



**Supplementary Specification**

**MRC Supplementary Specification**

**8105 Alterations to Existing Drainage Structures**

Revision 3.0

**January 2026**



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## 8105.1 Introduction

This supplementary specification relates to works for the alteration of existing stormwater infrastructure including backfilling as a result of works required through operational activities or detailed on the project drawings.

### 8105.1.1 Definition of Terms

The following terms apply specifically to this specification;

| Term                        | Definition                                                                                                                                                                                                                                                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Existing Drainage Structure | For the purposes of the specification to mean any culverts, manholes, headwalls, and concrete lined open drains.                                                                                                                                                         |
| Works Site                  | For the purpose of this specification to mean all areas which requires labour, plant, and materials to carry out works associated with the alteration to existing drainage structures, including access to and area around the infrastructure to be altered or modified. |

## 8105.2 Referenced Documents

This supplementary specification shall be read in conjunction with the following:

- MRS01 "Introduction to Specifications";
- MRTS01 "Introduction to Technical Specifications";
- MRS03 and MRTS03 "Drainage, Retaining Structures and Embankment Slope Protections";
- MRS04 and MRTS04 "General Earthworks";
- MRS05 and MRTS05 "Unbound Pavement";
- MRS11,12,20,21,22 & MRTS11,12,20,21,22 as applicable for seal treatment;
- MRS14 and MRTS14 "Road Furniture";
- MRS30 & MRTS30 "Asphalt Pavements";
- MRS45 and MRTS45 "Road Surface Delineation";
- MRS51 and MRTS51 "Environmental Management";
- MRS70 and MRTS70 "Concrete";
- MRS71 and MRTS71 "Reinforcing Steel";
- Mackay Regional Council's Standard Drawing A4-00043 "Property Drainage Connection to MRC Pipes";
- The Project Drawings.

## 8105.3 Description and Measurement of Work Items

Work items incorporated by this supplementary specification are identified in Section 8105.6 and 8105.7 with individual activities/tasks for measurement and payment sourced from the Bill of Quantities and listed in MRC Supplementary Specification Annexure 8105\_1 Alterations to Existing Drainage Section 1.

## 8105.4 Quality Systems Requirements



#### 8105.4.1 Std Test Methods (Testing Regime)

The following minimum testing regime applies to this specification:

Concrete works shall be tested as required by MRTS70, civil works activities (including embedment and backfilling to structures) associated with the alterations to existing drainage structures shall be tested as per MRTS03 and MRTS04 unless otherwise approved by the Superintendent. Where works scope requires rectification of pavement and surface seal these shall be supplied and constructed, as required by the relevant MRTS Specification for that activity, including all testing, inspections, and tolerances.

#### 8105.4.2 Hold Points, Witness Points and Milestones

##### 8105.4.2.1 Milestone

Milestone is a point within a project which marks the start or completion of an activity or compliance requirement. Generally associated with provision of records or data for verification with the projects contract and specification.

##### 8105.4.2.2 Hold Points

Hold points are noted on various Sections of this Specification.

“**HOLD POINTS**” are critical stages of the work, which require inspection by the Superintendent (or his nominated representative) and beyond which the Contractor will not be permitted to proceed without the written approval of the Superintendent.

A written “request for inspection” form shall be submitted to the Superintendent at least 48 hours prior to reaching the relevant “**HOLD POINT**”. One copy shall be submitted for each inspection. The signed copy will be handed back to the Contractor after the inspection to sanction work to proceed to the next stage or noting what work has to be done prior to re-inspection. This may involve inspection of the works by the Superintendent or approval of test results forwarded to the Superintendent by the Contractor.

##### 8105.4.2.3 Witness Points

Witness points are also important stages of work. However, these are not necessarily as critical work stages as defined by the hold points. Witness points are where the Superintendent (or his/her nominated representative) may review, witness, and inspect the work. The activities however may continue to proceed.

