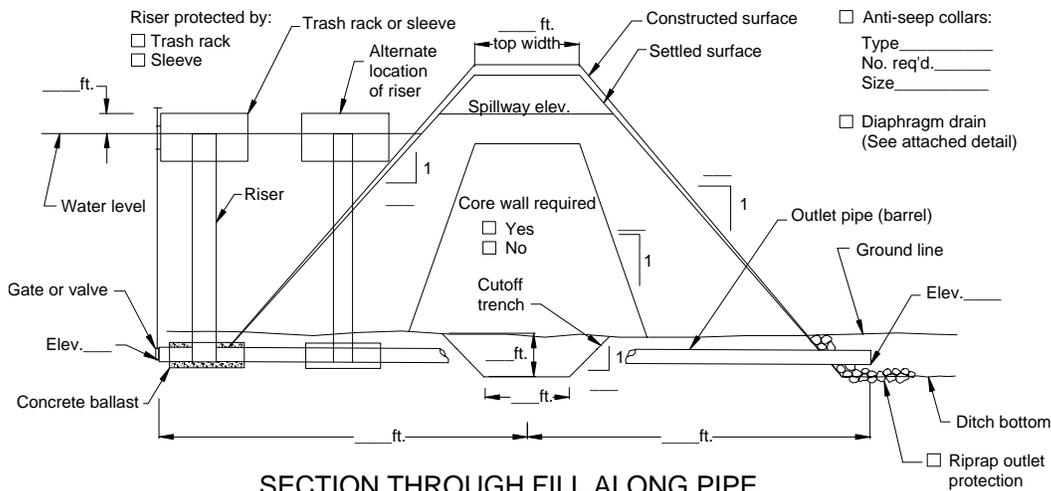
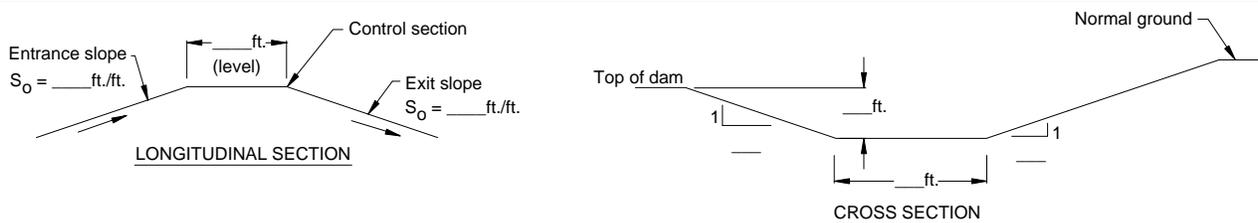


EARTHFILL POND PLAN

EMERGENCY SPILLWAY LOCATED (RIGHT)(LEFT) SIDE OF DAM



Description of Bench Mark _____

TBM Elev. _____ Water Level Elev. _____ Spillway Elevation _____
 Top of Dam Elev. (Constructed) _____ (Settled) _____
 Surface Area _____ Ac. Max. Fill _____ Ft.

POND CAPACITY

Hill: $0.4 \times \text{Ac.} \times \text{Ft.} = \text{AF}$
 Levee: $\text{Ac.} \times (\text{Max. Ft.} - \text{Min. Ft.}) / 2 = \text{AF}$
 Water Use _____
 Ref. No. _____

BILL OF MATERIALS

_____ Ft. of _____ In. _____ Pipe (Riser)
 _____ Ft. of _____ In. _____ Pipe (Barrel)
 _____ Ft. of _____ In. _____ Pipe
 (____) _____ In. x _____ Ft. Trash Rack
 (____) _____ In. x _____ Ft. Sleeve
 (____) _____ In. x _____ In. x _____ In. Tee
 (____) _____ In. x _____ Headgate or _____ In. Valve
 (____) _____ Anti-Seep Collars _____ Ft. x _____ Ft.
 _____ Cu. Yds. Embankment Fill
 _____ Cu. Yds. Cutoff Excavation
 _____ Cu. Yds. Concrete for Ballast
 (____ Ft. x _____ Ft. x _____ Ft.)
 _____ Ac. Clearing
 (____) _____ In. x _____ Ft. Treated Post

VEGETATION PLAN

Salvage and Spread Surface Soil Over the Dam, Spillway, and Disturbed Area: _____ Ac. Total

ITEM	TYPE	RATE	AMOUNT
Lime	_____	_____ Tn./Ac	_____ Tons
Fert.	_____	_____ Lb./Ac.	_____ Lbs.
Seed	_____	_____ Lb./Ac.	_____ Lbs.
	_____	_____ Lb./Ac.	_____ Lbs.
	_____	_____ Lb./Ac.	_____ Lbs.
	_____	_____ Lb./Ac.	_____ Lbs.
Mulch	_____	_____ Tn./Ac.	_____ Tons

Prepare Land _____ In. deep after lime and fertilizer are spread.
 Place _____ Seed _____ In. Deep and _____ Seed _____ In. Deep.
 Inoculate Legume Seed at Rate Specified on Inoculant Package.
 Planting Date: _____

	EARTHFILL POND PLAN (CLASSES I & II)	Date: _____	Drawing Number _____	Sheet No. _____ of _____
	PROJECT: _____ COUNTY, _____	Designed: _____ Drawn: _____ Checked: _____ Approved: _____		

GENERAL

Detailed engineering plans of the proposed embankment, spillway(s), and reservoir on the reverse side of this sheet are part of these specifications.

