

Supplementary Specification

MRC Supplementary Specification

8101 Galvanised RHS Pipes and Fittings

Revision 3.0

May 2026



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8101.1 Introduction

This supplementary specification refers to the supply and installation of galvanized RHS pipes and associated fittings, for property drainage purposes only. For connection of roof water or property drainage to kerb or drainage components refer to MRC Supplementary Specification 8102.

8101.1.1 Definition of Terms

The following terms apply specifically to this specification;

Term	Definition
RHS Pipe	Rectangular Hollow Section Pipe, usually made of steel which has been galvanised to resist rusting
uPVC	Unplasticised PVC (uPVC) pipes and fittings for stormwater or surface water applications
Kerb Adaptor	Proprietary device installed into kerb with the same profile connecting the stormwater pipe/s to the kerb
Minor Works Permit	Approved permit issued by Council which details conditions of works for the installation of stormwater to Council's assets.

8101.2 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 Protective Treatments"*;
- MRS04 and MRTS04 *"General Earthworks"*
- MRS70 and MRTS70 *"Concrete"*
- MRS71 and MRTS71 *"Reinforcing Steel"*
- MRC Supplementary Specification 8102 *"Connection of Property drainage Pipes"*
- Brisbane City Council Reference Specification S150 Roadworks
- Mackay Regional Council's Standard Drawing A3-03871;
- AS3996 Access Covers and Grates
- AS/NZS 1163 Cold Formed Structural Steel Hollow Sections;
- AS/NZS 4680 Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods;
- AS/NZS 4792 Hot-dip galvanized (zinc) coatings on ferrous hollow sections, applied by a continuous or a specialized process;
- AS1830 Grey Cast Iron;
- AS1874 Aluminium and Aluminium Alloys - Ingots and Castings;
- AS4506 Metal Finishing - Thermoset Powder Coatings;
- AS3715 Metal Finishing - Thermoset Powder Coatings for Architectural Applications of Aluminium and Aluminium Alloys
- AS/NZS 4792 Hot Dip Galvanised(Zinc) Coating for Ferrous Hollow Sections applied by a continuous or a specialised process; and
- the Project Drawings and Documentation.



8101.3 Description of Work Items

Work items incorporated by this supplementary specification are identified in Section 8101.6 and 8101.7 with individual activities/tasks for measurement and payment sourced from the Bill of Quantities and listed in MRC Supplementary Specification Annexure 8101_1 Galvanised RHS Pipes and Fittings Clause 1.

8101.4 Quality Systems Requirements

The contractor shall prepare a quality plan reflective of the requirements of this Specification and comply with MRTS 50. The quality plan is to be submitted to the Superintendent for approval four (4) weeks prior to site works commencing.

MILESTONE

8101.4.1 Std Test Methods (Testing Regime)

The following minimum testing regime applies to this specification:

Unless otherwise stated the manufacturer certification of the RHS pipes and components shall form the basis of the requirements. Where alternative material is proposed compliance to Class “D” in accordance with Clause 8101.5.1.1 or Table 3.1 of AS 3996 shall apply.

Civil works activities associated with the installation of property drainage pipes, fittings, and kerb adaptors shall be tested as per the relevant MRTS specification MRTS03 and MRTS04, unless otherwise approved by the Superintendent.

8101.4.2 Hold Points, Witness Points and Milestones

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.

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 work by the Superintendent or approval of test results forwarded to the Superintendent by the Contractor.

Witness Points

Witness points are also important stages of work. However, these are not necessarily 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 8102.5	Milestone	4 Weeks prior to works commencing	8101.5
Inspection of delivered items	Hold Point	At delivery time for each item.	8101.6.2
Site layout marked out and as per project drawings	Hold point	Prior to excavations commencing	8101.6.3
Inspection of excavated floor	Hold point	After excavation and compaction has occurred	8101.6.4
Installation of RHS pipe and fittings	Hold Point	Prior to backfilling	8101.6.6
Inspection of ends of RHS that have been cut	Witness Point	At installation of RHS prior to backfilling	8101.6.6
Prepour inspection of concrete path reinstatement, including thickness of concrete (as required)	Hold Point	Prior to pouring of concrete for pathway	8101.6.7
Alternate concrete thickness and layout (as required)	Hold Point	Prior to pouring concrete after formwork set up.	8101.6.7
Removal of formwork and curing of concrete	Hold Point	As approved by the Superintendent in compliance with MRTS 70.	8101.6.7
Breaking into existing pit for connection and installing stub	Hold Point	Prior to backfilling	8101.6.8
Excavated floor of new pit (as required)	Witness Pont	Prior to installing new pit	8101.6.9
Concrete prepour inspections of new pit floor and walls (as required),	Hold Point	Prior to pouring concrete	8101.6.9
Backfilling to new pit (as required)	Witness Point	After installation of pit, stubs and connection of stormwater pipes.	8101.6.9
Backfilling, turfing, cleaning of site	Witness Point	At completion of works	8101.6.10
"As Constructed" documentation	Hold Point	4 weeks prior to "On Miantenace" being requested.	8101.7.1
Site inspection	Hold Point	At completion of all works and after submission and approval of As Constructed documentation	8101.7.2