The following table represents the minimum inspection requirements for this specification;

| Activity                                                                  | Inspection Type | When                                                                            | Reference  |
|---------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------|------------|
| Construction Procedure and other submissions as required by Clause 8105.5 | Milestone       | 4 Weeks prior to works commencing                                               | 8105.5     |
| Contractors personnel                                                     | Hold Point      | After initial submission, 10 days prior to specific works activities commencing | 8105.5.2   |
| Pre and Post works Notifications to approving authorities                 | Hold Point      | Prior to works commencing and at the completion of works                        | 8105.5.4.1 |
| Safe method of work (risk assessment) submission                          | Milestone       | 4 Weeks prior to works commencing                                               | 8105.5.5.4 |
| Inspection of delivered                                                   | Hold Point      | At delivery time for each item.                                                 | 8105.6.2.1 |



| Activity                                                                             | Inspection Type | When                                                                                                                                                        | Reference  |
|--------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| items                                                                                |                 |                                                                                                                                                             |            |
| Works procedure discussions                                                          | Hold Point      | Formal meeting prior to works commencing                                                                                                                    | 8105.6.2.2 |
| Site layout, dilapidation report, and WH&S inspection                                | Hold Point      | Site inspection prior to commencing                                                                                                                         | 8105.6.3   |
| Salvage and storage of drainage components                                           | Hold Point      | Prior to any demolition works commencing                                                                                                                    | 8105.6.4   |
| Demolition of Existing Components                                                    | Hold Point      | After removal of components for storage or reuse                                                                                                            | 8105.6.5   |
| Excavation to level and grade                                                        | Hold Point      | Prior to modification of drainage structure                                                                                                                 | 8105.6.6   |
| Base excavation floor (unsuitable material)                                          | Hold Point      | At completion of excavation and compacting                                                                                                                  | 8105.6.6   |
| Approval to proceed with reconstruction of structure (as required)                   | Hold Point      | Prior to structure being reconstructed and after RPEQ design approved                                                                                       | 8105.6.7   |
| Inspection of modified drainage structure prior to approval to backfill              | Hold Point      | After reinstatement and sealing of structure and associated components                                                                                      | 8105.6.7   |
| Compliance with MRTS03 & MRTS04                                                      | Hold Point      | During activities associated with pipe laying including foundation, bedding, backfilling of embedment zones                                                 | 8105.6.7   |
| Compliance with MRTS70 and MRTS71                                                    | Hold Point      | During activities associated with excavation, setting up formwork and reinforcing, pouring, finishing, and curing of concrete works for required structures | 8105.6.7   |
| Reconstruction of infrastructure, RPEQ design and approval (as required)             | Hold Point      | At completion of works for submission with "As Constructed" detail                                                                                          | 8105.6.7   |
| Backfilling procedure carried out as per specification and submitted works procedure | Witness Point   | During backfilling process                                                                                                                                  | 8105.6.8   |
| Reinstatement of all salvaged components identified for reuse.                       | Witness Point   | During structure reinstatement works                                                                                                                        | 8105.6.8   |
| Subgrade approval and proof roll as applicable to site (as required)                 | Hold Point      | Prior to pavement works and after submission of any QA documentation                                                                                        | 8105.6.9   |



| Activity                                                                     | Inspection Type | When                                                                                                            | Reference |
|------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|-----------|
| Kerb reinstatement prepour inspection (as required)                          | Hold Point      | Prior to kerb pouring works and after submission of any QA documentation                                        | 8105.6.9  |
| Pavement reinstatement and proof roll as applicable to site (as required)    | Hold Point      | Prior to surface seal works and after submission of any QA documentation                                        | 8105.6.9  |
| Surface seal works pavement inspection and approval to proceed (as required) | Hold Point      | After approval to proceed based on seal design, time lapse requirements of primer seal, and pavement inspection | 8105.6.9  |
| Approval to lay asphalt where proposed                                       | Hold Point      | After primer seal curing has occurred                                                                           | 8105.6.9  |
| Laying of asphalt                                                            | Witness Point   | During asphalt works                                                                                            | 8105.6.9  |
| Road furniture and line marking reinstatement (as required)                  | Hold Point      | At completion of all rectification works                                                                        | 8105.6.9  |
| Clean Work Site                                                              | Hold Point      | At completion of works                                                                                          | 8105.6.10 |
| "As Constructed" documentation                                               | Hold Point      | 4 weeks prior to practical completion being requested.                                                          | 8107.2    |
| ESC Measures approved to be removed                                          | Hold Point      | As required by Environmental Plan and approved by Superintendent                                                | 8105.7.3  |

#### **8105.4.3 Construction Tolerances**

Unless otherwise approved by the Superintendent the following construction tolerances shall apply as to this Specification.

