

- NOTES:**
- THIS METER ASSEMBLY ARRANGEMENT IS ONLY APPLICABLE FOR ABOVE GROUND INSTALLATIONS WITHIN PRIVATE PROPERTY OF LARGE DIAMETER FIRE SERVICES (SPRINKLER & HYDRANT, Ø100MM-Ø150MM) AND WATER SERVICES (DOMESTIC, Ø50MM-Ø150MM) FOR RESIDENTIAL (MULTI-UNIT), COMMERCIAL, AND INDUSTRIAL DEVELOPMENTS. FOR OTHER ARRANGEMENTS, INCLUDING BASEMENT INSTALLATIONS, CONTACT UNITYWATER DEVELOPMENT SERVICES.
 - FOR ARRANGEMENT OF METERED WATER SERVICES OF SIZES Ø20MM TO Ø25MM, REFER TO SEQ CODE STANDARD DRAWING SERIES SEQ-WAT-1108-1 TO SEQ-WAT-1108-3.
 - STANDARD DRAWINGS SEQ-WAT-1108-4 & SEQ-WAT-1108-5 ARE NOT FOR CONSTRUCTION AND ONLY DEPICT INDICATIVE ARRANGEMENTS. IT IS THE DESIGNER'S RESPONSIBILITY TO SPECIFY THE MAKE, MODEL AND SIZES OF ALL PIPES AND FITTINGS REQUIRED FOR INSTALLATION OF THE SERVICE ARRANGEMENT, INCLUDING ISOLATION VALVES, CONTAINMENT PROTECTION DEVICES AND WATER METERS IN ACCORDANCE WITH THE CURRENT SEQ CODE ACCEPTED CIVIL PRODUCTS AND MATERIALS LIST. REFER TO APPROVED DESIGN DRAWINGS FOR SPECIFIC INSTALLATION REQUIREMENTS.
 - THESE STANDARD DRAWINGS SEQ-WAT-1108-4 & SEQ-WAT-1108-5 MUST BE READ IN CONJUNCTION WITH THE SEQ CODE (AMENDED WSA03-2011 WATER SUPPLY CODE OF AUSTRALIA), AS 2419 FIRE HYDRANT INSTALLATIONS; AS/NZS 3500.1 PLUMBING AND DRAINAGE PART 1: WATER SERVICES AND THE DESIGNER'S HYDRAULIC DRAWINGS WHICH ARE SUBJECT TO SEPARATE APPROVAL BY THE RELEVANT COUNCIL PLUMBING REGULATORY AUTHORITY.
 - THE MAXIMUM ALLOWABLE OFFTAKE SIZE FOR FIRE SERVICES (SPRINKLER & HYDRANT) AND WATER SERVICES (DOMESTIC) FROM THE UNITYWATER MAIN IN THIS STANDARD DRAWING IS Ø150MM.
 - FOR ITEM 1, REFER TO STANDARD DRAWING SEQ-WAT-1105-2 FOR ACCEPTABLE CONNECTOR TYPES. FOR SUPPLY MAINS IN PVC-O OR PE MATERIAL, DESIGNER SHALL SPECIFY OFFTAKE USING THE CUT-IN CONNECTION METHOD. FOR DETAILS ON UNDER PRESSURE CUT-IN CONNECTION TO PRESSURE PIPES ≥DN80, REFER TO WSA 03-2011-3.1 APPENDIX C.
 - CONTAINMENT PROTECTION USING BACKFLOW PREVENTION DEVICES IN ACCORDANCE WITH AS/NZS 2845.1 IS REQUIRED FOR AT LEAST A LOW HAZARD RATING OF CROSS CONNECTION FOR ALL CONNECTIONS TO THE WATER SUPPLY NETWORK (REFERENCE AS/NZS 3500.1 CLAUSE 4.4.4). ONLY LOW HAZARD RATED CONTAINMENT PROTECTION VALVES ARE INCLUDED IN THE TABLE BELOW. CONTAINMENT PROTECTION REQUIREMENTS FOR MEDIUM OR HIGH HAZARD RATED TYPE PREMISES SHALL BE IDENTIFIED IN THE APPLICATION AND SUITABLE VALVES SPECIFIED BY THE DESIGNER.
 - ALL ABOVE GROUND PIPES AND FITTINGS SHALL BE FLANGED DICL PRESSURE CLASS PN16.
 - PIPES THAT PENETRATE CONCRETE SHALL BE LAGGED WITH 12MM THICK COMPRESSIBLE FOAM FILLER.
 - FOR FIRE HYDRANT SERVICES, ONLY ABOVE GROUND HYDRANT PILLARS AND FIRE HOSE REELS MAY BE CONNECTED. CONNECTION OF WATER SERVICE TO A SPRINKLER SERVICE OR DOWNSTREAM OF A HYDRANT SERVICE METER IS NOT PERMITTED. A FIRE SERVICE MUST NOT INTERCONNECT WITH A WATER DOMESTIC SERVICE UNDER ANY CIRCUMSTANCE.
 - FOR CONNECTION OF UP TO 3 FIRE HOSE REELS TO A FIRE SERVICE, THE FIRE SERVICE BYPASS PIPE AND METER SIZE SHALL BE Ø25MM. FOR CONNECTION OF MORE THAN 3 FIRE HOSE REELS TO A FIRE SERVICE, THE BYPASS PIPE AND METER SIZE SHALL BE SPECIFIED BY THE DESIGNER.
 - FIRE SERVICES (SPRINKLER AND HYDRANT) SIZES OF Ø100MM AND Ø150MM SHALL BE INSTALLED WITH ISOLATING GEAR OPERATED BUTTERFLY VALVES WHICH SHALL BE LOCKED IN THE OPEN POSITION WITH THE USE OF QFES APPROVED '003 TYPE' LOCKS.
 - INSTALL BUTTERFLY VALVES WITH THE SPINDLE/STEM ALIGNED IN THE HORIZONTAL PLANE TO ENABLE THE LOWER PART OF THE DISC TO MOVE IN THE FLOW DIRECTION WHEN THE VALVE IS OPENED. ALIGN OPERATING WHEELS IN THE TOP HORIZONTAL PLANE (REFER UNITYWATER PR9693 SPECIFICATION FOR MECHANICAL INSTALLATIONS, SECTION 8.1.1.23).
 - WATER SERVICE SIZES OF Ø50MM SHALL BE SUPPLIED AND INSTALLED WITH WATERMARKED BALL VALVES AND UNIONS.
 - ALL WATER METERS SHALL BE SPECIFIED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH UNITYWATER SPECIFICATION FOR WATER METERS (Pr10068).
 - AT THE LIMIT OF WORKS, THE DEVELOPER'S LICENSED PLUMBER IS RESPONSIBLE FOR REPLACING GASKET(S) AT ALL VALVE FLANGE FACE(S).
 - TESTING OF ALL CONTAINMENT PROTECTION DEVICES (ITEMS 5, 6, 10 & 17 WHERE APPLICABLE) SHALL BE CARRIED OUT BY THE PROPERTY OWNER'S BACKFLOW ENDORSED LICENSED PLUMBER AND IN ACCORDANCE WITH THE REQUIREMENTS OF AS 2845.3.
 - WHERE THE INSTALLATION IS ADJACENT TO A TRAFFICABLE AREA AND NOT SEPARATED BY A STANDARD RAISED KERB, THE DESIGNER SHALL SPECIFY ADEQUATE BOLLARD PROTECTION OF THE ASSEMBLY ARRANGEMENT.

