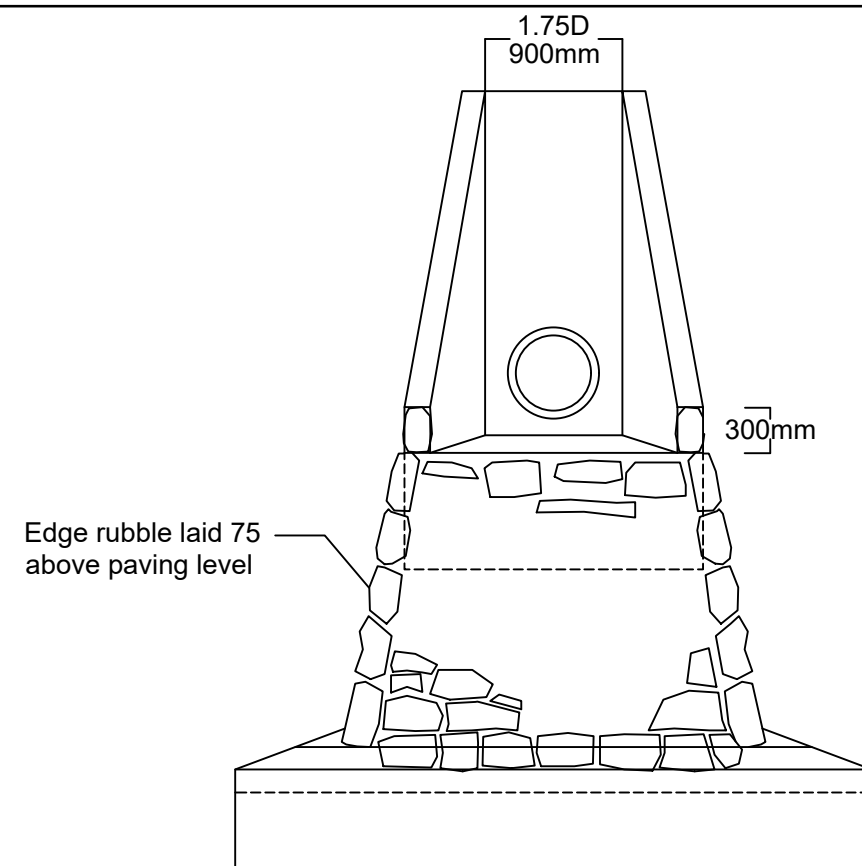
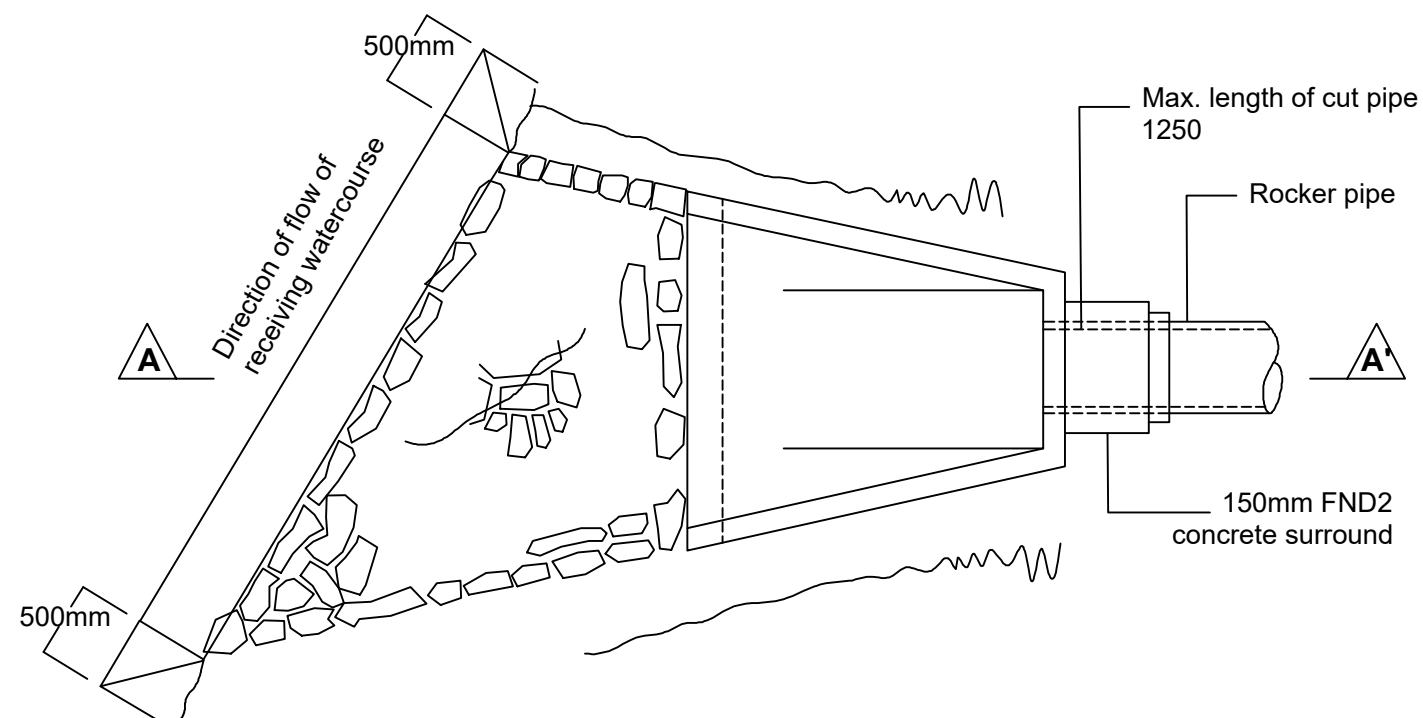
