

TEMPORARY SEEDING

**Definition** Planting rapid-growing annual grasses, small grains, or legumes to provide initial, temporary cover for erosion control on disturbed areas.

**Purpose** To temporarily stabilize denuded areas that will not be brought to final grade for a period of more than 21 calendar days.

Temporary seeding controls runoff and erosion until permanent vegetation or other erosion control measures can be established. In addition, it provides residue for soil protection and seedbed preparation, and reduces problems of mud and dust production from bare soil surfaces during construction.

**Conditions Where Practice Applies** On any cleared, unvegetated, or sparsely vegetated soil surface where vegetative cover is needed for less than 1 year. Applications of this practice include diversions, dams, temporary sediment basins, temporary road banks, and topsoil stockpiles.

**Planning Considerations** Annual plants, which sprout and grow rapidly and survive for only one season, are suitable for establishing initial or temporary vegetative cover. Temporary seeding preserves the integrity of earthen sediment control structures such as dikes, diversions, and the banks of dams and sediment basins. It can also reduce the amount of maintenance associated with these devices. For example, the frequency of sediment basin cleanouts will be reduced if watershed areas, outside the active construction zone, are stabilized.

Proper seedbed preparation, selection of appropriate species, and use of quality seed are as important in this Practice as in Practice 6.11, *Permanent Seeding*. Failure to follow established guidelines and recommendations carefully may result in an inadequate or short-lived stand of vegetation that will not control erosion.

Temporary seeding provides protection for no more than 1 year, during which time permanent stabilization should be initiated.

**Specifications** Complete grading before preparing seedbeds, and install all necessary erosion control practices such as, dikes, waterways, and basins. Minimize steep slopes because they make seedbed preparation difficult and increase the erosion hazard. If soils become compacted during grading, loosen them to a depth of 6-8 inches using a ripper, harrow, or chisel plow.

**SEEDBED PREPARATION** Good seedbed preparation is essential to successful plant establishment. A good seedbed is well-pulverized, loose, and uniform. Where hydrosowing methods are used, the surface may be left with a more irregular surface of large clods and stones.

**Liming**—Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the

rate of 1 to 1 1/2 tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

**Fertilizer**—Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

**Surface roughening**—If recent tillage operations have resulted in a loss surface, additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by disking, raking, harrowing, or other suitable methods. Groove or furrow slopes steeper than 3:1 on the contour before seeding (Practice 6.03, *Surface Roughening*).

**PLANT SELECTION** Select an appropriate species or species mixture from Table 6.10a for seeding in late winter and early spring, Table 6.10b for summer, and Table 6.10c for fall.

In the Mountains, December and January seedings have poor chances of success. When it is necessary to plant at these times, use recommendations for fall and a securely tacked mulch.

**SEEDING** Evenly apply seed using a cyclone seeder (broadcast), drill, cultipacker seeder, or hydrosower. Use seeding rates given in Tables 6.10a-6.10c. Broadcast seeding and hydrosowing are appropriate for steep slopes where equipment cannot be driven. Hand broadcasting is not recommended because of the difficulty in achieving a uniform distribution.

Small grains should be planted no more than 1 inch deep, and grasses and legumes no more than 1/2 inch. Broadcast seed must be covered by raking or chain dragging, and then lightly firmed with a roller or cultipacker. Hydrosseeded mixtures should include a wood fiber (cellulose) mulch.

**MULCHING** The use of an appropriate mulch will help ensure establishment under normal conditions, and is essential to seeding success under harsh site conditions (Practice 6.14, *Mulching*). Harsh site conditions include:

- seeding in fall for winter cover (wood fiber mulches are not considered adequate for this use).
- slopes steeper than 3:1,
- excessively hot or dry weather,
- adverse soils (shallow, rocky, or high in clay or sand), and
- areas receiving concentrated flow.

If the area to be mulched is subject to concentrated waterflow, as in channels, anchor mulch with netting (Practice 6.14, *Mulching*).

