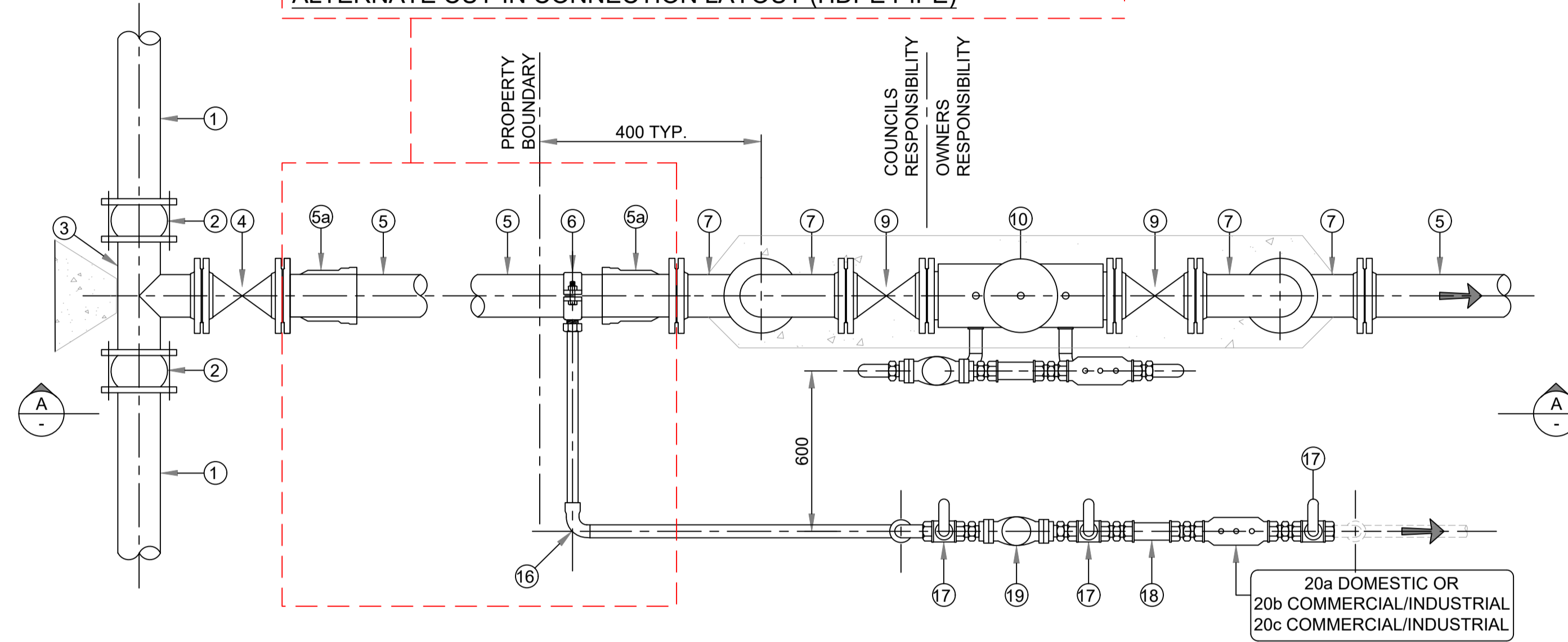


POTENTIAL THRUST RESTRAINT FOR PE SHRINKAGE (ENGINEER TO ASSESS REQUIREMENT PER MRWA WATER DESIGN CALCULATOR FOR PE SHRINKAGE. TYPICAL REQUIREMENT PER THIS CALCULATOR IS THRUST RESTRAINT REQUIRED FOR DN125 OD PE PIPE >9M AT 25 DEGREES).

