning Phase and Delivery Phase.

***Planning Phase***

* + - 1. In the Planning Phase, the Services include: [***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]
         1. all Services outlined in section 4.8(b) in relation to the Concept Design Report (30% Design);
         2. all Services outlined in section 4.10 in relation to the Schematic Design Report (50% Design);
         3. all Services outlined in section 4.11 in relation to the Detailed Design Report (90% Design);
         4. all Services outlined in section 4.12 in relation to the Final Design Report (100% Design);
         5. provide support for [***OPTION 1*** the Medium Works Notification in accordance with section 4.20 [***OR OPTION 2*** provide support to the Parliamentary Works Committee (PWC) Referral in accordance with section 4.21] [***NOTE: DEPENDING ON THE APPROVAL REQUIREMENTS, SELECT OPTION 1 OR OPTION 2. IF THE REQUIRED APPROVAL PATHWAY IS NOT YET CONFIRMED, CONSULT THE PROJECT’S LEGAL ADVISER. A SPECIAL CONDITION DEALING WITH PRE-AGREED VARIATION MAY BE APPROPRIATE***];
         6. provide support to:

the siting approval process, as contemplated in section 4.8;

any required environmental approval process;

any particular aspects relating to the development by the Contract Administrator of the DBC;

any particular aspects relating to the development by the Contract Administrator (or third party) of the Project’s FSEOC; and

developing estate data;

* + - * 1. provide applicable certifications as required under clause 6.14 of the Conditions of Contract;
        2. provide assistance with activities associated with the completion of Planning Phase as outlined in section 4.13; and
        3. all other activities contemplated in this Brief or elsewhere in the Contract that relate to the Planning Phase.

***Delivery Phase***

* + - 1. In the Delivery Phase, the Services comprise those Services not covered in the Planning Phase, including: [***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS – FOR EXAMPLE, PARAGRAPH (ii) WOULD NEED TO BE RECAST WHERE AN ECI HC DELIVERY METHOD WILL BE UTILISED***]
         1. provide applicable certifications as required under clause 6.14 of the Conditions of Contract;
         2. provide support throughout the tender period for the appointment of a construction Contractor (including assisting in the preparation of responses to requests for information from tenderers) as outlined in section 4.25;
         3. provide support throughout the construction and commissioning phases as outlined in section 4.26;
         4. provide support throughout the Defects Liability Period, as outlined in section 4.27;
         5. provide support to Project finalisation as outlined in section 4.28; and
         6. all other activities contemplated in this Brief or elsewhere in the Contract that relate to the Delivery Phase.
  1. Discipline Services
     + 1. The Consultant must provide all the design services disciplines as may be necessary in order to complete the Services in accordance with the Contract.
       2. The design disciplines forming the Services include the following:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS, INCLUDING WHETHER PARAGRAPH (XV) IS APPROPRIATE***]

* + - * 1. architectural services;
        2. building surveying services;
        3. civil engineering services;
        4. electrical engineering services;
        5. fire engineering services;
        6. hydraulic engineering services;
        7. mechanical engineering services;
        8. structural engineering services;
        9. security services;
        10. voice/data communications services;
        11. acoustic engineering services;
        12. audio visual services;
        13. accessibility services;
        14. ESD services;
        15. estate information / data services;
        16. fire engineering services; and
        17. landscape design services.
  1. Consultant’s Representative
     + 1. Without limiting clause 4.5 of the Conditions of Contract and section 5, the Consultant’s Representative:
          1. is required to attend all Project management and design management meetings unless otherwise agreed by the Contract Administrator;
          2. is the main point of contact for the Contract Administrator with the Consultant; and
          3. is responsible for consultancy management and administration, Project planning and programming, Stakeholder liaison, including with the Contract Administrator, the Commonwealth and with authorities, and for the submission and presentation of all deliverables.
  2. Consultant Design Reports
     + 1. A Design Report must be prepared at each of the following milestones during the development of the Design Documentation (each a **Design Milestone**): [***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS. NOTE THAT THE LIST OF DESIGN MILESTONES MAY (BUT DOES NOT NECESSARILY NEED TO) BE ALIGNED WITH THE LIST OF TIME MILESTONES DEFINED IN CLAUSE 1.1 OF THE CONDITIONS OF CONTRACT***]
          1. CDR (30% design), as further described in section 4.9;
          2. SDR (50% design), as further described in section 4.10;
          3. DDR (90% design), as further described in section 4.11; and
          4. FDR (100% design), as further described in section 4.12.
       2. The content and format of each Design Report must be in accordance with section 7.2 and the other requirements of the Contract.
  3. Coordination and Checking of Design Documentation

The Consultant must ensure full coordination between all components of the Design Documentation and between the documentation produced by any subconsultants.

* 1. Document Management System

[***SECTION 4.6 IS AN OPTIONAL SECTION AND SHOULD ONLY BE USED IF THERE IS INCLUDED AS A SPECIAL CONDITION TO THE DESIGN SERVICES CONTRACT A CLAUSE AMENDING THE NOTICE PROVISIONS UNDER THE CONDITIONS OF CONTRACT TO ALLOW FOR NOTICES VIA DMS. IF NOT APPLICABLE, DELETE THIS SUB-SECTION IN ITS ENTIRETY AND INSERT “4.6 NOT USED***”. ***FURTHER, THE CLAUSE WOULD NEED TO BE REWORDED IF THE CONSULTANT IS TO UTILISE A DMS ESTABLISHED BY THE CONTRACT ADMINISTRATOR FOR THE PROJECT***.]

* + - 1. The Consultant must establish and maintain a web based Document Management System (**DMS**) approved by the Contract Administrator for the control of all documents used within the Project (whether produced by the Consultant or any other person including the Commonwealth and the Contract Administrator), based on a server within Australia.
      2. The DMS system must:
         1. securely:

create;

organise;

find;

track; and

collaborate,

all documents used within the Project;

* + - * 1. have the ability to provide for archiving; and
        2. have file and document naming conventions to be in accordance with:

Defence Requirements;

Information Security Requirements; and

any requirements set out in section 5.6.

* + - 1. The Consultant must:
         1. provide training for up to [***INSERT***] personnel from the Contract Administrator, [***INSERT***] personnel from the Commonwealth and at commencement of Delivery Phase (if any) [***INSERT***] personnel from each Contractor at time of respective contract award dates nominated;
         2. provide control and maintenance of documentation within the DMS until Completion (as defined in the Construction Contract) of the Works is achieved; and
         3. provide the Contract Administrator and nominated Commonwealth personnel with full administrative access to the DMS.
  1. Design Process
     + 1. The Consultant must ensure that the following objectives regarding the development of the Design Documentation are achieved:
          1. that the documentation is provided in sufficient, reasonable time to allow for review and comment by the Contract Administrator, procurement and construction activities, including, where applicable, the timing as contemplated under the Contract;
          2. that the design for the Works addresses all buildability, quality, constructability, maintainability and operability issues;
          3. [***AMEND WORDING TO SUIT THE PROJECT REQUIREMENTS, NOTING THAT THE SITE CONTEMPLATED IN THIS PARAGRAPH (iii) SHOULD NOT BE CONSIDERED AN ENTIRE DEFENCE BASE BUT RATHER A SPECIFIC AREA AGREED UNDER A SITING APPROVAL***]unless otherwise agreed by the Contract Administrator, that the design of the Works will ensure that the Works are physically located within the area of the siting approval once obtained as contemplated in section 4.8;
          4. that the design for the Works addresses the asbestos related risks identified from the Consultant’s review of the Asbestos Management Plan and Defence Asbestos Register;
          5. that the design is capable of producing a competitive response from tenderers for the Construction Contract; and
          6. that the design is provided economically and in accordance with the budgetary requirements of the Commonwealth as contemplated in clause 2.2(d) of the Conditions of Contract.
       2. Without limiting the foregoing, the Consultant must ensure that it carries out its applicable Services (including advice or documentation contemplated under section 4.25 or section 4.26) to:
          1. allow for compliance of responses by the Commonwealth (or its tender administrator and Contract Administrator) required under the applicable market procurement process or Construction Contract (as the case may be);
          2. in any event, meet any specific timeframes notified from time to time by the Contract Administrator to the Consultant where such timeframes are not otherwise specified in this Contract; and
          3. assist the Contract Administrator in meeting the Defence requirements in relation to the EGIS for the design development and review, including the preparation and updating of applicable deliverables and documentation required by this process such as an EGIS report (recording all relevant EGIS interactions across the Project’s lifecycle) in a format approved by the Contract Administrator.
  2. Siting Approval
     + 1. The Consultant must provide all design input for the purpose of assisting the Contract Administrator in relation to the particular siting approval process for the Works (the information in relation to such siting approval process to be separately provided by the Contract Administrator to the Consultant). This includes the development and provision of design information and documentation required by the various Defence and civilian organisations involved in the site selection process, as well as assisting the Contract Administrator in completing consideration matrices.
       2. **[*IF KNOWN, THIS SECTION SHOULD ALSO EXPLAIN AS TO WHETHER THE SSB IS TO BE A REGIONAL OR FULL SSB. THE LEVEL OF DOCUMENTATION REMAINS THE SAME BUT A REGIONAL SSB “SHOULD” TAKE LESS TIME****.]*
  3. Concept Design Report (30% design)
     + 1. The objective of the CDR is to develop the design sufficiently to provide a cost estimate to P80 Confidence (or such other level of confidence as may be notified by the Contract Administrator to the Consultant) and to inform the development of the DBC (noting that the Contract Administrator will complete the DBC) and other applicable Approvals. The Consultant must provide all the relevant technical details including drawings in a format described in section 7. and otherwise in a format acceptable to the Contract Administrator.
       2. The CDR:
          1. reviews the findings and options in the MPFR;
          2. must include recommendations and a cost estimate contemplated in paragraph (a);
          3. must contain the design options (minimum of three design options to be developed unless otherwise approved by the Contract Administrator) to reflect (other than for any option that may expressly indicate otherwise) the budgetary requirements of the Commonwealth as notified to the Consultant.
       3. On the submission of the Design Documentation applicable to the CDR Design Milestone, the Consultant must have developed the design sufficiently to resolve any issues affecting the layout of the Works. User requirements must be clearly defined for each functional area and issues regarding Site conditions are to be identified and quantified through Site investigations.
       4. In addition to the preparation and submission of the CDR, the Consultant must conduct the following activities to achieve the CDR Design Milestone:
          1. prepare a schedule of Stakeholders;
          2. develop the CDR based on the purposes for the Works and the other requirements of the Contract;
          3. provide professional design advice to the Commonwealth and Contract Administrator at all times;
          4. review and thoroughly understand the design, details and constraints of the existing Environment and existing buildings (including existing materials, configurations, FF&E and building systems);
          5. complete all initial investigations of the Site as contemplated in section 4.17;
          6. identify ESD issues to be addressed;
          7. develop RDS for each component of the Works based on the applicable Functional Area Schedule(s) and includes, as a minimum, the following details: [***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS]***

a unique space identification number;

functional group description;

space description identifying occupancy type and activities;

number of persons to use the space;

space allocation in square metres;

space contents, including the following:

wall types including internal and external finishes;

openings;

ceiling type;

flooring and floor covering type;

FF&E;

acoustic treatments to meet noise level requirements;

communications systems;

security requirements including physical and electronic systems;

electrical requirements including power and lighting;

fire detection and protection systems;

hydraulics requirements including sanitation systems;

mechanical systems including air conditioning systems or specialised environmental control;

vehicle pavements;

landscaping including footpaths;

explosive ordnance; and

dangerous or hazardous goods; and

mechanical services, including:

office equipment and other appliance power details;

lighting levels;

noise levels;

specific acoustic/privacy requirements and processes;

hours of operation;

heating, air conditioning, natural ventilation and mechanical ventilation;

specific mechanical services (including specialist/dedicated ventilation, piped gas services);

security;

fire rating,

vapour sealing and pressurisation; and

critical and hazardous processes or areas;