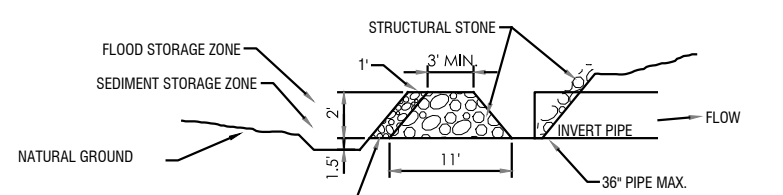
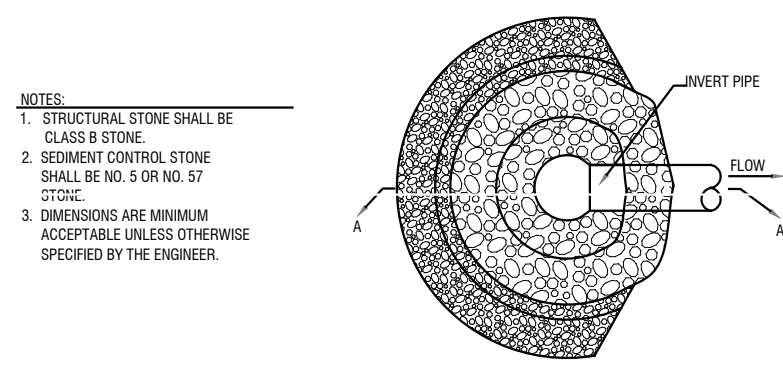
**Maintenance** Reseed and mulch areas where seeding emergence is poor, or where erosion occurs, as soon as possible. Do not mow. Protect from traffic as much as possible.

**References** *Site Preparation*  
6.03, Surface Roughening  
6.04, Topsoiling  
*Surface Stabilization*  
6.11, Permanent Seeding  
6.14, Mulching  
*Appendix*  
8.02, Vegetation Tables

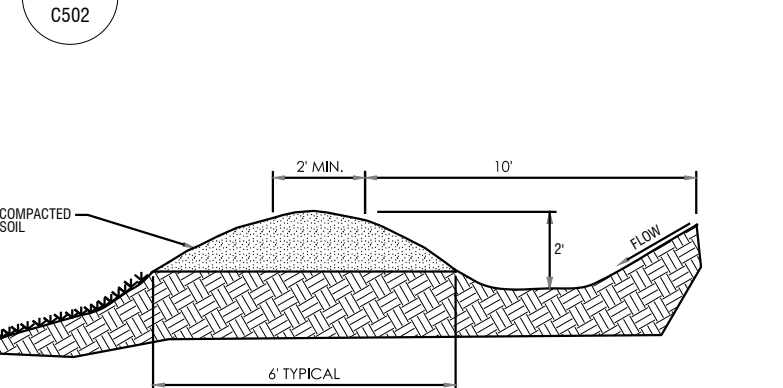
Table 6.10a Temporary Seeding Recommendations for Late Winter and Early Spring	Seeding mixture Species	Rate (lb/acre)
	Rye (grain)	120
	Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50
	Omit annual lespedeza when duration of temporary cover is not to extend beyond June.	
	<b>Seeding dates</b> Mountains—Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1- May 1 Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15	
	<b>Soil amendments</b> Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.	
	<b>Mulch</b> Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
	<b>Maintenance</b> Referitize if growth is not fully adequate. Reseed, referitize and mulch immediately following erosion or other damage.	

Table 6.10b Temporary Seeding Recommendations for Summer	Seeding mixture Species	Rate (lb/acre)
	German millet	40
	In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.	
	<b>Seeding dates</b> Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug. 15	
	<b>Soil amendments</b> Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.	
	<b>Mulch</b> Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
	<b>Maintenance</b> Referitize if growth is not fully adequate. Reseed, referitize and mulch immediately following erosion or other damage.	

