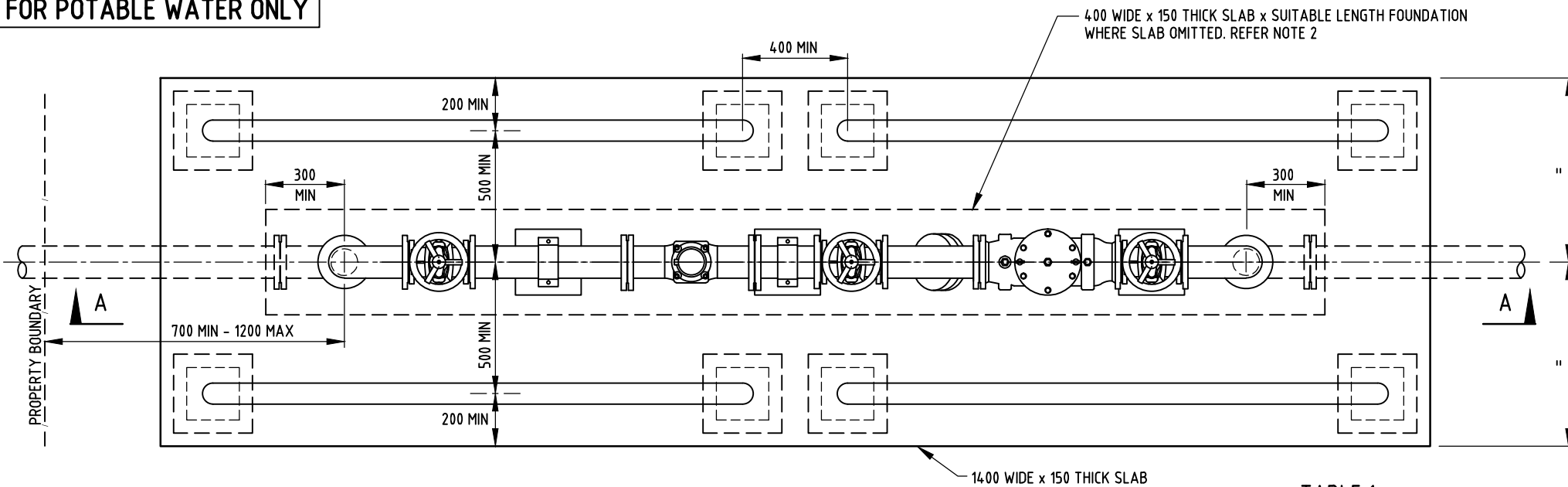
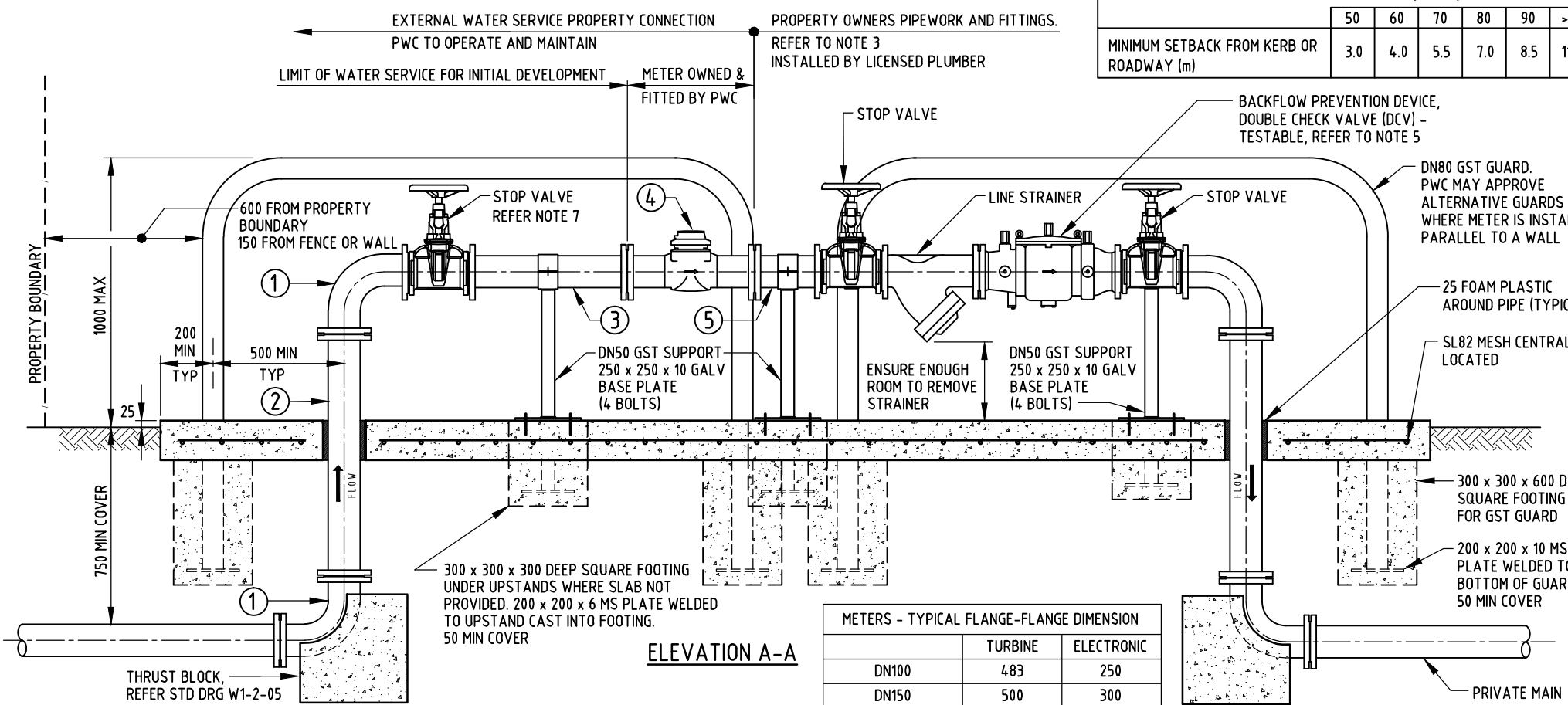


