Part D01 Design and Construct Preliminaries

Unless specified below, all works must be undertaken in accordance with Master Specification Part D01 Design and Construct Preliminaries, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | DEFINITIONS AND INTERPRETATION |  |
| 3. | PRECEDENCE OF DOCUMENTS |  |
| 4. | INTERPRETATION OF STANDARDS, GUIDELINES AND CODES |  |
| 5. | CONTRACTOR’S TECHNICAL SPECIFICATION | *Outline requirements for Contractor’s Technical Specification* |
| 6. | PROPERTY ACQUISITION |  |
| 7. | IMPLEMENTATION RECORDS |  |
| 8. | INFORMATION MANAGEMENT SYSTEM |  |

Part D10 Design General

Unless specified below, all works must be undertaken in accordance with Master Specification Part D10 Design General, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | DESIGN MANAGEMENT PLAN |  |
| 3. | DIGITAL ENGINEERING EXECUTION PLAN |  |
| 4. | DESIGN PROGRAM AND WORK BREAKDOWN STRUCTURE | *Outline the minimum requirements for design program including provision of design documents*  *Outline the minimum requirements for the elements that must be included in the WBS of the project* |
| 5. | DESIGN COORDINATION | *Outline the requirements and timings of design stage reviews* |
| 6. | DEVELOPMENT OF THE DESIGN AND DESIGN DOCUMENTS |  |
| 7. | DESIGN VERIFICATION AND VALIDATION |  |
| 8. | DOCUMENT CONTROL | *Outline if Clauses 8.4 and 8.5 (Document Controller) apply*  *E.g.* “The Contractor must engage a lead document controller in accordance with clause D8.5” |
| 9. | THE DESIGN DOCUMENTS |  |
| 10. | DIGITAL ENGINEERING |  |
| 11. | PROVISION OF THE DESIGN DOCUMENTS TO THE PRINCIPAL | *Outline any project specific timelines when particular Design Documents must be forwarded from the Contractor to the Principal.*  ***Complete Table 10.A below specifying the provision requirements for design documents. Outline any additional document requires over and above Clause 11.1 (c)*** |
| 12. | TRAFFIC CONTROL DRAWINGS |  |
| 13. | INSPECTION AND CERTIFICATION | *Ensure D10.C is provided as below* |
| 14. | HOLD POINTS |  |

Part D12 Independent Design Verification

Unless specified below, all works must be undertaken in accordance with Master Specification Part D12 Independent Design Verification, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | IMPARTIALITY OF THE INDEPENDENT DESIGN VERIFIER |  |
| 3. | SELECTION AND ENGAGEMENT OF THE INDEPENDENT DESIGN VERIFIER |  |
| 4. | DESIGN VERIFICATION PLAN |  |
| 5. | OBLIGATIONS OF THE INDEPENDENT DESIGN VERIFIER |  |
| 6. | CORRESPONDENCE WITH THE INDEPENDENT DESIGN VERIFIER |  |
| 7. | INDEPENDENT VERIFICATION PROCESS | *Show process to ensure compliance with legislated responsibilities such as Disability Standards for Accessible Public Transport 2002 and Disability (Access to Premises – Buildings) Standards 2010*  *Outline any critical elements for which the Independent Design Verifier must undertake an independent analysis without reference to the Contractor’s original calculations* |
| 8. | HOLD POINTS |  |

Part D13 Road Safety Audit

Unless specified below, all works must be undertaken in accordance with Master Specification Part D13 Road Safety Audit, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | ROAD SAFETY AUDITORS | *Outline any requirements for minimum numbers of personnel on the auditing team.* |
| 3. | TIMING OF ROAD SAFETY AUDITS | *Specify the stages for Road Safety Audits* |
| 4. | ROAD SAFETY AUDITS |  |
| 5. | HOLD POINTS |  |

Part D16 Safety in Design

Unless specified below, all works must be undertaken in accordance with Master Specification Part D16 Safety in Design, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | REFERENCES |  |
| 3. | DESIGN REQUIREMENTS |  |
| 4. | SAFETY IN DESIGN PROCEDURE |  |
| 5. | SAFETY IN DESIGN REPORT |  |
| 6. | RECORDS |  |
| 7. | HOLD POINTS |  |

Part D19 Design Environmental

Unless specified below, all works must be undertaken in accordance with Master Specification Part D19 Design Environmental, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | REFERENCES |  |
| 3. | CONTRACTOR’S ENVIRONMENTAL OBLIGATIONS |  |
| 4. | ENVIRONMENTAL AND SUSTAINABILITY OBJECTIVES |  |
| 5. | ENVIRONMENTAL SPECIALISTS |  |
| 6. | ENVIRONMENTALLY SENSITIVE AREAS |  |
| 7. | ENVIRONMENTAL AUTHORISATIONS |  |
| 8. | FLORA AND FAUNA |  |
| 9. | WATER QUALITY PROTECTION | *Outline when a Water Quality Risk Assessment and Water Affecting Activities Risk Assessment is to be undertaken if not at 30% design.* |
| 10. | EROSION AND SEDIMENT CONTROL |  |
| 11. | NOISE AND VIBRATION |  |
| 12. | CONTAMINATION |  |
| 13. | ABORIGINAL HERITAGE |  |
| 14. | HOLD POINTS |  |
| 15. | RECORDS | *Specify Drawings, Reports, Implementation Records that apply* |