All facilities for impounding water shall comply strictly with all rules and regulations of the Alabama State Board of Health laws, Alabama Department of Environmental Management, and EPA or other pertinent regulations.

RESPONSIBILITIES OF

A. LANDOWNERS:

The landowner is responsible for obtaining all required permits. The landowner must acquaint himself with these plans and specifications to determine that the completed structure will fulfill his present and future needs. Inspection during construction will be the responsibility of the landowner. The landowner is responsible to request inspection assistance from NRCS personnel.

B. CONTRACTOR:

The contractor is to be acquainted with the provisions of these plans and specifications, conditions at the site that may affect the schedule of operation, and the location and meaning of all stakes on the site. All benchmarks, grade and line stakes must be left undisturbed and protected by the contractor to facilitate construction and inspection.

C. U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

The United States and its employees are in no manner a party to any verbal or written contract between the landowner and the contractor. NRCS employee(s), within limit of personnel available, will assist the landowner with inspection and advise on technique during construction to assure satisfactory compliance with the plans and specifications.

SPECIFICATIONS FOR CONSTRUCTION OF PONDS AND RESERVOIRS

CLEARING: All trees and brush shall be cut as close to the ground as practical and removed from the site before water is impounded. Combustible material must be disposed of by burning, burying at approved locations, or removed from the site and stacked.

FOUNDATION PREPARATION: The foundation area shall be cleared of all trees, stumps, and debris. All topsoil containing excessive amounts of organic material shall be removed. All sharp breaks shall be sloped to not steeper than 1:1 and the foundation thoroughly scarified before placement of the embankment fill.

CUTOFF TRENCH: A cutoff trench shall be excavated to the depth, bottom width, and side slopes shown on the plans or as staked in the field. The cutoff trench shall be backfilled in layers not to exceed 8 inches in thickness. Standing water shall be removed from the trench before backfilling is started.

SPILLWAY AND BORROW EXCAVATION: Spillway(s) will be excavated in undisturbed earth and conform to the grades, bottom width, and side slopes shown on the plans. All borrow areas shall be graded so as to be well drained and protected from erosion by the use of diversions or other conservation measures. Side slopes of borrow areas shall be left in such condition that establishment of vegetation, mowing, and maintenance operations will be facilitated. Surface soils excavated and saved from the foundation, spillway, and borrow areas shall be placed on the dam, borrow areas, and spillway to facilitate establishment of vegetation.

EMBANKMENT CONSTRUCTION: The material placed in the embankment shall be free of sod, roots, stones over 6 inches in diameter, and other objectionable materials. The fill material shall be placed and spread over the entire fill, starting at the lowest point of the foundation, in layers not to exceed 8 inches in thickness. Construction of the fill shall be undertaken only at such time that the moisture content of the fill material will permit satisfactory compaction. Special equipment will be used when the required compaction cannot be contained by routing of the construction equipment.

FILL MATERIAL: Fill material shall be taken from borrow areas designated by the technician. The NRCS technician will advise the contractor regarding the maximum allowable depth of cut in each borrow area. In the event this depth is exceeded in the impoundment area, it shall be the responsibility of the contractor, to cover the exposed area with a minimum of 2 feet of impervious material.

PIPE CONDUIT: The pipe conduit barrel shall be placed on a firm foundation to the grade specified. Select backfill material shall be placed around the pipe and its component parts in layers not exceeding 4 inches and each successive layer thoroughly hand compacted. Mechanical compaction with the hand equipment shall continue until 2 ft. of fill is over the pipe. When a pipe is required, the riser must be installed completely before final inspection and certification of practice is made. The inlet of the riser should be protected by a trash rack or sleeve.

ANTI-SEEP COLLARS OR DRAINAGE DIAPHRAGM: Anti-seep collars or drainage diaphragm will be of materials and dimensions, and located as specified.

VEGETATION: Adapted vegetation shall be established on all exposed surfaces of the embankment, spillway, borrow, and spoil areas as soon as possible after construction. Vegetation will be applied as critical area planting and will include seedbed preparation, seeding, liming, fertilizing, and when needed mulching.

EROSION AND SEDIMENT CONTROL: During construction, erosion will be minimized and sediment controlled according to guidelines in Alabama Guide Sheet AL378B, Erosion Control During Farm Pond Construction.