# project specific requirements

DIPL Std Spec Roadworks PSRs – March 2022

Reference

Read these Project Specific Requirements (PSRs) in conjunction with the Standard Specification for Roadworks (SSRw) and the Drawings if any. Only those parts of the Standard Specification which refer to the works being carried out apply.

Standard Specification for Roadworks – Reference Text

The technical specification for this project is the Standard Specification for Roadworks V 5.0 which is a separate document of reference text.

Site Copy

Retain a current copy of the Standard Specification for Roadworks on site for the duration of the Contract. Retain a copy of these Project Specific Requirements on site for the duration of contract. Electronic copies are acceptable.

Electronic copies of the Standard Specification for Roadworks are available via: <https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-specifications/roads>

Project Specific Requirements

The selection of specific items or materials for the works being carried out are as specified in these Project Specific Requirements or shown as notes on the drawings.

Clause Numbering

The clause numbers in the Project Specific Requirements remain consistent and refer back to the relevant clause and section in the Standard Specification for Roadworks.

Precedence

Any provision in these Project Specific Requirements or on the project drawings shall override any conflicting provision in the Standard Specification.

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[Edit the Project Specific Requirements to include only those sections required for the project. Do not change any section or clause numbers as they refer directly to the section and clause numbers in the standard specification.

If any clauses are amended by these PSRs, show the clause number in its numbering order place; State the requirement and state that the clause in the PSR overrides the equivalent clause in the Standard Reference text.

Delete any PSR clause which is not used or not relevant to the contract project.]

**SSRW Section 1 MISCELLANEOUS PROVISIONS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause** **1.19 Project Notice Boards**

Design the Project Notice Boards in accordance with drawing number(s) *[enter data]*

[Insert the required drawing number(s).]

Include the following project specific wording on the boards;

*[enter data]*

*[enter data]*

[Provide the required wording.]

Remove the boards within 2 weeks after the Certificate of Practical Completion has been issued.

[Use this paragraph for NT roads.]

Remove the boards 52 weeks after the Certificate of Practical Completion has been issued.

[Use this paragraph for Federal roads.]

**SSRW Clause 1.25 Cycle And Pedestrian Shared Paths**

[Add any required information.]

**SSRW Clause 1.31 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 2 PROVISIONS FOR TRAFFIC**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 2.6 Traffic Management Plan**

The Traffic Management for this contract may be subject to audit.

**SSRW Clause 2.6.1 Traffic Management Plan – Document Control**

Register of TMPs and TGSs for this project is –Required / Not required.

[Delete the redundant option. Do not require a project specific register for simple jobs where it is unlikely that revisions of TGSs will be required during the works.]

**SSRW Clause 2.6 Traffic Management Plan**, and

**SSRW Clause 2.8 Traffic Management Audit Requirements**, and

**SSRW Clause 2.9 Conformance Auditing Results**;

The Traffic Management for this contract is;

* subject to audit
* **not** subject to audit

[Delete the redundant option.]

**SSRW Clause 2.13.1 Working Times**

Work within the restricted work hours in built up areas is permitted within the following limitations:

[Enter data]

[Delete if work is not permitted during restricted work hours in built up areas.

Modify the times to suit the conditions and after consultation with the client. Delete the clause if the work is not in an urban area. Include a cross-reference to the Restricted Working Hours clause in the Preliminaries if appropriate.]

**SSRW Clause 2.16.7 Temporary Speed Limits**

Temporary speed limits applicable to the work site are:

|  |  |
| --- | --- |
| **Table – Temporary Speed Limits** | |
| **Zone/section of works** | **Speed limit(s)** |
| [Enter data] | [Enter data] |
| [Enter data] | [Enter data] |

[If temporary speed limits stated in the **Table – Target lowest speed limits** are the only applicable limits delete this table and clause. If there are no specific requirements delete this clause. Add more rows to the table if needed.]

**SSRW Clause 2.19 Detours, Side Tracks, and Crossovers**

[Determine with the Regional Project Officer whether construction requires a detour or will be done under traffic. Delete as appropriate.]

Side Track required or not required; *[enter data]*

**SSRW Clause 2.19.1 Construction**

Side Track Type; *[enter data]*

[Specify either sealed or gravelled. Specify sealed side tracks when the detour will be in operation for longer than 4 weeks. Discuss the side track type and requirements with the Regional Project Officer. Delete if side track not required.]

Construct side tracks with a finished surface level crown height 250 mm above the natural surface.

[Delete this requirement for short duration projects on local roads which are unlikely to be affected by rain.

Ensure that primer sealing is included in the SPRAY SEALING Section. Note here that the paragraph “Sealed side tracks to be primer sealed with 7 mm aggregate as specified in the SPRAY SEALING Section.” is deleted if it is not applicable.]

**SSRW Clause 2.20 Access to Adjacent Properties and Side Roads**

|  |  |
| --- | --- |
| **Table – Requirements for access to adjacent properties and side roads** | |
| **Location** | **Requirements** |
| *[enter data]* | *[enter data]* |
| *[enter data]* | *[enter data]* |

[Consider specifying access requirements for commercial properties. Negotiate with the owners for their access requirements during design. Identify the access requirements on the plans, if necessary. Add more rows if needed. Delete clause if there are no requirements.]

**SSRW Clause 2.21 Temporary Pedestrian Access**

|  |  |
| --- | --- |
| **Table – Requirements for temporary pedestrian access** | |
| **Location** | **Requirements** |
| *[enter data]* | *[enter data]* |
| *[enter data]* | *[enter data]* |

[In situations where a temporary path is required, include an item in the Schedule of Rates outlining the standard required, e.g. "a temporary primer sealed and lit path". Add more rows if needed. Delete clause if there are no requirements.]

**SSRW Clause 2.28 Other Requirements**

[Add any additional requirements.]

