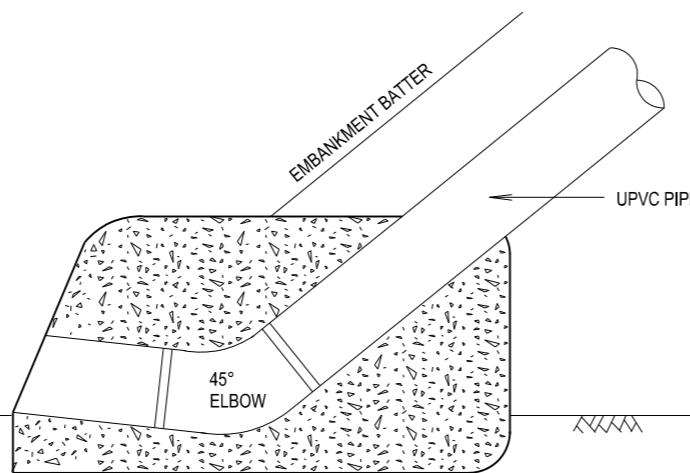


MASS CONCRETE

DETAIL A
NOT TO SCALE

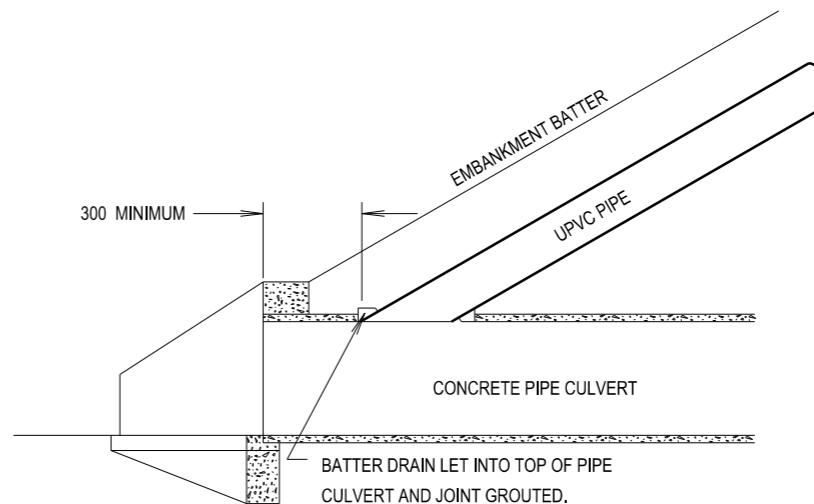


UPVC PIPE

45° ELBOW

EMBANKMENT BATTER

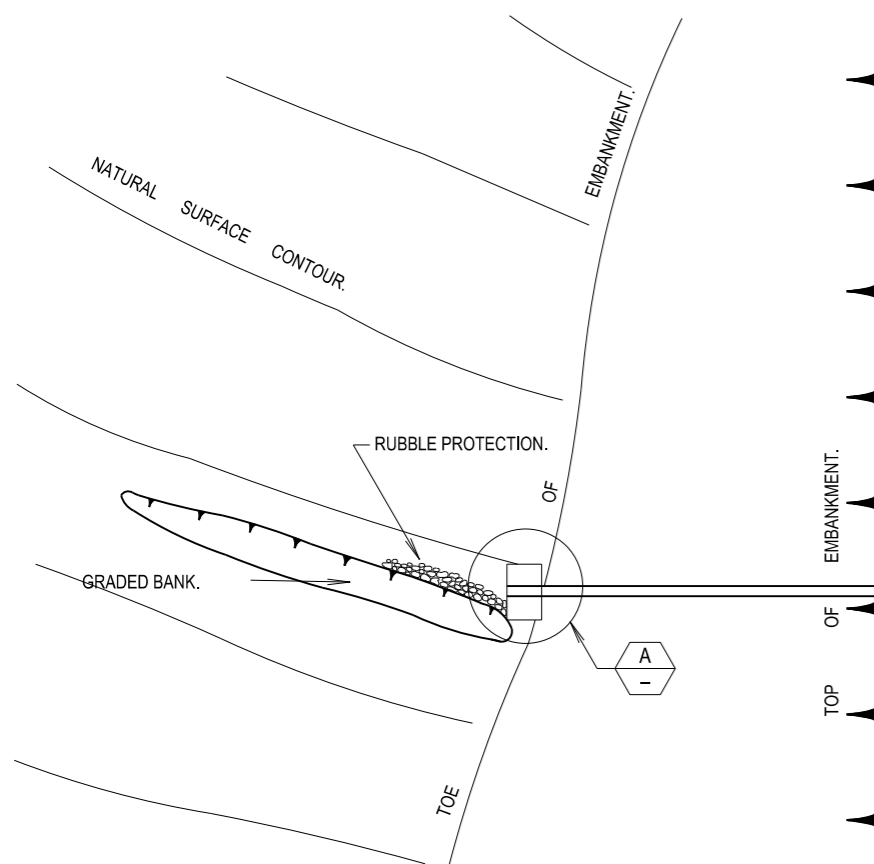
300 MINIMUM



CONCRETE PIPE CULVERT

BATTER DRAIN LET INTO TOP OF PIPE CULVERT AND JOINT GROUTED.

