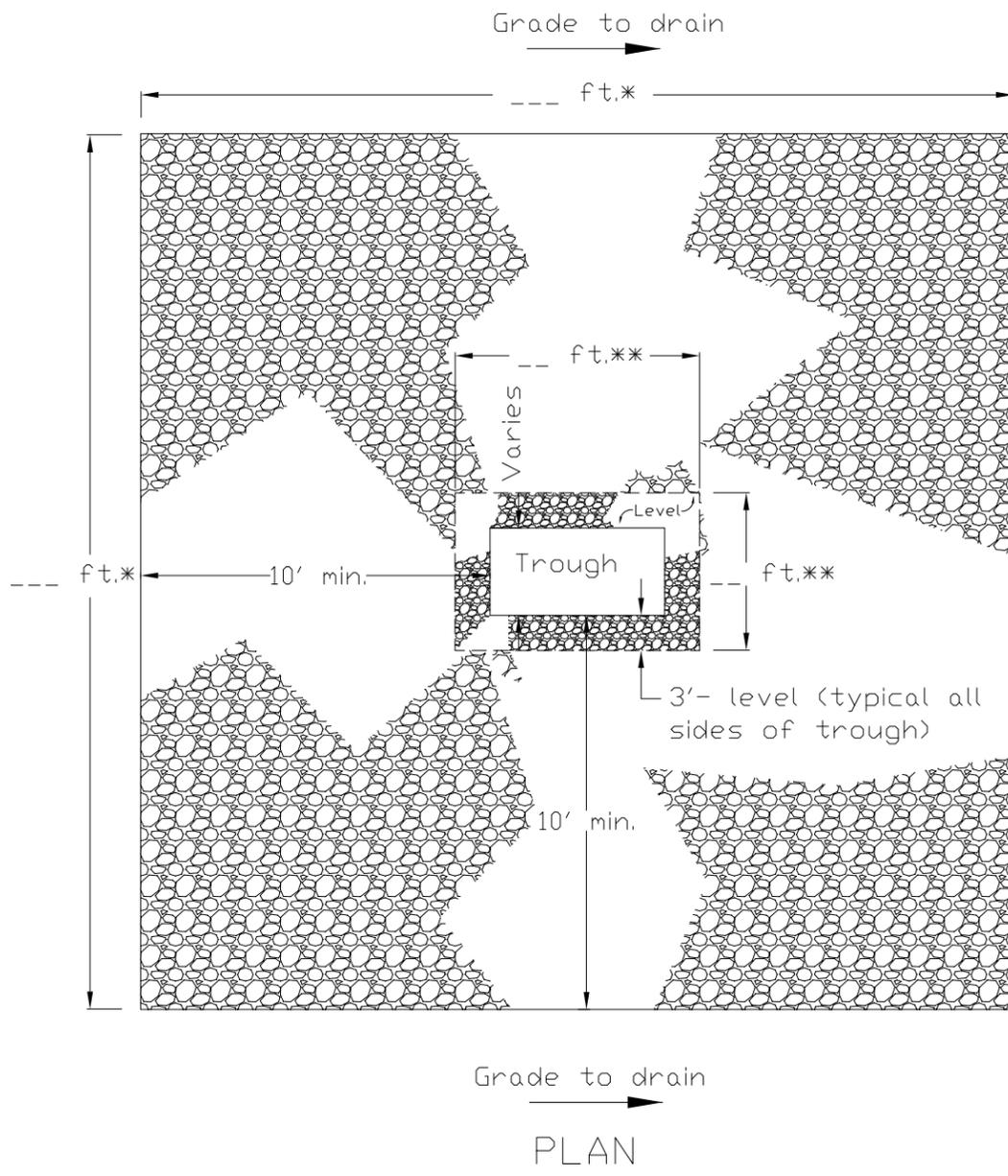


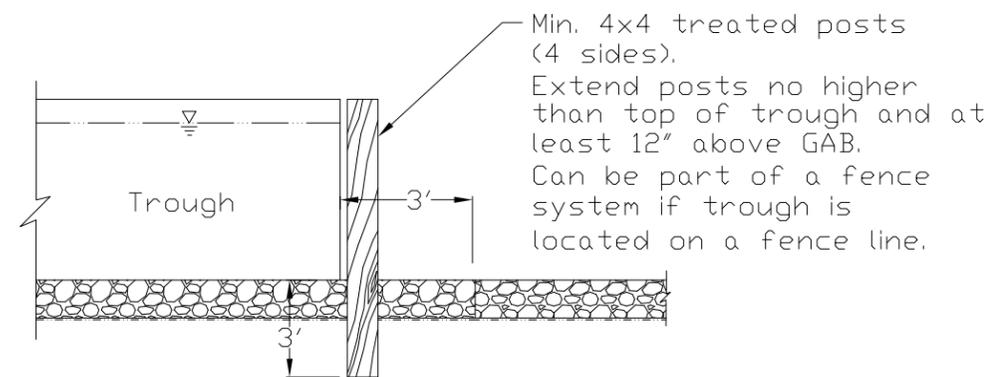
Grade to drain  
in excavated area  
to prevent ponded  
water.



PLAN

NOTES:

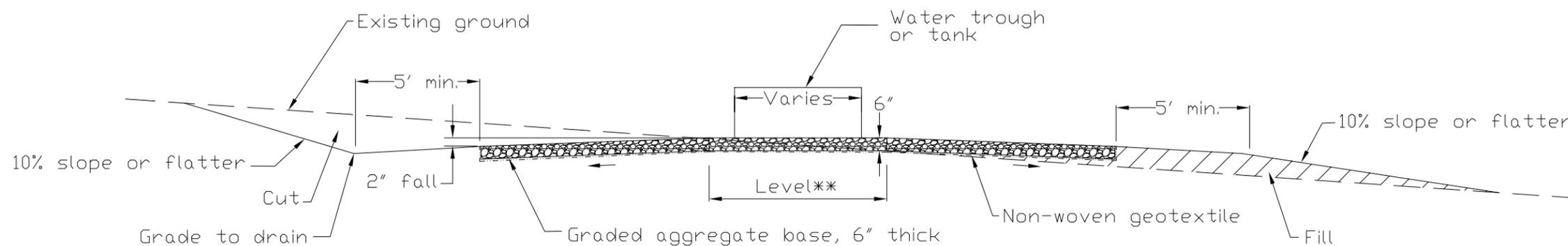
1. Locate troughs on sites having an existing ground slope of 4% or flatter.
2. Non-woven geotextile shall have a minimum tensile strength of 120 lb. and a puncture strength of 60 lb.
3. Graded aggregate base (GAB) shall meet the requirements in Conservation Practice Standard 561 - Heavy Use Area Protection.
4. Seed and mulch all disturbed areas according to Conservation Practice Standard 342 - Critical Area Treatment.
5. Open top troughs or troughs smaller than 500 gallon capacity (exclusive of concrete troughs or ball waterers) will be secured on at least four sides by using treated posts embedded at least 2 ft. through the GAB pad (see typical method to secure open troughs).
6. See AL-ENG-614-01a or AL-ENG-614-02a for details of freeze-proof water supply installation.



TYPICAL METHOD TO SECURE OPEN-TOP TROUGHS

\* The outside dimensions of the Graded Aggregate Base (GAB) will be the dimensions (length, width, or diameter) of trough plus 20 feet. Small ruminants may be trough plus 12 feet.

\*\* The outside dimensions of the level section of GAB will be dimensions (length, width, or diameter) of trough plus 6 feet. The foundation and GAB under the trough will be compacted with manual mechanical compaction equipment to ensure a level foundation that will not settle when loaded.



TYPICAL SECTION

(Details this sheet are not to scale)

Date	
Designed	
Drawn	
Checked	
Approved	

GAB ONLY HEAVY USE AREA PROTECTION  
FOR WATERING FACILITY  
LANDOWNER  
COUNTY, ALABAMA



Rev. 11/13

Drawing No.  
AL-ENG-561-02a

Sheet of