FOR POTABLE WATER ONLY



PLAN



ELEVATION A-A

METERS - TYPICAL FLANGE-FLANGE DIMENSION		
	TURBINE	ELECTRONIC
DN100	483	250
DN150	500	300

TABLE 1

ROAD DESIGN SPEED (KPH)		50	60	70	80	90	>90
MINIMUM SETBACK FROM KERB OR ROADWAY (m)		3.0	4.0	5.5	7.0	8.5	11.0

NOTES:

- TRAFFICABLE AREAS - INSTALL PROTECTION GUARD, UNLESS OTHERWISE APPROVED BY PWC, TO PREVENT DAMAGE FROM VEHICLES AND RESTRICT ACCESS BY PEDESTRIANS. THE METER ASSEMBLY IS TO BE A MINIMUM 300mm FROM PROTECTION GUARD, FENCE OR WALL.
- INSTALLATION OPTIONS:
 - UNSEALED (HARDSTAND) AREAS - INSTALL CONCRETE SLAB AS SHOWN. PIPEWORK SUPPORTS TO BE SUPPORTED BY SLAB AND BOLTED TO SLAB.
 - SEALED AREAS - CONCRETE SLAB MAY BE OMITTED. PIPEWORK SUPPORTS TO BE PLACED ON FOUNDATION AS SHOWN.
 - GARDEN AREAS - CONCRETE SLAB MAY BE OMITTED WITH PRIOR PWC APPROVAL. PIPEWORK ASSEMBLY MUST BE FREE OF ANY VEGETATION PLANTING. PIPEWORK SUPPORTS TO BE PLACED ON FOUNDATION AS SHOWN.
- THE DETAILS SHOWN FOR THE PROPERTY OWNER'S PIPEWORK AND FITTINGS ARE REPRESENTATIVE ONLY. THE DESIGN SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS INCLUDING AS2419.1 AND AS/NZS 3500.
- A BACKFLOW CERTIFIED PLUMBER IS REQUIRED TO DETERMINE THE RISK OF CONTAMINATION OF THE POTABLE WATER SUPPLY DUE TO CROSS CONNECTIONS REFER AS/NZS 3500.1. A TESTABLE BACKFLOW PREVENTION DEVICE SHALL BE FITTED.
- THE TYPE OF CONTAINMENT BACKFLOW PREVENTION DEVICE INSTALLED SHALL BE SUITABLE FOR THE FORM OF CROSS-CONNECTION IDENTIFIED AND CORRESPONDING HAZARD RATING IN ACCORDANCE WITH AS/NZS 3500.1.
- WHERE A REGISTERED AIR GAP (RAG) OR REGISTERED BREAK TANK (RBT) IS PROPOSED IN LIEU OF A TESTABLE BACKFLOW PREVENTION DEVICE, DISCUSS REQUIREMENTS WITH PWC.
- ISOLATION VALVES SHALL BE APPROVED RESILIENT SEATED SLUICE VALVES FITTED WITH HAND WHEELS.
- ON COMPLETION OF WATER SERVICE, PROVIDE BLANK FLANGE, GASKETS, NUTS, BOLTS AND WASHERS TO VALVE OUTLET.
- USE GRADE N32 CONCRETE WITH 80mm NOMINAL SLUMP AND 20mm MAXIMUM AGGREGATE COMPLYING WITH AS1379.
- USE ONLY THOSE MANUFACTURERS' PRODUCTS SHOWN APPROVED IN THE WATER AND SEWAGE INFRASTRUCTURE PRODUCTS MANUAL
- WHERE METER IS INSTALLED PARALLEL TO WALL OR FENCE, MINIMUM CLEARANCE BETWEEN METER FLANGES AND WALL OR FENCE SHALL BE 300mm. WHERE THE METER ARRANGEMENT IS INSTALLED IN A BUILDING, ALSO REFER W1-1-30.
- ALL ABOVE GROUND DUCTILE IRON FITTINGS MUST BE EPOXY COATED IN (RILSAN) BLUE.
- WHERE ROUND AND OTHER-SHAPED FLANGES ARE MIXED, THE GASKET SHALL MATCH THE SHAPED FLANGE.
- WHEN POURING CONCRETE FOR THRUST BLOCKS AGAINST FITTINGS, PLACE GEOTEXTILE MATERIAL (MIN 6mm THICK) BETWEEN FITTING AND CONCRETE TO PREVENT DAMAGE TO THE FITTING. JOINTS MUST BE CLEAR OF CONCRETE.
- GRADE 4.6 GALVANISED MILD STEEL BOLTS WITH GALVANISED WASHERS UNDER HEAD AND BOLT PERMITTED FOR USE ON ABOVE GROUND FLANGES (RATED TO PN16).
- USE EPDM 3mm THICK GASKETS ABOVE GROUND.
- BOLTS, NUTS, WASHERS AND GASKETS FOR METER INSTALLATION SUPPLIED BY PWC.
- PRESSURE TEST WATER SERVICE AT 1000kPa FOR 4 HOURS (NO PRESSURE LOSS PERMITTED).
- DISINFECT PIPEWORK IN ACCORDANCE WITH PWC WATER SERVICES CUSTOMER HANDOUT 5 - GUIDELINE FOR DISINFECTION OF SUBDIVISIONS AND WATER SERVICE CONNECTIONS FROM 20mm AND GREATER
- DEFAULT POSITION USES TURBINE METER, PWC TO NOMINATE ELECTRONIC METER AT DESIGN APPROVAL STAGE, IF REQUIRED.
- NOTE: ELECTRONIC METER CONFIGURATION BASED ON MINIMUM FIVE DIAMETERS UPSTREAM AND TWO DIAMETERS DOWNSTREAM.
- WHERE THE METER ARRANGEMENT IS LOCATED IN A ROAD RESERVE, PROVIDE SETBACK FROM KERB OR ROADWAY REFER TABLE 1.
- NOTE: THIS ASSEMBLY IS NOT PERMITTED FOR USE WITH CLASS D IRRIGATION. REFER TO AS/NZS 3500.

