



Southern Downs

REGIONAL COUNCIL

PART 2

SPECIFICATION

Request for Tender Title:	Harris Street & Market Square Sewer Pump Station Refurbishment
Closing Time:	Wednesday the 14 th October 2020 at 2:00pm AEST
RFT Number:	21_042

1 INTRODUCTION

Southern Downs Regional Council is seeking a suitably qualified Contractor to undertake the refurbishment and upgrade works of the sewer pump stations PS1 located on Market Square, Warwick, and SPS5 located on Harris Street, Stanthorpe respectively. The works undertaken shall be in accordance with relevant standards in order to provide functionality and reliability. The completed pump stations must comply with conditions of Council's Environmental Approval and industry standards. Scope of work for this project includes the refurbishment of the existing sewer pump stations, including the existing wet well.

Council has identified the need to refurbish and upgrade components of the Market Square and Harris Street sewer pump stations in accordance with the conditions of Council's Environmental Authority and to enable continuity of services during power outages, and be able to bypass pump stations in the case of rising main failure. The sewer pump stations have inherent defects that were identified which needs to be addressed during the refurbishment works.

The specification does not relieve the contractor from its responsibility for compliance with all relevant Australian and International Standards, with industry best practice and in accordance with all relevant and applicable legislation, statutory regulations and codes. Any variation from the minimum requirements set out in this Specification should be raised with the Principal and justified by reference to a design consultant, engineer and as otherwise may be required.

2 BACKGROUND INFORMATION

The Southern Downs region is 160 - 180 kilometres south-west of Brisbane (approximately 2 - 2.5 hours' drive). The region covers 7,120 square kilometres and is bordered by the Scenic Rim Regional Council, the Lockyer Valley Regional Council, Toowoomba Regional Council, Goondiwindi Regional Council and the New South Wales border.

The Southern Downs region provides for both rural and urban lifestyles. Key townships in the Southern Downs region include Allora, Killarney, Stanthorpe, Wallangarra and Warwick (refer to Figure 1 below). Stanthorpe and Warwick accommodate the majority of the population for the region.

The region is supported by many other small communities, some of which are defined as villages under the existing planning schemes, while others are less clearly defined and are located within the rural zone.

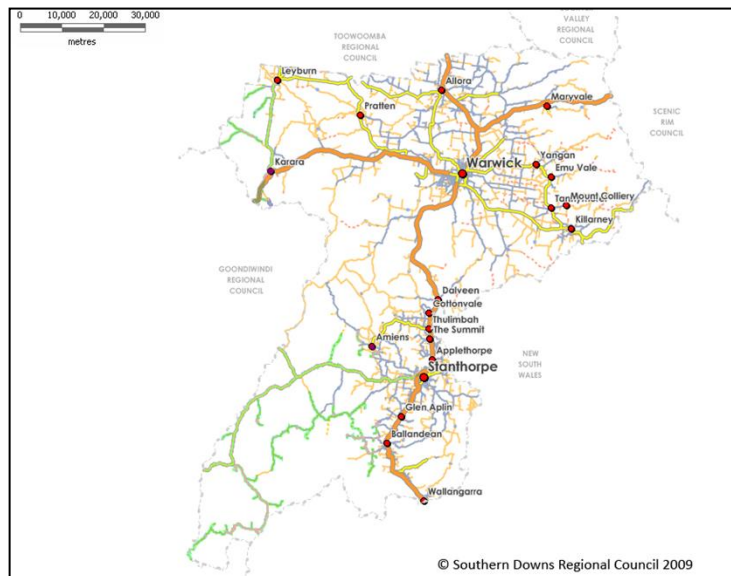


Figure 1 – Southern Downs Region

The estimated resident population of the Southern Downs Region is 35,738 people at March 2017.

2.1 Locality

Market Square SPS1 is located at Lot 13 on RP160748 and Lot 3 on RP86196 in Warwick.