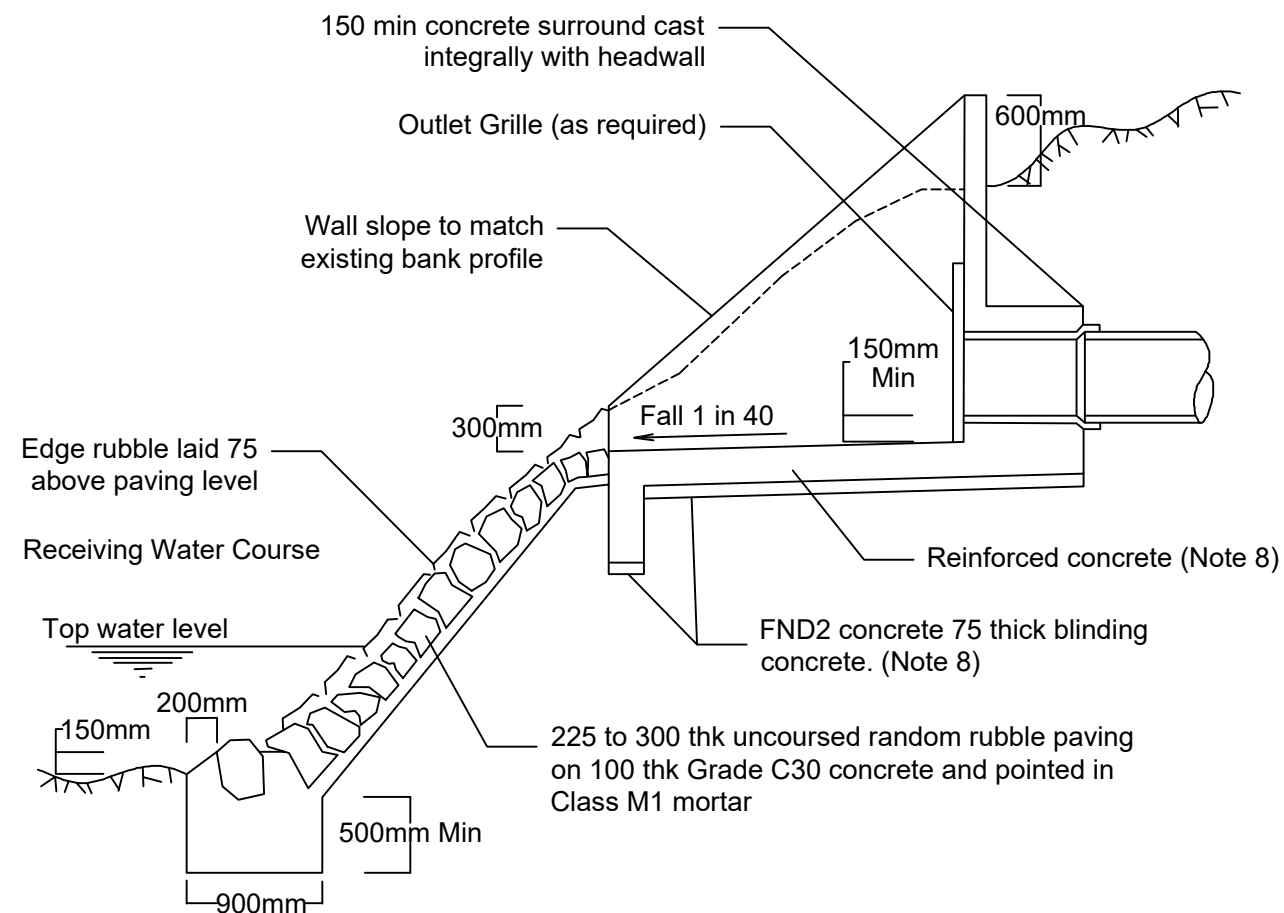