**SSRW Section 3** **CLEARING, GRUBBING AND REHABILITIATION**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 3.2 Clearing**

SALVAGED ITEMS

A list of items to be salvaged are as follows;

[Add a list of items to be salvaged.]

**SSRW Clause 3.11 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 4 EARTHWORKS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 4.3 Definitions**

SUBGRADE

Top *[enter data]* mm of material below subgrade surface.

[Amend default (150mm) if designer specifies different thickness. Delete this sub-clause if thickness is 150mm.]

**SSRW Clause 4.4.2 Excess Material – Hold Point**

Haul and dump and/or spread excess material at the following site(s): *[enter data]*

[If some excess material is to be spread and some to be stockpiled specify sites, indicating if they are for stockpiles or for spreading of excess material.]

The material is to be; - Spread and sheeted with topsoil

- Stockpiled

[Delete option not required.]

**SSRW Clause 4.5 Earthworks In Fill**

**SSSRW Clause 4.5.5 Construction Methods**

**Fill by** *[enter data]* method.

[Select "Compacted Layer", "Rocky Material" or "Rock Fill" method.]

**SSRW Clause 4.6 Fill Material**

[Specify selected values for properties if any differ from values in Standard Specification.]

**SSRW Clause 4.6.1 General Fill**

Minimum CBR *[enter data]* %

MMDD of *[enter data]* %,

Maximum particle size – Subgrade layers *[enter data]* mm

Maximum particle size – Layers other than subgrade *[enter data]* mm

Plasticity index between *[enter data]* % and *[enter data]* %.

[To AS 1289]. Ensure specified minimum CBR is consistent with locally available materials and the proposed pavement design. Delete this clause if the CBR in the Std Spec is achievable.]

**SSRW Clause 4.6.2 Standard Fill**

Minimum CBR *[enter data] %*

MMDD of *[enter data]* %,

Maximum particle size – Subgrade layers *[enter data]* mm

Maximum particle size – Layers other than subgrade *[enter data]* mm

Plasticity index between *[enter data]* % and *[enter data]* %,

Linear shrinkage between *[enter data]* % and *[enter data]* %.

[Enter data if values required are different from the default values in the Std Spec. To AS 1289. Ensure specified minimum CBR is consistent with locally available materials and the proposed pavement design. Delete this clause if the CBR in the Std Spec is achievable.]

**SSRW Clause 4.6.3 Select Fill**

Minimum CBR *[enter data]* %

MMDD of *[enter data]* %,

Maximum particle size – Subgrade layers *[enter data]* mm

Maximum particle size – Layers other than subgrade *[enter data]* mm

Plasticity index between *[enter data]* % and *[enter data]* %,

Linear shrinkage between *[enter data]* % and *[enter data]* %.

[Enter data if values required are different from the default values in the Std Spec. To AS 1289. Ensure specified minimum CBR is consistent with locally available materials and the proposed pavement design. Delete this clause if the CBR in the Std Spec is achievable.]

**SSRW Clause 4.6.4 Sand Clay Fill**

Minimum CBR *[enter data]* %

MMDD of *[enter data]* %,

Maximum particle size – Subgrade layers *[enter data]* mm

Maximum particle size – Layers other than subgrade *[enter data]* mm

Plasticity index between *[enter data]* % and *[enter data]* %,

Linear shrinkage between *[enter data]* % and *[enter data]* %.

[Delete if sand clay fill not permitted. Enter data if values required are different from the default values in the Std Spec. To AS 1289. Ensure specified minimum CBR is consistent with locally available materials and the proposed pavement design. Delete this clause if the CBR in the Std Spec is achievable.]

**SSRW CLAUSE 4.8 Earthworks For Drainage**

**SSRW Clause 4.8.1 Stream Diversions**

[Delete this clause if it not required. Add information regarding excavations and fill for stream diversions if not shown on drawings.]

**SSRW Clause 4.8.2 Levees/Stop berms**

[Delete this clause if it not required. Add information regarding locations and dimensions of levees if not shown on drawings.]

**SSRW Clause 4.8.4 Table Drain Offlets**

Divert table drains into offlet drains at intervals not exceeding *[enter data]* m.

[Insert intervals if other than 150m. Add any additional requirements or any alteration to the reference text. Delete this clause if it not required.]

**SSRW Clause 4.12 Batter Protection by Grassing**

**SSRW Clause 4.12.1 Grassing**

Batters to be treated from ch. *[enter data]* to ch. *[enter data]*.

[Insert start and end chainages. Add extra rows if more than one section of batter is to be treated.]

**SSRW Clause 4.12.2 Seed Mixture And Fertiliser**

SEED MIXTURE AND FERTILISER

Seed required *[enter data] .*

FERTILISER APPLICATION RATE

Apply at rate of *[enter data]* kg/ha.

[Insert number of kilograms required per hectare.]

**SSRW CLAUSE 4.13 Bridge Foundations**

**SSRW Clause 4.13.1 Conditions**

Original core samples for inspection at: *[enter data]*

[Insert location of original core samples.]

**SSRW Clause 4.13.2 Excavation**

Dimensions: *[enter data]*

[Insert information.]

Reduced levels: *[enter data]*

[Insert information.]

Blinding concrete: *[enter data]*

[Required/not required. Required if foundation is NOT homogeneous sound rock.]

**SSRW CLAUSE 4.14 Fill Adjacent To Bridge Structures**

[Indicate which processes, if any, are not required.]

**SSRW CLAUSE 4.15 Compaction**

[Indicate which processes, if any, are not required.]

**SSRW CLAUSE 4.16 Conformance**

[Indicate which processes, if any, are not required.]

SSRW Clause 4.16.1 Existing Surface Levels

Material to replace stripped layer: *[enter data]*

[Indicate requirements, if any.]