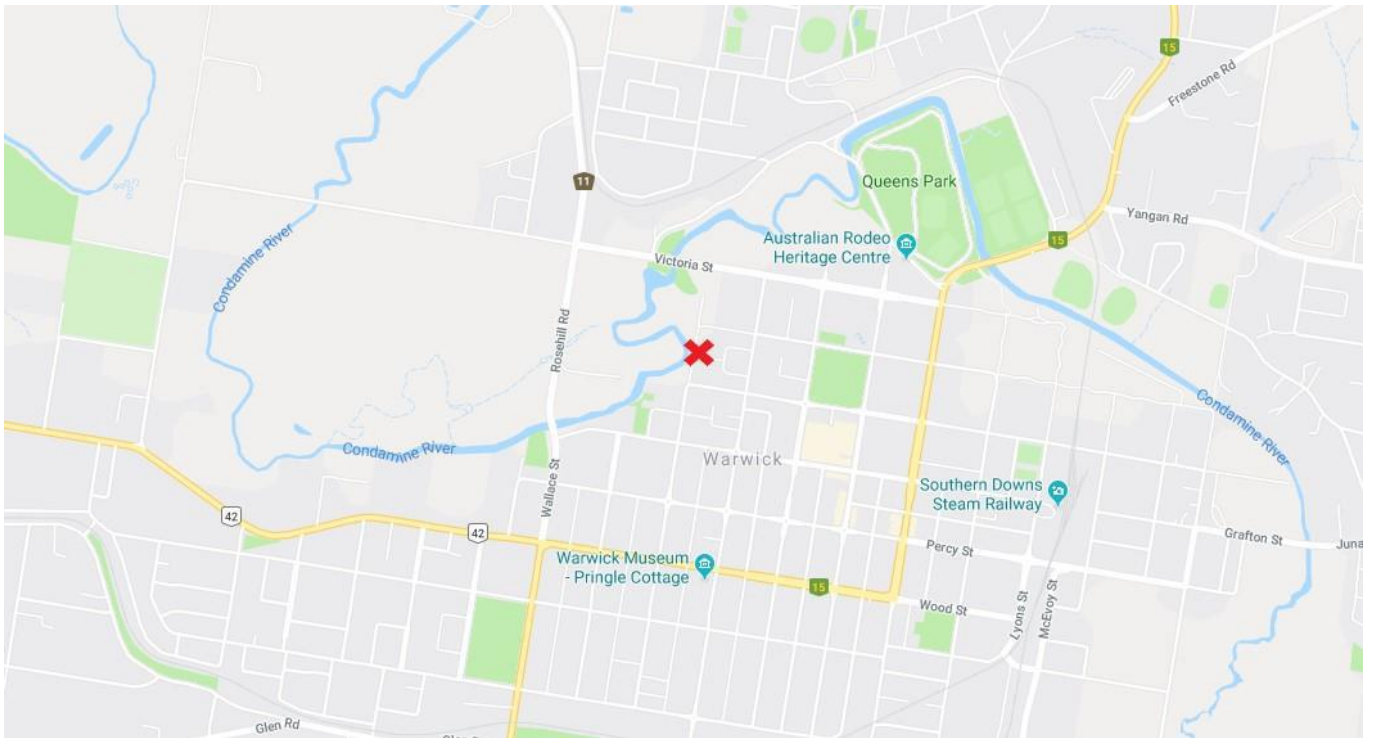


Figure 2 – Market Square SPS1 Location in Warwick

Harris Street SPS5 is at Lot 200 on RP899695 and Lot 71 on S168746 in Stanthorpe.

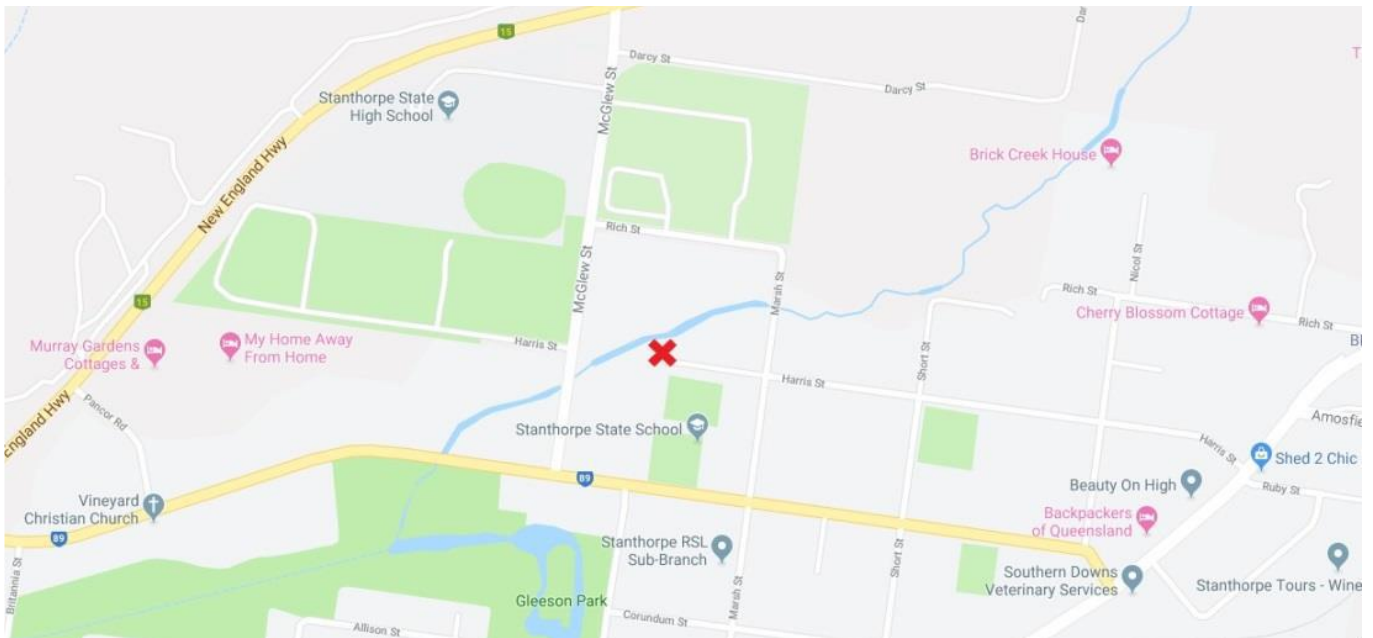


Figure 3 – Harris Street SPS5 Location in Stanthorpe

2.2 Existing Pump Station Details

Both Market Square SPS and Harris Street SPS do not have sufficient emergency storage capacity in existing wet wells to achieve emergency storage equivalent to 4 hours of ADWF in the wet well (this was nominated as a provisional requirement to reduce the risk of wet weather overflows). Details of the individual SPS are as below.

2.3 Market Square

Market Square pump station is located on road reserve between Market Square and Billabong Street/ The existing configuration of Market Square sewer pump station site is a wet well receiving gravity flow and pumped flow from multiple incoming sewers and has two submersible pumps within the pump well discharge to two 300 mm AC rising mains. This pump station site is surrounded by residential dwellings.

The sewer pump station is located near but out of the 100-year flood hazard overlay area associated with the Condamine River and the existing DN300 overflow pipe is redundant. During Breakdowns of wet weather events, overflows occur upstream in the gravity sewer reticulation from a maintenance hole (MH) near McCahon Bridge. The pumps operate on Variable Speed Drives (VSD) and the majority of Warwick's sewage gravitates or is pumped to Market Square SPS. The total catchment area for the SPS is 395.4ha.

2.4 Harris Street

The Harris Street pump station is located at Harris Street in Stanthorpe. The existing configuration of Harris Street sewer pump station site is a wet well receiving gravity flow from an upstream manhole, and two submersible pumps within the pump well discharging to a pressure rising main. The pump station receives flow from a northern section of the Stanthorpe Township and is in the vicinity of a waterway, Stanthorpe State School, Stanthorpe State High School and a sporting precinct. The total Catchment area for the sewer pump station is 64ha.