The construction activity outcome shall not depart from the widths, lengths, heights, and shapes specified by the relevant specifications as applies to this specification.

- Backfilling and earthworks operations tolerances in accordance with MRTS04 General Earthworks.
- Bedding, laying, and backfill to culvert tolerances in accordance with MRTS03.
- Concrete, reinforcing, and formwork in accordance with MRTS70 Concrete
- Pavement supply, laying and compacting in accordance with MRTS05 (as required by works)
- Seal treatment in accordance with relevant MRT Specification for the proposed seal type (as required by works)

Tolerances which are specific to the project are detailed on the design drawings and are included in Clause 2 of MRC Supplementary Specification Annexure 8105\_1 Alterations to Existing Drainage



## **8105.5 Preliminary**

The Contractor is to submit the following documentation 4 weeks prior to commencing work or a prestart is conducted.:

- Construction procedure covering all facets of drainage works required to alter and reinstate existing drainage structures and associated pavement and seal;
- Contractor's personnel experience, qualification, skills and training (10 days prior to undertaking work on site);
- Environmental Management Plan;
- Approval from Government bodies for the works and the methodology of the works (as required);
- WH&S works procedures and confined space permit (as required);
- Erosion and Sediment Control Plan (as required for site/s);
- Traffic Management Plan and TGS's (as required);
- Pit reconstruction works requiring design and RPEQ signatory.

### **MILESTONE**

Other preliminary requirements unique to the project will be listed in the MRC Supplementary Specification Annexure 8105\_1 Alterations to Existing Drainage

### **MILESTONE**

### **8105.5.1 Materials**

Supply of all materials to site is the responsibility of the Contractor at their cost, where items are Principal supplied the nominated storage site shall be obtained from MRC Supplementary Specification Annexure 8105\_1 Alterations to Existing Drainage Section 3 and shall be the point of supply.

Embedment and backfill material shall conform to the requirements of MRTS03 and MRTS04 for the activity being carried out.

Concrete and reinforcing shall conform to the requirements of MRTS70, MRTS71, and MRTS03. Where glues and sealants are required, these shall comply with their recommended use and the manufacturers requirements and be used as set out in the approved construction procedure submitted to Council.

The Contractor shall ensure grout used is of an approved high strength grout fit for purpose and recommended use as per the manufacturers requirements and be used as set out in the approved construction procedure submitted to Council. Use of any other product shall be approved by the Superintendent.

Where required due to the extent of works, pavement, kerbing, and seal surfacing materials shall conform to the relevant MRTS Specification or MRC Supplementary Specification.

### **8105.5.2 Works Procedure**

The Contractor shall prepare a works procedure for all activities required under this specification which also address WH&S specific requirements for the site, this shall include but not be limited to the following;

- i. Site setup, including traffic management and public consultation;
- ii. Identification of underground utilities and parks/road furniture which impact the works and the proposed treatment to address the impacts;
- iii. Proposed method of breaking into a manhole, pipe, or drainage structure;
- iv. Individual activity construction procedures, demolition and reconstruction of existing, drainage, concrete works, testing and inspections as required;



- v. Method and procedure for fixing/bonding any break-in joints;
- vi. Timeline of works;
- vii. Collection of “As Constructed” data.

The works procedure shall be submitted to the Superintendent for approval four (4) weeks prior to site works commencing.

#### **MILESTONE**

##### **8105.5.3 Contractor’s Personnel**

Personnel, sub-contractors and suppliers utilised in the alteration to existing drainage structure/s shall be experience in the repair/construction of reinforced concrete structures, and alternative materials such as but not limited to FRC, polypropylene, polymers, Upvc, and PVC.

The Contractor shall provide documented evidence for the Superintendent’s approval to demonstrate the experience, qualification, skills and training of proposed personnel, sub-contractors a minimum 4 weeks prior to works commencing and then at least 10 working days prior to the relevant personnel, sub-contractors and suppliers undertaking works on the project as works are scheduled to commence.