SSRW Clause 4.16.2 Tolerances

Subgrade width: *[enter data]*

[Indicate if kerbs are, or are not, included in the project.]

**SSRW Clause 4.17 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 5 CONFORMANCE TESTING**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 5.10 Conformance Testing Results**

|  |  |
| --- | --- |
| **Table - Remote areas additional days permitted for testing and reporting completion times** | |
| **Area/Location** | **Number of additional days allowed \*** |
|  |  |
|  |  |
|  |  |
| \* In addition to the Time Allowed for NATA Endorsed Report in Days (Monday to Saturday) in the ***Tables - Testing and Reporting Completion times - Parts 1, 2, & 3***. | |

**SSRW Clause 5.12 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 6 PAVEMENTS AND SHOULDERS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 6.2 Definitions**

SUBGRADE

Top *[enter data]* mm of material below subgrade surface.

[Amend default (150mm) if designer specifies different thickness. Delete this sub-clause if thickness is 150mm.]

**SSRW Clause 6.3 Material Properties**

**SSRW Clause 6.3.1 Table – Natural Gravel Particle Sizes**

Conformance requirements; - Base – sealed or unsealed - Type *[enter data]*

[Insert 2 or 3 for Type.]

- Sub Base – Type *[enter data]*

[Insert 1, 2, 3 or 4 for Type.]

- Shoulders – Type 3

[Alter if a different Type is required.

Delete any items not required in the contract.]

**SSRW Clause 6.3.2 Fine Crushed Rock**

[Indicate if Required or Not Required.]

**SSRW Clause 6.3.3 Blends Of Natural Gravel And Fine Crushed Rock**

[Indicate if Required or Not Required.]

**SSRW Clause 6.3.4 Sand Clay**

[Indicate if Required or Not Required. Use when it forms an integral part of the pavement and/or shoulder design.]

**SSRW Clause 6.4.1 Process Control Testing**

[Indicate if All Required or list activities and elements Required or indicate None Required.]

**SSRW Clause 6.5.2 Strengthening by Granular Overlay on Existing Pavement**

[Indicate if there is no seal to be removed.]

**SSRW Clause 6.5.3 Strengthening by Granular Overlay on Re-worked Existing Pavement**

[Indicate if there is no seal to be removed, and mixed-in.]

**SSRW Clause 6.7.6 Dry Back Requirement**

Nominal pavement thickness: *[enter data]*mm.

[Indicate if thickness is other than top 75 mm, or delete.]

**SSRW Clause 6.7.7 Remedial Work**

Pavement thickness: *[enter data]*mm.

[Indicate if thickness is other than 200 mm, or delete.]

**SSRW Clause 6.8 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 7 STABILISATION AND MODIFICATION**

[Add changes to the existing clauses in this section here, in correct number order]

**SSRW Clause 7.3 Materials**

**SSRW Clause 7.3.4 Water**

The maximum salt content for water in Alice Springs is *[enter data]* mg/litre

The maximum salt content for water in Tennant Creek is *[enter data]* mg/litre

[Delete if max. salt level in Std Spec is achievable.]

Materials to be stabilized are : *[enter data]*

**SSRW Clause 7.4 In Situ Stabilization and Modification**

**SSRW Clause 7.4.1 Preliminary Field Trial**

Preliminary field trial *[enter data] .*

[Insert required/not required.]

**SSRW Clause 7.4.4 Binder Spreading**

[Insert details if it is a small job and bag spotting is necessary..]

**SSRW Clause 7.4.4.2 Spread Rates for Tender Purposes**

Adopt the following binder spread rates for tender purposes:

Cement Stabilisation: *[enter data]* kg/sq.m.

Cement Modification: *[enter data]* kg/sq.m.

Hydrated Lime Modification: *[enter data]* kg/sq.m.

[Insert required spread rate if different from rates in Std Spec.]

**SSRW Clause 7.4.4.3 Spreading Requirements – Lime slurry**

Lime:water ratio to be *[enter data]*

[Insert required lime:water ratio.]

**SSRW Clause 7.5 Plant Mix Stabilisation**

**SSRW Clause 7.5.1 Binder Content**

Adopt the following cement content for tender purposes: *[enter data]* %*.*

[Insert required percentage.]

**SSRW Clause 7.5.2 Preliminary Field Trial**

Preliminary field trial *[enter data] .*

[Insert required/not required.]

**SSRW Clause 7.5.7 Laying**

Grader laying *[enter data]* .

[Insert permitted / not permitted. Suitable for minor jobs only.]

**SSRW Clause 7.6 Conformance**

**SSRW Clause 7.6.1 Tolerances**

Binder distribution values for other types of binding agent.

|  |  |  |
| --- | --- | --- |
| **Table – Stabilised and Modified Layer Conformance – Other Types of Binding Agent** | | |
| **Binding Agent** | [i] Apply if a preliminary trial is carried out (i.e. total area over 1000m2) | [ii] Apply if a preliminary trial is not carried out (i.e. areas under 1000m2) |
| Binder content shall not vary by more than the percentage shown absolute between top and bottom half of a layer at any location as determined in accordance with NTTM 204.8. | Binder content shall not vary by more than ± the percentage shown from the field application rate in any point. |
| *[enter data]* | *[enter data]* % | *[enter data]* % |
| *[enter data]* | *[enter data]* % | *[enter data]* % |
| Take samples for Liquid Limit, Plastic Limit, Linear Shrinkage, California Bearing Ratio from the unstabilised pavements. | | |

**SSRW Clause 7.7 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 8 SPRAY SEALING**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 8.4 Material Requirements**

**SSRW Clause 8.4.7 Bitumen Emulsion**

Bitumen emulsion to be;

Type; *[enter data]*

Binder Grade; *[enter data]*

%Binder; *[enter data]*

[Specify type of emulsion, based on the following types, if the default values in the Standard Specification are not to be specified:

A - anionic

C - cationic.