3 PARTICULARS OF REQUIRED WORK

3.1 Aim

This project involves the refurbishment of two existing sewer pump stations, in accordance with the design reports and drawings provided in Appendix A for Market Square SPS and Appendix B for Harris Street SPS. In broad terms, the work includes removal and replacement of existing pipework within pump well, concrete slabs, provision of underground emergency storages, upgrading components where necessary in accordance with the design report and drawings.

The refurbished and upgraded pump stations must comply with conditions of Council's Environmental Approval and industry standards.

3.2 Objectives

The council expects that the refurbishment to be carried out by a Contractor with relevant knowledge, experience and expertise in the construction and refurbishment of municipal sewer reticulation and structures. Prior experience shall be demonstrated in submissions to the Client for the evaluation process.

The Request for Tender (RFT) provides the opportunity for construction contractors to submit a quotation to:

- Undertake cost estimation, demolition, refurbishment, upgrade, testing, commissioning and documentation of the sewer pump stations in accordance with the design report and drawings;
- Undertake the refurbishment and upgrade of the above mentioned designed infrastructures;
- Provide a detailed project schedule in the form of a Gantt chart.

3.3 Scope of Work

These technical specifications are to be read in conjunction with the notes provided in the supplied drawings and documents attached in the Appendix A.

3.4 Common Requirements

The scope of works common to both Market Square and Harris Street pump stations are summarised below.

- Establishment and reinstatement of site;
- Implementation of flow control (in conformance with the Contractor's SDRC approved Flow Control Plan) as required to allow the pump station to be taken offline for the upgrade works;
- Stockpile excavated material neatly including sedimentation and erosion control as required on the site and protect material required for reuse;
- Remove from site all surplus excavated material;
- Provide silt traps to prevent discharge of scoured material to downstream areas in accordance with the details on the design drawings;
- Provide odour filter on DN150 vent pipe where indicated on design drawings;
- Provide survey plate where called for in design drawings.
- Provide RPEQ certified as built drawings at completion of work.

3.5 Market Square

A summary of the scope of works for the Market Square SPS is as below. The works required for Market Square SPS includes, but is not limited to:

- Install the emergency storage tanks in the location and orientation as per the drawings in Appendix A to provide at least 80m³ of emergency storage;
- Utilise Precast Reinforced Concrete Pipes as emergency storage with a minimum of two access points. Council may consider alternate industry standard product for emergency storage
- Cut into side of existing manhole to allow connection of new pipework from emergency storage chambers;
- Provide pumped bypass in the new valve chamber pit in the event that power is unavailable and emergency storage is full;
- Supply and install two (2) DN300 Water Master ABB Electromagnetic flow meter in a new valve pit that meets the clearance requirements in the design drawings;
- Supply and install two (2) DN300 gate valves in new valve pit;
- Provide new concrete slab for new diesel generator;
- Remove existing northern boundary fence and replace with chain wire fence or similar new fencing.

Refer to **Appendix A - Market Square Design Report** and drawings for more details.

3.6 Harris Street

A summary of the scope of works for the Harris Street SPS is as below. The works required includes, but is not limited to:

- Install the emergency storage tanks in the location and orientation as per the drawings in Appendix B to provide at least 25m³ of emergency storage.
- Utilise Precast Reinforced Concrete Pipes as emergency storage with a minimum of two access points;
- Install the storage tanks in location and orientation as designed to allow open excavation without the need for shoring within close proximity to an existing sewer manhole to allow for connection to the emergency storage;
- Cut into side of existing manhole to allow connection of new pipework from emergency storage chambers;

- Provide an upstream diversion drain to divert minor flows from Harris Street to minimise scouring potential.

Refer to **Appendix B Harris Street Design Report** and drawings for more details.

4 SPECIFIC REQUIREMENTS OF THE CONTRACT

4.1 Contractor's Representative

Prior to commencement of work, the Contractor shall nominate in writing a Contractor's representative for the project. This representative shall be responsible for administering the Contract on behalf of the Contractor and for responding to all matters referred to by the Superintendent's representative.

The Contractor's representative will maintain weekly communication with the Authorised Officer (Superintendent). Where specific issues arise or otherwise as requested by the Principal the Contractor's representative and the Consultant shall attend additional meetings. The Contractor's representative and the Consultant shall attend all meetings with relevant staff at no cost to the Principal.

4.2 Design Deliverables and Certification

The design has been undertaken by a Consultant in accordance with Queensland legislation with design drawings supervised, reviewed and certified by an Engineer with RPEQ certification.

Any Contractor deviations from the design shall be undertaken in accordance with the Southern Downs Regional Council specifications and be supervised and certified by RPEQ engineer.

Design deviations shall be approved by the Superintendent prior to undertaking any construction or installation activities.

4.3 Statutory Requirements, Standards, Codes and Guidelines

All materials and workmanship shall comply with the design documents and latest revisions of the relevant codes of practice and standards set out herein and within the relevant discipline Specifications or in their absence the latest editions of Australian Standards or Water Services Association of Australia (WSAA) codes of practice and guidelines.

4.3.1. Codes of Practice & Guidelines

The following codes of practice and guidelines shall be adhered to: -

- Southern Downs Regional Councils Standards and Specifications; and
- Water Services Association of Australia (WSAA).

4.3.2. Standard Drawings

The following standard drawings and specifications are referenced and are to be complied with unless specified otherwise:

- Southern Downs Regional Councils Standards and Specifications; and
- WSA 04-2005 Sewage Pumping Station Code and Standard Specifications and Standard Drawings

4.3.3. Australian Standards

In addition to statutory requirements, all goods supplied shall as a minimum, meet all the requirements of the latest issue of appropriate Australian Standards as at date of award of

Contract for the specified item type with respect to design, manufacture, assembly, testing, and supply.