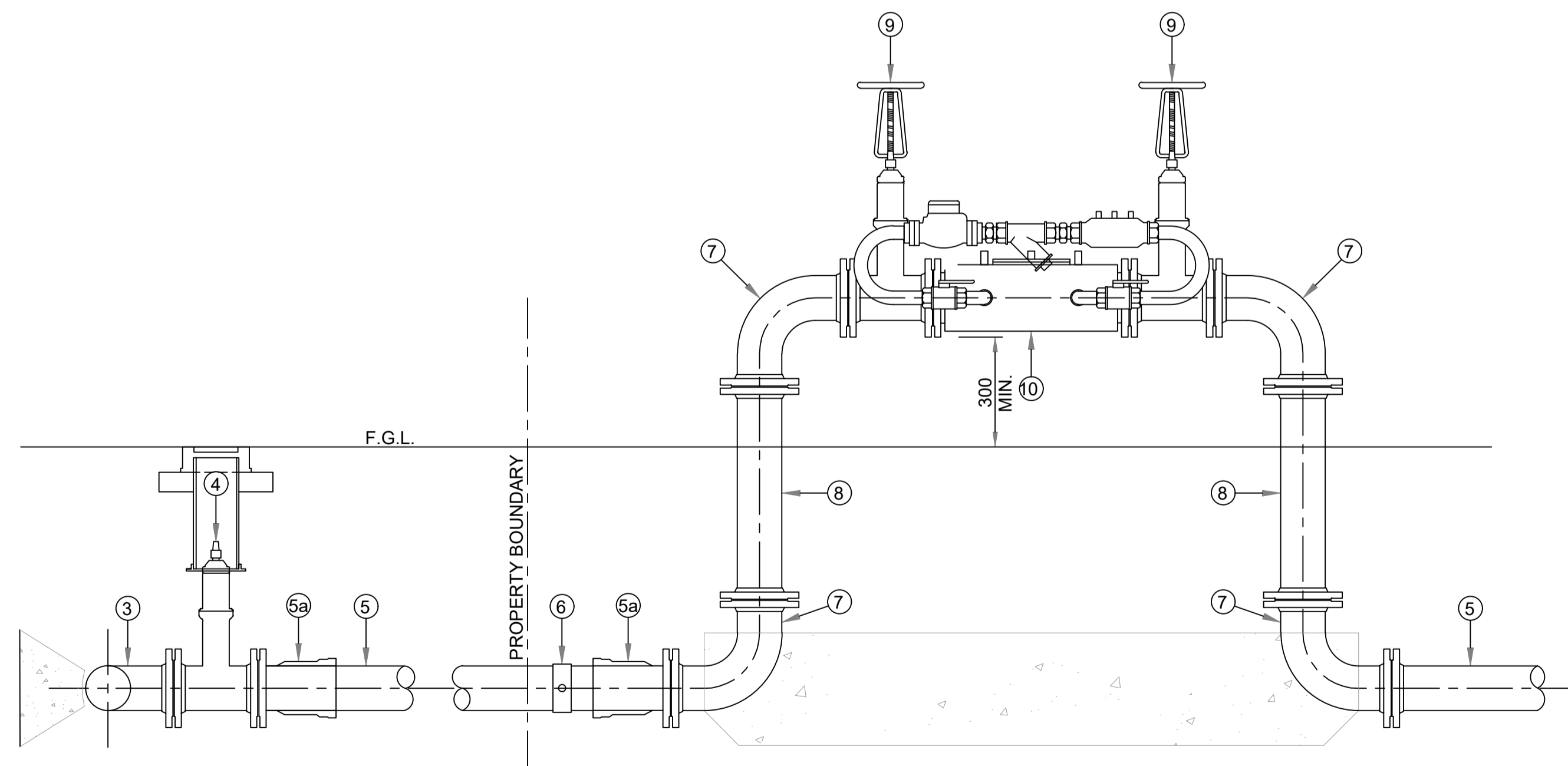
ALTERNATE CUT-IN CONNECTION LAYOUT (HDPE PIPE)



CUT-IN CONNECTION LAYOUT (SERIES 2 PVC PIPE)