* + - * 1. detailed functional relationship diagrams or other approaches indicating the relationships between all spaces and the relationships between different buildings;
        2. prepare and present all considered proposals to applicable Stakeholders for consideration and discussion to enable the Commonwealth to arrive at a preferred solution;
        3. assist the Contract Administrator with technical and design information required for developing the cost estimate to be used for the DBC to the level of confidence contemplated in paragraph (a);
        4. assess areas for value management associated with the concept design and participate in a value management workshop;
        5. assess areas for risk associated with the concept design and participate in a risk management workshop;
        6. assess areas for safety associated with the concept design and facilitate a SiD workshop;
        7. identify all necessary design dispensations to be sought under the Building Works Manual and submit for approval in accordance with the Building Works Manual;
        8. attend all meetings, workshops and review sessions as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract; and
        9. organise, facilitate, chair and co-ordinate formal design presentations and Stakeholder consultation meetings.
      1. In addition to those requirements set out above, the CDR must include (as a minimum):

***[AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS]***

* + - * 1. strategic facilities planning issues and solutions;
        2. schematics of proposed and existing services infrastructure effected by the Works (both site networks and building systems, including provisional sizing of plant rooms and service shafts) and description of proposed approach;
        3. summary of construction types, materials and finishes, including consideration and use of locally sourced material where practical;
        4. without limiting paragraph (iii), description as to how the selection of construction types, materials and finishes will provide the local industry with a full, fair and reasonable opportunity to participate as subcontractors in the delivery of the Works;
        5. review of pedestrian access;
        6. review of vehicle access including turning circles for trailer mounted equipment and emergency and service vehicles;
        7. proposed solutions to environmental issues including solutions to bushfire protection;
        8. proposed solutions to NCC and Building Works Manual compliance;
        9. proposed solutions to access for persons with disabilities;
        10. proposed solutions to acoustic issues;
        11. proposed solutions to geotechnical, contamination and similar issues;
        12. concept Site layouts, photomontages and massing studies to enable design decisions to be made and to ensure compliance with Base Zone Plans can be verified (including verification of any vista restrictions);
        13. responses to town planning, environmental and heritage issues;
        14. concept design drawings and documentation from all design disciplines including:

**architects**: concepts, RDSs and narrative;

**civil**: concepts including narrative;

**electrical**: in accordance with Chapter 4 of the MIEE;

**fire**: concepts including narrative;

**hydraulics**: concept including narrative;

**mechanical**: concept including narrative, schematic of HVAC, water, sewage, gas, etc., list of major equipment noting sizes (kW,Ips,etc.) mechanical power density (watts/m2) and any other items as required by the Mechanical Standard Inclusions;

**structural**: proposed structural systems including narrative;

**building surveying**: in accordance with the Building Works Manual and the MFPE;

**security**: concepts and narrative;

**voice/data communications**: concepts including narrative, schedules of passive equipment and specifications including data and voice systems for all networks;

**audio visual**: concepts including narrative, schedules of passive equipment and active equipment and specifications;

**active ICT equipment**: concepts including narrative, schedules of active equipment and specifications;

**ESD**: energy simulation by major function (heating, cooling, lighting, fans, pumps, etc.); Analysis of energy conservation and waste management;

**landscape**: concepts including narrative;

* + - * 1. Functional Area Schedule;
        2. RDS;
        3. minutes of value management workshop (prepared by the Contract Administrator);
        4. minutes of risk management workshop (prepared by the Contract Administrator);
        5. minutes of SiD workshop;
        6. SiD report;
        7. minutes of design presentations and Stakeholder consultation meetings contemplated in paragraph (d)(xvi);
        8. minutes of protective security working groups (or equivalent);
        9. minutes of integrated project management team workshops (if applicable);
        10. Cost Report including cost estimate for all options to the level of confidence contemplated in paragraph (a); and
        11. documentation suitable for presentation and submission to the Defence Regional Environment and Sustainability Manager, applicable State departments, service/utility providers (such as power, communications and gas), the local community (such as notices, flyers and letter box drops) and Local Council.
  1. Schematic Design Report (50% design)
     + 1. The objective of the SDR is to produce the final schematic plans and configuration, Site levels and engineering requirements for the Works.
       2. In addition to the preparation and submission of the SDR, the Consultant must conduct the following activities to achieve the SDR Design Milestone:
          1. develop the SDR based on the CDR and information from the Stakeholder groups including to progress any one or more design options as may be required by the Contract Administrator with reference to the Commonwealth’s known budgetary requirements;
          2. provide professional design advice to the Commonwealth and Contract Administrator at all times, including all the relevant technical information such as drawings and cost information;
          3. review and thoroughly understand the design, details and constraints of the proposed and existing buildings;
          4. update the Functional Area Schedule through further Stakeholder consultation and also the RDS as appropriate;
          5. assess the recommendations of other Stakeholders and incorporate where applicable their requirements into the schematic design;
          6. research and review material and finishes and make recommendations and presentations to the Commonwealth;
          7. address identified ESD issues and NCC Section J compliance;
          8. updated report on NCC and Building Works Manual compliance;
          9. updated report on solutions to access for persons with disabilities;
          10. review the buildability of the design and provide documentation which describes the Consultant’s view on the buildability of the design;
          11. prepare all necessary material, issue documentation and consult with relevant Stakeholders in the preparation of all aspects of the design and documentation;
          12. identify long lead time procurement items;
          13. complete all remaining investigations of the Site as contemplated in section 4.17 that were not carried out or completed as part of the CDR activities;
          14. assess the risks associated with the design and participate in risk management workshops;
          15. assess areas for value management associated with the schematic design and participate in a value management workshop;
          16. assess areas for safety associated with the schematic design and facilitate a SiD workshop;
          17. in relation to any formal requests for dispensations sought, assist (as necessary) with the dispensation process under the Building Works Manual and maintain a register of all dispensation approvals;
          18. attend all meetings, workshops and review sessions as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract;
          19. organise, facilitate, chair and co-ordinate formal design presentations and Stakeholder consultation meetings; and
          20. develop and submit draft / shell estate data.
       3. In addition to those requirements set out above, the SDR must include the following:
          1. a section identifying departures from the CDR;
          2. strategic facilities planning issues and solutions;
          3. details of services infrastructure for the Site;
          4. detailed finishes and selections schedules, including consideration and use of locally sourced material where practical;
          5. without limiting paragraph (iv), updated description as to how the selection of construction types, materials and finishes will provide the local industry with a full, fair and reasonable opportunity to participate as subcontractors in the delivery of the Works;
          6. appropriate documentation tracking changes from the CDR;
          7. schedule of drawings;
          8. proposed solutions to environmental issues;
          9. presentation drawings in 2D;
          10. schematic architectural and engineering design drawings and documentation from all disciplines, including the following:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

**architectural**: schematic architectural design drawings including floor plans, building elevations, perspective views, envelope concept including narratives at scales of 1:100 and 1:50 where applicable. The architectural report is to incorporate details such as specifications and additional plans and schedules, including the following:

interior design drawings and presentations;

draft furniture plans showing all FF&E;

draft FF&E schedules including selections;

special room plans and wall elevations (1:50 scale minimum);

reflected ceiling plans;

typical wall sections;

partition type details including acoustic detailing and data;

signage types and locations (internal and external);

finishes schedules (external & internal);

outline door and hardware schedule; and

sanitary fixtures and tapware selections and outline schedule;

**structural:** schematic drawings with sized frames including footing and slab details, narrative and specifications;

**building surveying**: in accordance with the Building Works Manual and the MFPE;

**civil:** schematic design details and schematic drawings including details for drainage, detention, schematic levels, pavement and including narrative and specifications;

**mechanical:** schematic including narrative, schematic of HVAC water, sewage, gas etc., list of major equipment noting sizes (kW. Etc.), mechanical power density (watts/m2) and specifications;

**electrical**: in accordance with Chapter 4 of the MIEE;

**fire/hydraulic**: schematic drawings including narrative and specifications;

**landscape architecture**: schematic drawings including narrative, specifications and species listings;

**security services (electronic and physical):** schematic drawings including narrative and specifications, risk analysis and a gap analysis by Site;

**ICT**: schematic drawings including narrative and specifications including data and voice systems for all networks;

**audio visual**: schematics including narrative, schedules passive equipment and active equipment and specifications;

**active ICT equipment:** schematics including narrative, schedules of active and passive equipment and specifications;

**ESD:** energy simulation by major function (heating, cooling, lighting, fans, pumps, etc.); Analysis of energy conservation and waste management; and

**other consultancies**: schematic drawings and including narratives and reports addressing other relevant consultancies and including NCC, Building Works Manual, acoustic, bushfire, geotechnical and contamination;

* + - * 1. updated Functional Area Schedule;
        2. updated RDS and any additional RDS to include all rooms and areas;
        3. minutes of value management workshop (prepared by the Contract Administrator) to be included in the SDR;
        4. minutes of risk management workshop (prepared by the Contract Administrator) to be included in the SDR;
        5. minutes of SiD workshop;
        6. minutes of design presentations and Stakeholder consultation meetings contemplated in paragraph (b)(xix);
        7. minutes of protective security working groups (or equivalent);
        8. minutes of integrated project management team workshops (if applicable);
        9. SiD report;
        10. update the Cost Report that was provided as part of the CDR activities to reflect costings in light of scope in the SDR; and
        11. proposed staging of the works required.
      1. On the submission of the Design Documentation applicable to the SDR there should be no key design decisions left to be made, only the preparation of working drawings and specifications. The SDR must be of a high quality and be comprehensive.
  1. Detailed Design Report (90% design)
     + 1. The objective of the DDR is to develop the design or functional space to produce the final details of the Commonwealth’s requirements. The DDR:
          1. is to include the detailed design;
          2. must have been considered by all applicable Stakeholders; and
          3. must not have any unresolved assumptions or outstanding issues.
       2. In addition to the preparation and submission of the DDR, the Consultant must conduct the following activities to achieve the DDR Design Milestone:
          1. develop the DDR based on the SDR and the information from Stakeholders;
          2. finalise detailed options covering planning, constructability, finishes, structure and building and precinct services;
          3. finalise research of material and finishes and make recommendations and presentations to the Commonwealth, including consideration and use of locally sourced material where practical;
          4. without limiting paragraph (iii), updated description as to how the selection of construction types, materials and finishes will provide the local industry with a full, fair and reasonable opportunity to participate as subcontractors in the delivery of the Works;
          5. prepare final design options as required;
          6. develop design layout plans, sections and elevations and other required documentation;
          7. finalised report on ESD and NCC Section J compliance;
          8. finalised report on NCC and Building Works Manual compliance;
          9. finalised report on bushfire compliance;
          10. finalised report on solutions to access for persons with disabilities;
          11. finalised RDS;
          12. update the Cost Report that was provided as part of the SDR to P90 Confidence;
          13. provide a detailed review of the buildability of the design and provide documentation which describes the Consultant’s review and any reliance on the buildability of the design;
          14. prepare design drawings, presentations and other material to satisfactorily describe the design;
          15. attend all meetings, workshops and review sessions as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract;
          16. assess the risks associated with the design and participate in risk management workshops. Include minutes (prepared by the Contract Administrator) of risk management workshop in the DDR;
          17. assess areas for value management associated with the design and participate in a value management workshop. Include minutes of value management workshop in the DDR;
          18. assess areas for safety associated with the 90% detailed design and facilitate a SiD workshop. Include SiD report in the DDR;
          19. document and finalise all dispensation approvals obtained and maintain a register of all dispensation approvals already obtained and those yet to be obtained;
          20. organise, facilitate, chair and co-ordinate formal design presentations and Stakeholder consultation meetings; and
          21. pre-populate estate data shells.
       3. In addition to those requirements set out above, the DDR must include (as a minimum) the following:
          1. a section identifying departures from the SDR;
          2. appropriate documentation tracking changes in the design development;
          3. schedule of completed drawings;
          4. proposed solutions to environmental issues such as acoustic protection;
          5. presentation drawings in 2D;
          6. calculations, schedules, details and scoping drawings to adequately describe the Works; and
          7. completed design drawings and documentation from all design disciplines including the following:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