AM - aggregate mixing

RS - rapid setting

SS - slow setting

Specify Binder Grade, either 170 or 320

Specify percent bitumen content, usually 60%

Example: ASS-170‑60 is anionic, slow setting, class 170 bitumen, with 60% bitumen content.]

**SSRW Clause 8.8.2 Prime, Primer Seals, Seals, Pre-coats, and Enrichment Coats**

Cut back requirements are:

Prime: AMC *[enter data]* to AMC *[enter data]*

[Generally AMC 00 to AMC 1 – Default AMC 0 to AMC 00.]

Primer Seal: AMC *[enter data]* to AMC *[enter data]*

[Generally AMC 2 to AMC 4.]

Enrichment Coat: AMC *[enter data]* to AMC *[enter data]*

[generally AMC 0 to AMC 3. – Default – Emulsion based – to be advised.

Specify the bitumen cut back and delete inapplicable items.]

**SSRW Clause 8.8.5 Binder Coats, Tender Quantities**

Spray rates used as a basis for calculating tender quantities are as follows:

Enrichment Coat: *[enter data]* litres/m2

[Generally 0.2 to 0.4 L /m2.]

Prime: *[enter data]* litres/m2

[Generally 0.8 to 1.2L /m2.]

Primer Seal

*[enter data]* mm aggregate): *[enter data]* litres/m2

[Generally 1.1 to 1.4 L /m2 for 10mm size.]

First Coat

*[enter data]* mm aggregate): *[enter data]* litres/m2

[Generally 1.4 to 1.8 L /m2 for 14mm size.

1.0 to 1.5 L /m2 for 10mm size.]

Second Coat

*[enter data]* mm aggregate): *[enter data]* litres/m2

Reseal

*[enter data]* mm aggregate): *[enter data]* litres/m2

[Generally 1.7 to 2.3 L /m2 for 14mm size, 1.2 to 1.8 L /m2 for 10mm size, 0.8 to 1.0 L /m2 for 7mm size.]

Geofabric Tack Coat: *[enter data]* litres/m2

[Generally 0.6 to 0.7L /m2, but seek advice from Design Branch.]

**SSRW Clause 8.22 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 9 DENSE GRADED ASPHALT**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 9.4.1 Mix Type And Design Traffic Category**

Supply as follows: Mix Type *[enter data]* for Wearing Course

Mix Type *[enter data]* for Structural Course

Mix Type *[enter data]* for Correction Course

Mix Type *[enter data]* for Patching Work

[Insert the required design mix type 1,2,3,4 or 5 for the particular work.]

Design Traffic Category; *[enter data]*

[Nominate Heavy or Medium or Light in accordance with the TRAFFIC CATEGORIES clause. Seek advice from the Pavement Engineer if the grade is steep.]

**SSRW Clause 9.13.2 Mechanical Spreading**

Spreaders not specified in the Standard Specification but which are permitted to be used are;

*[enter data]*

[Where limited quantities of asphalt are required, or the area to be paved is restricted or of limited width, such as footpaths or parking areas, other spreaders may be specified.

Use only for large projects. Trial areas, where specified, should be included as a separate schedule item.]

**SSRW Clause 9.17 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 10 SLURRY SURFACING**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 10.3 Commencement of Work**

Length of notice before commencement of work is adjusted to *[enter data]* days.

[Delete if notice remains at 7 days.]

**SSRW Clause 10.14 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 11 MISCELLANEOUS CONCRETE WORKS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 11.4.1 Ready Mix Concrete**

Production Assessment; *[enter data]*

[Enter “Required” or “Not Required” . Add required concrete properties if they differ from those given in the Std Spec book.

Use Project Assessment for special-class concrete or where more significant structures are involved or where job-mixed concrete is used.]

|  |  |
| --- | --- |
| **Table – Concrete properties** | |
| **Property** | **Required measure** |
| Compressive strength | *[enter data]* |
| Aggregate size, generally | *[enter data]* |
| Aggregate size, machine extruded kerbs and gutters | *[enter data]* |
| Slump, generally | *[enter data]* |
| Slump, machine extruded kerbs and gutters | *[enter data]* |

[Delete table if required properties are unchanged.]

**SSRW Clause 11.4.2 Job-mixed Concrete**

Project Assessment; *[enter data]*

[Enter “Required” or “Not Required”.]

**SSRW Clause 11.6.7 Backfilling**

Material to be used is; *[enter data]* fill.

[Enter “select” or “general” or “special” or other selected fill type.]

**SSRW Clause 11.11 OTHER REQUIREMENTS**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 12 DRAINAGE WORKS**

**SSRW Clause 12.13 OTHER REQUIREMENTS**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 13 PROTECTION WORKS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 13.4 Rock Properties**

Use local rock unless specified differently here.

[Consider the availability of suitable local rock and any risks associated with the use of it.]

**SSRW Clause 13.5 Stone Pitching**

**SSRW Clause 13.5.1 Stone Pitching**

Depth of stone pitching is to be *[enter data]*mm.

[Delete this clause if the information is on the drawings]

**SSRW Clause 13.6 Dumped Rock Protection**

Use large spalls or boulders which have a least dimension of *[enter data]*mm.

[Consider the availability of rock sizes and specify size.]

**SSRW Clause 13.7 Quarter Tonne Class Dumped Rock Protection**

Use large spalls or boulders which meet the requirements of the following table.

|  |  |
| --- | --- |
| **Table – Rock - Size and grading** | |
| **Rock Size (weight)** | **Minimum % Larger Than Specified Size** |
| *[enter data]* kg | 90 |
| *[enter data]* kg | 50 |
| *[enter data]* kg | 0 |

[Consider the availability of rock sizes and specify size if default values are not available.]