- AS/NZS 2566.1:1998 Buried flexible pipelines - Structural design;
- AS/NZS 3000:2007 Electrical installations (known as the Australian/New Zealand Wiring Rules);
- AS 1111 ISO metric hexagon Commercial Bolts and Screws;
- AS 1112 ISO metric hexagon nuts including thin nuts, slotted nuts and castle nuts;
- AS 1214 Hot Dip Galvanised Coatings on threaded fasteners (ISO metric coarse thread series);
- AS/NZ 2312 Guide to protection of Structural Steel by the Use of Protective Coatings;
- AS 2417 Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1 and 2;
- AS 1580:408-5 Adhesion – Pull-off Test;
- AS 1580:408-4 Adhesion Cross Cut;
- AS/NZ 3894-all Protective Coatings;
- AS 4100-1998 Steel Structures;
- AS 4024.1-2006 Safety of Machinery;
- AS 4041 – 2006 Pressure Piping or ASME B31 equivalent;
- AS 1345-1995 Identification of the contents of pipes, conduits and ducts;
- AS1657-2013 Fixed platforms, walkways, stairways and ladders - Design, construction and installation;
- AS/NZS 2312:2002 Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings;
- Welding to conform to AS1554-2007 structural steel welding set;
- AS 4087-2004 Metallic flanges for waterworks purposes or ANSI equivalent;

Where an appropriate Australian Standard does not exist, the Equipment shall meet the requirements of an appropriate ISO Standard. Where an appropriate Australian or ISO Standard does not exist, the Equipment shall meet the requirements of other standards nominated or approved in writing by the Principal.

The Contractor shall provide to the Principal for review and approval as applicable, details of any Standard currently used for their Equipment that they believe is better suited to the application than the Standards nominated in this Specification. In the event of a conflict between applicable Acts, Regulations, Codes or Standards, the requirements of the highest level of jurisdiction in the particular application shall apply.

In the event of a conflict between this specification and any applicable Act, Regulation, Code or Standards, the relevant Act, Regulation, Code or Standard shall take precedence. The vendor shall immediately advise the Principal of any such conflicts.

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4.3.4. Approved Products

Unless approved otherwise, all products and materials shall be of the approved and compatible types complying with the Southern Downs Regional Council requirements. As part of the submission, Tenderers are required to specify what products and materials they intend to use for approval by Council at its sole discretion. Any deviation from this list by the Successful Tenderer must be approved in writing by Council prior to such change in product being acted upon. Council will not be liable for any loss incurred where the Successful Contractor changes a product without prior approval.

4.4 Project Management

4.4.1. Project Management Plan

The Contractor shall prepare a Project Management Plan covering all aspects of the Contract. The Contractor shall not commence any site works prior to approval of the Project Management Plan. The Project Management Plan shall as a minimum incorporate the following:

- Key personnel and Contactor details;
- Organisational chart and sub-contractors;
- Construction Methodology;
- A Construction Program, broken into major work fronts, complete with resourcing, lead times and delivery of major equipment;
- Project Risk Register;
- Traffic Management Plan;
- Flow Control Plan;
- Communication Plan;
- Quality Plan;
- Safety Management Plan;
- Construction and Environmental Management Plan; and
- Commissioning Plan.

The Contractor must comply with the plans that form part of the Project Management Plan.

It shall be acknowledged that approvals issued after the Contract commencement date may impact on the plans included in the Project Management Plan. If a plan/section of a plan is not accepted and requires amendment the Contractor shall amend the plan and resubmit for approval.

The Contractor shall provide to the Principal copies of any notices, correspondence or directions of whatsoever nature issued by any relevant Government Authority or a regulating workplace health and safety requirement within 24 hours of the dispatch and/or receipt of such notice, correspondence or direction and shall immediately ensure that its employees, Contractors and subcontractors comply with it.

4.4.2. Construction Methodology

The Contractor shall prepare and submit a detailed construction methodology for all works for approval by the Principal prior to commencing work. The construction methodology must clearly describe the proposed construction activities, sequencing, timing/durations and required co-ordination between involved parties. The construction methodology must also identify potential risks and mitigation measures.

4.4.3. Project Risk Register

The Risk Register shall be prepared by the Contractor for review and approval by Council. Risk register shall include all risks present on site and associated with construction methodology proposed. Risk register shall also identify all mitigation measures to manage the risk to Council's satisfaction. The Safety in Design risk register shall be used as the basis for the project risk register. The project risk register shall be updated and maintained throughout the Contract by the Contractor.

4.4.4. Traffic Management Plan

The Contractor shall submit a Traffic Management Plan to the Principal for approval prior to implementing traffic control measures. The Contractor shall supply all traffic control, signage and the like to facilitate the works.

4.4.5. Flow Control Plan

The Contractor is responsible for obtaining all relevant information and preparing a flow control plan. The flow control plan shall clearly describe the Contractors proposed flow control methodology,

equipment, timing/durations, responsibilities of all parties involved and contingency measures. The flow control plan must be approved by the Principal prior to flow control works commencing.

4.4.6. Quality Plan

For all work under the Contract, including work by subcontractors, plan, establish, implement and maintain a quality system which satisfies the requirements of AS/NZS ISO 9001:2000.

Prepare and submit a project Quality Plan covering the work under the Contract to the Principal for review. In the Quality Plan include a description of the Contractor's management structure for control of the work (including details of responsibilities and authorities) and provide an index of the quality procedures and proposed Inspection and Test Plans (with associated checklists). Update and maintain the Quality Plan during the course of the Contract.

4.4.7. Inspection and Test Plans

The Contractor shall prepare Inspection and Test Plans (ITPs) including any additional checklists and QA documentation to complete the works. ITPs are to include any "Hold" and "Witness Points" as required by this specification and where Principal approval is required or inspection by a Statutory Authority.

