

INFORMATION ON THIS DRAWING SHALL APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS

DESIGN

D1. THE PUMP STATION HAS BEEN DESIGNED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS INCLUDING THE FOLLOWING:

- AS 1170.0:2002 (+A5:2011) STRUCTURAL DESIGN ACTIONS - GENERAL PRINCIPLES
- AS 1170.1:2002 (+A2:2009) STRUCTURAL DESIGN ACTIONS - PERMANENT, IMPOSED AND OTHER ACTIONS
- AS 1170.2:2011 STRUCTURAL DESIGN ACTIONS - WIND ACTIONS
- AS 1170.4:2007 STRUCTURAL DESIGN ACTIONS - EARTHQUAKE ACTIONS IN AUSTRALIA
- AS 1657:1992 FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION
- AS / NZS 1664:1997 (+A1:1999) SAA ALUMINIUM STRUCTURES CODE
- AS 3600:2009 (+A1:2010) CONCRETE STRUCTURES
- AS 3735:2001 CONCRETE STRUCTURES RETAINING LIQUIDS

GENERAL

- G1. NO DIMENSION SHALL BE OBTAINED BY SCALING.
- G2. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
- G3. ALL LEVELS ARE IN METRES U.N.O.
- G4. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
- G5. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
- G6. REFER ALL DISCREPANCIES TO THE WSM BEFORE PROCEEDING WITH THE WORKS.
- G7. VERIFY ALL DIMENSIONS ON THE JOB BEFORE COMMENCING WORK OR PREPARING SHOP DRAWINGS.
- G8. ALL DRAWINGS MUST BE APPROVED BY GRC BEFORE COMMENCING WORK.
- G9. DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS.
- G10. THE APPLICANT SHALL BE RESPONSIBLE FOR PROTECTING STRUCTURES AGAINST FLOTATION DURING CONSTRUCTION.
- G11. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, THE REQUIREMENTS OF RELEVANT SAA CODES, BCA AND THE LOCAL LAWS AND ORDINANCES OF THE RELEVANT GOVERNMENT AUTHORITY.
- G12. NO PENETRATIONS, CHASES OR TEMPORARY FIXTURES ARE PERMITTED WITHOUT PRIOR APPROVAL FROM THE WSM. ALL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL AND SERVICES DRAWINGS FOR PENETRATIONS, CONDUITS AND PIPES ETC.
- G13. PUMPS MUST BE ABLE TO BE REMOVED FROM, AND REINSTALLED INTO THE WET WELL, WITHOUT DISMANTLING ANY EQUIPMENT, PIPEWORK, BRACKETS OR COVERS.

PIPEWORK

- P1. WHERE CONNECTING TO EXISTING PIPEWORK, THE LEVEL AND DIAMETER OF THE EXISTING PIPEWORK, SHALL BE CONFIRMED BY THE CONTRACTOR, PRIOR TO THE CONNECTION.
- P2. ALL FLANGES SHALL BE IN ACCORDANCE WITH AS 4087.
- P3. ALL FLANGE BOLT HOLE ORIENTATIONS SHALL BE OFF-CENTRE U.N.O.
- P4. ALL FLANGE BOLT SETS SHALL BE GRADE 316 S/STEEL.
- P5. FLANGE GASKET MATERIAL AND THICKNESS SHALL BE IN ACCORDANCE WITH AS 4087.
- P6. THRUST AND PUDDLE FLANGES SHALL BE CAST CENTRALLY WITHIN WALLS UNLESS SHOWN OTHERWISE.
- P7. ALL FLANGED, SPIGOT AND SOCKET DCL PIPEWORK SHALL BE CLASS PN35.
- P8. ALL GATE AND REFLUX VALVES SHALL BE INTERNALLY AND EXTERNALLY COATED WITH A POLYMERIC COATING.
- P9. ALL GATE VALVES SHALL BE RESILIENT SEATED AND O-RING SEALED.