**architectural:** updated detailed architectural design drawings and narratives including floor plans, building elevations, perspective views, envelope concept at scales of 1:100, 1:50, 1:20 where applicable. The architectural report is to contain updated drawings and schedules including the following:

Interior design drawings and presentations;

Finalised furniture plans showing all FF&E;

Finalised FF&E schedule including colours and selections;

Special rooms plans (including amenities and plant rooms) with wall elevations (1:50 scale minimum);

Coordinated reflected ceiling plans including all ceiling mounted services;

Typical wall sections;

Partition type details including acoustic detailing & data;

Signage types and locations (internal and external);

Finishes schedules (external & internal);

Door and hardware schedule; and

Sanitary fixtures & tapware selections and schedule;

**structural:** detailed drawings including narrative and specifications;

**civil:** detailed drawings including details for drainage, detention, schematic levels, pavement and including narrative and specifications and in ground services coordination;

**mechanical:** detailed drawings including narrative, detailed design of HVAC, water, sewage, gas etc., list of major equipment noting sizes (kW, etc.), mechanical power density (watts/m2) and specifications. Coordinated above ceiling services drawings including overlays of lights, air grilles, HVAC ducting, fan coil units, chilled water lines, electrical cable trays, in ceiling hydraulic services, in ceiling fire services and the like.

**electrical:** detailed drawingsin accordance with Chapter 4 of the MIEE;

**fire/hydraulics:** detailed drawings including narrative and specifications;

**landscape architecture:** detailed drawings including narrative, specifications, species listings and plant numbers;

**security services (electronic and physical):** detailed drawings including narrative and specifications, risk analysis and a gap analysis by Site; and

**ICT**: detailed drawings including narrative and specifications including data and voice systems for all networks.

* 1. Final Design Report (100% design)
     + 1. The objective of the FDR is to finalise detailed design covering planning, constructability, finishes, structure and building and precinct services ready for tender for the construction Contractor.
       2. In addition to the preparation and submission of the FDR, the Consultant must conduct the following activities to achieve the FDR Design Milestone:
          1. prepare all necessary documentation and consult with relevant authorities in the preparation of all aspects of the construction documentation;
          2. obtain all necessary dispensation approvals in accordance with the Building Works Manual and maintain a register of all dispensation approvals granted;
          3. conduct SiD workshops with relevant Stakeholders, prepare meeting minutes and demonstrate how the SiD outcomes have been incorporated into the design;
          4. coordinate the design between all design disciplines including services coordination and reflected ceiling plan coordination;
          5. coordinate the sequencing priorities for the Works;
          6. prepare design drawings, presentations and other material to satisfactorily describe the final design;
          7. prepare construction issue drawings and specifications as necessary to fully describe and complete the Works; and
          8. attend all meetings, workshops and review sessions as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract.
       3. The Consultant must prepare the 100% FDR which incorporates comments from the 90% DDR, risk management and lesson learnt workshops and update the design to be issued as ‘For Tender’.
       4. TheFDR must include:
          1. the ‘For Tender’ Design Documentation that is fully documented, complete in all respects for the entirety of the Works, including as contemplated by section 7.1;
          2. a consolidated register of all ‘For Tender’ Design Documentation;
          3. Site-specific and facility-specific drawings, specifications and other Design Documentation as listed in this Brief, which is not exhaustive and provides the minimum content requirements. Any deviation or exceptions to this must be recommended by the Consultant and approved by the Contract Administrator prior to submission of the relevant design report;
          4. a “deviations and exception” summary that discusses any key changes from the non-rejected DDR to the final design contained within the FDR submission;
          5. a statement that the FDR documentation is in accordance with the DDR and related Cost Plan. Where there has been a change, then sufficient details must be provided in relation to the nature and cost impact of the change; and
          6. the final SiD report.
       5. The ‘For Tender’ Design Documentation must:
          1. be fully designed and documented and does not rely on the Contractor to undertake or complete the design on behalf of the Consultant. This is to include all drawings, details, schedules, specifications and the like;
          2. be fully coordinated documents and be aligned and consistent with the terminology and content in the Construction Contract;
          3. clearly package and identify the various trades required for the carrying out of the Works;
          4. include Site-specific and facility-specific drawings, specifications and other Design Documentation and as detailed (as a minimum) in this Brief, which is not exhaustive and provides the minimum content requirements. Any deviation or exceptions to this must be recommended by the Consultant and approved by the Contract Administrator prior to submission of the relevant Design Documentation;
          5. include a separate document/section for any identified mandatory ‘cost options’ the Contractor will be required to price separately; and
          6. include all safety information that a designer is required to provide in accordance with the applicable WHS Legislation.
  2. Value Management
     + 1. It is expected that each value management review will take the format of a workshop, which will take approximately one day and be held in [***INSERT LOCATION***] or such other location notified by the Contract Administrator to the Consultant. The Consultant must provide all necessary documentation required for the review.
       2. The purpose of value management is to seek the most efficient way to proceed and explore options for the design of the Works. Value management workshops must be adopted as an intrinsic part of the process for ensuring value for money. The Consultant must participate in all value management workshops.
       3. Value management workshops are to be held prior to Completion of each of the CDR, SDR and DDR Design Milestones. In relation to the CDR workshop, there is to be a minimum of three design options to be provided (unless otherwise approved by the Contract Administrator) including (if applicable) those options as contemplated in the Detailed Business Case.
       4. These workshops are to be facilitated by the Contract Administrator and must be attended by:
          1. the Consultant and any sub-consultants requested by the Contract Administrator;
          2. other consultants as required;
          3. the Contract Administrator;
          4. applicable Stakeholders; and
          5. Commonwealth representatives.
       5. Following each workshop the Consultant must assist in the development of selected ideas generated in the value management workshop into working solutions.
  3. Risk Management
     + 1. The Consultant must participate in risk management workshops and provide input to the risk register prepared by the Contract Administrator. For clarity, these risk management workshops will not include an assessment of Work, Health and Safety (WHS) risk items. These will be addressed in the SiD workshops detailed in section 4.15.
       2. Risk analysis and management is an essential part of the Contract. The Consultant is responsible for the early identification and proactive management of risks throughout its provision of the Services.
       3. At a minimum, risk management workshops will be held prior to Completion of CDR, SDR and DDR Design Milestones.
       4. The Contract Administrator will have a formal procedure for risk management, which will require the following to be established:
          1. major Stakeholders and their objectives;
          2. forum for managing risk;
          3. scope of the Project and each risk management workshop; and
          4. stages and frequency at which risks are to be reviewed.
       5. These workshops are to be facilitated by the Contract Administrator and will be attended by:
          1. the Consultant and any of their sub-consultants requested by the Contract Administrator;
          2. other consultants as required;
          3. the Contract Administrator;
          4. applicable Stakeholders; and
          5. Commonwealth representatives.
       6. It is expected that each risk management review will take the format of a workshop, which shall take approximately one day and be held in [***INSERT LOCATION***]. The Consultant must provide all necessary documentation required for the review, in a format requested by the Contract Administrator.
       7. During risk management workshops, the following actions must be undertaken (as a minimum):
          1. assessment of the risk events;
          2. prioritisation of risks; and
          3. formation of a risk response strategy and action plan.
       8. It is proposed to conduct the first formal risk management exercises in line with value management workshops. This will involve key Commonwealth representatives and applicable Stakeholders, the Contract Administrator, the Consultant, and all other consultants as required. The Contract Administrator is to prepare and distribute minutes of risk management workshops.
  4. Safety in Design
     + 1. The purpose of managing SiD is to seek safe ways to construct, install, test, commission, operate, maintain and demolish the facilities and to ensure, so far as is reasonably practicable, the ongoing safety of users and other Stakeholders. SiD is a risk management process that implements control measures early in the design process to eliminate or, if this is not reasonably practicable, minimise risks to health and safety throughout the life of the asset being designed.
       2. By identifying hazards and risks associated with the design of the facilities, SiD workshops are used as an intrinsic part of the process for ensuring the safety of facility users and Stakeholders during the entire asset lifecycle. The Consultant must undertake and chair all SiD workshops.
       3. SiD workshops must coincide with the following:
          1. CDR;
          2. SDR;
          3. DDR; and
          4. FDR.
       4. Without limiting its obligations elsewhere in the Contract include clause 6.16 of the Conditions of Contract, the Consultant must:
          1. facilitate the SiD workshops, which must also be attended by:

the Consultant and any of their sub-consultants requested by the Contract Administrator;

other consultants as required;

the Contract Administrator; and

applicable Stakeholders;

* + - * 1. provide all necessary documentation required for the SiD workshops, including any information regarding risks and hazards applicable to the Site and the Works;
        2. prepare and distribute minutes of the SiD workshops; and
        3. develop the outcomes of the SiD workshops into Project specific SiD reports for inclusion in each Design Report, which specifies the hazards relating to the design of any structure (or part) which:

create a risk to health or safety to those carrying out construction work on the structure (or part); and

are associated only with that particular design.

* 1. Environmental and Heritage

[***SECTION 4.16 IS AN OPTIONAL SECTION. IF NOT APPLICABLE, DELETE THIS SUB-SECTION IN ITS ENTIRETY AND INSERT “4.16 NOT USED”. IN ADDITION, CONSIDER WHETHER A SUB-SECTION ON A SELF-ASSESSED EAR ON BEHALF OF DEPAC SHOULD BE INCLUDED.*]**

* + - 1. The Consultant must engage an environmental subconsultant for the Works (**Environmental Subconsultant**).
      2. The Environmental Subconsultant will undertake an Environmental Report (**ER**):
         1. to inform the Commonwealth of the potential environmental and heritage (indigenous, historic and natural) impacts of the proposed facilities. It will be undertaken in the form of the guidelines included on the Defence Website. The submission of the final ER will coincide with the completion of the CDR; and
         2. to address the potential for impacts associated with site selection, design, construction and operation (whole of life) and make recommendations as to whether further assessments are required at each location.
      3. The recommendations contained within both the ER and subsequent assessments/ investigations must be implemented by the Consultant.
      4. The Environmental Subconsultant is required to attend key design presentations and relevant Stakeholder consultation workshops.
      5. The Consultant must:
         1. co-ordinate the activities of the Environmental Subconsultant and obtain all the required technical input including design details as required; and
         2. update its Project Plans to incorporate recommendations made within the ER.
  1. Due Diligence Investigations

*[****THE WORDING IN SECTION 4.17 IS A GUIDE ONLY AND THE PARTICULAR SITE INVESTIGATIONS REQUIRED SHOULD BE AS PRESCRIPTIVE AS POSSIBLE AND SHOULD ALSO BE CONSIDERED IN LIGHT OF WHAT SITE INVESTIGATIONS MAY BE REQUIRED FROM THE CONSTRUCTION CONTRACTOR.****]*

