GENERAL
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE TWEED SHIRE COUNCIL (TSC) DEVELOPMENT DESIGN SPECIFICATION - DRAWING TSCP.02 (Rev C) - 2014, TSCP.04 (Rev C) - 2015, TSCP.05 (Rev C) - 2016, TSCP.06 (Rev C) - 2017, TSCP.07 (Rev C) - 2018, TSCP.08 (Rev C) - 2019, AND TSCP.09 (Rev C) - 2020.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.
4. INTERNAL SURFACES OF WET WELL AND COLLECTOR MANHOLE TO BE CAST OF DUCTILE IRON SPECIAL SLEEVE. INTO CONCRETE SHALL BE FLANGED DUCTILE IRON SPECIAL PRIOR TO ORDERING.

ELECTRICITY
1. THE CLEAR DISTANCE BETWEEN ADJACENT CONDUITS SHALL BE AT LEAST 30mm.
2. THE CLEAR DISTANCE BETWEEN THE CONDUITS AND THE TUBE WALLS SHALL BE AT LEAST 100mm.
3. THE SWITCHGEAR CABINET AND ELECTRICAL EQUIPMENT SHALL BE SECURED AGAINST THE PUMP SLAB.
4. THE EARTH STAKE BOX SHALL BE CAST INTO A 300 SQUARE CONCRETE SLAB POSITIONED AGAINST THE PUMP SLAB.
5. TOP OF CONCRETE PLINTH FOR THE ELECTRICAL CABINET TO BE AT LEAST 200mm ABOVE THE BUILDING LEVEL.

ACCESS COVERS
ACCESS OPENING POSITIONS TO ENSURE THAT ISOLATING VALVES CAN BE OPERATED WITH BEAM IN PLACE AND SYMPHONIC PIPE WORK READY ACESSED.

PUMPS
1. ALL PUMPS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO ORDERING.
2. PRESSURE PIPES THRU THE PUMP WELL, VALVE PIT OR CAST INTO CONCRETE SHALL BE FLANGED DUCTILE IRON SPECIAL. SPECIAL FLANGED DUCTILE IRON SPECIAL, WITHIN A RADIUS OF 50mm FROM A PUMP COLUMN, SHALL BE REINFORCED WITH REINFORCEMENT AS PER AS 4087, FIGURE B5.
3. ALL FLANGES SHALL BE DRILLED TO AS 4087, FIGURE B5.
4. PIPED FITTING(S) OF EQUAL SIZE (MIN 150mm) SHALL BE FITTED TO BE FLANGED COATED INTERNALLY & EXTERNALLY.
5. BURIED PUMP DRAIN AND PUMP SUMP PIPING AS SHOWN IN THE FOLLOWING TABLE, WHERE IN CONFLICT WITH AS 4087-2002, THIS TABLE SHALL TAKE PRIORITY.

CONCRETE & REINFORCEMENT
- MATERIALS AND CONSTRUCTION TO AS 3600, AS 3610 STRENGTHENING MATERIALS TO AS 4671
- CONCRETE PLINTH TO AS 2638, CLIP GRADE 20MPa
- CONCRETE MARKER TO AS 2638, CLIP GRADE 20MPa
- CONCRETE WALLS AND SLEEVES TO AS 3600
- CONCRETE SLEEVES TO AS 3600
- CONCRETE FLOOR TO AS 3600
- CONCRETE COLUMN TO AS 3600
- REINFORCEMENT TO AS 4671, CLASS MINIMUM
- PRESTRESSED REINFORCEMENT TO AS 4671, CLASS minimum
- USE DUAL DURABILITY STEEL, AS PER AS 4671
- USE PRECAST REINFORCEMENT, AS PER AS 4671

SEWERAGE WORKS STANDARDS - S.D.220-02

WATER SUPPLY
1. A METERED WATER SUPPLY, COMPLETE WITH RPZ IS TO BE PROVIDED AND SURPLUS TO BUILDING REQUIREMENTS, TO BE DISCARDLED AND DISPOSED OF IN A PROPER MANNER.
2. FIELD DENSITY TESTS ARE TO BE TAKEN OVER THE FULL DEPTH OF FOUNDATIONS. TESTS SHOULD BE PERFORMED OVER A MINIMUM WIDTH OF 100mm TO ENSURE THE SUITABILITY OF THE FOUNDATION.
3. THE TOP SURFACE OF THE BUILDING FLOOR SLAB (IF THERE IS A FLOOR SLAB) SHALL BE AT A HEIGHT OF AT LEAST 300mm ABOVE THE BOTTOM FLOOR SLAB, OR ON THE 100 YEAR FLOOD LEVEL.