CONTAINMENT PROTECTION - VALVE PRODUCT SPECIFICATION (OR UNITYWATER APPROVED EQUIVALENT PER SEQ CODE CIVIL IPAM LIST)					
HAZARD RATING	SIZE	PRODUCT DESCRIPTION	VALVE CHEQ PART No.	APPLICATION	ITEM No.
LOW	150mm	TESTABLE SINGLE CHECK SDCT03 (50kPa) VALVE	2066330BFGO	FIRE HYDRANT SERVICE	6
LOW	100mm	TESTABLE SINGLE CHECK SDCT03 (50kPa) VALVE	2066164BFGO		
LOW	40mm	TESTABLE SINGLE CHECK SCT03 (16kPa) CO FS BYPASS VALVE	2234355FSBV	FIRE HYDRANT SERVICE BYPASS VALVE	10
LOW	25mm	TESTABLE SINGLE CHECK SCT03 (16kPa) CO FS BYPASS VALVE	2234353FSBV		
LOW	150mm	TESTABLE SINGLE CHECK SDCT03 (16kPa) VALVE	2206072	FIRE SPRINKLER SERVICE	5
LOW	100mm	TESTABLE SINGLE CHECK SDCT03 (16kPa) VALVE	2206070		
LOW	150mm	NON TESTABLE DuCV DUAL CHECK DC03U C/W GEAR-OPERATED BUTTERFLY VALVES & BOLT KIT (16kPa)	2024586BFGO	WATER (POTABLE) SERVICE Y - TYPE STRAINER REQUIRED	16
LOW	100mm	NON TESTABLE DuCV DUAL CHECK DC03U C/W GEAR-OPERATED BUTTERFLY VALVES & BOLT KIT (16kPa)	2027167BFGO		
LOW	80mm	NON TESTABLE DuCV DUAL CHECK DC03U C/W GEAR-OPERATED BUTTERFLY VALVES & BOLT KIT (16kPa)	2026566BFGO		
LOW	65mm	NON TESTABLE DuCV DUAL CHECK DC03U C/W GEAR-OPERATED BUTTERFLY VALVES & BOLT KIT (16kPa)	2237357BFGO		
LOW	50mm	NON TESTABLE DuCV DUAL CHECK DC03U C/W BALL VALVES & UNIONS (16kPa)	2025906FSBV		