* + - 1. The Consultant must undertake:
         1. undertake the following Site investigations:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS AND FOR THE CATEGORIES TO BE REFINED TO BE FOCUSED AND SPECIFIC AS POSSIBLE. THE INTENT OF THIS PARAGRAPH (i) IS FOR THE CONTRACT ADMINISTRATOR TO IDENTIFY AND LIST PARTICULAR INVESTIGATIONS WHICH, AS A MINIMUM, MUST BE UNDERTAKEN BY THE CONSULTANT. THE LIST SHOULD NOT BE A CATCH ALL AS THAT WOULD UNDERMINE THE APPLICATION OF PARAGRAPH (ii). THE INTENT OF COMBINED PARAGRAPHS (i) AND (ii) IS TO SEEK A BALANCED RISK PROFILE REGARIDNG WHAT IS TO BE PRICED BY THE CONSULTANT IN ITS ORIGINAL FEE, NOTING ANY FURTHER INVESTIGATIONS UNDER PARAGRAPH (ii) WOULD BE EFFECTED BY WAY OF THE ISSUE OF A VARIATION ORDER BY THE CONTRACT ADMINISTRATOR TO THE CONSULTANT.*]**

engineering infrastructure survey;

services identification and investigations;

existing condition and infrastructure survey;

land, topographical and features surveys;

UXO surveys;

[***INSERT SPECIFIC GEOTECHNICAL INVESTIGATIONS***];

flora/fauna, heritage and air quality;

contamination, asbestos survey and other hazardous materials survey; and

lead-based paint survey;

* + - * 1. recommend to the Contract Administrator such additional Site investigations over and above those specified in paragraph (i):

which the Consultant would consider necessary for the comprehensive and accurate planning, scoping, design, costing and programming of the Works during the Planning Phase; and

without limiting the foregoing, necessary to complete all Site investigations and other risk reduction studies necessary to develop the Design Documentation to comply with the requirements of the Contract; and

* + - * 1. physical or other inspections of all Site services, infrastructure and buildings that relate to, or may be connected to, the Works in order to ascertain its condition, capacity, location, material or any other detail required to ensure adequate supply of the service to the Works. Without limiting the foregoing, the Consultant must:

review any available building (internal and external), land and feature surveys for relevance; and

liaise with the EMOS Contractor who may be able to assist with locating services or any existing survey data.

* + - 1. The Consultant must coordinate the planning and management of preliminary and detailed due diligence investigations and other risk reduction studies required to inform the design of the Works. These investigations must (unless otherwise agreed by the Contract Administrator) be complete prior to the achievement of CDR.
      2. The Consultant must integrate the geotechnical and other investigation surveys/reports and risk reduction studies and follow up recommendations into the Design Documentation.
      3. Without limiting the foregoing:
         1. where new works are to interface or intersect with existing services a survey of these services must be undertaken by the Consultant to ensure the accuracy of existing documentation and the coordination of design; and
         2. if not already available, the capacity of the existing services must be ascertained by the Consultant.
  1. Indigenous Management

[**THE WORDING IN THIS SECTION 4.18 TO BE DEVELOPED AS NECESSARY TO CONSIDER THE DIP-EHEE INDIGENOUS HERITAGE SERVICE CATEGORY AND ANY INDIGENOUS STUDIES THAT SHOULD BE UNDERTAKEN BY THE CONSULTANT.**]

* + - 1. With the support of the Contract Administrator, the Consultant must consider and consult with traditional owner groups (if applicable) to determine whether there is the need to address any cultural management issues that may impact on the development of the Design Documentation or the other Services.
  1. Cost Planning
     + 1. The Consultant must develop a Cost Report as part of each Design Milestone. The Consultant must:
          1. maintain quality control systems that ensure all information and documentation used for the preparation of the scheduled outputs is current at the time of issue; and
          2. provide progressive statements of costs against the budgetary requirements of the Commonwealth notified to the Consultant and advise on methods to maintain the required budget.
       2. The Consultant must undertake a review of the Commonwealth budget for the Works and the Works to be designed in accordance with the Contract and provide advice on any mismatch between scope and budget, including suggesting alternatives to overcome the inconsistencies, if any.
       3. Each Cost Report must be circulated to the Contract Administrator in both PDF and Microsoft EXCEL format which the Consultant must use as the basis for presentation of the cost plan in each Design Report.
       4. The Consultant must prepare each Cost Report so as to meet the requirement of the Department of Finance Resource Management 500 Commonwealth Property Management Framework. Without limiting the foregoing, each Cost Report must include an amount for design and construction contingency which:
          1. is based upon a quantitative risk assessment having regard to specification/scope risk, pricing risk and other risks; and
          2. when simulated utilising ‘@RISK’ (or approved equivalent) delivers a cost estimate to P80 Confidence or such other cost confidence level instructed by the Contract Administrator.
       5. The Consultant must update both the quantitative risk assessment and cost simulation prior to finalisation of the Cost Report in each Design Report.
       6. The Consultant must assist the Contract Administrator by:
          1. monitoring and assessing all design decisions in terms of their impact on the capital and recurrent costs of the Works;
          2. regularly monitoring costs and advise on methods to maintain the budgetary requirements of the Commonwealth notified to the Consultant;
          3. reviewing and reporting on engineering services specifications and engineering services cost estimates;
          4. reviewing any claims for variations or extensions of time with respect to cost and providing advice; and
          5. advising of any unforeseen or potential cost impacts on the Works.
       7. The Consultant must update each Cost Report to reflect any comments provided by the Contract Administrator.
  2. Medium Works Notification

***[SECTION 4.20 IS AN OPTIONAL SECTION. IF NOT APPLICABLE, DELETE THIS SUB-SECTION IN ITS ENTIRETY, INCLUDING THE SECTION NUMBER ITSELF AND, IN THAT CASE, SECTION 4.21 WILL APPLY]***

* + - 1. The Consultant must provide assistance to the Commonwealth to achieve Parliamentary Approval for the Project through the PWC’s Medium Works Notification process, including:
         1. prepare and provide Design Documentation, requiring minimal rework, that meets the minimum content for a Medium Works Notification, in accordance with the PWC Procedures Manual, Edition 9.6 dated December 2022 as amended from time to time; and
         2. provision of all necessary costings.:
  1. Support to PWC Referral

[***SECTION 4.21 IS AN OPTIONAL SECTION. IF NOT APPLICABLE, DELETE THIS SUB-SECTION IN ITS ENTIRETY, INCLUDING THE SECTION NUMBER ITSELF****”*]

* + - 1. The Consultant must produce the information and background technical support material, as required for the PWC Referral. Required activities include: [***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]:
         1. prepare, provide and, if required, revise Design Documentation, requiring minimal rework, that meets the minimum content for a Public Submission (Statement of Evidence) and Confidential Submission (Confidential Cost Estimate), in accordance with the PWC Procedures Manual, PWC Procedures Manual, Edition 9.6 dated December 2022 as amended from time to time;
         2. prepare for and participate in the review and updating of the Project Risk Register;
         3. prepare, coordinate, provide and, if required, revise Design Documentation necessary for the preparation by the Contract Administrator of Fact Sheets, Witness Packs and Potential Questions and Responses;
         4. prepare and provide all Design Documentation necessary for public information sessions and Stakeholder consultation briefings;
         5. if required, participate in public information sessions and Stakeholder consultation briefings;
         6. prepare and provide Design Documentation required for PWC site inspections; and
         7. prepare and provide Design Documentation necessary for community consultation and participate in community consultation as part of the community consultation team.
      2. The following background technical material is to be provided by the Consultant (without limitation):

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

* + - * 1. location plans and maps;
        2. scope of the Works;
        3. site description;
        4. zoning;
        5. planning and design;
        6. Project staging;
        7. provision for disabled;
        8. ESD measures;
        9. site planning;
        10. future development;
        11. structural systems;
        12. materials and finishes;
        13. mechanical services;
        14. hydraulic services;
        15. fire protection;
        16. electrical and communications services;
        17. security;
        18. landscaping;
        19. civil works;
        20. Stakeholders and authorities consulted;
        21. relevant codes and standards;
        22. Project cost;
        23. program;
        24. associated drawings (including photomontages);
        25. [3D Fly-through including post-production] ***[THIS PARAGRAPH IS OPTIONAL. IF NOT APPLICABLE, DELETE AND AMEND NUMBERING ACCORDINGLY]***; and
        26. in addition to the revised Design Documentation contemplated in paragraph (a)(iii), prepared responses to questions likely to be asked by the PWC at the hearing in the form of prepared Fact Sheets in accordance with a template Fact Sheet approved by the Contract Administrator.
  1. Support to PWC Hearing

[***SECTION 4.22*** ***IS AN OPTIONAL SECTION. IF NOT APPLICABLE, DELETE THIS SUB-SECTION IN ITS ENTIRETY AND INSERT “4.22 NOT USED****”.* ***CONSIDER ALSO PRICING CONSIDERATIONS IF THE LOCATION OF THE HEARING IS NOT KNOWN AT THE TIME OF CONTRACT AWARD****.*]

* + - 1. The Consultant must attend [***INSERT NUMBER***] separate full day rehearsals leading up to the PWC Hearing, which rehearsals to be held in [***INSERT LOCATION***] or such other location notified by the Contract Administrator to the Consultant.
      2. The Consultant must, and must ensure that selected design subconsultants (as advised by the Contract Administrator), attend the PWC Hearing, including site tours, confidential estimate and public hearing, to be held in the location advised by the PWC and notified by the Contract Administrator to the Consultant.
      3. The Consultant must provide mounted and coloured plans, 3D images, elevations and perspectives for the PWC hearing, together with external and internal finishes boards. This includes provision of easels or other aid for mounting of the plans, images, elevations and perspectives.
  1. Training
     + 1. The Consultant must prepare for, attend and participate in any “Just in Time” (or equivalent) training provided by the Commonwealth and the Commonwealth’s other advisers with respect to this Contract and any Construction Contract (as defined in clause 1.1 of the Conditions of Contract).
       2. The Consultant must ensure that the Consultant’s Representative and all other Consultant personnel engaged in the Services and any issues arising from the administration or management of the Construction Contracts attend such training.
  2. Completion of Planning Phase

The Consultant must assist the Contract Administrator with all other activities associated with the completion of the Planning Phase. Assistance is to include:

* + - 1. providing copies of drawings, schedules, specifications, other costings and other documents as directed by Contract Administrator;
      2. attend all meetings as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract; and
      3. promptly responding to queries as required by the Contract Administrator.
  1. Assistance for the procurement of the Contractor

The Consultant must assist the Contract Administrator in the course of the procurement of the Contractor. Required assistance includes:

* + - 1. providing copies of drawings, schedules, specifications and other documents marked “for tender purposes” in discrete tender sets required for inclusion in tender documents;
      2. provide input to the development of a ‘Pre Tender Estimate’ if applicable (prepared by the Contract Administrator);
      3. if required, attendance and presenting at, the industry briefing for the Construction Contract tenderers;
      4. promptly responding to tender queries and ‘requests for information’ as may be required by the Contract Administrator;
      5. assist with preparing addenda during tendering or negotiations and including supplementary drawings, specifications, instructions and notice(s) of changes in tender documents;
      6. review and provide advice in relation to any alternative proposals submitted by tenderers, as notified to the Consultant by the Contract Administrator;
      7. if required, participate as a technical adviser to the Tender Evaluation Board and provide technical assistance as required; and
      8. coordinating and issue of “For Construction” Design Documentation for inclusion into the Works Description for the Construction Contract, which incorporates all addenda, additional details, amendments and negotiations occurring during the tender process for the construction Contractor. The Consultant must provide the final “for construction” Design Documentation to the Contact Administrator within the period notified by the Contract Administrator to the Consultant and, in any event, so as not to delay contract award of the Construction Contract(s).
  1. Construction and Commissioning