Table 6.10c Temporary Seeding Recommendations for Fall	Seeding mixture Species	Rate (lb/acre)
	Rye (grain)	120
	<b>Seeding dates</b> Mountains—Aug. 15 - Dec. 15 Coastal Plain and Piedmont—Aug. 15 - Dec. 30	
	<b>Soil amendments</b> Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.	
	<b>Mulch</b> Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
	<b>Maintenance</b> Repair and referitize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.	



5 STANDARD ROCK PIPE INLET PROTECTION



**CONSTRUCTION SPECIFICATIONS:**

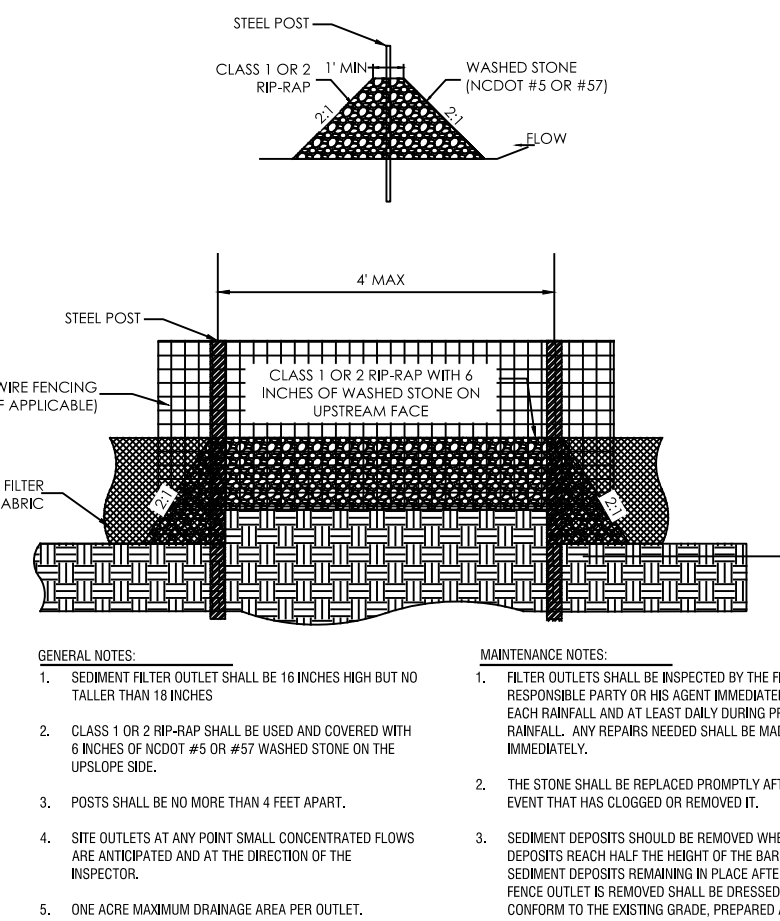
- REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS AND OTHER OBJECTABLE MATERIAL.
- ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
- ENSURE THAT THE TOP OF THE DIRT IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
- PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REPOSITIONING AND CLEANOUT.
- VEGETATE THE SLOPE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

**MAINTENANCE:**  
RESPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TRUCK REPAIRS AS NEEDED. WHEN THE AREA IS PROTECTED TO PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL. TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

