Part R03 SUPPLY OF PIPES, CULVERTS AND DRAINAGE STRUCTURES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R03 Supply of Pipes, Culverts and Drainage Structures, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline Pipes requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | SUPPLY OF CONCRETE PIPES |  |
| 4. | SUPPLY OF SMALL BOX CULVERTS |  |
| 5. | SUPPLY OF LARGE BOX CULVERTS |  |
| 6. | SUPPLY OF PRECAST DRAINAGE STRUCTURES |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R04 INSTALLATION OF STORMWATER DRAINAGE

Unless specified below, all works must be undertaken in accordance with Master Specification Part R04 Installation of Stormwater Drainage, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the installation of stormwater drainage infrastructure requirements* |
| 2. | MATERIALS |  |
| 3. | EXCAVATION |  |
| 4. | INSTALLATION OF PIPES AND BOX CULVERTS |  |
| 5. | BACKFILL OF TRENCHES AND REINSTATEMENT OF EXISTING PAVEMENTS |  |
| 6. | EXCAVATION AT INLETS AND OUTLETS |  |
| 7. | CAST-IN-PLACE AND PRECAST CONCRETE DRAINAGE STRUCTURES |  |
| 8. | MINOR ACCESSES AND JUNCTIONS |  |
| 9. | SUBSOIL DRAINAGE | *Outline the subsoil drainage requirements* |
| 10. | EXISTING DRAINAGE CONNECTIONS |  |
| 11. | SEDIMENTATION |  |
| 12. | TREATMENT OF REDUNDANT STORMWATER INFRASTRUCTURE |  |
| 13. | TEST PROCEDURES |  |
| 14. | HOLD POINTS |  |
| 15. | MEASUREMENT |  |
| 16. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R05 KERBING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R05 Kerbing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the installation of kerbing requirements* |
| 2. | INSTALLATION OF KERBING |  |
| 3. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 4. | HOLD POINTS |  |

Part R06 BORING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R06 Boring, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the boring requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | INSTALLATION |  |
| 4. | BORING UNDER ROADS |  |
| 5. | BORING UNDER RAILWAY TRACKS |  |
| 6. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 7. | HOLD POINTS |  |

Part R07 TRENCH EXCAVATION AND BACKFILL

Unless specified below, all works must be undertaken in accordance with Master Specification Part R07 Trench Excavation and Backfill, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the excavation and backfill of trenches requirement* |
| 2. | REMOVAL OF EXISTING PAVEMENT |  |
| 3. | EXCAVATION |  |
| 4. | USE OF STEEL PLATES |  |
| 5. | BACKFILL |  |
| 6. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 7. | HOLD POINTS |  |

Part R08 REINSTATEMENT OF EXISTING PAVEMENTS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R08 Reinstatement of Existing Pavements, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | CONSTRUCTION OF PAVEMENT |  |
| 3. | SHOULDERS |  |
| 4. | UNBOUND AND CEMENT TREATED PAVEMENTS |  |
| 5. | TEMPORARY PAVEMENT SURFACE |  |
| 6. | SURFACING - GENERAL |  |
| 7. | ASPHALT SURFACING |  |
| 8. | JOINT SEALING |  |
| 9. | SPRAYED BITUMINOUS SURFACING |  |
| 10. | REINSTATEMENT OF OTHER INFRASTRUCTURE |  |
| 11. | HOLD POINTS |  |

Part R09 CONTROLLED LOW STRENGTH MATERIAL (CLSM)

Unless specified below, all works must be undertaken in accordance with Master Specification Part R09 Controlled Low Strength Material (CLSM), Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the CLSM requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | PROPERTIES |  |
| 5. | PLACEMENT |  |
| 6. | TEST PROCEDURES |  |
| 7. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 8. | HOLD POINTS |  |

Part R10 CONSTRUCTION OF EARTHWORKS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R10 Construction of Earthworks, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1 | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the condition or nature of the existing ground*  *Outline the construct earthworks requirements*  *Outline the consideration of compiling the CSR* |
| 2 | QUALITY REQUIREMENTS |  |
| 3 | MATERIALS FOR EARTHWORKS | *Outline the General Fill requirements*  *Outline the specify restrictions of use of material*  *Outline the topsoil stripping requirements*  *Outline the requirements of miscellaneous earthworks*  *Outline the additional information for earthworks*  *Outline the existing pavement material*  *Outline the unsuitable material*  *Outline the earthworks quantities*  *Outline the respreading requirement and importance of topsoil*  *Outline the spreading requirements of mulch* |
| 4 | SITE PREPARATION |  |
| 5 | PROOF ROLLING |  |
| 6 | EXCAVATION | *Outline the excavation in rock* |
| 7 | PREPARATION OF THE EXISTING SURFACE UNDER FILL AND THE SUBGRADE IN CUT |  |
| 8 | GEOTEXTILES |  |
| 9 | FILL CONSTRUCTION | *Outline the Compaction and Moisture content when compacted requirements for general purpose*  *Outline the placement of general fill requirements*  *Outline the detail material for backfill to kerb and gutter* |
| 10 | COMPLETED SURFACE OF THE SUBGRADE AND BATTERS |  |
| 11 | TREATMENT OF THE CONSTRUCTED SURFACE | *Outline the treatment for constructed surface*  *Outline the weed control requirements*  *Outline the treatment of areas of existing pavement to be abandoned*  *Outline the treatment of excavated material*  *Outline the requirements for treatment of borrow pits* |
| 12 | TEST PROCEDURES |  |
| 13 | HOLD POINTS |  |
| 14 | VERIFICATION REQUIREMENTS AND RECORDS | *Outline the acceptance limits of general fill* |