The Consultant must carry out services as required to support the construction and commissioning of the Works, including the following activities:

* + - 1. attendance at Site meetings;
      2. attendance on Site as necessary to carry out the as-built audit;
      3. resolution of any ambiguity, discrepancy or inconsistency or ‘requests for information’ in accordance with clause 6.11 of the Conditions of Contract and the Special Conditions (as applicable) of the applicable Project Contract. Keep a record of the time taken between receipt of the request and resolution of the request and provide a copy of the schedule tracing this information when requested by the Contract Administrator;
      4. review of all shop drawings and maintenance manuals prepared by the Contractor. Track time between receipt of as-built drawings and maintenance manuals from the construction Contractor and their review by the Consultant. Provide a copy of the schedule tracking this information when requested by the Contract Administrator;
      5. review of all samples, prototypes, product information and the like. Track time between receipt of samples, prototypes, product information and the like from the construction Contractor and their review by the Consultant. Provide a copy of the schedule tracking this information when requested by the Contract Administrator;
      6. review and comment on the construction Contractor’s quality assurance procedures for design verification including procedures such as nomination and verification of the scope of inspection, testing, witness points, hold points, samples submission, prototype submission, etc., to enable the Consultant to provide a Consultant Design Certificate in accordance with clause 6.14 of the Conditions of Contract;
      7. provide, as part of its monthly reports under clause 4.8 of the Conditions of Contract, details on the quality assurance aspects of the Works, the compliance of the installed Works with the design intent and the status of non-conformances and corrective actions. The Consultant is to submit and have approved a proposed reporting format two weeks prior to submitting the first report;
      8. attendance (at least on a [***INSERT PERIOD e.g. monthly basis***] on and off-site to verify the construction Contractor’s compliance with the approved Inspection and Test Plans, and to identify non-conformance and agree on suitable rectification prior to the works being finalised;
      9. undertake Site inspections on a regular basis, including as required to satisfactorily certify the Works in accordance with clause 6.14 of the Conditions of Contract;
      10. review construction Contractor’s commissioning proposals and program and commissioning results to confirm that systems are operating as designed and ensuring this is completed in accordance with the HOTO Requirements;
      11. review and comment of Contractor’s warranty and technical data submissions;
      12. inspection of the Works prior to Completion and preparation and monitoring of the defects list;
      13. assistance with user education and change management processes required to achieve the ESD and green building outcomes of the Works; and
      14. assistance with handover procedures to the EMOS Contractor and Defence staff.
  1. Defects Liability Period
     + 1. The Services include assisting the Contract Administrator during the Defects Liability Period (as defined in the Construction Contract) to check that all Defects (as defined in the Construction Contract) identified by the Commonwealth or its consultants (or both) required to be rectified are rectified by the Contractor in accordance with the applicable Design Documentation.
       2. Tasks to be performed by the Consultant include:
          1. identification of Defects and preparation of Defects lists;
          2. assisting the Contractor and Contract Administrator in the identification of methods for rectification of Defects;
          3. undertaking periodic Site inspections (as a minimum on a [***INSERT*** eg monthly] basis) to verify and sign-off individual items noted on the Defects list; and
          4. provide final sign-off at the expiration of the Defects Liability Period that confirms all outstanding matters have been resolved by the Contractor to the satisfaction of the Consultant.
  2. Post Occupancy Evaluation
     + 1. Under the management of the Contract Administrator, the Consultant must participate in a Post Occupancy Evaluation (**POE**) of the constructed facilities at an agreed period following occupation and provide any input required into the POE report prepared by the Contract Administrator.
       2. The POE is to review the functions and suitability (i.e. fitness-for-purpose) in terms of this Brief and is to make comments on:
          1. assessment of current operations;
          2. the extent to which Project objectives have been met; and
          3. the requirements to be considered for future projects.
       3. Without limiting clause 15.5 of the Conditions of Contract, the Consultant must assist the Contract Administrator during activities associated with the POE. Such assistance is to include:
          1. providing copies of drawings, schedules, specifications, cost plans and other documents as directed by Contract Administrator;
          2. attending one POE meeting on site as requested by the Contract Administrator or the Commonwealth and as required to fulfil the Consultant’s obligations under the Contract; and
          3. promptly responding to queries and Requests for Information as required by the Contract Administrator.
  3. Involvement by EMOS Contractor in the Services

The Consultant must consult with the EMOS Contractor in carrying out the Services to ensure appropriate input in relation to system and equipment specification for long-term maintenance.

1. Communication and Consultation
   1. Meetings

Without limiting clause 4.7 of the Conditions of Contract, the Consultant must attend all meetings as required by the Contract Administrator which, as a minimum, include the following:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

* + - 1. ProjectGovernance Board meetings – Planning Phase and Delivery Phase:
         1. convened [***INSERT RELEVANT FREQUENCY, EG “*quarterly”**];
         2. chaired by SEG-CFI and organised and minuted by the Contract Administrator;
         3. focus to be key project issues, progress and performance; and
         4. to be in [***INSERT LOCATION***].
      2. Project Control Group meetings – Planning Phase and Delivery Phase:
         1. convened [***INSERT RELEVANT FREQUENCY, EG “*monthly”**];
         2. chaired, organised and minuted by the Contract Administrator;
         3. focus to be issues, progress and performance; and
         4. to be in [***INSERT LOCATION***].
      3. Monthly Project meetings – Planning Phase and Delivery Phase:
         1. chaired, organised and minuted by the Contract Administrator;
         2. focus must be key Project issues; and
         3. to be in **[*INSERT LOCATION***].
      4. Stakeholder meetings – Planning Phase and Delivery Phase:
         1. convened as required throughout the Project;
         2. chaired, organised and minuted by the Consultant;
         3. focus must be on seeking the requirements and feedback from applicable Stakeholder; and
         4. generally, to be at the location of the relevant Stakeholder or sponsor (as applicable).
      5. Design Management meetings – Planning Phase and (as required) Delivery Phase:
         1. convened [***INSERT APPROPRIATE PERIOD*** eg fortnightly] throughout the design development for the Works;
         2. chaired by the Consultant and organised and minuted by the Consultant;
         3. separate meetings requiring Stakeholder input must be held as required;
         4. focus must be on key issues, program and progress, and on interface with Stakeholder groups; and
         5. to be at a venue to be confirmed by the Consultant and agreed with the Contract Administrator.

Unless otherwise agreed upon, the party chairing the meetings must prepare and circulate a prior agenda. Each meeting minute must include a succinct action list which must be issued within one week of the meeting.

* 1. Workshops

The Consultant must participate in all relevant workshops including:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

* + - 1. start-up workshops;
      2. consultation workshops to address and assist design development (which may include, amongst other issues, user workflow development);
      3. Design Milestone reviews;
      4. value management workshops, as arranged and facilitated by the Contract Administrator, to cover the following:
         1. a value management workshop will be held in respect of each Design Milestone in the Planning Phase; and
         2. a purpose of the value management workshops is to establish or confirm important requirements and identify suitable options within resource constraints;
      5. risk management workshops, as facilitated by the Contract Administrator, to cover the following:
         1. a risk management workshop will be held in respect of each Design Milestone in the Planning Phase; and
         2. a purpose of the risk management workshops is to identify proactive risk management measures to be adopted including so that relevant outcomes can be adopted by the Consultant in the Design Documentation;
      6. SiD workshops;
      7. HAZOP workshops;
      8. Stakeholder workshops convened to resolve particular issues;
      9. construction phase workshops convened to resolve particular issues;
      10. commissioning phase workshops convened to assist commissioning planning and/or to resolve particular issues;
      11. lessons learned workshops;
      12. post occupancy evaluation workshop;
      13. protective security working group (or equivalent) workshops;
      14. integrated project management team workshops (if applicable);
      15. security design reviews (if applicable); and
      16. Security Accreditation Workshops (if applicable).
  1. Stakeholder Consultation
     + 1. In carrying out the Services, the Consultant must consult with all relevant Stakeholders, subject to the following:
          1. generally, consultation and communication with Stakeholders must be facilitated through the Contract Administrator;
          2. in order to facilitate timely and relevant design progress, the Consultant may at times need to communicate directly with Stakeholders which it may do subject to the prior approval of the Contract Administrator. Where this is required, the Consultant must keep the Contract Administrator informed of all communication.
       2. There are number of the specific stakeholder groups that must be consulted by the Consultant for the purposes of design progression, design review, design presentations, risk workshops and value management workshops. Stakeholder groups associated with the Project include:
          1. *[****INSERT DESCRIPTIONS OF USER CONSULTATION SPONSORS – ADD ADDITIONAL LINE ITEMS AS REQUIRED****];*
          2. *[****INSERT DESCRIPTIONS OF PROJECT SPONSORS – ADD ADDITIONAL LINE ITEMS AS REQUIRED****];*
          3. *[****INSERT DESCRIPTIONS OF OTHER STAKEHOLDERS – ADD ADDITIONAL LINE ITEMS AS REQUIRED****];*
          4. Such additional stakeholders as may be subsequently identified by the Consultant, the Commonwealth or the Contract Administrator*.*
       3. The purpose of Stakeholder consultations is to develop the design options, technical issues, and construction of the Works (where applicable) against the ESD and WOL Plan, functionality, Quality Objectives, and time and cost targets. At each Design Milestone, the Consultant must consult with all required Stakeholders to inform the development of the design.
       4. The outcomes of the Stakeholder consultations will allow the development of the user requirements. The Consultant must review the user requirements and hold Stakeholder consultations to ensure those requirements are being met by any proposed design solution. Consultation will also be required as a part of the design review process.
  2. Authority Consultation
     + 1. Without limiting clause 2.10 of the Conditions of Contract, the Consultant must:
          1. determine those statutory and non-statutory authorities that need to be consulted, programmed and monitored, and the requirements of these authorities which must be incorporated into the design; and
          2. prepare a list of authorities the Consultant will consult with; and
          3. program and monitor all consultation with authorities and all authority approval processes.
       2. Any requirements identified by authorities must be submitted by the Consultant to the Contract Administrator for approval prior to incorporation into the design.
  3. Start-Up Activities
     + 1. The Consultant must attend a start-up workshop with the Contract Administrator in [*I****NSERT LOCATION***].
       2. The start-up workshop may cover among other things:
          1. an overview of existing, affected and other related facilities at the Site or elsewhere as relevant; and
          2. an overview of the purposes and requirements for the Works.
  4. Communication format/identification nomenclature
     + 1. The Consultant acknowledges that there are different avenues under the Contract where information requests may be sought, including (by way of examples only and without limiting its other obligations under the Contract):
          1. clause 3.2 of the Conditions of Contract, where the Consultant may request certain additional information;
          2. clause 6.11 of the Conditions of Contract, where either party or the Contract Administrator may identify an ambiguity, discrepancy or inconsistency for resolution; and
          3. section 4.25, where the Consultant may be required to promptly respond to tender queries and ‘requests for information’ as may be required by the Contract Administrator in relation to the procurement of the Contractor.
       2. *[****INSERT DESCRIPTIONS OF COMMUNICATION FORMAT, IDENTIFICATION NOMENCLATURE ETC TO APPLY FOR THIS CONTRACT. IN DEVELOPING THIS PARAGRAPH (b) IT SHOULD BE NOTED THAT THERE ARE CERTAIN PRO FORMA NOTICES ON THE DEFENCE WEBSITE, INCLUDING IN RELATION TO CLAUSE 6.11 OF THE CONDITIONS OF CONTRACT.]***