ODOUR CONTROL & VENTILATION
1. WHERE A SEWERAGE PUMP STATION, COLLECTION MANHOLE OR RISING MAIN RECEIVES FLOWS FROM A RISING MAIN HAVING A DETENTION TIME GREATER THAN FOUR HOURS IN THE SOURCE (BASED ON AWD), THEN AN ODOUR CONTROL MANAGEMENT PLAN IS TO BE SUBMITTED AS PART OF THE PRELIMINARY DEVELOPMENT APPLICATION.
2. ENSURE THAT MINIMUM DURABILITY STEEL, AS PER AS 4671, IS USED FOR ALL DETAILS OF CONCRETE PUMPS AND PUMP SLEEVES.
3. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS PER AS 4671, MANDATORY.

FLOWMETER
1. UNLESS APPROVED OTHERWISE THE ELECTROMECHANICAL FLOWMETER IS TO BE PROVIDED AND SELECTED AND MAINTAINED IN ACCORDANCE WITH THE TSC APPROVED MANUFACTURER, SUITABLE FOR SEWERAGE APPLICATIONS, INSTALLATION IN AN OUTSIDE PIPE TO SUIT MUNICIPAL OR DIRECT BUREAU WATER SUPPLY
1. A METERED WATER SUPPLY, COMPLETE WITH RPZ IS TO BE PROVIDED AND SURPLUS TO BUILDING REQUIREMENTS, TO BE DISCARDLED AND DISPOSED OF IN A PROPER MANNER.
2. FIELD DENSITY TESTS ARE TO BE TAKEN OVER THE FULL DEPTH OF FOUNDATIONS. TESTS SHOULD BE PERFORMED OVER A MINIMUM WIDTH OF 100mm TO ENSURE THE SUITABILITY OF THE FOUNDATION.

SEWERAGE WORKS STANDARDS - S.D.220-02

WATER SUPPLY
1. A METERED WATER SUPPLY, COMPLETE WITH RPZ IS TO BE PROVIDED AND SURPLUS TO BUILDING REQUIREMENTS, TO BE DISCARDLED AND DISPOSED OF IN A PROPER MANNER.
2. FIELD DENSITY TESTS ARE TO BE TAKEN OVER THE FULL DEPTH OF FOUNDATIONS. TESTS SHOULD BE PERFORMED OVER A MINIMUM WIDTH OF 100mm TO ENSURE THE SUITABILITY OF THE FOUNDATION.

ODOUR CONTROL & VENTILATION
1. WHERE A SEWERAGE PUMP STATION, COLLECTION MANHOLE OR RISING MAIN RECEIVES FLOWS FROM A RISING MAIN HAVING A DETENTION TIME GREATER THAN FOUR HOURS IN THE SOURCE (BASED ON AWD), THEN AN ODOUR CONTROL MANAGEMENT PLAN IS TO BE SUBMITTED AS PART OF THE PRELIMINARY DEVELOPMENT APPLICATION.
2. ENSURE THAT MINIMUM DURABILITY STEEL, AS PER AS 4671, IS USED FOR ALL DETAILS OF CONCRETE PUMPS AND PUMP SLEEVES.
3. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS PER AS 4671, MANDATORY.

FLOWMETER
1. UNLESS APPROVED OTHERWISE THE ELECTROMECHANICAL FLOWMETER IS TO BE PROVIDED AND SELECTED AND MAINTAINED IN ACCORDANCE WITH THE TSC APPROVED MANUFACTURER, SUITABLE FOR SEWERAGE APPLICATIONS, INSTALLATION IN AN OUTSIDE PIPE TO SUIT MUNICIPAL OR DIRECT BUREAU WATER SUPPLY
1. A METERED WATER SUPPLY, COMPLETE WITH RPZ IS TO BE PROVIDED AND SURPLUS TO BUILDING REQUIREMENTS, TO BE DISCARDLED AND DISPOSED OF IN A PROPER MANNER.