#### **HOLD POINT**

##### **8105.5.4 Provision for Working in and Around Water**

The Contractor is to be aware of the following when performing the required works.

###### **8105.5.4.1 Inundation**

The structures may be subject to inundation from:

- Stormwater flow from rainfall events. The works may need to be secured at all times for this occurrence and work sites evacuated while the stormwater passes.
- Tidal water inundation in tide-affected locations. This will restrict the available time for the work to be completed and the structure may need to be evacuated in the event of this inundation. Note also options for flow restriction for the categories of waterway in the accepted development requirements for operational work that is constructing or raising waterway barrier works.
- Standing water in drainage systems. The Contractor shall be responsible and may need to make provision in their WMS for dewatering work sites subject to inundation from standing water to enable works to proceed.
- Any temporary bunding installed during works must take into account the relevant time restrictions referred for declared waterway categories in the Accepted Development Requirements for operational work that is constructing or raising waterway barrier works
- Similarly, restrictions exists for vegetation removal for carrying out works under the Accepted Development Requirements for operational work that is constructing or raising waterway barrier works. The Contractor shall acquaint themselves with the areas to which such works can be undertaken and ensure no works are undertaken outside of such zones.

###### **8105.5.4.2 Electrical Hazard**

Working with electrical tools may be restricted when a site is affected by water. There may be low levels of continual water flow in the drainage structure for extended periods of time. The Contractor shall make the necessary arrangements to ensure a safe workplace at all times.

###### **8105.5.5 Environmental**

The Contractors Environmental Plan shall be reflective of the requirements of MRTS51 and MRS51 and be submitted for approval by the Superintendent 4 weeks prior to site works commencing.

**MILESTONE****8105.5.5.1 General**

The Contractor shall remove all rubbish, debris, disused materials etc., from the Site. The Site shall be maintained in a clean state.

The Contractor shall be responsible for ensuring no debris is deposited on public or private rights of way because of the works, including any deposits arising from the movement of plant and vehicles.

The Contractor shall keep pollution in the vicinity of the Works within reasonable minimum limits noting that this clause does not exempt the Contractor from complying with the limits controlled or required by legislation.

The Contractor shall collect, transport and dispose of waste at a registered waste facility.

The Contractor is responsible for lodgement of all Pre and Post Works notification requirements under the relevant Accepted Development, Tidal Works or Operational Works approvals and shall not proceed until all approvals are provided to the Superintendent.

**HOLD POINT****8105.5.5.2 Noise and dust control**

All plant and equipment supplied by the Contractor for use on the Works shall be selected to ensure nuisance caused by noise is minimised. The use of plant and equipment shall meet the relevant noise control legislation.

The Contractor shall minimise nuisance caused by dust and shall provide measures necessary to avoid nuisance caused by dust to the public and surrounding environment. Complaints shall be handled and recorded as per the Contractors management plans,

The Contractor must ensure access is maintained for residents at all times.

**8105.5.6 General Workplace Health and Safety Requirements**

As a condition of this document, it is required that the Contractor and its workers (including all sub-contractors etc., and their workers) engaged to perform a service or work on site must at all times ensure (so far as reasonably practicable) the health and safety of all persons who are, or may be, affected by work under this Supplementary Specification or the services provided.

**8105.5.6.1 Legislative Compliance**

Without limiting the Contractor's other obligations, the Contractor must comply with all Acts, Regulations, Standards and Codes of Practice about work health and safety matters that are applicable to the scope of work undertaken or services being provided.

**8105.5.6.2 Council Work Health Safety Contractor Requirements**

As a minimum, the Contractor must ensure they and their workers (including all Contractor's sub-contractors etc.) comply with the following work health and safety requirements:

- Undertake Council Contractor and site inductions prior to commencing work.
- Ensure all workers are competent, and provide proof of competencies, licenses, and training on request.
- Have an approved safe system of work (including risk assessment) for the task and ensure the work is completed according to this safe system of work.
- Provide adequate supervision for all high-risk construction tasks.
- All incidents and near misses are to be reported to their Council representative within 60 minutes.