Part R15 SUPPLY OF PAVEMENT MATERIALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R15 Supply of Pavement Materials, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline other applications associated with construction* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | ACCEPTANCE OF MATERIAL |  |
| 4. | QUALITY OF MATERIALS |  |
| 5. | SAMPLING AND TESTING |  |
| 6. | RECYCLED MATERIALS AND BLAST FURNACE SLAG | *Outline quarried material requirements if applicable* |
| 7. | PERFORMANCE BASED PAVEMENT MATERIALS | *Outline performance based materials* |
| 8. | STABILISED AND WET-MIXED MATERIALS (PLANT MIXED) | *Outline the stabilised materials and wet-mixed materials requirements* |
| 9. | RAIL BALLAST | *Outline the production requirement of rail ballast* |
| 10. | ASPHALT AGGREGATES AND SAND |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R20 PAVEMENTS GENERAL

Unless specified below, all works must be undertaken in accordance with Master Specification Part R20 Pavements General, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the pavement work requirements*  *Outline the pavement marking and roadside furniture requirements*  *Outline the pavement configuration for plane and reinstatement work requirements*  *Outline the pavement configuration for Overlays requirements* |
| 2. | QUALITY REQUIREMENTS | *Outline the pavement levels and dimensions*  *Outline the joint performance requirement* |
| 3. | EXCAVATION ADJACENT TO EXISTING PAVEMENT |  |
| 4. | PAVEMENT LEVELS AND DIMENSIONS | *Outline the pavement layer details requirements (including tolerances etc)* |
| 5. | PAVEMENT TREATMENT AT CULVERT LOCATIONS | *Outline the pavement matching treatment requirements*  *Outline the pavement treatment under kerb and/or gutter requirements* |
| 6. | HOLD POINTS |  |

Part R21 CONSTRUCTION OF UNSTABILISED Granular PAVEMENTS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R21 Construction of Unstabilised Granular Pavements, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the minimum moisture content of the underlying pavement layer* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS AND MIXING PLANT |  |
| 4. | PLACEMENT |  |
| 5. | SURFACE FINISH |  |
| 6. | COMPACTION ACCEPTANCE CRITERIA | *Outline the specified values of L for each pavement layer*  *Outline the allowable tolerances on the finished levels of each pavement course* |
| 7. | TEST PROCEDURES |  |
| 8. | HOLD POINTS |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R22 CONSTRUCTION OF PLANT MIXED STABILISED PAVEMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R22 Construction of Plant Mixed Stabilised Pavement, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the additional information regarding the mix design* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | MIXING |  |
| 5. | TRANSPORTATION |  |
| 6. | DELIVERY |  |
| 7. | PLACING |  |
| 8. | JOINTS |  |
| 9. | CURING |  |
| 10. | FINISH |  |
| 11. | TRAFFIC RESTRICTIONS |  |
| 12. | SAMPLING AND TESTING | *Outline stabilised granular pavement layers requirements*  *Outline finished level of stabilised pavement layers requirements including tolerance if not +/50mm.* |
| 13. | TEST PROCEDURES |  |
| 14. | HOLD POINTS |  |
| 15. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R23 INSITU STABILISATION

Unless specified below, all works must be undertaken in accordance with Master Specification Part R23 Insitu Stabilisation, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the configuration requirement for placing pavement*  *Outline the additional information* regarding the existing materials or pavement  Outline *additional requirements for design or construction of the pavement* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | TRIAL SECTION |  |
| 4. | SPREADING OF BINDER | *Outline the spreading requirement of cement* |
| 5. | STABILISATION | *Outline the work undertaken requirements*  *Outline nature of ground requirements* |
| 6. | SURFACE FINISH |  |
| 7. | TESTING REQUIREMENTS AND FREQUENCY | *Outline full depth and over full width of stabilised layer*  *Outline the minimum frequency of testing of the stabilised layer requirements* |
| 8. | THICKNESS, WIDTH, LEVELS AND TOLERANCES | *Outline allowable tolerances on finished levels of each pavement course* |
| 9. | CONSTRUCTION JOINTS AND CURING | *Outline the surface of compacted stabilised layers requirements* |
| 10. | TEST PROCEDURES |  |
| 11. | HOLD POINTS |  |

Part R24 CONSTRUCTION OF FOAMED BITUMEN STABILISED PAVEMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R24 Construction of Foamed Bitumen Stabilised Pavement, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the configuration requirement for placing pavement* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | CONSTRAINTS TO WORK |  |
| 5. | PLANT |  |
| 6. | TRIAL PAVEMENT |  |
| 7. | CONSTRUCTION PROCESS |  |
| 8. | CURING |  |
| 9. | SURFACE FINISH | *Outline the finished wearing course and any lower layers constructed requirements*  *Outline the NAASRA roughness counts per km, ensure they do not exceed the ones specified in Pavement.* |
| 10. | SAMPLING AND TESTING | *Outline the depth of stabilisation requirements*  *Outline the compaction requirements* |
| 11. | TEST PROCEDURES |  |
| 12. | HOLD POINTS |  |
| 13. | VERIFICATION REQUIREMENTS AND RECORDS | *Outline the acceptance limits of ride quality and pavement construction*  *Outline the mix design parameters summary* |