1. SITE REQUIREMENTS
   1. Site Control and Base Requirements
      * 1. The Consultant is responsible for all Consultant and subconsultant personnel who have been granted access to the Site and ensure that its personnel involved in the Services only access nominated work areas. Any unauthorised access to the work areas must be reported to the Contract Administrator within [***INSERT APPLICABLE PERIOD*** **eg “24 hours”**]. The Consultant must respond to any issues relating to the behaviour of Consultant personnel to the satisfaction of the Contract Administrator.
        2. Without limiting clause 3.3 of the Conditions of Contract, access to the Site must be through the gate nominated by the Contract Administrator.
        3. [***INSERT ADDITIONAL PARAGRAPHS TO REFLECT PROJECT/BASE SPECIFIC REQUIREMENTS EG SITE PASSES, DCACs, ESCORTING, ANY SECURE AREAS, BRIEFINGS ETC***]
   2. Control of Consultant’s Vehicles
      * 1. The Consultant must ensure that only vehicles required for the transporting to or from the Site of the Consultant’s personnel, materials, equipment and tools during access hours may have access to the Site. Such vehicles must be removed from the Site immediately after the activity has been completed.
        2. Vehicles will not be permitted entry outside access hours unless prior arrangements have been made and agreed to by the Contract Administrator.
        3. Permission for vehicles to enter or remain at the Site may be withdrawn at the discretion of the Contract Administrator.
        4. The Consultant must ensure that none of its motor vehicles leaves the Site laden with any material unless it is loaded in a manner that will prevent the discharge or dropping of any of the material.
   3. Prohibited Items
      * 1. The Consultant must ensure that none of the following items are brought onto the Site by any of its personnel or subconsultants unless prior written approval is given by the Contract Administrator for their use:
           1. drones;
           2. video recorders;
           3. firearms, explosives and ammunition;
           4. cameras;
           5. tape recorders;
           6. two-way radios;
           7. telescopes;
           8. binoculars;
           9. radio transmitters;
           10. mobile phones with the intent to be used for paragraph (ii), (iv) or (v) capabilities; and
           11. dogs and other animals (including support animals).
   4. Smoking
      * 1. Defence buildings are smoke free environments and smoking is not permitted inside any building or in hazardous areas. This includes electronic cigarettes and other vaping products.
2. Design AND DESIGN DOCUMENTATION Requirements
   1. Standards of Design Documentation
      * 1. Design Documentation as outlined in section 4.12 as part of the FDR must be 100% complete so that detailing is not left for trade subcontractors to resolve.
        2. The required standard of Design Documentation is documentation that is “complete”, “clear”, “unambiguous” and “coordinated”, including in respect of the relevant requirements set out below.
           1. **Complete** includes the requirement that the full scope of work is defined, that all dimensions required for construction are shown on the drawings, and that sufficiently detailed drawings and specifications have been provided to permit construction with no further design or on-site confirmation being required (including an absolute minimum of shop drawings, off-the-shelf or proprietary items).
           2. **Clear** includes the requirement that the documents are easy for a tradesperson to interpret, without explanation and without the need to search for the location of information because of lack of cross referencing. The documentation must include cross referencing between drawings, specifications and schedules and cross reference between disciplines. Dimensioning must not only to be shown only on a plan, but must be shown on all plans, elevations, sections and details.
           3. **Unambiguous** includes the requirement that the documents do not have any ambiguity, discrepancy or inconsistency that may trigger clause 6.11 of the Conditions of Contract including that there is no conflicting information, that the materials to be used and detailing is capable of only one interpretation and that dimensions on one drawing are not in conflict with dimensions on another.
           4. **Coordinated and Integrated** includes that the requirements of one discipline has been identified and included in the documentation of other disciplines so that no conflict occurs. It includes the requirement that one type of document (eg drawings) does not conflict with another (eg specification).
        3. Design Documentation must comply with the following (as a minimum):
           1. comprehensive definition of scope in drawings, specifications and schedules;
           2. detailed and consistent comprehensive use of dimensions on all plans, sections, elevations and details;
           3. cross referencing of drawings, specifications and schedules including referencing of other disciplines’ documents;
           4. comprehensive reference to standards, codes and technical publications in documents;
           5. documentation of sections, elevations and details to adequately describe the full scope of the Works;
           6. accurate, clear and concise text notations, details and sections on drawings to assist interpretation of drawings;
           7. use of exploded views, erection sequence diagrams, isometric views, insets, assembly diagrams as necessary to convey complex details; and
           8. all amendments must be clouded on drawings and highlighted in schedules and specifications and cross-referenced to the notes in the amendments column.
   2. Standards and Format of Design Reports
      * 1. For each Design Report, the following requirements (as a minimum) must be reflected:
           1. the Design Report must document the design and design process leading up to the relevant Design Milestone;
           2. the Design Report must meet all Defence design report standards (including as defined in the MIEE, Building Works Manual and the Mechanical Engineering Standard Functional Design Brief Inclusions for Heating Ventilation and Air Conditioning Systems (**Mechanical Standard Inclusions**)) as available on the [Defence](file:///C:\Users\mpywell\AppData\Roaming\iManage\Users\anthea.tamayo\AppData\Local\Microsoft\anthea.tamayo\AppData\Local\Microsoft\Windows\AppData\Local\Microsoft\Windows\Users\anthea.tamayo\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\O4AQZHX3\Defence) Website under Engineering and Maintenance;
           3. the Design Report must be a stand-alone document. It must contain all relevant Design Documentation and information without the need to refer or cross reference to other information;
           4. the Design Report must be structured to reflect the requirements of the relevant Stakeholders reviewing the document;
           5. the Design Report must be collated in a way that is logical, clear and concise. It must use tabulated data and illustrations where appropriate;
           6. a transmittal advice listing the documents provided as part of, or in addition to, a Design Report must accompany the submission; and
           7. a brief statement outlining any changes (as against the previous Design Milestone) introduced to the documents must accompany the Design Report.
        2. In addition to the requirements in paragraph (a), each Design Report must (unless agreed by the Contract Administrator) address the following (without limitation):
           1. background to the design and Design Milestone;
           2. location, siting and adherence to zone and precinct plans (where applicable to the Site);
           3. how the design meets the purposes, design criteria and other requirements in the Contract;
           4. design intent, philosophies and methodologies;
           5. summary of options considered, major design issues, background to the evaluation of options and solutions;
           6. illustrations of preferred scheme with floor plans, elevations and sections;
           7. assessment of methods and material for construction;
           8. compatibility of the architectural and urban design (if applicable) with the existing development on the Site and achievement of the requirements of this Brief;
           9. details on how the requirements of the Conditions of Contract, the Special Conditions and this Brief are achieved;
           10. outcomes of risk management and value management workshops and how they have been incorporated into the Design Documentation;
           11. physical security design approach (if applicable) to achieving the required level of physical security for the Works;
           12. description of how the engineering design satisfies the requirements of this Brief, including relevant Australian Standards, Statutory Requirements and the existing Site infrastructure conditions and requirements;
           13. how the design of the Works incorporates ESD Principles and WOL Objectives;
           14. a record of the risks identified by the Consultant from its review of the Asbestos Management Plan and Defence Asbestos Register along with details of how the design of the Works addresses those risks;
           15. environmental and heritage issues and considerations (including social issues, drainage, clearing and erosion control);
           16. summary of WOL cost analysis undertaken;
           17. design information to support the determination of current and future POC. This includes facilities operating costs, utilities costs, ICT and other garrison support costs;
           18. if applicable, future expansion options considered in the design and relevant services strategies required to achieve these options;
           19. approach to fire engineering and how the design satisfies applicable Defence codes such as the Building Works Manual, MFPE, relevant Australian Standards and other Statutory Requirements;
           20. the requirements for electrical systems included in the MIEE;
           21. the requirements for mechanical systems in the Mechanical Standard Inclusions;
           22. identification of all Statutory Requirements and relevant Australian Standards adopted together with clear indication of the extent and field of application;
           23. the adequacy of technical systems and materials selected for the design with respect to cost effectiveness and fitness for purpose;
           24. details of SiD workshops with relevant Stakeholders, including meeting minutes and demonstration of how the SiD outcomes have been incorporated into the design;
           25. details of proposed dispensations including completed dispensation applications;
           26. outcome and evidence of Stakeholder discussions including planning approvals, local fire, utilities, and communications external providers. Identification of any operational procedures required to be implemented by future users as a result of the design;
           27. a record of all Stakeholder comments (if any) along with the proposed response;
           28. description of initiatives/practices to be used to ensure the required construction process does not exceed the capacity and abilities of the local construction industry;
           29. design verification documentation, demonstrating evidence of independent, internal peer review;
           30. details of the standards adopted and how the standards were satisfied; and
           31. such other information as required by the Contract Administrator.
   3. Drawing Standards Format and Symbols
      * 1. Without limiting clauses 2.2 and 16.13 of the Conditions of Contract, all drawings that the Consultant is required to provide under the Contract must be prepared by competent draftspersons in accordance with:
           1. clause 7.5 of the Conditions of Contract;
           2. all Defence drawings standards (including as defined in the MIEE, Building Works Manual and Mechanical Standard Inclusions); and
           3. the requirements of the SEG Regional Information/Data Manager including any GEMS labelling.
        2. Project-specific drawing protocols must be established and comply with the following requirements:
           1. each design discipline must have a similarly formatted title sheet (a separate, collated and integrated list of drawings is required – do not show on title sheets) and each title sheet must be followed by a legend sheet which must be similar across disciplines;
           2. all title blocks must be coordinated and must all be one of vertical or horizontal;
           3. title blocks must identically list SEG-CFI, the Contract Administrator, the Consultant and the design subconsultant who produced the drawing. Design subconsultant’s logos must only be on the drawings prepared by the respective subconsultant;
           4. all disciplines must use the same maximum size of drawing sheet (for example, civil and site works will not be acceptable on drawings larger than those adopted by the other disciplines);
           5. A0 size drawings must not be used;
           6. all drawings must be landscape format (not portrait format);
           7. all drawings must have the same orientation (e.g. north at left hand side of the sheet);
           8. a consistent ‘plan north’ must be adopted for all drawings so that there is consistency in terminology;
           9. all design disciplines must use the same zone layout and reference terminology;
           10. common symbols must be adopted across disciplines (e.g. architectural and electrical drawings show the same symbols for ‘General Purpose Outlets’);
           11. common terminology must be adopted across disciplines;
           12. common drawing numbering systems must be adopted across disciplines as nominated by the Consultant;
           13. element codes must be described and scheduled on a full size drawing sheet (inclusion in specification only will not be acceptable);
           14. detail the scope of documentation required for constructability, and the Consultant must seek the approval of the Contract Administrator in relation to the documentation types and the numbering system adopted;
           15. room plans and elevations at 1:50 scale will be required for wet areas and for all specialist rooms;
           16. room plans and elevations must show services and fixtures on the other side of the walls so that any clashes can be readily understood at design and construction phases;
           17. the full scope of set out and dimensioning must be shown on:

architectural drawings for all building and structures;

civil drawings for all pavements, roads, footpaths and the like; and

landscape drawings for all landscape works;

* + - * 1. no set out or dimensioning is required on structural or services drawings unless required for the specific set out of engineering design elements (e.g. structural cleats, hydraulic valves, dimensions of distribution boards and control panels);
        2. grids must be shown on all drawings to facilitate understanding and communication in regard to location;
        3. the concrete edge / set down plans must indicate dimensioned set out from grid of hydraulic waste pipes cast or cored into the slab surface and include set out from grid of structural columns, slab edges and set downs;
        4. services drawings must be documented on the latest architectural layout/background; and
        5. civil plans must be at scale of 1:200 and must provide surface levels sufficient to build from without need for extrapolation or calculation by the construction Contractor (or their trade subcontractors) to determine set out.
  1. Specification Standards and Format
     + 1. To the extent that the Design Documentation contains specifications, those specifications must meet the requirements described in this section.
       2. All trade specifications must have the same format, including numbering protocols, headers and footers and fonts. Schedules must be formatted similarly and must be bound into the specifications, either immediately following the respective trade sections, or grouped at the rear of the relevant volume.
       3. The specification must be devised as a single document split up into several volumes. The specification must have an integrated overall contents list at the front of each volume followed by the contents list specific to that volume.
       4. All services specifications must fully list work by other trades, under sub-headings by trade. The specification sections for these other trades must cross-refer back to the lists of work, e.g. the mechanical trade section must list all work by the electrical trade and the electrical trade section must refer to the work listed for the mechanical trade (i.e. not simply ‘by other trades’).
  2. Distribution and Transmission

All document issues must be under cover of comprehensive document transmittals noting at a minimum the document names and numbers, revision, addressees, quantities and reason for the issue of the documents.