- Participate in Contractor pre-start meetings, safety interactions, site meetings and site inspections.
- Review information provided by Council such as site-specific hazards, risks and interaction issues and implement controls to, so far as reasonably practicable, eliminate, or if that is not possible, mitigate the risk.
- Supply safe plant and equipment with pre-start checks, maintenance/ service records and manufacturer's manual.
- For all hazardous chemicals, ensure current Safety Data Sheets (SDS) are available and that appropriate controls (including as required under SDS requirements) are implemented.
- Comply with Council Safety, Drug and Alcohol and Fitness for Work policies.
- Be familiar with applicable site emergency procedures, closest emergency assembly point and sign in and out of site registers where required.
- Compliance with any reasonable direction given by Council relating to work health and safety.

#### **8105.5.6.3 Permits for Work**

The Contractor must ensure applicable permits for the various work activities are completed and approval issued by the statutory body prior to commencement of those works, all requirements for submission, completion, and obtaining permits shall be at the Contractors cost.

Where Council has already obtained a permit for works the Contractor must give written notification to the relevant authority/s of the intention to commence works, a copy of the correspondence shall be submitted to the Superintendent for their records.

#### **8105.5.6.4 Safe Systems of Work / Risk Assessment**

The Contractor must prepare and submit a safe method of work (risk assessment) and relevant controls prior to commencement of work.

The completed risk assessment is to be provided to the Superintendent for review and approval prior to works commencing. Safe Work Method Statements (SWMS) are required for all high-risk construction activities (e.g. entry and work within manholes) and Job Safety Analysis (JSA) or similar risk assessments are required for other tasks. The risk assessment (whether SWMS, JSA or other) must be reviewed and signed by the workers prior to undertaking the work.

#### **MILESTONE**

The Contractor shall implement a Safety Management System (SMS) that includes sections addressing the project scope.

### **8105.6 Construction**

This section lays out the works operations with more detail based on specific requirements of this supplementary specification. Some activities may appear to include items which are stated within other specifications, the purpose is to reinforce that requirement specific to this supplementary specification.

Alterations to existing drainage shall be carried out in the locations and in accordance with the details shown on the design drawings and respective specifications for that activity. Where design drawings show a lack of detail or the works are carried out without design drawings the contractor shall supply as part of their works procedure alterations intended for each drainage infrastructure proposed to be altered.



#### **8105.6.1 Work Scope**

The following list of work activities are covered by this specification, the list is not exhaustive and do not cover all work activities and should only be used to give a broad picture of the activity scope;

- Break into culvert and connect - Branch line (generally house stormwater drainage) to be no greater than 1/3 diameter of main line, greater than this a new pit is to be installed.
- Break into pit and connect – Repairing existing pit.
- Break into pit and connect – Constructing new pit.
- Break into culvert/s – Build a new pit.
- Break into a concrete lined drain with new stormwater line outlet – Culvert installed and concrete cut to suit batter slope, with or without a floodgate to be installed.
- Break into existing headwall with new outlet – Construct new headwall.

#### **8105.6.2 Work Operations**

Work operations incorporated in this item are those included in Clause 2.1.5 of MRS01 “Introduction to Standard Specifications” and the following work scope activities and associated sub activities;

##### **8105.6.2.1 Supply of All Materials**

All materials, plant, and labour required to carry out the works under this Specification is to be supplied by the Contractor, where materials are Principal supplied the designated storage site will be the point of supply for the purposes of this Specification.

Where new culverts, headwalls, and floodgates are required as indicated on the design drawings or as directed by the Superintendent all items shall be inspected at delivery to site prior to use. Any items which are damaged are not to be used and are to be returned to the supplier.

**HOLD POINT**

Grout, glues, and sealants are to be stored as required by the manufacturers specification or guidelines.

##### **8105.6.2.2 Works Procedure and Discussions**

While the Council requires submission of a works procedure 4 weeks prior to site works commencing the following items should be addressed and discussed at a formal prestart meeting prior to works commencing;

- Live culvert and pit treatment, stormwater flows
- Clarification of extent of alterations to existing infrastructure,
- Peripheral infrastructure (including earthworks and site access) which will be affected needing reinstatement,
- Suitability of proposed plant and gear to carry out works.