REV. No.	DATE	DESCRIPTION	AUTH.
B	05-08-19	MINOR SPELLING AMENDMENT	UW

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

WATER SUPPLY STANDARD DRAWING

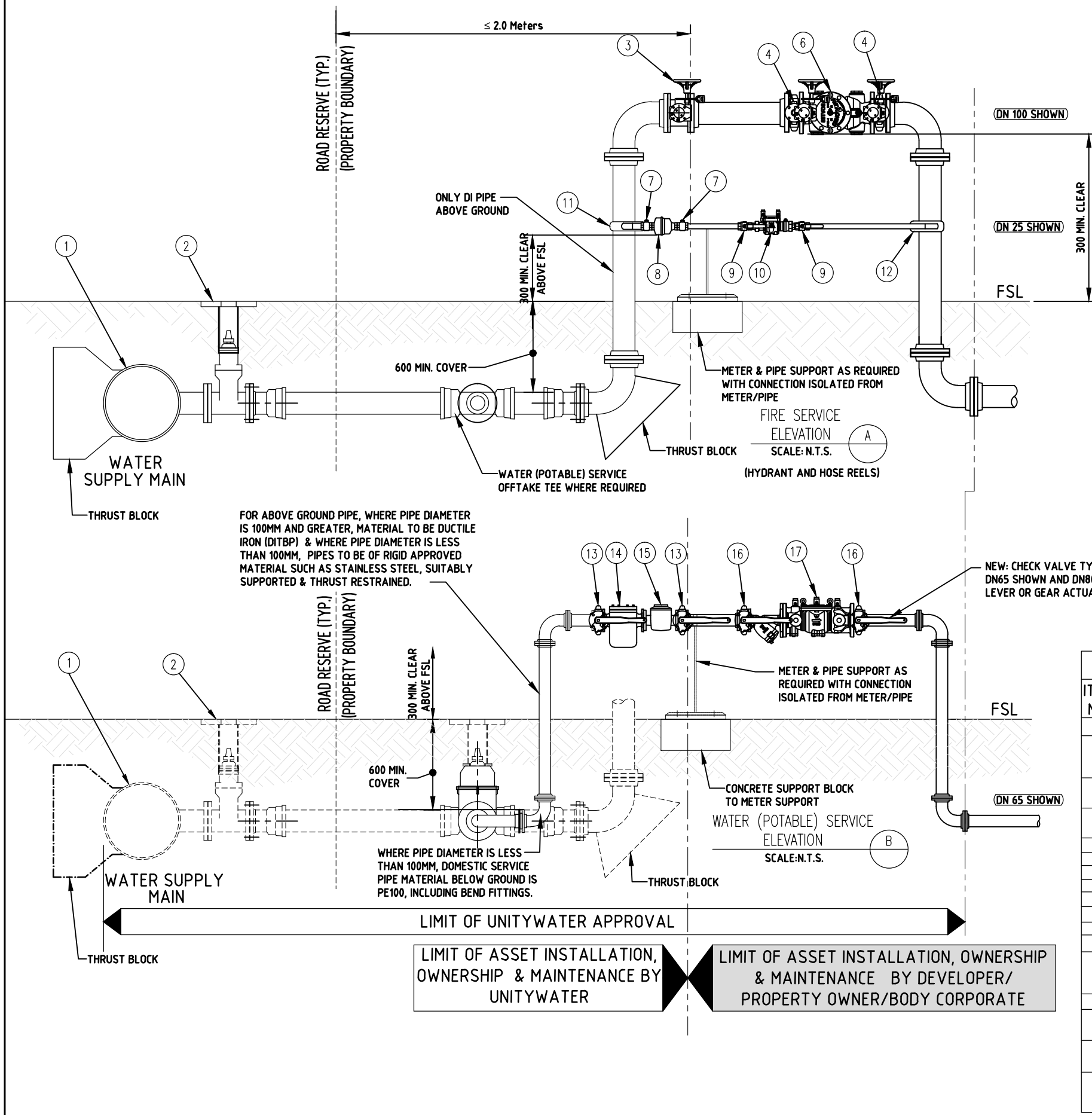
LARGE DIAMETER METERED SERVICES ≥50MM
FIRE SERVICE (SPRINKLER OR HYDRANT) AND
WATER SERVICE (DOMESTIC) LAYOUT PLANS

SHEET 1

	SEQ-WAT-1108-4 DRAWING No.	B VERSION
NOT TO SCALE	ORG DATE: 15/02/2019	

NOTES:

THIS DRAWING MUST BE READ IN CONJUNCTION WITH UW-6885-1108-4 FOR LAYOUT ARRANGEMENT VIEWS AND NOTES.