Part D20 Design Roadworks

Unless specified below, all works must be undertaken in accordance with Master Specification Part D20 Design Roadworks, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | ROAD GEOMETRY |  |
| 3. | STORMWATER |  |
| 4. | EARTHWORKS |  |
| 5. | ROAD PAVEMENT |  |
| 6. | ROAD SIGNS AND PAVEMENT MARKING |  |
| 7. | BARRIERS |  |
| 8. | ROAD LIGHTING |  |
| 9. | CONDUIT SYSTEMS | *Outline when a Water Quality Risk Assessment and Water Affecting Activities Risk Assessment is to be undertaken if not at 30% design.* |
| 10. | INTELLIGENT TRAFFIC SYSTEM COMMUNICATIONS NETWORK |  |
| 11. | TRAFFIC SIGNALS | *Outline any traffic data that DPTI will be supplying*  *Outline the ‘design’ vehicle that the contractor is to use.*  *Outline any specific software applications that must be used.*  *Outline any specific intersections that are required to be included in the scope of the models.*  *Outline any requirements for Uninterrupted Power Supplies (UPS) and CCTV at specific locations.* |
| 12. | HOLD POINTS |  |
| 13. | RECORDS |  |

Part D27 Design Utility Services

Unless specified below, all works must be undertaken in accordance with Master Specification Part D27 Design Utility Services, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | REFERENCES |  |
| 3. | DESIGN REQUIREMENTS |  |
| 4. | INSTALLATION OF NEW UTILITY SERVICES |  |
| 5. | RECORDS |  |
| 6. | HOLD POINTS |  |

Part D35 Design Structural

Unless specified below, all works must be undertaken in accordance with Master Specification Part D35 Design Structural, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | RECORDS |  |
| 3. | HOLD POINTS |  |

Part D37 Design Landscape and Urban Design

Unless specified below, all works must be undertaken in accordance with Master Specification Part D37 Design Landscape and Urban Design, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | REFERENCES |  |
| 3. | GENERAL PRINCIPLES |  |
| 4. | DESIGN REQUIREMENTS | *Specify treatments to be incorporated into the Contractor’s Design* |
| 5. | LANDSCAPING | *Outline specific design criteria not covered in Part D37* |
| 6. | RECORDS | *Specify the minimum Construction Drawing requirements for the contractor to meet* |
| 7. | HOLD POINTS | *Specify the minimum Design Report requirements that satisfy a notional 30% completion for the Contractor to meet* |

Part D81 Design Railway Tracks

Unless specified below, all works must be undertaken in accordance with Master Specification Part D81 Design Railway Tracks, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | REFERENCES |  |
| 3. | PROJECT DESIGN REQUIREMENTS | *Outline Justification to approach*  *Specify operational speeds*  *Specify any overpass requirements*  *Outline minimisation required for Horizontal Alignment*  *Specify any variations to minimum track centres at adjacent level crossings*  *Provide supplementary detailed assessments during design development as required*  *Specify if required - Contractor must design and install the ferrule appropriate for the requirements of the item to be installed* |
| 4. | CONFIGURATION 1 (INTERIM) TRACK ALIGNMENT – BROAD GAUGE (1600mm) |  |
| 5. | CONFIGURATION 2 (ULTIMATE) TRACK ALIGNMENT – STANDARD GAUGE (1435mm) |  |
| 6. | DESIGN STAGES |  |
| 7. | HOLD POINTS |  |

Part D82 Design – Railway Signalling and Communications

Unless specified below, all works must be undertaken in accordance with Master Specification Part D82 Railway Signalling and Communications, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | DESIGN REPORTS |  |
| 3. | REQUIREMENTS DEFINITION (notionally 15% complete) | *Outline any additions/alterations required to the documentation requirements* |
| 4. | PRELIMINARY DESIGN (notionally 30% complete) | *Outline any additions/alterations required to the documentation requirements* |
| 5. | DETAILED DESIGN (notionally 70% complete) | *Outline any additions/alterations required to the documentation requirements* |
| 6. | FINAL DESIGN (notionally 100% complete) | *Outline any additions/alterations required to the documentation requirements* |
| 7. | HOLD POINTS |  |

Part D83 Design Railway Overhead Wiring

Unless specified below, all works must be undertaken in accordance with Master Specification Part D83 Design Railway Overhead Wiring, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL |  |
| 2. | RECORDS |  |
| 3. | REQUIREMENTS DEFINITION (notionally 15% complete) | *Outline any additional/lesser documentation requirements* |
| 4. | PRELIMINARY DESIGN (notionally 30% complete) | *Outline any additional/lesser documentation requirements* |
| 5. | DETAILED DESIGN (notionally 70% complete) | *Outline any additional/lesser documentation requirements* |
| 6. | FINAL DESIGN (notionally 100% complete) | *Outline any additional/lesser documentation requirements* |
| 7. | HOLD POINTS |  |