* 1. Formats (Hard and Soft)
     + 1. All Design Documentation must be submitted in accordance with clause 6.5 of the Conditions of Contract.

**[*AMEND THE FOLLOWING SECTIONS 7.7 TO 7.14 TO SUIT THE PROJECT REQUIREMENTS. THE FOLLOWING IS AN INDICATIVE GENERIC GUIDE THAT WILL NEED TO BE CRITICALLY REVIEWED/DEVELOPED/UPDATED TO REFLECT THE PROJECT REQUIREMENTS. IN ADDITION, THE LISTS BELOW SHOULD BE CHECKED BY THE CONTRACT ADMINISTRATOR AS TO WHICH DOCUMENTS ARE PUBLICLY AVAILABLE AND WHICH CANNOT BE PUBLICLY ACCESSED BY TENDERERS BIDDING FOR A DESIGN SERVICES CONTRACT.*]**

* 1. Standards and other requirements

The design of the Works must comply with all relevant Defence Requirements and, to the extent they are not inconsistent, all applicable Australian Standards and relevant overseas standards and codes including the following and others specified elsewhere in this Brief and any replacement, amendment or supplement to those standards, codes or requirements:

[***CHECK LIST BELOW FOR APPLICABILITY AND*** ***AMEND TO SUIT THE PROJECT REQUIREMENTS***]

* + - 1. national standards and regulations, including:
         1. NCC;
         2. All relevant industry guidelines;
         3. All relevant Australian Standards;
         4. Telstra;
         5. Work Health and Safety Authorities and WHS Legislation;
         6. Environmental Protection Agencies;
         7. Commonwealth Government Employment Code of Practice (Office and Amenities Guidelines);
         8. National Environmental Protection Council (NEPC) Standards; and
         9. The Australian Government Industry Guidelines for the National Code of Practice for the Construction Industry;
      2. Defence and Commonwealth green building requirements principles, including:
         1. Defence Environmental Strategy 2016 -2036;
         2. Defence Smart Infrastructure Handbook July 2019;
         3. Defence Building Energy Performance Manual (BEPM);
         4. DI(G) Admin 40-2 on Environment & Heritage Management in Defence;
         5. DI(G) Admin 40-3 on Assessment and approval of Defence actions under the Environment Protection and Biodiversity Conservation Act 1999 (Cth);
         6. Commonwealth Energy Policy – EEGO – Energy Efficiency in Government Operations;
         7. Considerations for incorporating Energy Efficiency into requirements for Australian Government owned and leased buildings – in particular, a detailed template of possible design & construction specifications;
         8. Energy Management Guide for Australian Government owned and leased buildings;
         9. Environmental Purchasing Guide;
         10. National Environmental Protection Council (NEPC) Standards;
         11. ESD Design Guide for Office and Public Buildings;
         12. Defence Environmental Management System;
         13. Defence Environment Policy;
         14. Defence Energy Management Strategy;
         15. Defence Sustainable Water Management Strategy;
         16. Defence Waste Materials Minimisation Policy
         17. Defence Safety Manual (Safetyman);
         18. Defence WHS Strategy (2017-2022);
         19. Defence Climate Adaption Strategy;
         20. Defence Heritage Strategy; and
         21. Defence Procurement Policy Manual and, in particular, Chapter 3.16: Environment in Procurement;
      3. Defence and Commonwealth infrastructure and related standards, including:
         1. Building Works Manual;
         2. Defence Manual of Infrastructure Airfield Pavements;
         3. MIEE;
         4. Accommodation Guidelines for Open Plan Office Environments;
         5. Commonwealth Public Service Scales and Standards;
         6. Department of Defence Scale of Services Accommodation;
         7. Safety Principles for the Handling of Explosive Ordnance (OPSMAN3);
         8. Electronic Defence Explosives Safety Manual (eDEOP-101);
         9. Manual of NATO Safety Principles for the Storage of Military Ammunition and Explosives;
         10. Army Hazardous Materials Manual;
         11. Defence Engineering Services Network Standards (DESN);
         12. Building Energy Performance Manual;
         13. Defence Construction Security Reference Manual;
         14. Electronic Airworthiness Design Requirements Manual;
         15. Energy Efficiency in Government Operations;
         16. Manual of Operating Standards;
         17. National Australian Built Environment Rating System;
         18. Procedures for Air Navigation Services - Aircraft Operations; and
         19. Department of Finance Resource Management Guide; and
      4. security manuals, including:
         1. Defence Security Principles Framework (DSPF);
         2. SCEC Security Equipment Evaluated Products List (SEEPL) 2019; and
         3. ASIO Technical Note 1-15 Physical Security Zones October 2016, and ASIO Technical Note 5-12 Physical security of Zone 5 Areas June 2013.
  1. General Design Criteria

The design of the Works must meet the following criteria in addition to those described elsewhere in the Contract:

[***AMEND LIST BELOW TO SUIT THE PROJECT REQUIREMENTS***]

* + - 1. achieves the purposes for the Works;
      2. complies with the Contract, including this Brief;
      3. complies with the relevant zone plan, precinct plan or equivalent;
      4. represents value for money;
      5. provides a development that successfully integrates the facilities within the existing environment while giving consideration to concurrent projects, the nature and role of each Site and establishing the theme for future facilities;
      6. accommodates future internal layout flexibility through minimum use of internal structural walls and columns;
      7. identifies areas for future expansion where identified by Stakeholders;
      8. services infrastructure and civil works takes into account all concurrent and planned projects;
      9. selection of plant must meet the following requirements:
         1. safety and reliability;
         2. maintainability and supportability;
         3. Site/Stage/Stakeholder specific performance requirements;
         4. system components are properly designed, sized and selected; and
         5. system designed and installed in full compliance with all relevant legislation, standards, codes and guidance that are appropriate and relevant to the type of system and equipment;
      10. all structural elements, finishes, fixtures, fittings, plant, equipment and services must be selected for maximum durability and future minimum maintenance.
  1. Architectural Design Criteria
     1. Building Character and Form

[***IF THERE ARE NO NEW FACILITIES AND ONLY REFURBISHMENT OF EXISTING FACILITIES THEN THIS SECTION 7.9.1 TO BE DELETED AND CLAUSES RENUMBERED ACCORDINGLY***]

Design of any new facilities must, as a minimum, address the following in respect to building character and form:

* + - 1. where there are several facilities across a site, all new built forms are to be designed to provide visual harmony across the Site;
      2. new facilities are to be sympathetic to the aesthetics of the existing area, with individual facilities complementing each other and being responsive to the natural environment;
      3. new facilities are to be of permanent construction, using materials and finishes of a durable and low maintenance nature;
      4. external materials and colours are to be appropriate to the Site and region, as well as ensuring minimum embodied energy and low pollution output in production;
      5. colour and materials are to provide an appropriate response to the climate and microclimate;
      6. the overall design philosophies are to provide low maintenance, cost-effective and functional environments that meet ESD Principles and are directly related to the activities carried out;
      7. the material philosophy is to reduce the consumption and maximise the reuse and recycling of materials. Materials must be fit for purpose, have a cradle-to-grave low pollutant output, require low energy input in their fabrication and have considered the energy required for their transportation to the Site;
      8. finishes must be selected with regard to replaceability and maintainability, that is, readily available locally, able to be matched at a later date and to be serviceable for their application;
      9. facilities are to incorporate all economies possible with due regard to floor area and construction, whilst retaining the necessary functional requirements and work flow patterns;
      10. Site space to be allowed for flexibility and further expansion and buffer zones to reduce noise interference; and
      11. the design is to consider the local climatic conditions of the Site.
    1. Value for Money
       1. The design of the Works must:
          1. represent value for money and be able to pass the test of public scrutiny. Extravagant and wasteful design of all or any part must not be entertained; and
          2. offer good economy in relation to floor area, construction techniques, buildability, re-use of existing infrastructure and finishes while achieving the necessary functional requirements, workflow patterns and work environment required to fulfil the function of the space so designed.
       2. As a principle, designs should focus on the functional requirements of the Works and not on architectural form which should be kept simple.
    2. Defence ESD Essential Requirements

***[AMEND THE FOLLOWING SECTION 7.9.3 TO SUIT THE PROJECT REQUIREMENTS. THE FOLLOWING IS AN INDICATIVE GUIDE ONLY THAT WILL NEED TO BE CRITICALLY REVIEWED/UPDATED TO REFLECT THE PROJECT REQUIREMENTS]***

Energy

* + - 1. All energy sources supplying the building (e.g. electricity, gas) must be electronically metered and linked to the BMS according to the requirements of the NCC, BPM, MIEE and the Defence Sub-metering Program.
      2. Sub-metering must be provided in accordance with Statutory Requirements.

Water

* + - 1. All taps, toilets and showers must have a minimum AAA rating or equivalent star rating.
      2. Appliances such as dishwashers must meet the minimum water efficiency rating of AAA rating or equivalent star rating.
      3. All water sources supplying the building (e.g. potable supply, rainwater) must be electronically metered and linked to the BMS according to the requirements of the NCC, BPM, MIEE and the Defence Sub-metering Program.
      4. Sub-metering must be provided for any significant water use connected to the building (e.g. vehicle washing). Such sub-meters must be connected to a control and monitoring system which will be configured to enable a monitoring of water use and to trigger an alarm if changes in water consumption trends indicate a potential water leak.