**SSRW Clause 13.8 Rubble**

Dimensional tolerances are;

Maximum size of rubble to be *[enter data]* mm.

At least 30% by mass to have a nominal size of *[enter data]* mm or greater.

No more than *[enter data]*% by mass to pass the *[enter data]* mm sieve.

The average plane of the exposed face to be within *[enter data]* mm of that specified.

The exposed face to be within *[enter data]*mm of the average plane.

[Delete this clause if the information is on the drawings or if the information in the Std Spec is what is required.]

**SSRW Clause 13.9.2 Steel Wire Mesh for Gabions**

PVC coating: *[enter data]*

[Enter “Required” or “Not Required” . PVC coating can be deleted where abrasion of wire is not likely to be a problem. Additionally PVC coating may be deleted after due consideration of the likely long term deleterious effects on the wire of ground water, soil salinity, natural weather exposure and water immersion.]

Dimensions of gabions are to be: *[enter data]*

[State required dimensions, or state “As shown on drawings” if that is the case..]

**SSRW Clause 13.10.2 Steel Wire Mesh for Reno Mattresses**

PVC coating: *[enter data]*

[Enter “Required” or “Not Required”. PVC coating can be deleted where abrasion of wire is not likely to be a problem. Additionally PVC coating may be deleted after due consideration of the likely long term deleterious effects on the wire of ground water, soil salinity, natural weather exposure and water immersion.]

**SSRW Clause 13.12 Embankment Protection – Concrete**

Reinforcement *[enter data]*

[Enter “Required” or “Not Required”]

Margins *[enter data]*

[Enter “Included” or “Not Included”]

Adjacent protection work *[enter data]*

[Enter “Included” or “Not Included”]

**SSRW Clause 13.13 Margins**

Adjacent pavement *[enter data]* sealed.

[Enter “is” or “is not”]

**SSRW Clause 13.14 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 14 ROAD FURNITURE AND TRAFFIC CONTROL DEVICES**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 14.4 Tactile ground surface indicators**

[Indicate any special requirements for TGSI colours if not shown on drawings.]

**SSRW Clause 14.5 Fencing**

**SSRW Clause 14.5.2 Existing Fences**

Install a post at the intersection of new fence with existing fence and fix the wiring of both fences to that post.

Complete the necessary sections of new fencing before removing or opening a boundary or internal fence.

[Indicate which of the 2 preceding options is applicable.]

**SSRW Clause 14.5.6 Temporary Site Safety Fence**

[Indicate any special requirements for temporary site safety fences here..]

**SSRW Clause 14.6 Plastic Flexible Guide Posts**

**SSRW Clause 14.6.5.6 Delineators**

**Discrete device type retroreflectors**

The special hazards to be indicated by discrete device type retroreflectors are: *[enter data]*

[Indicate details here, or state that the hazards are on drawings.]

**Installation of Delineators**

Discrete device type retroreflectors installation requirements; *[enter data]*

[Indicate details here, or state that the installation details are on drawings.]

**SSRW Clause 14.7 Steel Flexible Guide Posts**

**SSRW Clause 14.7.5.6 Delineators**

**Discrete device type retroreflectors**

The special hazards to be indicated by discrete device type retroreflectors are: *[enter data]*

[Indicate details here, or state that the hazards are on drawings.]

**Installation of Delineators**

Discrete device type retroreflectors installation requirements; *[enter data]*

[Indicate details here, or state that the installation details are on drawings.]

**SSRW Clause 14.8 Testing of Flexible Guide Posts**

**SSRW Clause 14.8.1Tests**

Testing and associated reports must not be more than three years old as of the date of tenders unless otherwise approved by the Principal.

[This requirement is to take in to account that manufacturing processes and materials used during manufacture may change. The tests must be done on posts which are proposed to be provided under the contract. Guide posts of each type or model from each batch must be tested.]

**SSRW Clause 14.9 Road Signs**

**SSRW Clause 14.9.4 Materials**

**ADDITIONAL SIGN SIZES**

Road signs mounting pole sizes other than the sizes shown in the table **Roadside Signs - Mounting Selection** are:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table - Roadside Signs – Non Standard Mounting Poles Selection | | | | | | |
| **Location** | Sign size W x D (mm) | No. and NB Gal. Pipe Posts | Brackets or M8 bolts per post | Bracing req. (Yes/No) | Footing | |
| Depth (mm) | Dia. (mm) |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

[Delete this clause and the table if no non-standard pole sizes are required.]

**ANTI-GRAFFITI COATING**

**Hold Point –** Obtain Superintendent’s approval for the use of anti-graffiti film or coating products. Apply anti-graffiti products only to the new road signs specified by the Superintendent.

[All roads Project Officers BE AWARE that 3M warrants their road signs only if their anti-graffiti film is used. Use of non-3M anti-graffiti product voids the 3M warranty.]

**LATERAL PLACEMENT**

[Ensure the sign location is shown on the drawings and is designed to allow easy sighting, for ease of road maintenance, and in compliance with design requirements.]

**SSRW Clause 14.11 Cattle grids**

Refer to Civil Standard Drawings CS 3310 and CS 3312.

[Ensure that the required Standard Drawings are included. Delete reference to drawings not applicable to project.]

**SSRW Clause 14.14 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 15 BOAT RAMPS AND BARGE LANDINGS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 15.1.3 Definitions**

**Full tide access:** The facility is to be usable across the full tidal range.

The toe of the ramp is at LAT: - *[complete/edit]*m.

[Depth of ramp toe below LAT will be site specific. Show depth here if not on drawings. Delete if default value is acceptable.]

**SSRW Clause 15.2.1 Inspections - Notice**

Inspections are required for:

* *[complete/edit]*.

