NOTE:
1. Grouted riprap detail to be used only upon approval from City of Tulsa Stormwater Design Department.
2. Riprap to be toe'd in 3" minimum around perimeter with filter fabric.
3. Riprap size to be determined by engineer. Filter fabric shall be placed between riprap and soil. Riprap to be placed so as not to damage filter fabric.

SECTION A-A

NOTE:
Toss down riprap all around outside perimeter of riprap

EXIST. HEADWALL

EXIST. APRON

12" min. stones grout to full depth of stones with 2,500 psi grout

FILTER FABRIC
COMPACTED TO 95% PROCTOR DENSITY

NEW HEADWALLS MUST BE BUILT TO NEW STANDARDS

* FOR REFERENCE ONLY