**HOLD POINT**

##### **8105.6.3 Site Layout with Superintendent**

The final location of the proposed alteration to the existing drainage structure is to be marked out on site and shall be inspected and approved by an MRC representative prior to excavation or demolition commencing.

**HOLD POINT**

Prior to and as part of this inspection the contractor shall supply a dilapidation report with photos to the Superintendent which will detail the condition of the infrastructure prior to commencing site works.

**HOLD POINT**



The Superintendent will carry out a site review with the Contractor of the proposed WH&S requirements of the work procedure to verify all requirements and permits are in place to ensure the safety of workers and the public.

**HOLD POINT**

#### **8105.6.4 Removal and Storage of Existing Components/Covers**

Prior to commencing excavation, breaking in or demolition of existing infrastructure the contractor shall carry out required works to salvage all components which can be removed including the covers and store for reuse as required by the design drawings, where there is a lack of detail the Superintendents instructions shall apply.

**HOLD POINT**

#### **8105.6.5 Demolition of Existing Components, as required**

After removal of salvageable components, the contractor shall carry out all works required to excavate, take up, and dispose of existing components to carry out the required works. The disposal site shall be the nearest Council transfer station or civil waste storage site as approved by the Superintendent.

The contractor shall carry out demolition works which avoids damage to adjacent infrastructure. Prior to reinstatement works commencing the Superintendent shall inspect the infrastructure for damage arising from the demolition works. Any damage identified as a result of this inspection shall be rectified at no cost to the principal.

**HOLD POINT**

#### **8105.6.6 Carrying Out Excavation to Design Depth and Alignment**

Excavations for the stormwater infrastructure are to be carried out level and grade are as per design drawings, vertical tolerances shall not exceed +/-10mm, horizontal tolerances +/- 100mm where reconstruction of the outlet infrastructure is required, +/-25mm where outlet structure is only pierced and to be retained.

**HOLD POINT**

Bed/Subgrade is to be inspected for areas of unsuitable material, if unsuitable material is identified this is to be removed and replaced with approved material as per the instructions of the Superintendent.

**HOLD POINT**

#### **8105.6.6.1 Utilising or Disposing of Excavated Material**

Excess excavated materials shall be disposed of by the contractor or utilised as per Superintendents instructions. Material stockpiled shall ensure that all Environmental ESC measures are in place and maintained.

#### **8105.6.7 Modifying drainage structures as detailed in the drawings, as required**

Where the break in to an existing culvert is required MRC standard drawing A4-00043 shall apply, all break ins including to stormwater pits shall be carried out neatly and to the appropriate size to accommodate the proposed incoming infrastructure, and shall be as approved in the Contractors works procedure.

Alterations to existing drainage shall be carried out as per the design drawings, where there is a lack of detail the Contractor shall allow for and carry out the extent of works required as detailed in their works procedure, this includes RPEQ endorsement where required prior to works commencing.

**HOLD POINT**

Where unapproved works are carried out to alter or modify the drainage structure/s beyond the details of the design drawings or as proposed by the contractors work procedure this shall be at no cost to the Principal, and shall be RPEQ endorsed as required.



All works carried out to breaking in, modifying the structure, and sealing shall form part of the scope of works. Sealing works are to use appropriate high strength grouts and sealants. The Superintendent will be presented with the reinstated works both internally and externally to the drainage structure prior to backfilling commencing, no backfilling shall commence until the Superintendent has given approval to proceed.

**HOLD POINT**

Where works require reconstruction of pits or headwalls the works shall be in accordance with the design plans and carried out as required by MRTS70, MRTS71, MRTS03, and MRTS04 with all testing and inspection as required by these specifications. The contractor shall list these in their quality plan. Approval to proceed shall only be granted by the Superintendent when the various inspections occur, and test results are submitted.

**HOLD POINT**

Where during work activities any existing culverts, pits, headwalls, or components are damaged which were not identified prior to the commencement of the works, they shall be reinstated by the contractor at no cost to the principal, this also includes where RPEQ endorsement is required (submitted drawing and completed works), no works acceptance will be granted unless this requirement is complied with.