8101.4.3 Construction Tolerances

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



Clause 5.4 Brisbane City Council Reference Specification S150 Roadworks

Requirement	Tolerance
General Requirement	Channels do not pond water and the kerb line has no noticeable kinks in line or level.
Vertical Alignment	+/- 10mm
Horizontal Alignment	+/- 25mm
Deviation 3m Straight Edge laid in parallel to the centreline	Maximum 5 mm at any point
Profile Dimensions	The overall width does not differ by more than 15 mm and the dimension at any point does not differ by more than 5 mm.

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

- Concrete tolerances in accordance with MRTS70 Concrete.
- Bedding, laying, and backfill to culvert tolerances in accordance with MRTS03 and MRTS04
- Pipe grades as per Mackay Regional Council Standard drawing A3-03871

Tolerances specific to the project are detailed on the design drawings and are included in Clause 2 of MRC Supplementary Specification Annexure 8101_1 Galvanised RHS Pipes and Fittings

8101.5 Preliminary

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

- Works procedure
- Material certification from manufacturer/s
- Erosion and Sediment Plan (as required for site/s)
- Traffic Management Plan and TGS's (as required)
- Workplace Health and Safety Plan including specific to the work and site/s,
- Quality Plan outlining requirements of 8901.4 as a minimum, compliant with MRTS 50,
- Minor Works Approval (as required).

Other preliminary requirements unique to the project will be listed in the MRC Supplementary Specification Annexure 8101_1 Galvanised RHS Pipes and Fittings

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8101.5.1 Materials

The Contractor shall procure and supply materials compliant to the following requirements, any alternative material proposal shall be submitted to the Superintendent prior to works commencing and must be accompanied by a sample and compliant test results to AS3996.

8101.5.1.1 Kerb Adaptors

A proprietary product with the profile to match the kerb profile and installed as per the manufacturers requirements and be certified to meet load class "D" (heavy duty) of AS 3996 Section 3 and Brisbane City Council Reference Specification S150 Section 5.3, materials include but are not limited to galvanised steel and aluminium. Where it is proposed to use a non-acceptable alternative material (uPVC as an example) it must be proven the product complies with load class "D" and capable of maintaining its fixed position in the kerb. This also applies to fittings.



Loading Condition	Class D (heavy Duty)
Application	All street/road hierarchy classifications
Nominal Wheel Load	8000kg
Serviceability Design Load	140kN
Ultimate Limit State Design Load	210kN

Acceptable alternative materials may include:

- Fabricated steel galvanised to AS 4680.
- Ferrous hollow sections galvanised to AS 4792.
- Cast iron to AS 1830.
- Aluminium casting to AS 1874.

Adaptors may be powder coated to AS 4506 (metals other than aluminium) or AS 3715 (aluminium)

8101.5.1.2 Pipe and Fittings

Pipes and fittings shall be proprietary products of galvanised RHS pipe and fittings conforming to AS/NZS 1163 Cold Formed Structural Steel Hollow Sections and AS/NZS 4792 Hot Dip Galvanised (Zinc) Coating for Ferrous Hollow Sections Applied by a Continuous or a Specialised Process.

Rigid hollow section (RHS) profiles are to be provided with section dimensions in accordance with C450LO to AS1163, as specified. Hot dipped galvanized coatings with a minimum average coating mass of 100g/m², in accordance with ILG100 AS/NZS 4792, shall be provided.

8101.5.1.3 Other Materials

As applies to this specification materials also include fixings, lubricants, and sealing agents which form part of the manufacturer's specification and installation requirements for the proprietary product specified in the design drawings.

8101.5.1.4 Supply and Salvaging

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 8101_1 Galvanised RHS Pipes and Fittings Section 3 and shall be the point of supply.

Where existing stormwater pipes and fittings are to be salvaged MRC Supplementary Specification Annexure 8101_1 Galvanised RHS Pipes and Fittings Section 4 will detail the items to be salvaged and the nominated storage site. This will also include any reuse of existing items.

All civil items and materials shall be supplied in accordance with MRTS03 and MRTS70

8101.5.2 Ownership of Stormwater Connection and Pipes

The stormwater kerb adaptors, pipes, and fittings required to connect to Council's stormwater network remain private infrastructure owned by the respective property owner and shall be the responsibility of the property owner to maintain. This includes in commercial and industrial developments or properties.