Part R25 SUPPLY OF BITUMINOUS MATERIALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R25 Supply of Bituminous Materials, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | RESIDUAL BITUMEN |  |
| 3. | POLYMER MODIFIED BINDERS (PMBs) |  |
| 4. | PRIMERS AND PRIMER BINDERS |  |
| 5. | EMULSIONS |  |
| 6. | MULTIGRADE BITUMENS |  |
| 7. | CRUMB RUBBER BINDERS (CRB’S) |  |
| 8. | BITUMINOUS FLUX AND CUTTER |  |
| 9. | TEST PROCEDURES |  |
| 10. | SAMPLING AND TESTING |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R26 APPLICATION OF SPRAYED BITUMINOUS SURFACING

Unless specified below, all works must be undertaken in accordance with Master Specification R26 Application of Sprayed Bituminous Surfacing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | CONSTRAINTS TO WORK |  |
| 5. | PROTECTION OF ROAD FIXTURES |  |
| 6. | CLEANING OF PAVEMENT |  |
| 7. | OPERATION OF SPRAYER |  |
| 8. | APPLICATION OF PRIME AND PRIMERSEAL |  |
| 9. | APPLICATION OF BINDER |  |
| 10. | APPLICATION OF STRAIN ALLEVIATING MEMBRANE INTERLAYER |  |
| 11. | APPLICATION OF AGGREGATE |  |
| 12. | REMOVAL OF LOOSE AGGREGATE AFTER ROLLING |  |
| 13. | PAVING FABRIC |  |
| 14. | SURPLUS AND WASTE MATERIALS |  |
| 15. | RECORDS OF WORK |  |
| 16. | APPLICATION TOLERANCES |  |
| 17. | TEST PROCEDURES |  |
| 18. | HOLD POINTS |  |
| 19. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 20. | MEASUREMENT |  |
| 21. | PAYMENT BY SCHEDULE OF RATES |  |
| 22. | PAYMENT BY LUMP SUM |  |

Part R26DA DESIGN AND APPLICATION OF SPRAYED BITUMINOUS SURFACING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R26DA Design and Application of Sprayed Bituminous Surfacing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the traffic data requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | SEAL DESIGN |  |
| 4. | MATERIALS |  |
| 5. | CONSTRAINTS TO WORK |  |
| 6. | PROTECTION OF ROAD FIXTURES |  |
| 7. | CLEANING OF PAVEMENT |  |
| 8. | OPERATION OF SPRAYER |  |
| 9. | APPLICATION OF PRIME AND PRIMERSEAL |  |
| 10. | APPLICATION OF BINDER |  |
| 11. | APPLICATION OF STRAIN ALLEVIATING MEMBRANE INTERLAYER |  |
| 12. | APPLICATION OF AGGREGATE |  |
| 13. | REMOVAL OF LOOSE AGGREGATE AFTER ROLLING |  |
| 14. | PAVING FABRIC |  |
| 15. | SURPLUS AND WASTE MATERIALS |  |
| 16. | RECORDS OF WORK |  |
| 17. | APPLICATION TOLERANCES |  |
| 18. | ACCEPTANCE CRITERIA |  |
| 19. | TEST PROCEDURES |  |
| 20. | HOLD POINTS |  |
| 21. | MEASUREMENT |  |
| 22. | PAYMENT BY SCHEDULE OF RATES |  |
|  | PAYMENT BY LUMP SUM |  |

Part R27 SUPPLY OF ASPHALT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R27 Supply of Asphalt, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | MIX REQUIREMENTS |  |
| 5. | MANUFACTURE OF MIXES |  |
| 6. | PRODUCTION SAMPLING AND TESTING |  |
| 7. | PROPERTY VARIATIONS OF PRODUCTION ASPHALT |  |
| 8. | STORAGE OF ASPHALT |  |
| 9. | DELIVERY OF MIX |  |
| 10. | TEST PROCEDURES |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R28 CONSTRUCTION OF ASPHALT PAVEMENTS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R28 Construction of Asphalt Pavements, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the configuration requirement for placing asphalt* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | CONSTRAINTS TO THE PLACEMENT OF ASPHALT | *Outline the waterproofing membranes requirements*  *Outline additional constraints relating to traffic management* |
| 5. | CRACK SEALING |  |
| 6. | PAVEMENT SURFACE PREPARATION |  |
| 7. | PLACEMENT OF ASPHALT |  |
| 8. | SAMPLING AND TESTING |  |
| 9. | PROPERTIES OF FINISHED ASPHALT PAVEMENT | *Outline finished level of asphalt layers*  *Outline tolerances of base courses and intermediate courses* |
| 10. | DISCARDED ASPHALT |  |
| 11. | TEST PROCEDURES |  |
| 12. | HOLD POINTS | *Outline acceptance limits of wearing course and asphalt laid to design levels* |
| 13. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R29 SLURRY MICRO SURFACING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R29 Slurry Micro Surfacing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the surfacing requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | CONSTRAINTS TO WORK |  |
| 5. | DESIGN OF MIX |  |
| 6. | MANUFACTURE OF MIXES |  |
| 7. | SAMPLING AND TESTING |  |
| 8. | APPLICATION OF PRODUCT |  |
| 9. | PROPERTIES OF FINISHED SURFACING |  |
| 10. | RECORDS OF WORK |  |
| 11. | TEST PROCEDURES |  |
| 12. | HOLD POINTS |  |
| 13. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R30 COLD PLANING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R30 Cold Planing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline cold planning requirements* |
| 2. | COLD PLANING |  |
| 3. | EDGE AND END PLANING |  |
| 4. | SERVICE CASTINGS |  |
| 5. | COLD PLANED MATERIAL |  |
| 6. | MEASUREMENT |  |
| 7. | HOLD POINTS |  |