All ITPs require Principal approval a minimum of one (1) week prior to commencing works covered by the particular ITP.

All ITPs are to be signed by the Contractors nominated authorised personnel to ensure quality of work is maintained and inspected and/or tested as specified.

4.4.8. Construction and Environmental Management Plan

The Contractor must submit a Construction and Environmental Management Plan (CEMP) to the Principal for approval prior to commencing work on site. The CEMP must address the following as a minimum requirement:

- Erosion and sediment control;
- Flora, Fauna and Environmentally Relevant Activities;
- Hydrology;
- Noise and vibration;
- Air Quality;
- Waste Management;
- Sewage and Chemical spills; and
- Disposal of Contaminated Water.

4.4.9. Safety Management Plan

The Contractor shall document and implement a WHS Management Plan and shall comply with the requirements of the Work Health and Safety Act 2011 and Regulation.

The Contractor will be responsible for the safety, health and welfare of all personnel on site and who or entering or leaving the site.

The Contractor will be responsible for site inductions in accordance with the Project Management Plan.

The Contractor is responsible for preparing Safe Work Method Statements (SWMS) inclusive of a risk assessment. Works must have a Task-Specific Work Method Statement when the residual risk exceeds a "medium" risk rating. All SWMS must be submitted to SDRC for review and approval. The hierarchy of control will be used to mitigate any risks that are identified:

- Elimination;
- Substitution;

- Engineering Controls;
- Administrative controls; and,
- PPE.

The Contractor will also be expected to operate the plant using Standard Operation Procedures (SOP's).

The Contractor and all staff (including sub-contractors) will be required to complete Council's General Safety Induction prior to commencing work.

4.4.10. Commissioning Plan

The Contractor shall be responsible for developing a Commissioning Plan for all mechanical and controls equipment for review by the Principal.

The Contractor shall develop commissioning procedures and Safe Work Methods Statements (SWMS) for each commissioning activity and include in the Commissioning Plan.

The Commissioning Plan shall cover the following topics as a minimum:

- Overview of the pre-commissioning and commissioning phases;
- Roles and Responsibilities;
- Programming and execution strategy;
- All required tests/checks per phase;
 - ITP;
 - Factory Acceptance Testing (FAT);
 - Site Acceptance Testing (SAT);
- Any temporary works and services required for Commissioning;
- Change over procedures;
- Proof of Performance testing; and
- Procedures/SWMS.

4.4.11. Reporting

The Contractor is required to submit a fortnightly progress reports to the Principal throughout the demolition, construction and commissioning phases. The reports shall contain the requirements of the Contract and to include Gantt chart reflecting latest progress with relevant comments and photos of work completed.

4.4.12. Technical Issues

Any technical issues encountered by the Contractor shall be submitted by written technical query to the Principal on the Contractors standard forms. Any deviations from the Contract documents shall be submitted to the Principal for approval prior to deviating works being performed.

4.5 Safety in Design

A Safety in Design (SiD) risk assessments have been undertaken and the mitigation measures specified to reduce safety risks to acceptable levels. The Contractor is required to update the SiD risk register during construction and to submit this to the Principal upon Practical Completion with As-constructed risks incorporated. The Contractor shall consider all risks listed in the SiD reports during preparation of the Contractors Safety Management Plan.

Refer to Appendix A, Market Square Design Report and Appendix B, Harris Street Design Report for more details.

4.6 Site Investigations

The Contractor shall be satisfied that any site investigation information supplied with the Tender documents is sufficient for their purposes. Otherwise, they shall conduct a site investigation appropriate to the extent of the excavation works.

Any site investigation reports or other information which are supplied with the Tender documents or which may be made available are given in good faith as a guide to Tenderers but no responsibility can be taken for their accuracy or applicability over the whole site.

4.7 Existing Services

Notwithstanding that existing services may or may not be shown on the Project drawings. The Contractor shall be solely responsible for the location and protection of all existing services or obstruction during the excavation works.

The Contractor shall take all necessary precautions to protect existing infrastructure and avoid disturbing structures during excavation and construction. Where excavation and construction is adjacent existing structures, the Contractor shall survey the levels of adjacent structures and monitor the levels for any change in excess of five (5) mm of the duration of the construction. If there is a change of level to the existing structure in excess of five (5) mm, the Contractor is to cease excavation and advise the Principal. Excavation works shall not recommence until a remediation plan has been approved.

The Contractor shall not excavate by machine within one (1) meter of any existing underground services.

4.8 Site Areas and Site Facilities

- The Contractor shall provide all statutory and necessary amenities and sanitary facilities for workers and other persons lawfully on the site for the duration of the construction works.
- The Contractor shall be responsible for nominating an appropriate location for storage of all equipment and materials and laydown areas during the works.
- The Contractor shall make all necessary arrangements, pay all required fees and obtain all necessary approvals for installation of site facilities, compounds, temporary services and materials storage areas as required to complete the works.
- The Contractor is required to submit details of the proposed site establishment (locality, layout etc.) to the Principal for approval prior to establishing on site.

4.9 Contractors Authorised Personnel

- The Contractor shall provide the required supervision and safety representatives for the duration of the Contract. All Contractor nominated supervisors and safety representatives shall have their names and qualifications submitted to the Principal for approval prior to commencement on site.
- A competent Contractor's representative shall be onsite at all times. The names of the competent representatives shall be submitted to the Principal and all correspondence between the Principal and the Contractor shall be via these nominated representatives. Any work instructions from the Principal will be issued in writing to the Contractors competent representative.

4.10 Site Security

The Contractor shall maintain adequate site security throughout the construction stage to restrict unauthorised access to the site.

