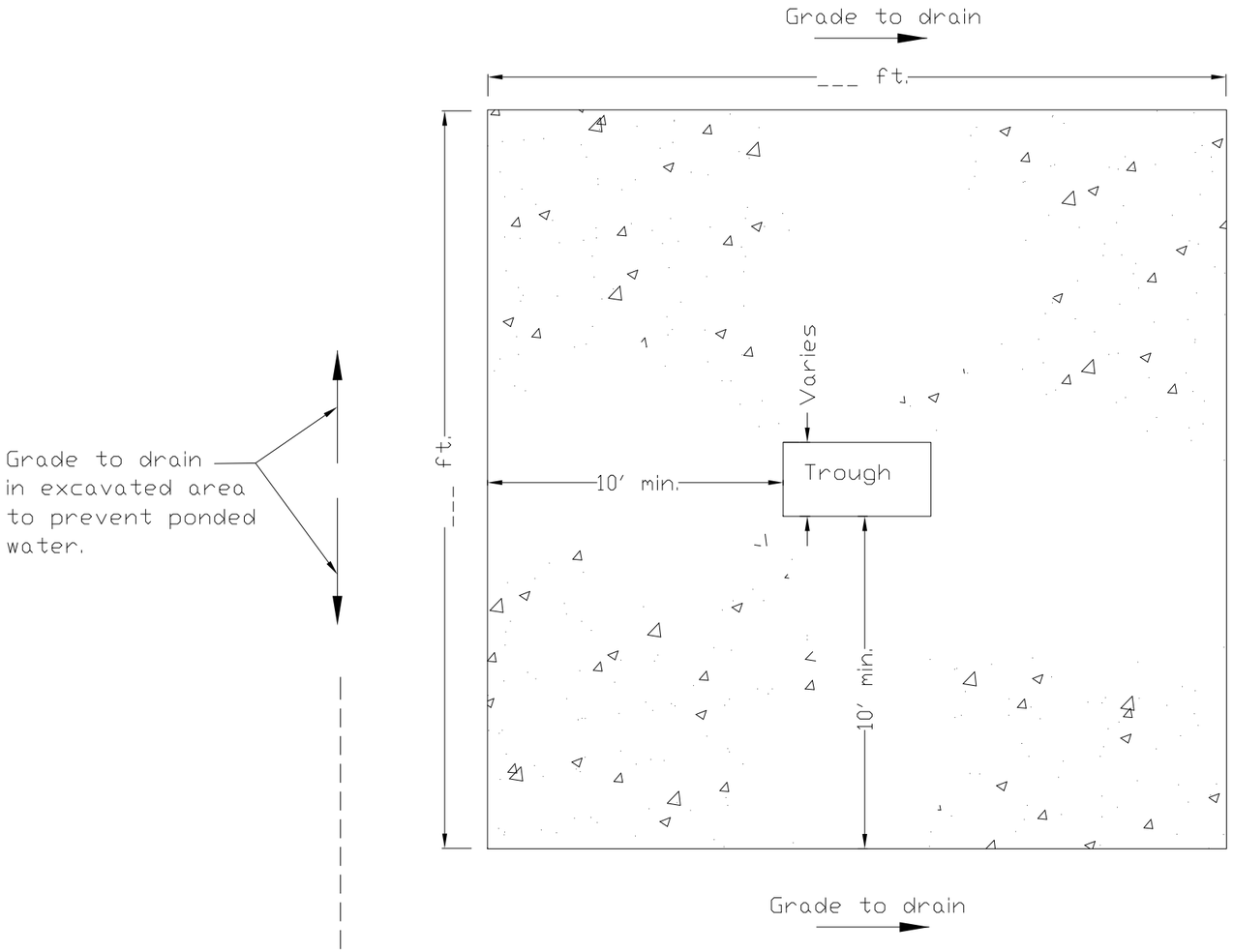
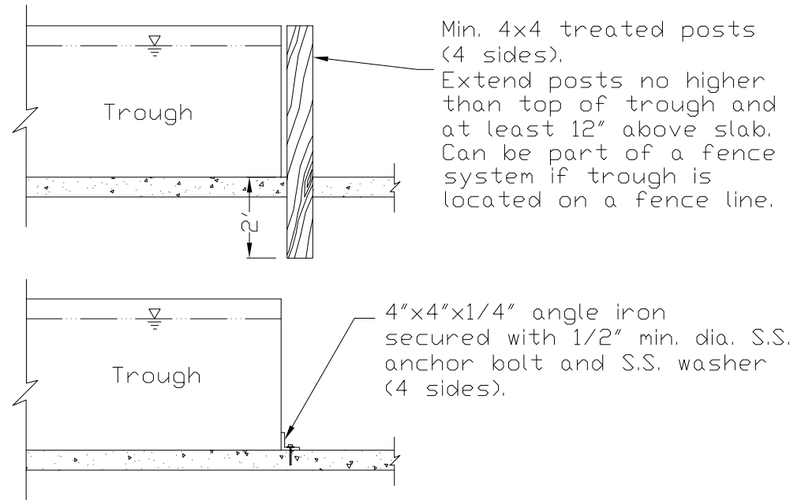