Part R31 APPLICATION OF CAPE SEALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R31 Application of Cape Seals, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the types of cape seal requirements* |
| 2. | MATERIALS |  |
| 3. | CONSTRAINTS TO WORKS |  |
| 4. | SPRAYED BITUMINOUS SEAL |  |
| 5. | BITUMINOUS SLURRY SURFACING |  |

Part R32 APPLICATION OF THIN ASPHALT SURFACINGS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R32 Application of Thin Asphalt Surfacings, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline types of pavement treatment requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | CONSTRAINTS TO WORK |  |
| 5. | DESIGN OF MIX |  |
| 6. | MANUFACTURE OF MIXES |  |
| 7. | PLACEMENT OF MIX |  |
| 8. | SAMPLING AND TESTING |  |
| 9. | PROPERTIES OF FINISHED SURFACING |  |
| 10. | RECORDS OF WORK |  |
| 11. | TEST PROCEDURES |  |
| 12. | HOLD POINTS |  |
| 13. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R33 DESIGN OF SPRAY SEALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R33 Design of Spray Seals, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the required surface characteristics* |
| 2. | FUNCTIONAL REQUIREMENTS | *Outline parameters of the functional requirements* |
| 3. | DESIGN INFORMATION | *Outline the parameters requirements for spray seal design* |
| 4. | HOLD POINTS |  |

Part R34 SURFACE CHARACTERISTICS SPRAY SEALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R34 Surface Characteristics Spray Seals, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | PROPERTIES OF THE SURFACE |  |
| 3. | ACCEPTANCE CRITERIA |  |
| 4. | RECTIFICATION WORK |  |
| 5. | TEST PROCEDURES |  |
| 6. | PAYMENT |  |

Part R35 SURFACE CHARACTERISTICS – ROUGHNESS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R35 Surface Characteristics Roughness, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the responsibility of undertaking the roughness testing of the finished pavement and reporting the results* |
| 2. | MEASUREMENT OF ROUGHNESS | *Prior to measurements commencing a series of 5 runs for each operator over the section of road*  *Outline the maximum roughness levels requirements*  *Outline the minimum testing frequency of surface roughness after practical completeness* |
| 3. | REPORTING |  |
| 4. | ACCEPTANCE LIMITS | *Outline the excluded area requirements*  *Outline the side streets* |
| 5. | TEST PROCEDURES |  |
| 6. | HOLD POINTS |  |

Part R36 CONSTRUCTION OF SHOULDERS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R36 Construction of Shoulders, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline modify or additional requirements (included imported materials, shoulder geometry, pavement compaction and a description of the extent of the works)* |
| 2. | MATERIALS | *Outline the materials requirements*  *Outline the aggregate requirements*  *Outline the aggregate precoat requirements* |
| 3. | GEOMETRIC DESIGN | *Outline the pavement layer details requirements*  *Outline the bituminous surfacing requirements* |
| 4. | CONSTRUCTION |  |
| 5. | TEST PROCEDURES |  |
| 6. | VERIFICATION REQUIREMENTS AND RECORDS | *Outline the shoulder crossfalls requirements* |

Part R37 SUPPLY OF PAVEMENT CRACK SEALANT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R37 Supply of Pavement Crack Sealant, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the approved crack sealants requirements* |
| 2. | MATERIALS |  |
| 3. | TEST PROCEDURES |  |
| 4. | HOLD POINTS |  |

Part R38 APPLICATION OF PAVEMENT CRACK SEALANT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R38 Application of Pavement Crack Sealant, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | MATERIALS |  |
| 4. | SEALANT/WORK METHOD | *Outline the other performance requirements* |
| 5. | PERFORMANCE REQUIREMENTS |  |
| 6. | SAMPLING AND TESTING |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R39 TEXTURE RESTORATION OF SEALED ROADS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R39 Texture Restoration of Sealed Roads, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the work location requirements* |
| 2. | *QUALITY REQUIREMENTS* |  |
| 3. | PERFORMANCE STANDARDS |  |
| 4. | ENVIRONMENTAL MANAGEMENT REQUIREMENTS |  |
| 5. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 6. | HOLD POINTS |  |

