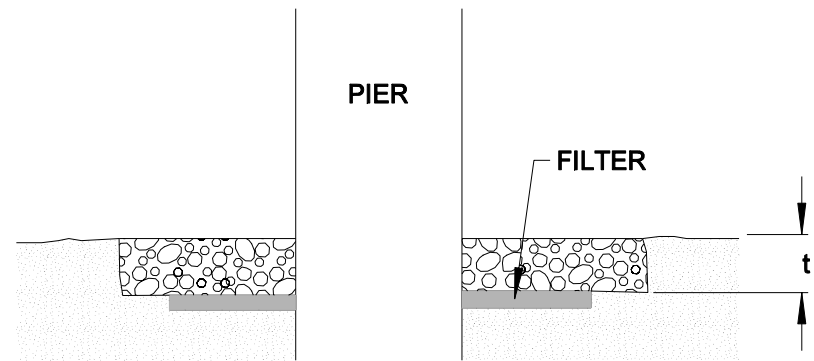


**PLAN VIEW**

- NOTES:**
1. PIER WIDTH = "a" (NORMAL TO FLOW).
  2. RIPRAP EXTENT = 2(a) FROM PIER (ALL AROUND).



**SECTION A-A'**

- NOTES:**
1. MINIMUM RIPRAP THICKNESS  $t=3d_{50}$  , DEPTH OF CONTRACTION SCOUR, OR DEPTH OF BED FORM TROUGH, WHICHEVER IS GREATEST.
  2. FILTER EXTENT = 2/3 THAT OF RIPRAP (ALL AROUND).