**HOLD POINT**

#### **8105.6.8 Backfilling and Finishing to the Design Surface Level, and Replacement of Stored Covers, as required.**

Where alterations to the existing drainage requires reinstatement of the embedment and backfilling to the structures to design surface level or existing levels this shall be carried out in accordance with MRTS03 and MRTS04, with inspections, geotechnical testing and survey requirements applying unless otherwise stated in MRC 8105\_1 Alterations to Existing Drainage Annexure.

**WITNESS POINT**

All components identified for reuse shall be reinstated as per the design drawings or to the satisfaction of the Superintendent.

**WITNESS POINT**

#### **8105.6.9 Earthworks and Pavement Reinstatement Works, as required**

Earthworks to structure shall be carried out as per MRTS04 as required by the site reinstatement works. The subgrade is to be presented for inspection by the Superintendent, the Superintendent shall decide if a proof roll is required.

**HOLD POINT**

Where kerbing needs to be reinstated this shall be carried out as per MRTS70 and MRTS03, the bed of the kerb is to be presented for inspection by the Superintendent. The kerbing shall be restated to the line and grade as existed prior to works commencing, any change to the line and level shall be at the approval of the Superintendent.

**HOLD POINT**

The supply, lay, compact, and trim pavement shall be carried out as per MRTS05 as required by the site reinstatement works. The pavement is to be presented for inspection by the Superintendent, the Superintendent shall decide if a proof roll is required.

**HOLD POINT**

Finished pavement surface shall be trimmed and finished to +/- 5mm's against kerbing.

Seal design is to be submitted to MRC 14 days prior to pavement inspection being requested.

**HOLD POINT**



Seal works are to be carried out as per the relevant TMR Specification and design drawings unless otherwise directed by the Superintendent, inspection of surface shall be carried out by the Superintendent prior to seal works commencing.

**HOLD POINT**

The Superintendent shall give the approval to proceed where Asphalt works are proposed and after the required time has lapsed after primer seal.

**HOLD POINT**

All asphalt works are to be carried out and comply with the requirements of MRTS30

**WITNESS POINT**

Line marking and signage shall be carried out in accordance with MRTS45 and MRTS14 respectively and the design drawings unless otherwise directed by Superintendent.

**HOLD POINT**

#### **8105.6.10 Clean work site**

The site is to be cleaned of all debris, excavated material, and construction materials and returned to its natural state prior to works occurring.

Disturbed areas are to be rehabilitated as required by the design drawings and erosion and sediment control measures installed as per the Contractors approved Erosion and sediment control Plan and as directed by the Superintendent.

**HOLD POINT**

### **8105.7 Post construction**

Items which close out the project, and readies the project for the “On Maintenance” inspection. All items below **MUST** be complied with prior to the Contractor requesting an “On Maintenance” inspection and/or as required during the Defects/Liability (On Maintenance) period.

#### **8105.7.1 RPEQ Signatory of Works (as required)**

Works which have required RPEQ endorsed designs must also have RPEQ endorsement of the reconstruction of the structure/s, this is to be submitted to Council as part of the “As Constructed” documentation.

#### **8105.7.2 Collection and Submission of all As Constructed Data including QA Data Requirements.**

Contractor is to supply and submit “As Constructed” documentation as required by *MRC D20 - Drawings and Documentation* for approval by the Superintendent 4 weeks prior to requesting an “On Maintenance” inspection.

Format of submitted “As Constructed” documentation shall be compliant with MRC Supplementary Specification 8919.

**HOLD POINT**

#### **8105.7.3 Erosion and Sediment Control Plan**

ESC measures are to be kept in place and maintained until the Superintendent approves of the removal of such measures.

**HOLD POINT**



## 8105.8 Measurement and Payment

Provision for these works shall be included in the scheduled unit rate for the items show in Clause 8105.3 of this Supplementary Specification and Annexure. No separate payment will be made for the works operations specified within this Supplementary specification or it's annexure.

Version Control:

| Version | Description               | Reviewed / Endorsed | Date       |
|---------|---------------------------|---------------------|------------|
| 1.0     | Review                    | MRC                 | 23.11.2012 |
| 2.0     | Specification review      | C. Sultana          | 10.01.2024 |
| 3.0     | Full Specification review | C. Sultana          | 10.01.2026 |