Part R40 SUPPLY OF COLD MIX ASPHALT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R40 Supply of Cold Mix Asphalt, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | MATERIALS |  |
| 3. | REQUIREMENTS |  |
| 4. | MANUFACTURE AND DELIVERY OF MIXES |  |
| 5. | SAMPLING AND TESTING |  |
| 6. | TEST PROCEDURES |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R42 SUPPLY AND INSTALLATION OF STEEL BEAM ROAD SAFETY BARRIER SYSTEMS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R42 Supply and Installation of Steel Beam Road Safety Barrier Systems, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the requirement of damage to posts due to rock*  *Outline the requirement of cranked posts* |
| 2. | QUALITY REQUIREMENTS | *Outline the payment requirement for rock drilling* |
| 3. | SUPPLY OF STEEL BEAM SAFETY BARRIER COMPONENTS |  |
| 4. | INSTALLATION OF SBSB SYSTEMS | *Outline the presence of obstructions requirements* |
| 5. | REMOVAL OF EXISTING BARRIER |  |
| 6. | HOLD POINTS |  |
| 7. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R43 WIRE ROPE SAFETY BARRIER SYSTEMS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R43 Wire Rope Safety Barrier Systems, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the post colour and finish requirements*  *Outline the payment for rock drilling requirements* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | SUPPLY OF WIRE ROPE SAFETY BARRIER COMPONENTS | *Outline the WRSB requirements*  *Outline the extent of wire rope safety barrier requirements* |
| 4. | INSTALLATION OF WIRE ROPE SAFETY BARRIER | *Outline the ingal flexfence requirements*  *Outline the brifen safety barrier requirements* |
| 5. | REMOVAL OF EXISTING SAFETY BARRIER SYSTEMS |  |
| 6. | HOLD POINTS |  |
| 7. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R44 CONSTRUCTION OF CONCRETE SAFETY BARRIER SYSTEMS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R44 Construction of Concrete Safety Barrier Systems, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | CONSTRUCTION OF CONCRETE BARRIERS |  |
| 4. | HOLD POINTS |  |

Part R45 SUPPLY OF MATERIALS FOR PAVEMENT MARKING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R45 Supply of Materials For Pavement Marking, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | PAINT |  |
| 3. | QUARTZ FOR "NON-SKID" PAVEMENT MARKING |  |
| 4. | GLASS BEADS |  |
| 5. | CRUSHED GLASS ANTI SKID MIX |  |
| 6. | HIGH PERFORMANCE PAVEMENT MARKING MATERIALS |  |
| 7. | COLOURED PAVEMENT SURFACINGS |  |
| 8. | RAISED PAVEMENT MARKERS |  |
| 9. | SHEET MATERIALS |  |
| 10. | ADHESIVES |  |
| 11. | PAVEMENT BARS |  |
| 12. | TEMPORARY PAVEMENT MARKING MATERIALS |  |
| 13. | QUALITY RECORDS |  |
| 14. | HOLD POINTS |  |
| 15. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R46 APPLICATION OF PAVEMENT MARKING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R46 Application of Pavement Marking, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the timing constraints requirements on application of each coat of paint* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | CONTRACTOR ACCREDITATION |  |
| 4. | MATERIALS |  |
| 5. | APPLICATION OF PAVEMENT MARKING | *Outline the large beads, the large bead/glass Anti Skid Mix requirements*  *Outline the high performance markings requirements*  *Outline the timing of the application of paint requirements*  *Outline the additional requirements*  *Outline the lane marking details requirements* |
| 6. | RAISED PAVEMENT MARKERS | *Outline the raised pavement marker locations* |
| 7. | PAVEMENT BARS |  |
| 8. | RETROREFLECTIVITY |  |
| 9. | SKID RESISTANCE |  |
| 10. | TEST PROCEDURES |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 13. | MEASUREMENT |  |

Part R47 SUPPLY AND APPLICATION OF AUDIO TACTILE LINE MARKING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R47 Supply and Application of Audio Tactile Line Marking, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | CONTRACTOR ACCREDITATION |  |
| 4. | MATERIALS |  |
| 5. | APPLICATION OF ATLM |  |
| 6. | TESTING AND ACCEPTANCE |  |
| 7. | RECTIFICATION OF DEFECTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 9. | HOLD POINTS |  |

Part R48 SUPPLY OF SIGNS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R48 Supply of Signs, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | PREQUALIFICATION |  |
| 3. | DESIGN |  |
| 4. | MATERIALS FOR SIGNS |  |
| 5. | CERTIFICATION FROM RETROREFLECTIVE SHEETING MANUFACTURER |  |
| 6. | MANUFACTURE OF SIGNS |  |
| 7. | HANDLING OF SIGNS |  |
| 8. | SIGN PERFORMANCE WARRANTIES |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R49 INSTALLATION OF SIGNS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R49 Installation of Signs, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the circular hollow supports requirements* |
| 2. | SUPPLY OF SIGN SUPPORTS |  |
| 3. | SELECTION OF SIGN SUPPORTS |  |
| 4. | PLACEMENT OF SIGNS |  |
| 5. | INSTALLATION OF SIGN SUPPORTS |  |
| 6. | INSTALLATION OF SIGNS |  |
| 7. | RECORDS |  |
| 8. | HOLD POINTS |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R50 SUPPLY OF LIGHTING COMPONENTS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R50 Supply of Lighting Components, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | MATERIALS |  |
| 3. | DESIGN AND TESTING OF LIGHTING POLES AND MAST ARMS |  |
| 4. | GENERAL REQUIREMENTS | *Outline the lighting components requirements* |
| 5. | MANUFACTURE |  |
| 6. | PROTECTIVE TREATMENT |  |
| 7. | TRANSPORTATION AND STORAGE OF GALVANISED COMPONENTS |  |
| 8. | HOLD POINTS |  |

Part R51 SUPPLY OF LUMINAIRES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R51 Supply of Luminaires, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | LUMINAIRE REQUIREMENTS |  |
| 3. | REFLECTOR |  |
| 4. | HOLD POINTS |  |