8101.5.3 Contractor's Personnel

Personnel, sub-contractors and suppliers utilised in the demolition/removal, construction and installation of access culverts shall be experience in the processes and activities required to carry out the works.



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.

MILESTONE

8101.5.4 Environmental Plan

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

8101.5.4.1 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 outside of the immediate work area, 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.

8101.5.5 Permits for Work

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

8101.5.6 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.

8101.5.6.1 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.

8101.5.6.2 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.

8201.5.6.3 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. working on or adjacent to a road) 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.

8101.5.7 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 which impact the works and the proposed treatment to address the impacts,
- III. Staging of works,
- IV. Traffic management and TGS's,
- V. Individual activity construction procedures, earthworks, drainage, bedding, laying, jointing, concrete works, testing and inspections as required,
- 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



8101.6 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.

All stormwater shall be installed in the locations shown on the project drawings or minor works permit, and in accordance with the details shown on the project drawings and manufacturer's specifications.

For residential properties (including rural residential) a maximum of two connections to the kerb shall be allowable, installed between 0.5 -1.5m from the side boundaries of the property as required by Clause 2.5 Roof / allotment drainage of MRC PSP Stormwater Drainage Design

A single length of RHS Box channel pipe shall be installed across the verge area parallel to the side boundary to 1 metre inside the property with the kerb adaptor having a connector installed to suit the channel size and profile as well as a connector inside the property to connect to round drainage pipe

For Commercial or Industrial stormwater the number and point of discharge shall be approved by Council.

Connection to all stormwater pits shall be approved and carried out by core drilling the wall with the diameter being the same size as the discharging pipe. The connection to the pit shall be sealed with an approved epoxy sealant.

Specific construction requirements associated with these works is detailed in MRC Supplementary Specification Annexure 8101_1 Galvanised RHS Pipes and Fittings Section 5.

8101.6.1 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;

8101.6.1.1 Work Scope

The scope of works (including all associated sub activities) covered under this specification is as follows:

- Procure, supply, and store all materials as required;
- Site Layout marked out and approval by Superintendent;
- As required, install and maintain ESC measures in accordance with approved Environmental Plan
- Carry out testing and inspections as required by the approved Quality Plan;
- Removal for re-use and/or demolition of existing pipes, pits/manholes, kerb adaptors, and fittings;
- Earthworks (including stripping/clearing and grubbing) to site;
- Drainage works to the site as required;
- Embedment (bedding, haunch, overlay) and backfill to pipes and manholes/pits;
- Installation of pipes, kerb adaptors, and pits/manhole structures (as required);
- Setting up of reinforcing and formwork;
- Pouring, finishing, stripping of formwork, and curing of concrete;
- Clean up of site
- Collection of "As Constructed" data and submission for approval.



8101.6.2 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 the materials are Principal supplied the designated storage site will be the point of supply for the purposes of this Specification.

All materials are to be stored as required by the manufacturer's specification and requirements. All materials are to be inspected when delivered to site prior to use for defects and also for compliance to the relevant specification requirement. Any materials which are damaged or not within the specification requirements are not to be used and are to be returned to the supplier.

HOLD POINT

8101.6.3 Site Layout with Superintendent

The final location of the works is to be marked out on site and shall be inspected and approved by the Superintendent prior to excavation commencing, including location of kerb adaptors, any pits that require installation or breaking into, and as required demolition of a 3m section of constructed footpath.

HOLD POINT

8101.6.4 Carrying Out Excavations

Prior to excavations commencing the contractor shall ensure all services are located. Any excavation of material shall be to level and grade as per design drawings, with all works carried out in accordance with MRTS04.

Where a constructed footpath exists, a section 3m long shall be removed, this shall be saw cut at the existing joints, demolished, removed, and disposed of as required by the approved works procedure. Testing of the excavated floor of the footpath shall be carried out as per MRTS 04

Bottom of excavation is to be inspected for areas of unsuitable material at completion of excavation and compaction of excavated bed.

HOLD POINT

If unsuitable material is identified this is to be removed and replaced with approved material as per the instructions of the Superintendent.

8101.6.5 Utilising or Disposing of Excavated Material

The contractor is to ensure all materials identified for reuse are removed to an agreed storage site. All materials not identified for reuse shall be disposed of by the Contractor as identified in their Works procedure and Environmental Plan at no cost to the Principal.

8102.6.6 Connection and Installation of Property Drainage Pipes and Components

Installation of the Kerb Adaptors, RHS pipe, connections into stormwater drainage components, or installation of adaptor for connection to internal property drainage in accordance with Standard Drawing A3-03871.

The kerb or kerb and channel is to be neatly saw cut vertically at the approved location and at a width which will hold the kerb adaptor/s (2 only) in place without movement, demolition of the back of the kerb shall ensure that the kerb adaptor sits flush and evenly with the invert of the kerb.