1. Generally the angle between the direction of flow of the receiving watercourse and the outfall pipe should be 45 degree
2. All reinforced concrete edges to be finished with a 25 x 25 fillet.
3. Min cover to reinforcement in the top face of the base slab to be 40.
4. The bed and opposite bank of the watercourse may, in certain circumstances need to be protected by 225 to 300 thick uncoursed rubble pitching laid on a 100 thick bed of type FND2 concrete (Note 8) and pointed in Class M1 Mortar. The stone for pitching shall consist of large smooth faced stones roughly dressed square and shall be of a hard durable and inert material. Bunter sandstone, Keuper waterstones and Carboniferous shales and mudstones are not to be used.
5. An Outlet Grille must be provided on all outfalls where the pipe size exceeds 450mm. Where pipe diameters are 375 to 450, 20 dia. stainless steel bars are to be provided across outlet at max. 120mm c/c leaving 100mm max. clear opening.
6. Where outlets have a flap valve, a special detailed grille must be provided on all outlets 375mm diameter and above.
7. Secure handrailing shall be supplied where a person may fall 2 metres or more or where a fall of less than 2 metres carries an increased risk of injury due to the landing surface. All fencing to provide anti-poaching protection.
8. FND2 to be used for soil conditions Sulphate class 1 only, Designated mix references type FND3, FND4A & FND4B to be 3.4A and 4B respectively.

NOTES

1. ALL DIMENSIONS AND LEVELS IN MILLIMETERS AOD UNLESS NOTED OTHERWISE.
2. TO BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
3. DETAILS ARE REPRESENTATIVE ONLY.

0	KH	JP	AS	FOR PLANNING	12.02.25
VERSION	AUTH	CHKD	REVD	REASON FOR ISSUE	DATE
S2		For Planning			
SUITABILITY CODE		SUITABILITY DESCRIPTION			



UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
ALTERNATIVE TEMPORARY PARK AND RIDE
AND HGV MARSHALLING AREA
PROPOSED OUTFALL HEADWALL DETAIL PLAN

SCALE 1:50	SHEET SIZE A3
DRAWING NUMBER RVBC-P&R-APP-DR-012	REVISION 0