4.11 Confined Spaces

All works undertaken within confined spaces including pump station wet well and valve pit must comply with the requirements of AS 2865 – Safe Working in Confined Spaces. Any personnel working within a confined space must be trained and deemed competent in accordance with AS 2865 and the Queensland Work Health and Safety Act. The Contractor must provide proof of current confined space competencies for all personnel nominated to work in the confined space areas prior to works commencing onsite. A work permit must be submitted to SDRC for approval of any work involving confined space entry.

4.12 Working at Heights

All works at heights must comply with the requirements of the National Code of Practice - Managing the Risk of Falls at Workplaces. Any personnel working at heights must be trained and deemed competent in accordance with National Code of Practice - Managing the Risk of Falls at Workplaces, and, the Queensland Work Health and Safety Act. The Contractor must provide proof of current working at heights competencies for all personnel nominated to work at heights prior to works commencing onsite.

4.13 Workplace Health and Safety

As a condition of this contract, Council requires that any Supplier (or Supplier's sub-contractor) engaged to perform a service, will at all times identify and exercise all necessary precautions for WH&S of all persons who may be affected by the services.

The Supplier must complete an online safety induction through Council prior to commencement.

The Supplier will abide by the Council's WH&S policies and procedures and the specific requirements relevant to the contract and comply with any reasonable direction given by Council relating to WH&S.

The Supplier has an obligation under the WH&S Act and Regulation 2011 (or as amended) to provide a safe place and a safe system of work so as not to place at risk the Supplier's own employees as well as other workers and the general public at the workplace. The Supplier must comply with all relevant enactments, associated WH&S Regulation, Standards, Codes of Practices and Council's WH&S policies and procedures which are in any way applicable to this contract, or the performance of the services under this contract.

The Supplier has an obligation to take all practicable steps to ensure the WH&S of its employees, sub- contractors and their employees and other people (not employees) who may be affected by the Supplier's work practices.

Tenderers are required to complete and return "**Schedule M WHS Questionnaire**" located in **Part 3 – Response Schedules** of the tender documents as part of their response.

The contractor shall ensure all relevant staff have been vaccinated for Hepatitis A and B.

4.14 Personal Protection Equipment

The Council WH&S procedure applies to all Council employees and visitors including Suppliers, contractors, volunteers, work experience students, trainees and clients. The minimum requirement of PPE includes Long Sleeve Shirts and Trousers, Safety Boots, Gloves and Wide Brim Hats. Additional PPE that may be required, but not limited to, High Visibility Clothing, Hearing Protection, Eye and Face Protection, Respirators. Outside of Council employees, the responsibility and cost of

PPE is the Supplier's. The Tenderer will also be required to comply with COVID directions which may change from time to time based on risk and direction from the Chief Medical Officer.

Whilst Council values its business partnerships, please note that if you or your employee/s present at a Council workplace without the required PPE, work will not be permitted until full compliance is achieved and it may also result in a Non-Conformance notice being issued to you.

4.15 INCIDENT NOTIFICATION

Council requires all incidents or near misses to be reported. Any incident or near miss must be notified immediately to the site representative/supervisor (Council) and a Council 'Incident Report' must be completed as soon as possible as per Council's WHS policy. All 'Notifiable Incidents' must be reported to Workplace Health & Safety Queensland.

For additional advice/information please visit:

<https://www.worksafe.qld.gov.au/injury-prevention-safety/incidents-and-notifications/what-is-an-incident>

The Supplier shall provide Council with any incident report arising relevant to this contract.

The Supplier is to supply Council with information concerning any Compliance and / or Enforcement measure taken by a statutory authority that affects this contract.

Council reserves the right to conduct its own investigation into any incidents associated with the successful Tenderer's works under the Contract. Suppliers and staff are required to cooperate with Council officers / representatives in relation to any such investigation.

4.16 FIT FOR WORK

Council's Fit for Work requirements aim to manage the risk of impairment. All workers (including Contractors) must be able to safely carry out their work duties and report fit for work, unaffected by a substance, fatigue or physical/mental condition that causes impairment. The initial roll out of Fit For Work requirements will firstly focus on the impairment from alcohol and drugs and how this impairment is addressed in our workplace.

The main requirements for Contractors are:

- Zero percent (0%) Blood-Alcohol Concentration (BAC) while on duty or on call.
- Unimpaired by drugs, in accordance with Council's Drug and Alcohol Procedure (available upon request)
- Contractors and their staff are subject to random drug and alcohol testing while working on Council sites

The successful Tenderers will be required to manage staff in accordance with these requirements. The successful Tenderers' staff may be called upon to be tested for drug and alcohol impairment in accordance with Council's Fit for Work requirements.

4.17 FAIR WORK REQUIREMENTS

4.18 Tenderers are required to complete and return "**Schedule L Fair Work Questionnaire**" located in **Part 3 – Response Schedules** of the tender documents as part of their response.

4.19 The Supplier warrants that all information provided to Council during or in connection with the tender process was accurate, current and complete at the time at which it was provided, including but not limited to information about its workplace policies and practices, compliance with its obligations under the Fair Work Act 2009 and Fair Work Regulations 2009 and contract management practices.