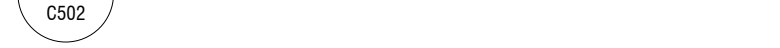
3 TEMPORARY DIVERSION DITCH



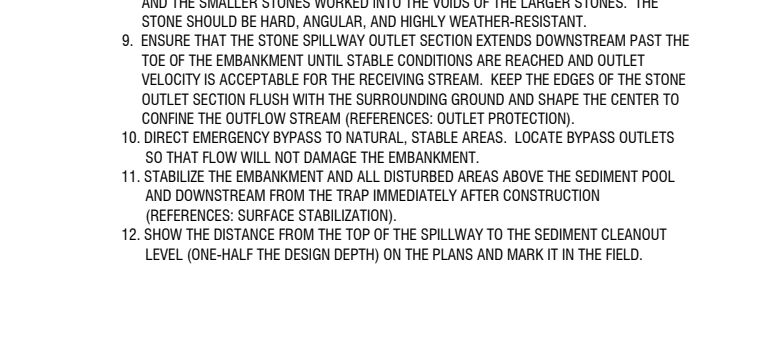
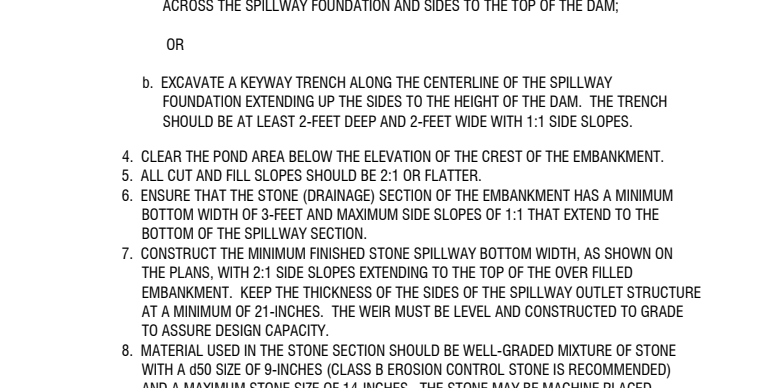
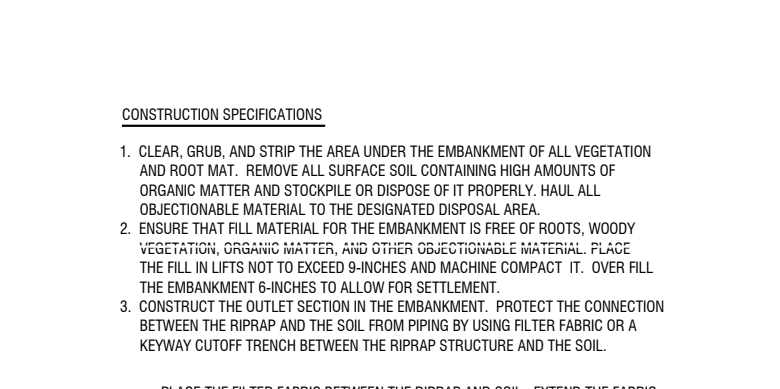
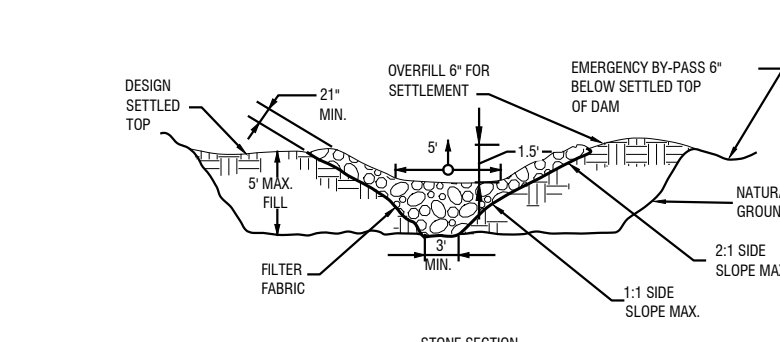
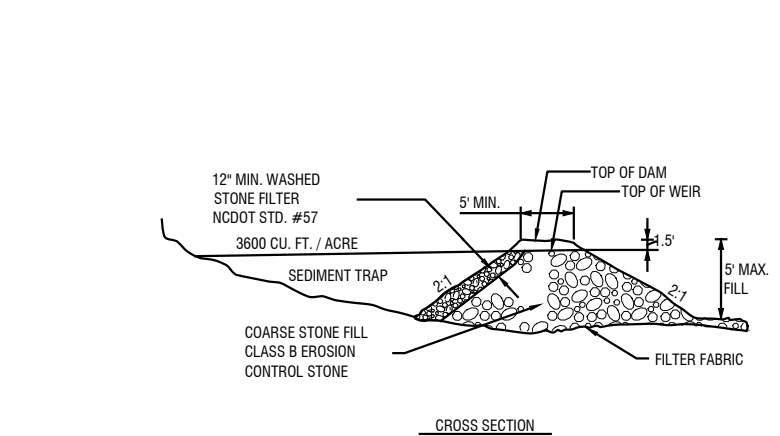
3 TEMPORARY DIVERSION DITCH