The kerb adaptor shall have a connector adaptor fitting installed to take the size and shape of the pipe to be installed.



The pipe shall be laid at maximum depth with maximum cover and at a grade no less than 1 in 100 through the verge area, the pipe shall culminate inside the property boundary. Tolerances shall be as set out in 8102.4.3

HOLD POINT

A connector adaptor shall be fitted to allow a uPVC pipe to be connected to the RHS pipe within the verge. All connection shall be watertight.

Where the ends of the RHS are cut they are to be treated with a cold galvanising material or appropriate anti corrosion treatment.

WITNESS POINT**8101.6.7 Reinstating Concrete Path (as required)**

Where a section of constructed concrete path has been removed the contractor shall reinstate the 3m section with all works carried out as per MRTS 70 and in accordance with MRC Standard Drawing A2-00500 and this specification, where the RHS pipe obvert may impact the thickness of the concrete path the contractor shall notify the Superintendent prior to placement of overlying material.

HOLD POINT

An acceptable solution based on the concrete thickness and steel reinforcing detail shall be agreed upon prior to pouring the missing link of pathway. This shall constitute a prepour inspection when the formwork has been set up.

HOLD POINT

Testing of the excavated floor and concrete shall be carried out as per MRTS 04 and MRTS 70 respectively.

Removal of the formwork and curing of the concrete shall comply with the requirements of MRTS 70 at the approval of the Superintendent.

HOLD POINT**8101.6.8 Break into Stormwater Pit (as required)**

Where the design drawings or project documents approve of connecting to a stormwater pit in the verge or road area this shall be carefully excavated to avoid damage to the pit and other infrastructure.

The connection to and through the pit wall shall be core drilled, the diameter of the drill core shall be the same as the outside diameter of the discharge pipe. No breaking in by sledgehammers, concrete saws or other destructive methods is allowed.

A stub shall be inserted square and flush with the inside of the pit and protrude a minimum of 500mm outside of the pit for connection of the stormwater pipe. The inserted stub shall be sealed with an approved epoxy sealant.

HOLD POINT**8101.6.9 Installation of Stormwater Pit (as required)**

Where required due to the lack of a stormwater discharge pit or low grades dictate a stormwater pit shall be installed within Council's stormwater system, only with the approval of the Superintendent and the Asset owner may the pit be precast uPVC otherwise it shall be insitu poured concrete.

The excavated floor for the pit shall be tested as required by MRTS03 unless otherwise approved by the Superintendent. The installation shall be as per the project drawings or documentation and MRC Standard Drawing A3-00870.

WITNESS POINT



Where approved to install a uPVC pit this shall be carried out as required by MRC Supplementary Specification 8111 “uPVC Stormwater Pits”, including all testing, inspections, and tolerances.

In situ poured concrete pit shall comply with the design drawings with the works being carried out in accordance with MRTS70 including testing, inspections, and tolerances. Stripping of formwork shall be approved by the Superintendent. Curing shall be as required by MRTS70 or as directed by the Superintendent.

HOLD POINT

Backfilling shall comply with MRTS03 and MRTS04, including testing and inspections, or as approved by the Superintendent.

WITNESS POINT

8101.6.10 Backfill, Compaction and Testing, and Clean Up.

All disturbed areas are to be backfilled as per MRTS03 and MRTS04 including any testing and inspections unless otherwise approved by the Superintendent. All disturbed areas are to be turfed and maintained until the turf is established in compliance with MRC Supplementary Specifications 8300 and 8317. The site is to be cleaned of all debris, excavated material, and construction materials.

WITNESS POINT

8101.7 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.

8101.7.1 Collection and Submission of All As Constructed Data.

The contractor shall verify all stormwater connections have been constructed as approved. Variations require a marked up plan be submitted with the Council Superintendents approval of the variation.

Any works performed as part of a commercial or industrial development shall submit As Constructed detail and documentation as required by MRC *D20 - Drawings and Documentation* for submission and approval.

HOLD POINT

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

8101.7.2 Final Inspection of Works

At the completion of all works the Contractor is to present the completed works for inspection by the Superintendent, in particular line, level, grade of the drainage infrastructure for compliance to design drawings and/or issued minor works permit approval conditions (where required).

HOLD POINT

8101.8 Measurement and Payment

The length of pipe under this item, shall be measured as the distance along the centre line of the pipe, where it is installed. Any works required for the connection of roof water or property drainage to kerb or drainage components shall be deemed to be included in special Item 8102.



Provision for these works shall be included in the scheduled unit rate for the items show in Clause 8101.3 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	Original issue	MRC	09.08.12
1.1	Specification review	MRC	20.11.2020
2.0	Specification Review	C,Sultana	15.06.2024
3.0	Full Review of Specification	C. Sultana	12/05/2026