[Delete stages not in project. Add stages that are in project but not in list.]

**SSRW Clause 15.3.2 Survey**

**Witness point -** Provide copies of survey reports prepared for the works. This is not required for survey reports commissioned by the Principal or the Superintendent.

[A land survey and a hydrographic survey are required with enough detail and extent to locate services, natural and artificial features and determine contours. Indicate if (1) Not required, or (2) Provided by the Principal/Superintendent, or (3) To be provided by the Contractor.]

**SSRW Clause 15.3.4 Acid sulfate soil investigation**

**Witness point -** Provide copies of acid sulfate soil investigation reports prepared for the works. This is not required for acid sulfate soil investigation reports commissioned by the Principal or the Superintendent.

[An acid sulfate soil investigation for the determination of the liming rate or management strategy should be undertaken dependent on the volume of cut or site conditions. Indicate if (1) Not required, or (2) Provided by the Principal/Superintendent, or (3) To be provided by the Contractor.]

**SSRW Clause 15.4 Boat Ramp Geometry**

LAT: - *[complete/edit]*m.

[Depth of ramp below LAT will be site specific. Show depth here if not on drawings. Delete if default value is acceptable.]

**SSRW Clause 15.5 Barge Landing Geometry**

LAT: - *[complete/edit]*m.

[Depth of ramp below LAT will be site specific. Show depth here if not on drawings. Add any other relevant information if not included on drawings.]

**SSRW Clause 15.6 Components and Materials**

Source(s) of materials are: *[complete/edit]*

[Subject to site and availability of materials with consideration as to whether it is an urban or remote location. Note the deletion of components in the template specification but not in project. Add components that are in project but not listed in the specification.]

**SSRW Clause 15.6.1 Coffer dams, timbering, shoring, and sheeting**

Coffer Dams: *[complete/edit]*

Timbering: *[complete/edit]*

Shoring: *[complete/edit]*

Sheeting *[complete/edit]*

[Indicate items NOT REQUIRED in the works. Add details to items included in the works.]

**SSRW Clause 15.7 Earthworks in cut**

**SSRW Clause 15.7.3 Excavated material**

Disposal site/nourishment area: *[complete/edit]*

**SSRW Clause 15.7.4 Treatment of acid sulfate soils**

**SSRW Clause 15.7.4.2 Temporary bunding**

Temporary bunds: *[complete/edit]*

[Indicate REQUIRED or NOT REQUIRED].

**SSRW Clause 15.7.5 Extent of access channel extraction works**

Refer to the project drawings for the extent of the extraction area.

Sequence of extraction: *[complete/edit]*

Re-profiling sequence: *[complete/edit]*

Buffer zones: *[complete/edit]*

[Indicate REQUIRED or NOT REQUIRED or SHOWN ON DRAWINGS. If required provide details of requirements.]

**SSRW Clause 15.7.6 Access channel final profiles**

Access channel profiling: *[complete/edit]*

[Indicate REQUIRED or NOT REQUIRED or SHOWN ON DRAWINGS. If required provide details of requirements.].

**SSRW Clause 15.7.7 Excavation and re-profiling of difficult material**

Use of a non-standard method re-profiling of material which is difficult to excavate by conventional means: *[complete/edit]*

[Indicate REQUIRED or NOT REQUIRED or NOT YET KNOWN – TO BE ADVISED BY CONTRACTOR or SHOWN ON DRAWINGS. If this is known to be required provide details of approved extraction methods.]

**SSRW Clause 15.11 Cast in-situ concrete approach slab**

**SSRW Clause 15.11.3 Concrete design mix – barge landings**

Strength grade: *[complete/edit]* MPa at *[complete/edit]* days.

Minimum cementitious content: *[complete/edit]*kg/m³.

Maximum water cement ratio: *[complete/edit]*.

Nominal maximum aggregate size: *[complete/edit]* mm.

Target slump range: *[complete/edit]*- *[complete/edit]* mm.

Natural sand content of fine aggregates: Minimum *[complete/edit]*%.

[Enter details of concrete mix design for barge landings. If shown on drawings state that here.]

**SSRW Clause 15.15.3 Cast in-situ concrete shoulders and shoulder batters**

See above at SSRW 15.11.3.

Strength grade: *[complete/edit]* MPa at *[complete/edit]* days.

Minimum cementitious content: *[complete/edit]*kg/m³.

Maximum water cement ratio: *[complete/edit]*.

Nominal maximum aggregate size: *[complete/edit]* mm.

Target slump range: *[complete/edit]*- *[complete/edit]* mm.

Natural sand content of fine aggregates: Minimum *[complete/edit]*%.

[Enter details of concrete mix design for barge landings. If shown on drawings state that here.]

**SSRW Clause 15.15.4 Fully grouted stone pitched shoulders and shoulder batters**

Strength grade: *[complete/edit]* MPa at *[complete/edit]* days.

Minimum cementitious content: *[complete/edit]*kg/m³.

Maximum water cement ratio: *[complete/edit]*.

Nominal maximum aggregate size: *[complete/edit]* mm.

Target slump range: *[complete/edit]*- *[complete/edit]* mm.

Natural sand content of fine aggregates: Minimum *[complete/edit]*%.

[Enter details of concrete mix design. If shown on drawings state that here.]

**SSRW Clause 15.16 Shoulders and shoulder batters - stone pitched**

[Enter details if not shown on drawings. If shown on drawings state that here.]

**SSRW Clause 15.17 Ramp toe**

**SSRW Clause 15.17.1 Depth**

Ramp surface to extend to LAT: - *[complete/edit]*m.

Waterway bed to extend to LAT: - *[complete/edit]*m

[Depth of ramp below LAT will be site specific. Show depths here if not on drawings. Delete if default values are acceptable.]