7 SILT FENCE STONE OUTLET



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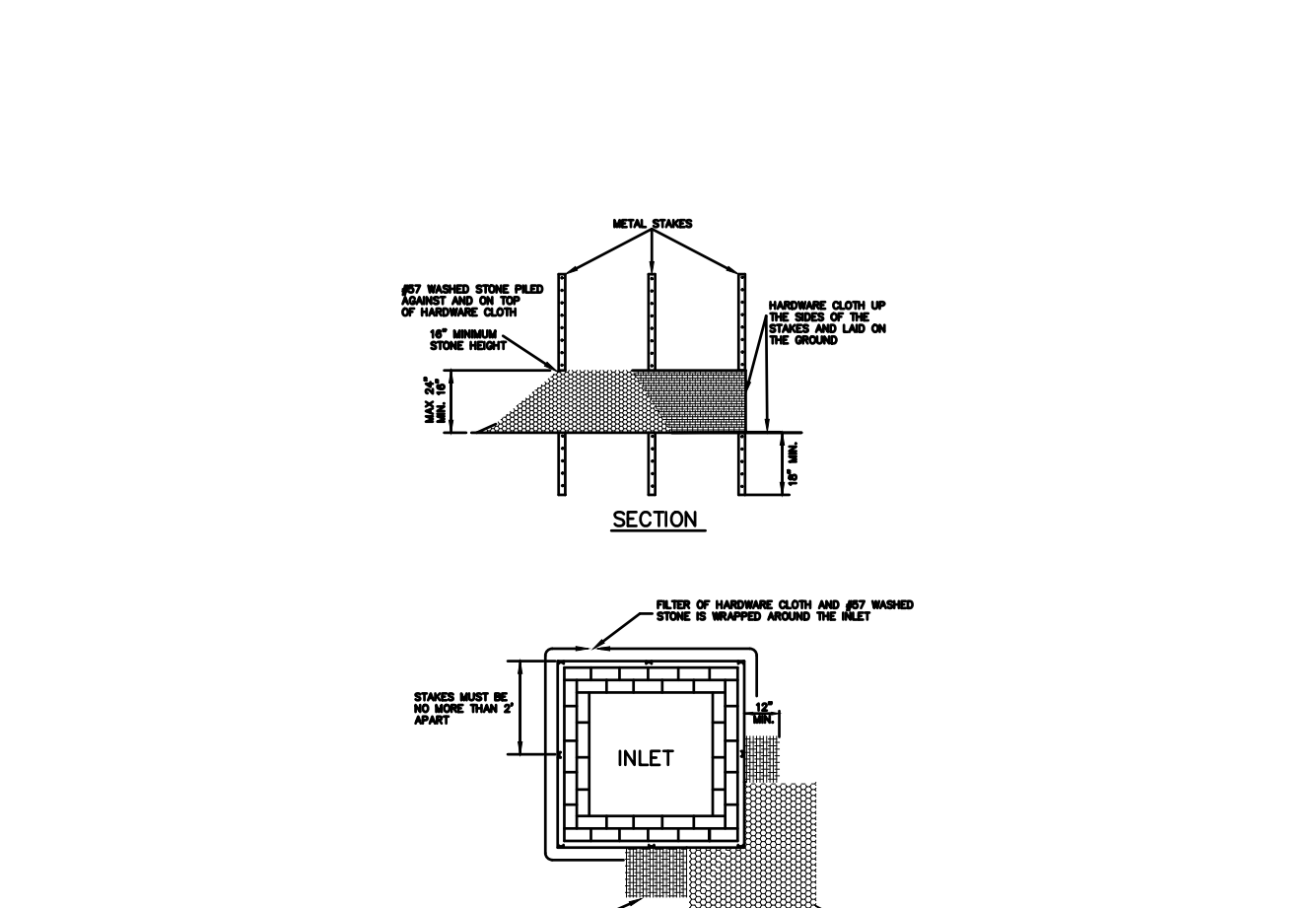
2 TEMPORARY SEDIMENT TRAP