ELECTRICAL

- E1. THE LOCATION OF ALL CONDUITS SHALL BE CONFIRMED BY THE WATER SERVICE PROVIDER PRIOR TO CONSTRUCTION OF THE SWITCHBOARD SLAB.
- E2. REFERENCE SHALL BE MADE TO CMDG ELECTRICAL ENGINEERING STANDARDS.
- E3. FOR ELECTRICAL WORKS STANDARDS REFER GRC-ES001: ELECTRICAL WORK.
- E4. FOR PREFERRED ELECTRICAL COMPONENTS REFER GRC-ES002: PREFERRED ELECTRICAL COMPONENTS.
- E5. FOR PRE-FABRICATED SWITCHROOM STANDARDS REFER GRC-ES003.
- E6. FOR STANDARD LIGHT POWER DB REFER GRC-ES005.
- E7. FOR STANDARD ELECTRICAL & VALVE EQUIPMENT LABELS REFER GRC-ES008: ELECTRICAL AND VALVE EQUIPMENT IDENTIFICATION LABELS.
- E8. FOR PLAIN REINFORCED PRESTRESSED CONCRETE STANDARDS GRC-ES011: PLAIN, REINFORCED AND PRE-STRESSED CONCRETE (JWP-88-001).
- E9. FOR FABRICATED METALWORKS STANDARDS REFER GRC-ES013: FABRICATED METALWORK (JWP-88-002).
- E10. FOR STANDARD CONSTRUCTION REQUIREMENTS FOR SEWER PUMP STATIONS REFER GRC-ES016: STANDARD CONSTRUCTION REQUIREMENTS SEWER PUMP STATIONS.

ABBREVIATIONS

A1. ABBREVIATIONS SHALL BE IN ACCORDANCE WITH STANDARDS AUSTRALIA PUBLICATION "SYMBOLS AND ABBREVIATIONS FOR BUILDING AND CONSTRUCTION" EXCEPT AS FOLLOWS:-

ECDP	ELECTRICAL CONDUIT DRAW PIT
FL	FLANGE
FSL	FINISHED SURFACE LEVEL
GJ	GIBBAULT JOINT
RRJ	RUBBER RING JOINT
SP	SPIGOT
SC	SOCKET
S/STEEL	STAINLESS STEEL
STD DRG	STANDARD DRAWING
TWL	TOP WATER LEVEL
BWL	BOTTOM WATER LEVEL
UNO	UNLESS NOTED OTHERWISE
PWWF	PEAK WET WEATHER FLOW
PDWF	PEAK DRY WEATHER FLOW
ADWF	AVERAGE DRY WEATHER FLOW
MDWF	MINIMUM DRY WEATHER FLOW

AUTHORISED FOR CONSTRUCTION

AUTHORISED BY APPLICANT

We certify that all the information provided on this drawing will ensure that the pump station is fully suited for its intended use and that it complies with all Council specifications and/or requirements.

----- Date:-----
Applicant / Applicants Authorised Officer

AUTHORISED BY DESIGN ENGINEER

We certify that all the information provided on this drawing will ensure that the pump station is fully suited for its intended use and that it complies with all Council specifications and/or requirements.

----- RPEQ: ----- Date: -----
Design Engineer / Design Engineers Authorised Officer

AUTHORISED BY OWNER

We certify that all the information provided on this drawing will ensure that the pump station is fully suited for its intended use and that it complies with all Council specifications and/or requirements.

Owner / Owners Authorised Officer _____ Date: _____

AUTHORISED BY LOCAL GOVERNMENT AUTHORITY

You are advised that Council have NOT undertaken a detailed dimensional or design check and that this review in no way relieves your company of the responsibility for ensuring that all variable dimensions, levels, equipment and workmanship is in compliance with the relevant codes and specifications and for ensuring that the pump station design and equipment is fully suited for its intended use.

Water Services Manager OR Delegate _____ Date: _____

AUTHORISED BY LOCAL GOVERNMENT AUTHORITY

You are advised that Council have NOT undertaken a detailed dimensional or design check and that this review in no way relieves your company of the responsibility for ensuring that all variable dimensions, levels, equipment and workmanship is in compliance with the relevant codes and specifications and for ensuring that the pump station design and equipment is fully suited for its intended use.

Technical Services Manager OR Delegate Date: _____

AUTHORISED BY LOCAL GOVERNMENT AUTHORITY

You are advised that Council have NOT undertaken a detailed dimensional or design check and that this review in no way relieves your company of the responsibility for ensuring that all variable dimensions, levels, equipment and workmanship is in compliance with the relevant codes and specifications and for ensuring that the pump station design and equipment is fully suited for its intended use.

Director of Engineering Services OR Delegate

APPLICABILITY TABLE							
Council	BSC	CHRC	GRC	IRC	LSC	MRC	RRC
Applicable	No	No	Yes	No	No	No	No
Applicable DWG							

REVISIONS		DATE	<p>DISCLAIMER.</p> <p>The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, of consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.</p>	Capricorn Municipal Development Guidelines		<p>Incorporating:</p> <p>Banana Shire Council (BSC) Central Highlands Regional Council (CHRC) Gladstone Regional Council (GRC) Livingstone Shire Council (LSC)</p> <p>Maranoa Regional Council (MRC) Rockhampton Regional Council (RRC) Isaac Regional Council (IRC)</p>	SEWERAGE PUMP STATIONS NOTES AND CONSTRUCTION AUTHORISATION		SEWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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