KEY FITTING LIST (ALL FITTINGS SUBJECT TO UNITYWATER APPROVAL)				
ITEM NO.	QTY	ASPECT	DESCRIPTION	INSTALLATION BY
1	1	MAIN OFFTAKE	APPROVED CONNECTION (SPECIFY UNDER PRESSURE OR CUT-IN METHOD PER NOTE 6)	UNITYWATER
2	1		MAIN ISOLATION RESILIENT SEATED GATE VALVE (MIN DN100 FOR SPRINKLER OR FIRE HYDRANT SERVICE) PER SEQ-WAT-1301-1, WITH VALVE BOX AND COVER PER SEQ-WAT-1305-1 AND SEQ-WAT-1306-1.	UNITYWATER
3	1	FIRE SPRINKLER OR FIRE HYDRANT SERVICE	ISOLATION BUTTERFLY VALVE GEAR OPERATED LOCKABLE, CLOCKWISE CLOSING DIRECTION (MIN SIZE DN100 FOR FIRE HYDRANT SERVICE)	UNITYWATER
4	2	FIRE SERVICE	BUTTERFLY VALVE, LUGGED TAPPED TYPE, GEAR OPERATED, LOCKABLE (CHECK VALVE ISOLATION)	DEVELOPER
5	1		SPRINKLER SERVICE SINGLE CHECK VALVE, TESTABLE (SCVT)	DEVELOPER
6	1	FIRE HYDRANT SERVICE	FIRE HYDRANT SERVICE SINGLE CHECK VALVE, TESTABLE (SCVT) (MIN SIZE Ø100)	DEVELOPER
7	2		BALL VALVE THREADED, LOCKABLE (WATER METER ISOLATION)	UNITYWATER
8	1	FIRE HYDRANT SERVICE BYPASS	WATER METER TO UNITYWATER SPECIFICATION (FIRE SERVICE BYPASS)	UNITYWATER
9	2		BALL VALVE, THREADED, LOCKABLE (CHECK VALVE ISOLATION)	DEVELOPER
10	1	FIRE SERVICE BYPASS	SINGLE CHECK VALVE, TESTABLE (SCVT) (MIN SIZE DN25) (FIRE SERVICE BYPASS)	DEVELOPER
11	1		DI TAPPING BAND UPSTREAM (FIRE SERVICE BYPASS) REFER SEQ-WAT-1108-5	UNITYWATER
12	1	FIRE SERVICE BYPASS	DI TAPPING BAND DOWNSTREAM (FIRE SERVICE BYPASS) REFER SEQ-WAT-1108-5	DEVELOPER
13	2		BUTTERFLY VALVE, LUGGED, LEVER OR GEAR OPERATED (WATER METER ISOLATION) FOR ≥Ø65MM OR BALL VALVE, THREADED, LOCKABLE FOR Ø50MM SIZE METER ISOLATION)	UNITYWATER
14	1	WATER (POTABLE) SERVICE	BASKET TYPE STRAINER ('DIRT BOX')	UNITYWATER
15	1		WATER METER TO UNITYWATER SPECIFICATION (WATER (POTABLE) SERVICE) INCLUDING ACCESSIBLE BASKET TYPE INLINE STRAINER ("DIRT BOX")	UNITYWATER
16	2	WATER (POTABLE) SERVICE	BALL VALVE, THREADED OR BUTTERFLY VALVE, WAFER, LEVER OR GEAR ACTUATED (CHECK VALVE ISOLATION)	DEVELOPER
17	1		WATER (POTABLE) SERVICE DOUBLE CHECK VALVE, TESTABLE (DCV) INCLUDING Y-TYPE STRAINER	DEVELOPER

REV. No.	DATE	DESCRIPTION	AUTH.

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

WATER SUPPLY STANDARD DRAWING
 LARGE DIAMETER METERED SERVICES ≥50MM
 FIRE SERVICE (SPRINKLER OR HYDRANT) AND
 WATER SERVICE (DOMESTIC) ELEVATIONS
 SHEET 2

CoGC	LEC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-WAT-1108-5				A
NOT TO SCALE				ORG DATE: 15/02/2019