ITEM	DESCRIPTION	METER SIZE DN		NOTES	ITEM	DESCRIPTION	METER SIZE DN		NOTES
		100	150				100	150	
1	90° BEND DI FLANGE	2	2	LENGTH DETERMINED ON SITE	4	METER (DN100)	1	-	METER SUPPLIED & FITTED BY PWC AFTER PAYMENT OF FEES
2	EXTENSION PIPE DI FLANGED	1	1		5	METER (DN150)	-	1	
3	STRAIGHT PIPE DI FLANGED (DN100)	600mm	-		STRAIGHT PIPE FLANGED DN100 DI	N/A	-	-	DN100 TURBINE METER
	STRAIGHT PIPE DI FLANGED (DN150)	-	750mm	STRAIGHT PIPE FLANGED DN100 SS (SCH10) OR DI	230mm	-	-	DN100 ELECTRONIC METER	
				STRAIGHT PIPE FLANGED DN150 DI	-	150mm	-	DN150 TURBINE METER	
				STRAIGHT PIPE FLANGED DN150 SS (SCH10) OR DI	-	350	-	DN150 ELECTRONIC METER	

NO	DESCRIPTION	DRN	DATE	CKD	APPD
5	GENERAL AMENDMENTS 2020.	PW	JULY'20	JR	DC
4	PIPE EXTENSION REMOVED & NOTES MODIFIED.	AW	NOV'18	JR	DC
3	ISOLATION VALVE ADDED. DIMENSION 'A' MODIFIED. NOTE 4 & 11 CHANGED.	AW	JUNE'12	RJ	RJ
2	DRAWING REDRAWN. OPTIONS ADDED.	RGI	NOV'08	RJ	JP
1	ELEVATION AND PLAN REVIEWED. NOTES REVIEWED. PROTECTIVE COATING REVIEWED.	RGI	AUG'13	MCH	NWM



DES	NMcC	WATER STANDARD DRAWING	
DRN	AD/AG	SERVICES - DN100 AND DN150	
CHK	NMcC	ABOVE GROUND SINGLE METER CONNECTION	
APPD	NMcC	MEDIUM RISK SUPPLY (INDUSTRIAL & IRRIGATION)	
SCALE	N.T.S.	A3	DRAWING NUMBER W1-1-17C
ISSUED	07/01		
ALL DIM. IN mm			5
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	