Materials and Waste

* + - 1. All refrigerants must have an ODP of zero.
      2. All insulation used in building fabric and services must have an ODP of zero.
      3. All timber must be sourced from either post-consumer reused timber or from plantations complying with the Australian Forestry Standard.
      4. All internal paints must be low Volatile Organic Compound (VOC) (refer to Green Star Technical Manual for VOC levels in g/litre).
      5. No Poly Vinyl Chloride (**PVC**) products are to be used in floor coverings.
    1. Access for Disabled
       1. The design must be in accordance with the Building Code of Australia and Australian Standard AS1428.
       2. The Consultant must:
          1. be aware of, apply and keep up to date with disability design principles; and
          2. keep staff educated of those principles and ensure deliverables represent sensible and user-friendly responses for all disabled users of the buildings and the Site.
    2. WOL Costs
       1. Throughout the design process, the Consultant must consider the implications and estimates of costs, for designs, materials, construction techniques, finishes, equipment and energy systems, which will develop economies on a life cycle costing basis.
       2. In selection of services and associated equipment, the capital / installation cost is to be balanced against operational and maintenance costs. Operating costs and comparisons are to be included in the life cycle costing analysis and guidance can be found in AS3595 ‘Energy Management Programs – Guidelines for Financial Evaluation of a Project’.
       3. Consideration must be given to energy efficient design solutions employing passive solar energy utilisation.
       4. **[*CONSIDER REFINING THIS PARAGRAPH BY INCLUDING SPECIFIC DESIGN LIFE REQUIREMENTS IF APPROPRIATE FOR THE PROJECT***] The design life of all new building facilities and major refurbishments will vary depending on the type of asset, location and function. Consideration must be given to providing a different life for:
          1. building structure;
          2. building fit out;
          3. plant and equipment;
          4. roads and pavements; and
          5. external plant materials and surfaces.
       5. Finishes, fixtures, fittings, plant, equipment and services are to be selected for maximum durability and minimum maintenance. Downtime for building maintenance is to be minimised by appropriate design features.
    3. External Environment
       1. The Consultant must ensure that the design of all external works forming the Works must be cognisant of, and responsive to, the wider environmental, social and historic issues relating to the Site and its context. The design approach and philosophy to be adopted for the external works proposed must be specific to the place and the region, and clearly shown and documented as part of the design process.
       2. The choice of indigenous or exotic vegetation must be determined and justified for the Site, reflecting the best plant for the purpose, once all contributing factors are considered. Endemic (locally native) plants must be used wherever possible in broad scale areas, to encourage native fauna and insect life, except where there are functional requirements to the contrary. Plants likely to become invasive must not be selected.
       3. The choice of external materials must reflect the nature of the place, its historical context and the palette of materials and colours of the surrounding natural environment.
       4. Colours of the materials proposed for use in the external environment must be in harmony with the surrounding natural environment, and not responding to current fashion, except as accents associated with particular facilities.
       5. Attention must be given to the heat absorption and reflection characteristics, of hard surfaces and the implications for the microclimate and adjacent building energy efficiency.
       6. Stormwater Drainage: Defence has adopted a ‘good neighbour’ policy in relation to environmental and social issues, so it is important that new developments do not significantly increase the flow rates of stormwater discharge from the Base into neighbouring properties. Consideration must be given to any augmentation necessary to the stormwater drainage system required to prevent increases in the current stormwater discharge flow rates.
       7. Indoor Air Quality: The Consultant must test the on-Site ambient air quality prior to commencing design of the Works. Ventilation systems must be provided in areas where indoor air quality may be adversely affected including areas adjacent to aircraft operations, motor vehicles, power generators, boilers, incinerators, cooling towers, industrial processes (such as plating, spray-painting, corrosion control application and abrasive blasting), volatile fuels and solvents, jet engine testing facilities, asphalt, concrete plants, wastewater treatments facilities, battery rooms and laundries.
       8. Water Quality: In a similar manner to the requirements to prevent any increase in stormwater discharge flow rates off the Site, the quality of stormwater and other effluent leaving the Site must also be compliant with Statutory Requirements.
    4. Water Conservation Requirements

The design principle for water conservation is minimal use of pipes for stormwater with ground water recharge from roof and surface run-off. The disbursement of stormwater into plant beds and grass areas through elimination of kerb and gutter will greatly assist in implementation of this principle. The adoption of this principle must be considered after determining the capacity of the sub soil to absorb the runoff.

* + 1. Commissioning

The Consultant must specify the commissioning tests to be performed in the commissioning and handover of the Works.

* 1. Engineering Services Design Criteria
     1. General Requirements
        1. The design of all engineering services must be certified to satisfy all relevant codes, standards and Defence Requirements. The design must comply with the guidance on engineering services found on the Defence Website.
        2. The existing engineering services must be extended from the closest logical connection point (agreed by the relevant Defence agency) into the proposed facilities.
        3. A review of existing engineering services supply must be undertaken prior to design commencement.
        4. Where services are to pass under existing roads these are to be bored if possible.
        5. Local SEG personnel and EMOS Contractor personnel should be directly involved in handover, commissioning and training.
        6. The Works must be provided with separate metering for gas, water and electricity with isolation points adjacent to the building.
        7. Any fixed plant or equipment leased or purchased associated with the construction or refurbishment must comply with all applicable WHS Legislation.
     2. Underground and Overhead Services
        1. All facilities must have underground supply of power and communications cabling.
        2. The connection to, and adequacy of, existing services required for the Works must be addressed during design.
        3. The placement of underground services must be in dedicated services easements, usually within road verges. Verges must be wide enough to allow for tree planting as well as underground services. Specific attention is drawn to all existing services and services easements which may exist on Site.
     3. Design Performance Criteria
        1. The design of the engineering Services must comply with the following minimum design performance criteria:
           1. provide comfortable, safe reliable and appropriate environmental conditions to all areas of the facilities;
           2. meet the building design and functional requirements;
           3. properly designed to achieve the environmental control requirements and operational control requirements of the specific equipment, materials, processes and functions in the facilities;
           4. appropriately sized to allow for the full and proper functioning of all equipment, plant and fittings;
           5. sized with capacity for expansion;
           6. routed in an organised and systematic manner and be accessible for as much of their run as possible;
           7. provided with junctions, nodes and valves as necessary to allow flexibility and versatility and to allow isolated shutdowns as required for maintenance and extensions;
           8. capable of being connected into existing services and systems on the barracks; and labelled and colour coded for ease of identification.
        2. In addition to the above requirements, the building design must include ceiling space zones to satisfy the following requirements:
           1. provide a horizontal zone above the ceiling level dedicated for lighting;
           2. clear of any intrusions from building elements, structural components or other services; and
           3. provide a horizontal zone directly above the lighting zone dedicated for data and voice cable tray and clear of any intrusions from building elements, structural components or other services.
     4. Plant Rooms and Access

[***INSERT***]

* + 1. Energy Management Systems

[***INSERT***]

* + 1. Structural Design

The structural design of the new Works [***THIS SECTION TO BE DELETED OR RECAST IF THERE ARE NO NEW FACILITIES AND THE WORKS ONLY COMPRISE REFURBISHED FACILITIES***] must comply with the following minimum design performance criteria:

* + - 1. all structural design, documentation and construction supervision must be carried out by an engineer qualified for corporate membership of the Institution of Engineers Australia and National Professional Engineers Register 3 (NPER3) registered with qualifications to undertake the work required and be compatible with the design intent of inter-related disciplines. In addition, if the Works occur in a State or Territory that requires specific accreditation, then this must be provided (i.e. Registered Practitioner of Engineering Queensland);
      2. all structural design data and criteria must include details appropriate to the loadings, capacities, strength of materials, deflection limits, site classification, durability and the like;
      3. an appropriately qualified geotechnical engineer must carry out the site classification. Foundation design recommendations for the Site must relate to AS 2870 (including supplement);
      4. the structured design must be in accordance with all relevant standards of Standards Australia, the National Construction Code and building regulations. The design must not only have sufficient strength to resist the statutory loads but must also be serviceable with respect to short term and long term deflections, vibrations and durability in accordance with industry best practice;
      5. the provisions of the Worksafe National Standard for Occupational noise (NOHSC:1007 (2000));
      6. the designed structure must be able to support the loads of installed equipment or portable equipment expected to be located in the Works, including roof-mounted equipment (such as aerials and satellite dishes), plant items as well as the dead, live, wind and earthquake loads; and
      7. special attention must be given to the design details, construction methods, and workmanship to ensure weather tightness, with special emphasis placed on the serviceability of joint seals and membranes under the design exposure conditions.
    1. Serviceability Requirements

[***INSERT***]

* + 1. Mechanical Services

[***INSERT***]

* + 1. Electrical Services

[***INSERT***]

* + 1. Fire Detection and Protection

[***INSERT***]

* + 1. Communications

[***INSERT***]

* + 1. Hydraulic Services

[***INSERT***]

* + 1. Security

[***INSERT***]

* + 1. Building Management System

[***INSERT***]

* 1. Civil Works Design Criteria
     1. Site Works

[***INSERT***]

* + 1. Hardstand Design

[***INSERT***]

* + 1. Pedestrian and Vehicular Movement

[***INSERT***]

* + 1. Roads and Carparks

[***INSERT***]

* + 1. Pedestrian and Cycle Routes

[***INSERT***]

* + 1. Road Design Criteria

[***INSERT***]

* + 1. Traffic Signage

[***INSERT***]

* + 1. Stormwater Management

[***INSERT***]

* + 1. Sewer

[***INSERT***]

* 1. Dangerous Goods Design Criteria

[**THE LIST BELOW IS STILL TO BE CHECKED AS TO WHICH DOCUMENTS ARE PUBLICLY AVAILABLE AND WHICH CANNOT BE PUBLICLY ACCESSED BY TENDERERS BIDDING FOR A DSC CONTRACT**.]

Any storage and handling of dangerous goods must comply with the following:

* + - 1. AS 1940:2004 The storage and handling of flammable and combustible liquids;
      2. AS 3780:2008 The storage and handling of corrosive substances;
      3. AS/NZS 3833:2007 The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers;
      4. AS/NZS 4681:2000 The storage and handling of Class 9 (miscellaneous) dangerous goods and articles;
      5. Environment Protection and Biodiversity Conservation Act 1999;
      6. State legislation in Dangerous Goods and Environmental Protection.
      7. NCC;
      8. National Standard - Storage and Handling of Dangerous Goods NOHSC1015-2001;
      9. National Code of Practice - Storage and Handling of Workplace Dangerous Goods NOHSC: 2017-2001;
      10. related guidance in the Australian Institute of Petroleum Codes of Practice;
      11. DEF(AUST) 5695B - Minimum Standards of Practice for the Storage, Handling and Quality Control of Fuels, Lubricants and Allied Products;
      12. www.defence.gov.au/estatemanagement – Environmental Guidance;
      13. Defence Safety Manuals (SAFETYMAN);
      14. applicable Australian Standards (unless otherwise specified in the NCC); and
      15. www.defence.gov.au/estatemanagement - The installation of Emergency Shower and Eyewash stations at Defence establishments.
  1. External Works Design Criteria

Street Lighting

[***INSERT***]

Fencing

[***INSERT***]

Bollards

[***INSERT***]

Plant Enclosures

[***INSERT***]

Irrigation

[***INSERT***]

Landscaping

[***INSERT***]

* 1. Signage Design Criteria

[***INSERT***]

1. THE WORKS

[*THIS APPENDIX 1 NEEDS TO BE CAREFULLY COMPLETED AS THE QUALITY OF THE CONTENT VERY MUCH IMPACTS ON THE ROBUSTNESS OF THE DESIGN SERVICES CONTRACT ITSELF. APPENDIX 1 SHOULD INCLUDE*:

* *A CLEAR DESCRIPTION OF EACH OF THE PARTS OF THE WORKS; AND*
* *A DESCRIPTION OF THE PURPOSES OF EACH OF THE WORKS (NOTING ALSO THE APPLICATION OF CLAUSE 2.2(b)). IN THIS REGARD, THE CONTRACT ADMINISTRATOR SHOULD APPROPRIATELY REFLECT WITHIN THIS APPENDIX ALL APPLICABLE PURPOSES, INCLUDING AS APPROPRIATE THE USER REQUIREMENTS FROM THE ‘SPONSOR’S FUNCTIONAL REQUIREMENTS BRIEF’ WHICH WOULD HAVE BEEN DEVELOPED BY THE CONTRACT ADMINISTRATOR AS PART OF ITS PMCA SERVICES.*]