Part R52 INSTALLATION OF LIGHTING FOR ROADS AND PUBLIC SPACES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R52 Installation of Lighting For Roads And Public Spaces, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the installation of lighting for roads and public spaces requirements* |
| 2. | MATERIALS |  |
| 3. | POLE FOOTINGS |  |
| 4. | TRENCHING AND BORING |  |
| 5. | ASSEMBLY AND ERECTION OF POLES |  |
| 6. | ELECTRICAL WORK |  |
| 7. | SUPPLY POINTS | *Outline the temporary overhead supply points and/or service points* |
| 8. | SERVICE POINTS |  |
| 9. | WIRING |  |
| 10. | LUMINAIRES |  |
| 11. | LAMPS |  |
| 12. | OTHER LIGHTING | *Outline other lighting* |
| 13. | ACCEPTANCE |  |
| 14. | REMOVAL OF EXISTING POLES AND FOOTINGS | *Outline the ownership of the poles, footings and luminaries* |
| 15. | HOLD POINTS |  |
| 16. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R53 SUPPLY AND INSTALLATION OF CONDUITS AND PITS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R53 Supply and Installation of Conduits and Pits, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | COMPLIANCE WITH LEGISLATION |  |
| 3. | MATERIALS |  |
| 4. | DESIGN OF CONDUITS AND PITS | *Outline the large pits requirements* |
| 5. | TRENCHING, BORING AND BACKFILL |  |
| 6. | INSTALLATION OF ELECTRICAL CONDUIT | *Outline the installation of other conduits requirements* |
| 7. | INSTALLATION OF ELECTRICAL PITS |  |
| 8. | INSTALLATION OF TELECOMMUNICATION CONDUIT |  |
| 9. | INSTALLATION OF TELECOMMUNICATION PITS |  |
| 10. | ELECTRICAL TRENCH CAUTION TAPE AND CABLE POSITION MARKERS |  |
| 11. | VERIFICATION OF CONDUIT CONDITION |  |
| 12. | "AS CONSTRUCTED" DRAWINGS |  |
| 13. | HOLD POINTS |  |
| 14. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R54 SUPPLY OF LED LANTERNS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R54 Supply of LED Lanterns, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | TECHNICAL REQUIREMENTS |  |
| 3. | PRODUCT SUPPORT |  |
| 4. | INSTALLATION OF SPARE PARTS |  |
| 5. | COMPATIBILITY WITH TRAFFIC SIGNAL CONTROLLER |  |
| 6. | ENVIRONMENTAL CONSIDERATIONS |  |
| 7. | SAFE HANDLING CONSIDERATIONS |  |
| 8. | MODIFICATIONS TO LANTERNS |  |
| 9. | WARRANTY |  |
| 10. | CERTIFICATE OF SUITABILITY |  |
| 11. | IMMUNITY TO ELECTROMAGNETIC INTERFERENCE |  |

Part R55 INSTALLATION OF TRAFFIC SIGNALS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R55 Installation of Traffic Signals, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | ELECTRICAL INSTALLATION AND TESTING |  |
| 3. | TRENCH WORK, CONDUITS AND PITS |  |
| 4. | CONSTRUCTION OF FOOTINGS |  |
| 5. | CABLING |  |
| 6. | INSTALLATION OF EQUIPMENT |  |
| 7. | TRAFFIC SIGNAL CONTROLLER |  |
| 8. | PROVISION OF TELECOMMUNICATIONS FOR SCATS |  |
| 9. | DETECTOR LOOP INSTALLATION |  |
| 10. | SWITCH-ON |  |
| 11. | HOLD POINTS |  |

Part R56 INSTALLATION OF SAFETY CAMERAS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R56 Installation of Safety Cameras, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | CONSTRUCTION OF FOOTINGS |  |
| 3. | TRENCH WORK, CONDUITS AND PITS |  |
| 4. | CABLING |  |
| 5. | INSTALLATION OF EQUIPMENT |  |
| 6. | DETECTOR LOOP INSTALLATION |  |
| 7. | COMMISSIONING |  |
| 8. | HOLD POINTS |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R58 CONSUMER MAINS ELECTRICAL POWER DISTRIBUTION

Unless specified below, all works must be undertaken in accordance with Master Specification Part R58 Consumer Mains Electrical Power Distribution, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the scope of the work*  *Outline the supply of materials requirements*  *Outline the disposal of redundant materials requirements*  *Outline the schedule of consumer electrical services* |
| 2. | CONDUITS |  |
| 3. | WIRING |  |
| 4. | CONSUMER ELECTRICAL SERVICES | *Outline the any proposed variations* |
| 5. | DECOMMISSIONING OF EXISTING SERVICES |  |

Part R60 GENERAL REQUIREMENTS FOR THE SUPPLY OF ITS EQUIPMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R60 General Requirements for the Supply of ITS Equipment, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | EQUIPMENT REQUIREMENTS |  |
| 4. | ENVIRONMENTAL REQUIREMENTS |  |
| 5. | OPERATIONAL REQUIREMENTS |  |
| 6. | STREAMS | *Outline the STREAMS requirements and if it’s required to be compatible* |
| 7. | CONTROL SYSTEM |  |
| 8. | ALTERNATE POWER SOURCES | *Outline time that the batteries can be operated* |
| 9. | MECHANICAL & PHYSICAL REQUIREMENTS |  |
| 10. | REPLACEMENT PARTS |  |
| 11. | EQUIPMENT MANUALS |  |
| 12. | WARRANTY |  |
| 13. | TESTING AND ACCEPTANCE |  |
| 14. | "AS BUILT" DOCUMENTATION |  |
| 15. | TRAINING |  |
| 16. | HOLD POINTS |  |
| 17. | VERIFICATION REQUIREMENTS |  |