**SSRW Clause 15.18 Rock armour**

**SSRW Clause 15.18.3 Size of rock**

Primary rock: *[complete/edit]*

Secondary rock: *[complete/edit]*

Toe rock: *[complete/edit]*

Core rock: *[complete/edit]*

[If the rock sizes are not shown on the drawings enter properties here. If shown on drawings state that here.]

**SSRW Clause 15.20 Retro-reflective raised pavement markers (RRPM)**

RRPMs:*[complete/edit]*

[Indicate REQUIRED or NOT REQUIRED or SHOWN ON DRAWINGS. If required provide details of requirements.]

**SSRW Clause 15.21 Navigational aids**

[Contact NT MSB for all details on navigational aids. Markings, colour, flash settings etc.]

**SSRW Clause 15.21.1 Navigational buoys**

[Contact NT MSB for all details on navigational aids. Markings, colour, flash settings etc.]

Diameter: *[complete/edit]*

[Select from:

* 600 mm.
* 700 mm.
* 800 mm.
* 1200 mm.
* 1250 mm.
* 1400 mm.
* 1500 mm.]

Top marks: *[complete/edit]*

[For example:

* Port
* Starboard
* Safe water etc.]

Solar lantern: *[complete/edit]*

[Select from:

* SL-15.
* SL-60.
* SL-70.
* SL-75.
* SL-C310.
* SL-C410.
* SL-C415.
* SL-C510.

Refer to manufacturer’s datasheets.]

Mould-in graphics: *[complete/edit]*

[“Property of the NT Government” etc.]

**SSRW Clause 15.21.2 Buoy positioning table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table - Buoy positioning | | | | | |
| **Buoy number** | **Latitude** | **Longitude** | **Type** | **Colour** | **Design water depth** |
| 1 | *complete* | *complete* | *complete* | *complete* | *complete* |
| 2 | *complete* | *complete* | *complete* | *complete* | *complete* |
| 3 | *complete* | *complete* | *complete* | *complete* | *complete* |
| 4 | *complete* | *complete* | *complete* | *complete* | *complete* |

**[Latitude and Longitude:** Consult with NT MSB.

**Type:** SL-B1500, Aquafloat 800 etc.

**Colour:** Red, Green, White, Yellow, Blue.]

**SSRW Clause 15.21.3 Solar marine lantern**

[Delete this clause if no solar marine lanterns are required in the project.]

Visibility: *[complete/edit]*

[Select from:

* 1-2 NM.
* 2-3 NM.
* 3-5 NM.
* 5-9 NM.

Refer to manufacturer’s datasheets.

Visibility (nautical miles) to NT MSB requirements.]

Signal colour to IALA E-200-1: *[complete/edit]*

[Select from:

* Red.
* Green.
* White.
* Yellow.
* Blue.

Colour to NT MSB requirements.]

Flash settings: *[complete/edit]*

[Flash settings to NT MSB requirements.]

[Contractor may be required to install poles for lanterns or lights to be mounted to. Poles are to be located as per project specific drawings and designed to suit location of installation to Superintendent’s approval.]

**SSRW Clause 15.21.4 Solar marine lantern power supply**

[Delete this clause if no solar marine lanterns are required in the project.]

Nominal voltage: 3.6 V

[Refer to manufacturer datasheets if a larger voltage is required.]

Battery capacity: *[complete/edit]*

[Select from:

* 2.4 Ah.
* 4.0 Ah.
* 8.0 Ah.
* 16.0 Ah.

Refer to manufacturer datasheets.

Battery capacity to NT MSB requirements.]

**SSRW Clause 15.21.5Sector lantern**

[Delete this clause if no sector lanterns are required in the project.]

Intensity: *[complete/edit]*

[Select from:

* 25%.
* 50%.
* 75%.
* 100%.

Intensity to NT MSB requirements.]

Flash settings: *[complete/edit]*

[Contact NT MSB for desired settings.]

GSM communications: *[complete/edit]*

[NT MSB to advise if a global system for mobile communications is required for specific site.]

**SSRW Clause 15.21.6 Sectored port entry light**

[Delete this clause if no sector port entry lights are required in the project.]

Intensity: *[complete/edit]*

[Select from:

* 25%.
* 50%.
* 75%.
* 100%.

Intensity to NT MSB requirements.]

Flash settings: *[complete/edit]*

[Contact NT MSB for desired settings.]

GSM communications: *[complete/edit]*

[NT MSB to advise if a global system for mobile communications is required for specific site.]

**SSRW Clause 15.21.7 Leading light**

[Delete this clause if no leading lights are required in the project.]

Length: *[complete/edit]*

[Select from:

* 600 mm.
* 1200 mm.]

Length to NT MSB requirements.]

Visibility: *[complete/edit]*

[Select from:

* Single row 8 NM.
* Double row 9 NM.
* Triple row 10 NM.

Visibility (nautical miles) to NT MSB requirements.]

Colour to IALA E-200-1: *[complete/edit]*

[Select from:

* Red.
* Green.
* White.
* Yellow.
* Blue.

Colour to NT MSB requirements.]

Intensity: *[complete/edit]*

[Select from:

* 25%.
* 50%.
* 75%.
* 100%.

Intensity to NT MSB requirements.]

Flash settings: *[complete/edit]*

GSM communications: *[complete/edit]*

[NT MSB to advise if a global system for mobile communications is required for specific site.]

**SSRW Clause 15.22 Completion**

**SSRW Clause 15.22.1 Operation and maintenance manuals – Hold Point**

Additional operation and maintenance manuals and maintenance schedules to be provided:

* *[complete/edit]*
* *[complete/edit]*
* *[complete/edit]*

[Add and delete from the list as required for specific project.]

**SSRW Clause 15.23 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 16 PAVEMENT MARKING**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 16.16 Resurfacing Contracts**

Included / Not included *[complete/edit]*

[Delete one option. Add any additional requirements or any alteration to the reference text.]