- 4.20** During the term of the Contract, the Supplier must notify Council in the event of material change to any of the information provided to Council during or in connection with the tender process, including but not limited to information about its workplace policies and practices, compliance with its obligations under the Fair Work Act 2009 and Fair Work Regulations 2009 and contract management practices.
- 4.21** During the term of the Contract, the Supplier must comply, and take all reasonable steps to ensure that its subcontractors comply, with all applicable obligations under the Fair Work Act 2009 and Fair Work Regulations 2009.
- 4.22** Within 10 business days of the commencement of this Contract, the Supplier will communicate the following information to employees and as far as practicable to all of the employees of its subcontractors:
- a) A specified representative of the Supplier that employees, including employees of subcontractors, are invited to contact if the employees have any concern about the payment of wages, loadings, allowances and penalties owed to them for any work performed during the term of the Contract; and
 - b) Where to access further information about workplace rights and entitlements including www.fairwork.gov.au or the Fair Work Infoline 13 13 94.
- 4.23** During the term of the Contract, the Supplier must provide Council with any information that Council reasonably requires to confirm that the Supplier is complying, and as far as practicable that its subcontractors are complying, with all applicable obligations under the Fair Work Act 2009 and Fair Work Regulations 2009.
- 4.24** During the term of the Contract, the Supplier will undertake audits on an annual basis to determine that the correct wages, loadings, allowances and penalties have been paid to its employees, and the Supplier will rectify any underpayments within six (6) months of identifying the underpayment.
- 4.25** During the term of the Contract, the Supplier must inform Council of any:
- a) compliance action taken by the Fair Work Ombudsman, including but not limited to penalty infringement notices, compliance notices, enforceable undertakings, proactive compliance deeds or court orders; or
 - b) other court orders; arising from non-compliance with the Fair Work Act 2009 or Fair Work Regulations 2009 by the Supplier, and any remedial action that the Supplier is required to take, has taken or proposes to take as a result of the compliance action or court order.
- 4.26** During the term of the Contract, the Supplier must actively and cooperatively participate in all compliance activities associated with its obligations under the Fair Work Act 2009 and Fair Work Regulations 2009, including but not limited to participating in investigations of workplace complaints and audits undertaken by the Fair Work Ombudsman or other regulatory agencies.
- 4.27** The Supplier must not subcontract or assign the Contract or any part of it without the written approval of the Supplier.
- 4.28** The Supplier must ensure that all subcontracts impose obligations on subcontractors equivalent to the obligations under clauses **4.18– 4.25** above.
- 4.29** The Supplier must commit all necessary resources, financial or otherwise, and meet all necessary expenses associated with the effective implementation of the requirements of clauses **4.18– 4.28** above.

4.30 Council reserves the right to terminate the Contract in the event that the Supplier fails to comply with any of the above clauses.

4.31 COVID-19 SAFE PLAN

Tenderers must follow the public health directions as issued by Queensland's Chief Health Officer. Tenderers are required to identify any restrictions or adjustments required for your type of business and ensure they can operate safely under these conditions.

Tenderers are required to complete and return "**Schedule M - COVID – 19 Safe Plan Questionnaire**" located in **Part 3 – Response Schedules** of the tender documents and are required to submit their COVID-19 Safe Plan as part of their response.

For more information, please visit www.safeworkaustralia.gov.au and www.health.qld.gov.au.

4.32 SUBCONTRACTORS

Where the Contractor nominates to use subcontractors for any part of the works, the Contractor must provide details of the nominated Subcontractor to the Principal for approval as part of the Tender and throughout the Contract. A list of nominated subcontractors shall be captured in the Project Management Plan and organisation structure. All of the Contractor's Subcontractors engaged for the works shall comply with all management plans whilst onsite. The Contractor will be deemed responsible for all subcontractors utilised for the works.

4.33 SALVAGED EQUIPMENT

Unless instructed otherwise, all salvaged pumps, pipes, fittings and electrical equipment must be delivered to the SDRC Yangan Road depot.

4.34 DOCUMENTATION

The Contractor is required to submit documentation throughout the life of the Contract. Below are the minimum documentation requirements and do not override the remainder of documentation requirements listed elsewhere in this specification.

Documentation shall be delivered in electronic format in both native file format and in *PDF format. All native drawing files submitted shall be bound in an e-transmittal with supporting files.

4.34.1. General

- Plans, Procedures and Reports,
- Minutes for meetings.

4.34.2. Construction

- ITPs;
- SWMS;
- Job Safety Analysis.

4.34.3. Commissioning

- Completed SATs;
- Completed ITPs; and,

- Competed Commissioning Plan.

4.34.4. Warranty and Handover Phase

- Electrical Certificate of Compliance;
- Practical Completion Notification;
- Vendor O&M Manuals for pumps and electrical equipment (PDF and Word); and,
- As-constructed documentation as per Section 4.14.5.

4.34.5. “As-Constructed” Documentation

- The Contractor will be responsible for revision of all design drawings to “As-Constructed” in AutoCAD format in conformance with the Southern Downs Regional Council requirements for As-Constructed drawings.
- Redline as-built markups shall be submitted by the Contractor to the Principal for approval prior to Practical Completion being awarded.
- Any drawings that were notated as to be located, sized or confirmed during construction shall have the actual dimensions or item to be confirmed detailed on the “As-Constructed” drawings.
- The Contractor shall be responsible for surveying the constructed plant and confirming all levels and locations are as per the Contract drawings. All underground pipework shall be surveyed at all bends and connections and at a maximum separation of 2m prior to backfilling. Where levels and or locations have changed, these are to be amended on the redline as-built markups.
- Where amendments to a drawing affect another drawing in the series the amendments shall be carried through to all affected drawings.
- Safety in Design Risk Register shall be updated to As-constructed version and submitted to the Principal for use during operations and maintenance.
- All as build drawings/documentation must be certified by a RPEQ.

5 EQUIPMENT AND PIPEWORK

5.1 General

All equipment supplied under this specification shall be designed and constructed in accordance with the requirements as set out in this document, design report and drawings. The Contractor shall supply all special tools and personnel access necessary to maintain the plant. Special tools are any tools not readily available at a standard retail tool outlet in Australia. Equipment shall be designed to be maintained with minimal disruptions to the operation of the facility.

5.1.1. Wetted steelwork

All pipework, steelwork, fasteners and anchors within the pump station wet well is to be grade 316L stainless steel.

5.1.2. Labelling of Assets

All equipment shall be permanently labelled with a grade 316L stainless steel label to indicate the equipment name, size and contents and the corresponding P&ID tag number. All equipment shall have the identification number as shown on the P&IDs permanently affixed to the equipment to facilitate easy identification for operation and maintenance purposes. Any submerged equipment shall have a duplicate label supplied and affixed to the platform adjacent to the equipment for ease of viewing.