Part R61 INSTALLATION AND INTEGRATION OF ITS EQUIPMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R61 Installation and Integration of Its Equipment, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | ELECTRICAL AND TELECOMMUNICATIONS REQUIREMENTS |  |
| 4. | INTEGRATION |  |
| 5. | INSTALLATION REQUIREMENTS |  |
| 6. | VEHICULAR SITE MAINTENANCE ACCESS | *Outline if this clause applies* |
| 7. | NON-VEHICULAR ACCESS | *Outline if vehicular site maintenance is not required* |
| 8. | TESTING & COMMISSIONING |  |
| 9. | DESIGN OF SUPPORT STRUCTURES |  |
| 10. | FABRICATION AND INSTALLATION OF SUPPORT STRUCTURES |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R62 MAINS POWER FOR TRAFFIC MANAGEMENT EQUIPMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R62 Mains Power For Traffic Management Equipment, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | SCOPE |  |
| 4. | OPERATIONAL REQUIREMENTS |  |
| 5. | INSTALLATION REQUIREMENTS |  |
| 6. | ACCEPTANCE TEST REQUIREMENTS |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R63 TELECOMMUNICATIONS NETWORK

Unless specified below, all works must be undertaken in accordance with Master Specification Part R63 Telecommunications Network, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | ARCHITECTURAL REQUIREMENTS |  |
| 4. | FUNCTIONAL REQUIREMENTS | *Outline the time of re-route to the primary ring*  *Outline the required level of authentications*  *Outline dynamic routing requirements and maximum restoration times* |
| 5. | OPERATIONAL REQUIREMENTS | *Outline the equipment and systems requirements*  *Outline the MTBF requirements* |
| 6. | TECHNICAL REQUIREMENTS | *Outline the ITS networks requirements and relevant standards for compliance* |
| 7. | HOLD POINTS |  |
| 1. | GENERAL |  |

Part R64 ELECTRICAL SWITCHBOARDS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R64 Electrical Switchboards, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | EQUIPMENT REQUIREMENTS |  |
| 4. | CIRCUIT PROTECTION DEVICES |  |
| 5. | SWITCHBOARD ELECTRICS |  |
| 6. | MINOR SWITCHBOARDS |  |
| 7. | DESIGN AND MANUFACTURE |  |
| 8. | INSTALLATION |  |
| 9. | HOLD POINTS |  |
| 10. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R65 ITS ENCLOSURES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R65 ITS Enclosures, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | DESIGN REQUIREMENTS |  |
| 4. | ENCLOSURE INTERNAL OPERATING ENVIRONMENT |  |
| 5. | METALLIC ENCLOSURE |  |
| 6. | ENCLOSURE LIGHTING |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R66 THE SUPPLY OF VARIABLE AND CHANGEABLE MESSAGE SIGNS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R66 Supply of Variable and Changeable Message Signs, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | COMMUNICATIONS PROTOCOL |  |
| 4. | OPERATING REQUIREMENTS |  |
| 5. | SIGNS USING LED TECHNOLOGY | *Outline the module size requirements including removal and installation requirements of variable message signs and composite variable message signs*  *Outline display access door requirements* |
| 6. | SIGNS USING ROTATING PRISM TECHNOLOGY |  |
| 7. | ELECTRICAL AND TELECOMMUNICATIONS REQUIREMENTS | *Outline if power supply is different to a 230V mains power supply* |
| 8. | SIGN ENCLOSURES | *Specify if a colour other than black is to be used for the visible surface of the signs (in which case, Clause 8.6 does not apply)* |
| 9. | ACCESS PLATFORMS | *Outline if a service access platform is not required* |
| 10. | ACCEPTANCE |  |
| 11. | HOLD POINTS |  |
| 12. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R67 IMAGING EQUIPMENT

Unless specified below, all works must be undertaken in accordance with Master Specification Part R67 Imaging Equipment, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | EQUIPMENT REQUIREMENTS |  |
| 4. | OPERATIONAL REQUIREMENTS |  |
| 5. | RECORDING AND FOOTAGE RETENTION |  |
| 6. | PRIVACY CONSIDERATIONS |  |
| 7. | NETWORK AND TELECOMMUNICATIONS REQUIREMENTS |  |
| 8. | HOLD POINTS |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R68 FIELD PROCESSORS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R68 Field Processors, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS | *Outline whether Clause 2.2 applies (STREAMS compatibility required)* |
| 3. | FUNCTIONAL REQUIREMENTS |  |
| 4. | EQUIPMENT COMPONENTS |  |
| 5. | OPERATIONAL REQUIREMENTS | *Outline if Modem adaptor requirements apply*  *Outline if Display adaptor requirements apply*  *Outline the Permanent Storage Interfaces requirements*  *Outline the Keyboard Interface requirements* |
| 6. | POWER SUPPLY UNIT |  |
| 7. | MECHANICAL AND PHYSICAL REQUIREMENTS |  |
| 8. | HOLD POINTS |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R69 THE SUPPLY AND INSTALLATION OF VEHICLE DETECTOR SYSTEMS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R69 The Supply and Installation of Vehicle Detector Systems, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | EQUIPMENT REQUIREMENTS |  |
| 4. | CONFIGURATION OF DELIVERED EQUIPMENT |  |
| 5. | OPERATIONAL AVAILABILITY |  |
| 6. | HOLD POINTS |  |
| 7. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R70 TELECOMMUNICATIONS CABLING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R70 Telecommunications Cabling, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | SUPPLY OF TELECOMMUNICATIONS CABLING |  |
| 3. | INSTALLATION OF TELECOMMUNICATIONS CABLES |  |
| 4. | TESTING AND COMMISSIONING |  |
| 5. | SIGNAL GROUNDING SYSTEM |  |
| 6. | CABLE LABELLING SYSTEM |  |
| 7. | CABLE SCHEDULE |  |
| 8. | “AS-BUILT” DOCUMENTATION |  |
| 9. | HOLD POINTS |  |
| 10. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R71 HELP PHONES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R71 Help Phones, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | FUNCTIONAL REQUIREMENTS |  |
| 4. | OPERATIONAL REQUIREMENTS |  |
| 5. | MECHANICAL AND PHYSICAL REQUIREMENTS |  |
| 6. | INSTALLATION |  |
| 7. | HOLD POINTS |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R80 SUPPLY OF GUIDE POSTS AND DELINEATORS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R80 Supply of Guide Posts and Delineators, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | QUALITY REQUIREMENTS |  |
| 3. | GUIDE POSTS |  |
| 4. | MANUFACTURER’S WARRANTY |  |
| 5. | DELINEATORS |  |
| 6. | TEST PROCEDURES |  |
| 7. | HOLD POINTS |  |