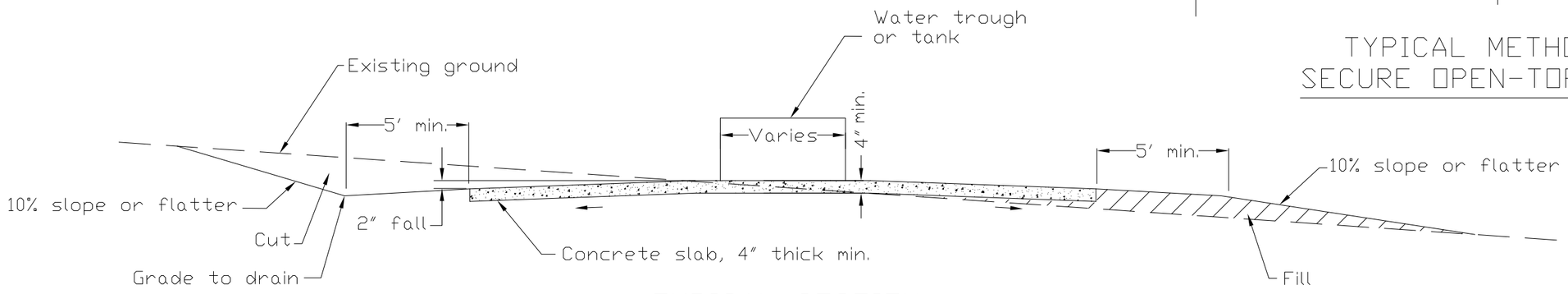

PLAN

NOTES:

1. Locate troughs on sites having an existing ground slope of 4% or flatter.
2. Concrete slab shall be 4" thick min. Concrete shall meet the requirements in the construction specification for Conservation Practice Standard 561 - Heavy Use Area Protection. Slab shall have formed or sawn contraction joints. The joint depth shall be ¾" minimum.
   Joint spacing shall not exceed 10 feet in any direction.
3. Seed and mulch all disturbed areas according to Conservation Practice Standard 342 - Critical Area Planting.
4. Fountain-type waterers (ball waterers) are to be secured to the concrete pad according to the manufacturer's recommendations.
5. 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 concrete pad or by using 4"x4"x¼" angle irons (4" long min.) secured to the concrete pad with stainless steel anchor bolts and washers (see typicals).
6. See AL-ENG-614-01 or AL-ENG-614-02 for details of freeze-proof water supply installation.
7. On soils having high shrink/swell properties (CH, MH), excavate at least one foot below the bottom of the concrete slab and backfill with compact sand, gravel or SC material.




TYPICAL METHODS TO SECURE OPEN-TOP TROUGHS




TYPICAL SECTION

(Details this sheet are not to scale)

Date 9/12
Designed Alabama NRCS
Drawn
Checked
Approved

CONCRETE HEAVY USE AREA PROTECTION
FOR WATERING FACILITY

LANDOWNER/FARM
COUNTY, ALABAMA

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

Rev. 1/16

Drawing No.
AL-ENG-561-01

Sheet of