**SSRW Clause 16.18 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 17 LANDSCAPE**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 17.1 Landscape Defects Liability Period**

The defects liability period for the Landscaping portion of the works is: *[enter data].*

[Select one of the following 3 options; (a)13 weeks from practical completion of the landscaping works OR (b) The same as for the entirety of the works but not less than 13 weeks from practical completion of the landscaping works OR (c) To dd/mm/yyyy.]

**SSRW Clause 17.6 Grassing**

**SSRW Clause 17.6.1 Ground Preparation**

Fertilizer application rate: *[enter data]* kg/hectare.

[Specify the fertilizer application rate.]

**SSRW Clause 17.12 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 18 DUCTING AND CONDUITS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 18.3 Supply and Installation**

There are no kerbs. Terminate duct crossings *[enter data]* .

[Enter information on terminations of duct crossings, or refer to drawings if information is on drawings. Delete if there are kerbs.]

**SSRW Clause 18.6 Electrical Ducting**

Special requirements are *[enter data]* .

[Enter information on requirements not included in Standard Specification. Delete if there are none..]

**SSRW Clause 18.9 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 19 TRAFFIC CONTROL SIGNALS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 19.11 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 20 TRAFFIC COUNTING STATIONS**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 20.11 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 21 STREET LIGHTING**

[Add changes to the existing clauses in this section here, in correct number order.]

**SSRW Clause 21.4 Materials**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Clause 21.10 Existing Street Lighting**

**SSRW Clause 21.10.1 Disconnection and Removal**

Deliver the salvaged materials to *[enter data]* .

[Provide address / location of shed / yard for delivery of salvaged items.]

**SSRW Clause 21.13 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 22 DIRECTIONAL BORING**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Clause 22.5 Testing of Services**

Additional tests required are: *[enter data]* .

[Indicate if no additional tests are required. Add any additional requirements or any alteration to the reference text]

**SSRW Clause 22.8 Other Requirements**

[Add any additional requirements or any alteration to the reference text]

**SSRW Section 23 PROTECTIVE COATINGS**

**SSRW Clause 23.3 Protective coatings**

**Site testing of protective coatings**

To AS 3894.10 and AS 3894.11 and AS 3894.12.

Required or not required: *[enter data].*

**SSRW Clause 23.3.3** **Inorganic zinc silicate**

Required or not required: *[enter data].*

[Enter details of items to be coated, locations of those items, and coatings to be applied.]

**SSRW Clause** **23.4 Tables - Protective coatings specifications - systems and approved products**

Requirements are; *[enter data].*

[Enter details of project region classification (arid, inland, coastal), and specifications of coatings to be applied, and components to be coated.]

**SSRW Clause 23.20 Other Requirements**

[Add any additional requirements or any alteration to the reference text]

**SSRW Section 24 MEASUREMENT AND PAYMENT**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Clause 24.4 Earthworks**

**SSRW Clause 24.4.6 Select Fill**

Refer to **SSRW Clause 4.6.3** in this worksection.

or

Provide select fill conforming to *[enter data]*

[Delete one option.]

**SSRW Clause 24.6 Pavements and Shoulders**

**SSRW Clause 24.6.2 Reconstruction and Rehabilitation of Existing Pavements**

Refer to **SSRW Clause 6.5.2** and to **SSRW Clause 6.5.3** in this worksection.

[Indicate if measured at stockpile or loaded vehicle.]

**SSRW Clause 24.7 Stabilisation And Modification**

**SSRW Clause 24.7.2 Supply and spread binder**

Method of supply and spread of binder: *[enter data]*

[Indicate method if not in-situ. Delete if in-situ methods used.]

**SSRW Clause 24.8 Spray Sealing**

**SSRW Clause 24.8.3 Prime, Primer Seals, Seals, Pre-coats, and Enrichment Coats**

Refer to **SSRW Section 8** in this worksection.

**SSRW Clause 24.8.10 Sealing Aggregate**

Measured at *[enter data]*

[Indicate if measured at stockpile or loaded vehicle.]

**SSRW Clause 24.11 Miscellaneous Concrete**

Additional items: *[enter data]*

[Indicate additional items not listed in this section of MEASUREMENT AND PAYMENT.]

**SSRW Clause 24.14 Road Furniture and Traffic Control Devices**

**SSRW Clause 24.14.2 Fencing**

Types of fences *[enter data]*

[Indicate types of fences.]

**SSRW Clause 24.14.7 Road Signs – Supply and Install**

Types of signs *[enter data]*

[Indicate types of signs.]

**SSRW Clause 24.14.10 Cattle Grids**

Sizes of cattle grids *[enter data]*

[Indicate sizes of cattle grids.]

**SSRW Clause 24.15 Boat Ramps and Barge Landings**

Adjustments to measurement and payment required are: *[enter data]*

[Add any additional requirements or any alteration to the reference text.]

**SSRWSSRW Clause 24.23 Protective Coatings**

Systems required are: *[enter data]*

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 25 REFERENCED AUSTRALIAN STANDARDS**

**SSRW Clause 25.1 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 26 OTHER REFERENCED AUTHORITIES AND DOCUMENTS**

**SSRW Clause 26.1 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 27 ACTS, REGULATIONS, CODES, AND AUTHORITIES**

**SSRW Clause 27.4 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 28 CIVIL STANDARD DRAWINGS FOR ROADWORKS**

**SSRW Clause 28.1 Other Requirements**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 29 NT CLIMATE ZONES TABLE**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 30 HOLD POINTS AND WITNESS POINTS SCHEDULES**

[Add any additional requirements or any alteration to the reference text.]

**SSRW Section 31 UPDATES OVERVIEW**

[Add any additional requirements or any alteration to the reference text.]