Part R81 INSTALLATION OF GUIDE POSTS AND DELINEATORS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R81 Installation of Guide Posts and Delineators, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | INSTALLATION OF GUIDE POSTS |  |
| 3. | INSTALLATION OF DELINEATORS |  |
| 4. | HOLD POINTS |  |

Part R82 SUPPLY AND INSTALLATION OF GABIONS, RENO MATTRESSES AND MESH PANELS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R82 Supply and Installation of Gabions, Reno Mattresses and Mesh Panels, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply* |
| 2. | ROCK FILL |  |
| 3. | EXCAVATION AND BACKFILL | *Outline backfill requirements* |
| 4. | INSTALLATION | *Outline installation requirements*  *Outline wire diameters requirements*  *Outline cement treated rubble surface drain requirements*  *Outline mesh requirements*  *Outline heal drain requirements*  *Outline geotextile requirements (as per R85)* |
| 5. | PLACEMENT OF ROCK FILL |  |
| 6. | TOLERANCES |  |
| 7. | TEST PROCEDURES |  |
| 8. | VERIFICATION REQUIREMENTS AND RECORDS |  |
| 9. | HOLD POINTS |  |

Part R83 CONSTRUCTION OF SHARED PATHS

Unless specified below, all works must be undertaken in accordance with Master Specification Part R83 Construction of Shared Paths, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the type, configuration and extent of the shared path in line with the drawings* |
| 2. | SURFACE LEVELS |  |
| 3. | EARTHWORKS |  |
| 4. | COMPACTION |  |
| 5. | ASPHALT |  |
| 6. | CONCRETE |  |
| 7. | ELEVATED PATH |  |
| 8. | MISCELLANEOUS |  |
| 9. | HOLD POINTS |  |

Part R84 SECONDARY PAVING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R84 Secondary Paving, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline any secondary paving requirements*  *Outline any paving blocks requirements* |
| 2. | SURFACE LEVELS |  |
| 3. | COMPACTION |  |
| 4. | RUBBLE SURFACES |  |
| 5. | BITUMEN TREATED SURFACES |  |
| 6. | ASPHALT | *Outline the asphalt technical and performance requirements* |
| 7. | CONCRETE |  |
| 8. | BLOCK PAVING |  |
| 9. | SYNTHETIC GRASS |  |
| 10. | HOLD POINTS |  |
| 11. | MEASUREMENT |  |

Part R85 SUPPLY OF GEOTEXTILES

Unless specified below, all works must be undertaken in accordance with Master Specification Part R85 Supply of Geotextiles, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline the geotextile application for the project*  *Outline the site specific details* |
| 2. | PROPERTIES OF GEOTEXTILE MATERIAL |  |
| 3. | PROPERTIES OF GEOTEXTILES |  |
| 4. | SAMPLING AND TESTING | *Outline if testing requirements differ from that in Part 85* |
| 5. | STORAGE, PACKAGING AND IDENTIFICATION |  |
| 6. | TEST PROCEDURES |  |
| 7. | HOLD POINTS |  |
| 8. | MEASUREMENT |  |
| 9. | VERIFICATION REQUIREMENTS AND RECORDS |  |

Part R86 SUPPLY AND INSTALLATION OF FENCING

Unless specified below, all works must be undertaken in accordance with Master Specification Part R86 Supply And Installation of Fencing, Edition Dec 2017.

|  |  |  |
| --- | --- | --- |
| ***Heading*** | ***Title*** | ***Details*** |
| 1. | GENERAL | *Applies*  *Applies (Exceeds with spec information)*  *Does Not Apply*  *Outline installation requirements of posts and droppers*  *Outline any stock fence requirements*  *Outline pedestrian safety fence requirements* |
| 2. | "RINGLOCK" FENCING |  |
| 3. | PEDESTRIAN SAFETY FENCE | *Outline the colour requirements for the pedestrian safety fence* |
| 4. | CHAIN LINK FENCE | *Outline the height and colour of the fence requirements* |
| 5. | HOLD POINTS |  |