PLAN

FITTING SCHEDULE		
ITEM	DESCRIPTION	No.
1	EXISTING COUNCIL WATER MAIN	
2	MULTIFIT GIBALT FBN COATED WITH S/S NUTS & BOLTS	2
3a	DICL TEE SP/SP/FL AS APPROVED BY BSC	1
3b	FULL CIRCLE STAINLESS STEEL FLANGED TAPPING CLAMP & LIVE TAP AS REQUIRED, APPROVED BY BSC.	
4	SLUICE VALVE FL/FL. RESILIENT SEATED, FBN COATED, CLOCKWISE CLOSE	1
5	SERIES 2 PVC PIPE DN 100 MINIMUM OR 125mm OD PE PN16 UNDER BORE AS REQUIRED, APPROVED BY BSC.	
5a	DICL CONNECTOR FL/SOC AS APPROVED BY BSC	2
6	TAPPING SADDLE WITH FULL CIRCLE DESIGN AS PER SD BSC.103	1
7	DICL 90° BEND FL/FL	4
8	DICL PIPE PIECE FL/FL	2
9	RISING SPINDLE SLUICE VALVE FL/FL, RESILIENT SEATED, FBN COATED AND CLOCKWISE CLOSING (PER BSC SPECIFICATIONS)	2
10	DOUBLE DETECTOR CHECK VALVE WITH 40mm METERED BYPASS (35Kpa 1st CHECK ASSEMBLY) BYPASS METER TO BE OBTAINED FROM BSC	1
16	TYPE 'B' COPPER TUBE	1
17	BALL VALVE 90° LOCKABLE ON 20 + 25mm	1
18	'Y' STRAINER	1
19	WATER METER OBTAINED FROM BSC	1
20a	32mm OR 40mm OR 50mm DUAL CHECK VALVE FOR DOMESTIC SERVICE (LOW BACKFLOW HAZARD RATING)	1
20b	32mm OR 40mm OR 50mm DOUBLE CHECK VALVE FOR INDUSTRIAL/COMMERCIAL 20b SERVICE. (LOW TO MEDIUM BACKFLOW HAZARD RATING)	1
20c	32mm OR 40mm OR 50mm RPZD (HIGH) BACKFLOW HAZARD RATING	1
30	PE STUB FLANGE + STAINLESS STEEL BACKING RING (TABLE D PER AS21129)	2
31	EF COUPLING DN125	4
32	THRUST RESTRAINT WITH PUDDLE FLANGE SHORT PIPE (AS REQUIRED)	2



CUT-IN CONNECTION SECTION

SECTION A SCALE 1:20 (A3)

- NOTES:**
- ANY IRRIGATION TAKEN OFF THE DOMESTIC SERVICE SHALL REQUIRE AN ADDITIONAL BACKFLOW PREVENTION DEVICE TO BE INSTALLED AT TAKE OFF POINT
 - ALL PIPE FITTINGS TO COMPLY WITH BYRON SHIRE COUNCIL SUPPLY CONTRACT SPECIFICATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING PIPE LENGTHS AND FITTINGS TO ENSURE CONSTRUCTABILITY PRIOR TO ORDERING PIPES AND FITTINGS
 - LOCKED CHAIN TO BE INSTALLED ON VALVES WITH FIRE PADLOCK 003.

A	ORIGINAL ISSUE	J.S.	10.2024
ISSUE	AMENDMENT DETAILS	INITIALS	DATE



DESIGN UNIT
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DESIGN ENGINEER	JASON STANLEY DATE 25.10.24
DRAWN	ENGINEERING DESIGN UNIT
SCALE	NOT TO SCALE

PROJECT:	WATER SUPPLY STANDARDS
PLAN TITLE:	FIRE & GENERAL SUPPLY CONNECTION TO PRESSURISED MAIN

DRAWING NUMBER:	BSC. 106
	OCT 2024

