



NOTES:

1. AREA TO BE RIP-RAPED SHALL BE SHAPED AND FREED OF IRREGULARITIES, FINE GRADED AND THOROUGHLY COMPACTED SO AS TO PROVIDE ADEQUATE FOUNDATION.
2. RIP-RAP SHALL BE LAID CLOSELY AND VOIDS SHALL BE FILLED WITH SPALLS. THE OUTSIDE PIECES SHALL BE EMBEDDED INTO THE SIDES OF THE SHAPED DITCH.
3. RIP-RAP TO BE BROKEN CONC. FIELD STONES OR BOULDERS 900 x 225 x 450 mm IN SIZE AND SHALL BE HAND LAID.
4. VOIDS IN THE TOP TWO COURSES SHALL BE COMPLETELY FILLED WITH MORTAR CONSISTS OF 1 PART PORTLAND CEMENT TO 3 PARTS FINE AGGREGATE WORKED INTO CONSISTENCY SUFFICIENT FOR PLACEMENT BY TROWEL. EXCESS MORTAR FROM OUTER FACES SHALL BE REMOVED WITH A STIFF BRUSH.

All dimensions are in millimetres unless otherwise shown.



ENGINEERING AND CONSTRUCTION SERVICES STANDARD DRAWING

REV 1

APR 2013

RIP - RAP HEADWALL  
FOR 450 mm DIA PIPES AND SMALLER

T-810.01-1

NTS

SHEET 1