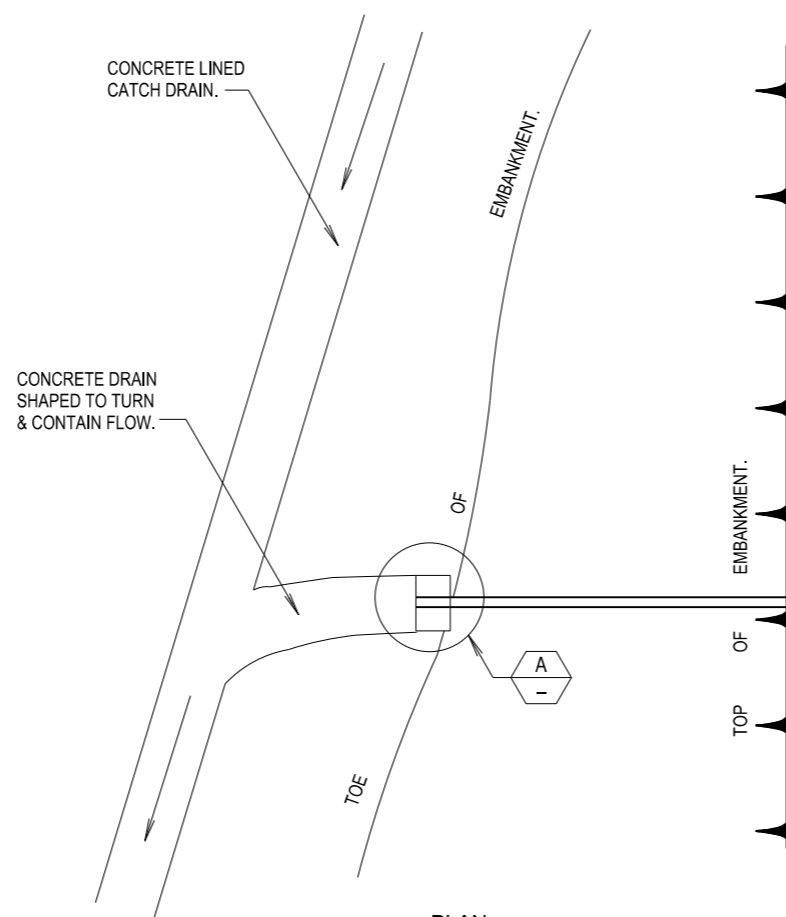
SECTION 1
NOT TO SCALE



PLAN
BATTER DRAIN OUTLET
TO GRADED EARTH BANK

NOTES

1. MAXIMUM GRADE OF BANK 1.5%.
2. BANK TO BE RUBBLE PROTECTED FOR FIRST 3.0 m.
3. BANK SHOULD OUTLET TO UNDISTURBED AREA.



PLAN
BATTER DRAIN OUTLET
INTO CONCRETE CATCH DRAIN

NOTES

1. CUT APPROPRIATE HOLE IN TOP OF PIPE CULVERT AT MINIMUM 300 mm FROM END OF PIPE.
2. FILL GAP AROUND JOINT WITH AN EPOXY RESIN MORTAR OR POLYESTER RESIN MORTAR.

BATTER DRAIN OUTLET
AT PIPE CULVERT

NOTES

1. NO PART OF INSTALLED UPVC PIPE TO BE EXPOSED TO DIRECT SUNLIGHT.
2. ALL UPVC PIPE & FITTINGS TO BE SEWER GRADE.

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

QR CODE SCAN TO CHECK DOCUMENT VER.			REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN	CONTACT DETAILS SEND FEEDBACK ON THIS STANDARD DRAWING TO : technologystandards@rms.nsw.gov.au	ISSUED SFR MANAGER ROAD POLICY, SPECIFICATIONS & TECHNOLOGY	Transport Roads & Maritime Services PREPARED BY ENGINEERING SERVICES ROAD POLICY, SPECIFICATIONS AND AND TECHNOLOGY	STANDARD DRAWING ROAD DESIGN ENGINEERING R0230 STORMWATER DRAINAGE SERIES - BATTER DRAINS VARIOUS OUTLETS FOR UPVC BATTER DRAINS SHEET 1 OF 1	REV.
								DATE 20.01.17		STANDARD DRAWING No. R0230-10 STATUS ISSUED EDMS No. DS2014/005883 ORIGINAL ISSUE DATE JANUARY 2017			-