All pipelines shall be labelled in accordance with AS1345.

5.1.3. Signage

All equipment will be provided with the relevant signage as required by current legislation. These signs shall include but not limited to the following: -

- Site Personal Protective Equipment (PPE) requirements;
- Eye protection must be worn;
- Caution – moving machinery;
- Danger - high voltage;
- No smoking; and
- Confined space.

5.1.4. Grouting of Mechanical Equipment

All mechanical equipment supported on concrete or the like shall be set and aligned utilising jacking screws, levelling bolts or steel packing. After equipment has been aligned by primary method the base shall be grouted into position.

50MPa non-shrink grout shall be utilised for grouting equipment and pipe stands into place.

5.2 Emergency Storage

The emergency storage installation shall be in accordance with SDRC design and drawings. Emergency storage shall be DN1500 RCP Class 2 sewer pipe (RJJ) for Market Square SPS and DN2100 RCP Class 2 sewer pipe (RRJ) for Harris Street SPS. They shall be fully DHPE lined internally by the manufacturer and, installed and liner fully weld to the manufacturer's specification by the Contractor.

Council may consider alternate industry standard emergency storage structure.

5.3 Pipework and Valves

5.3.1. Stainless Steel Pipes

All stainless steel pipes and fittings shall, unless noted otherwise, be of stainless steel Grade 316L schedule 10 pipe. The pipes and flanges shall be rated to a minimum of PN16.

Council may consider HDPE pipe instead of stainless steel pipe for in ground or sunlight protected areas.

5.3.2. Polyethylene (PE) Pipes

PE pipes shall, unless noted otherwise, comply with WSA PS-207.

PE pressure pipes, unless noted otherwise, shall be of grade PE100 series 1 to pressure rating PN16 complying with AS4130.

PE fittings shall, unless noted otherwise, comply with WSA PS-208.

PE pressure fittings, unless noted otherwise, shall be of grade PE100 series 1 to pressure rating PN16 complying with AS4129.

5.3.3. Ductile Iron Pipework and Fittings

Ductile Iron pipework and fittings installed within the valve pit shall be coated using fusion bonded epoxy (DIFBE). Ductile Iron pipe work installed in the ground shall be DIFBE with PE wrap. Where flanges are direct buried in ground the joints shall be packed with Denso Mastic and wrapped with Denso PVC tape for the full length of the joint and bolts.

5.3.4. Fasteners

All bolts, and washers used in the assembly of flanged pipes, joints, valves and fittings shall be of Grade 316 stainless steel. Nuts shall be manufactured from stainless steel Grade 304. Nickel based anti-seize lubricant shall be applied for treatment of all stainless steel bolts, nuts and washers. Stainless steel bolts and nut shall comply with the metric standards AS1111 and AS1112.

All fasteners are to be tensioned in accordance with the specific equipment manufacturer's recommendations.

All bolt lengths shall be selected to ensure between 5mm and 10mm bolt length is exposed after installation of washers, nut and tightening.

5.3.5. Gibault Joints

Gibault joints and other mechanical couplings shall comply with WSA PS-311 and shall be the elongated type with Grade 316L stainless steel bolts and Grade 304 stainless steel nuts. Where direct buried in ground the joints shall be packed with Denso Mastic and wrapped with Denso PVC tape for the full length of the joint and bolts.

5.3.6. Storage and Handling

The ends of all pipes shall be covered to prevent the ingress of debris, wildlife and internal contamination. Flanged and threaded ends of pipe shall be protected to prevent damage to threads and flange faces during transport.

All pipe shall be packaged in such a manner to prevent damage to external coating and lining including strapping to prevent chaffing during transport, unloading and storage at site. Storage of piping shall be on dunnage or pallets not in direct contact with the ground.

Rubber and plastic piping and fittings shall be protected from weather and direct ultraviolet light.

5.3.7. Installation

Installation of piping and valves shall be completed utilising temporary supports to ensure no undue stresses are applied to equipment, piping or valves during the installation process. Alignment of all piping and equipment shall be confirmed prior tensioning of fasteners. Alignment shall be checked during the tensioning process to ensure equipment is not pulled out of alignment.

Valves shall be installed with the operator nominally vertically upward or aligned between horizontal and vertically up. The angle of the operator is determined based on safe access and operability. Valve operators should never be orientated vertically down.

Installation of piping and valves the shop drawings must clearly dimension the minimum clearance between the proposed pumps and the access covers when opened to allow installation and removal of the pumps

5.4 Aluminium Access Covers

For the new hinged aluminium access covers complete with safety grate the Contractor may refer to products similar to those supplied by Austral International or McBerns Engineering. The Contractor shall ensure that the new access cover conform to the measurements provided in the design drawings.

5.5 Flow Meter

Magnetic flow meter ABB WATER MASTER or similar approved DN300 shall be installed as shown within a precast concrete pit and wired back to the switchboard for termination in the control panel and RTU. The Contractor shall provide all necessary connections and modifications within the control panel to provide output to the SCADA system and instantaneous readout in the control panel.

6 IMPLEMENTATION TIMETABLE

The Contract commences upon receipt of the letter of award. The works are required to proceed without delay from commencement through to completion.

A proposed schedule of delivery is shown in the following table.

Milestone	Date
RFT Process Assessment Advertised	09/09/2020
Site Inspection Visit	29/09/2020
Tenders Close	14/10/20
Evaluation Complete and Contract Award	26/11/2020
Commencement on or before	26/11/2020
Completion of all work	16/04/2021

7 APPENDICES

Appendix A – Market Square Design Report, Kehoe Myers

Appendix B – Harris Street Design Report, Kehoe Myers

Appendix C – Code of Environmental Compliance (ERA 63)

Appendix D – EA EPPR00558813

9. ADDITIONAL INFORMATION

Harris Street Pump Station As Con - Drawings

Market Square Warwick- As Con - Drawings