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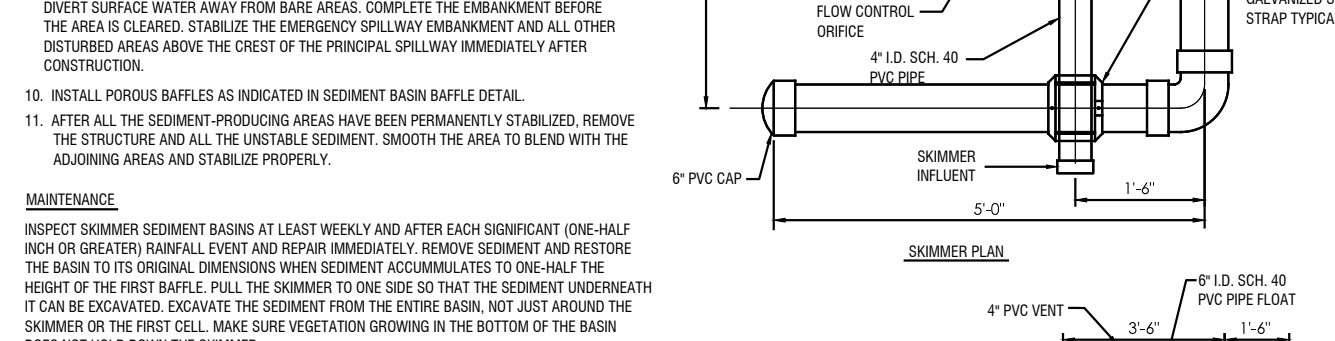
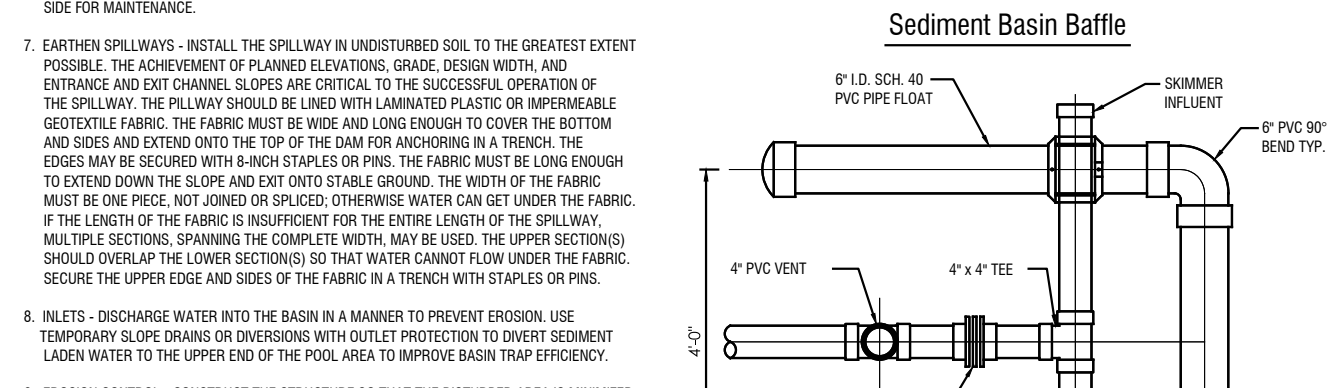
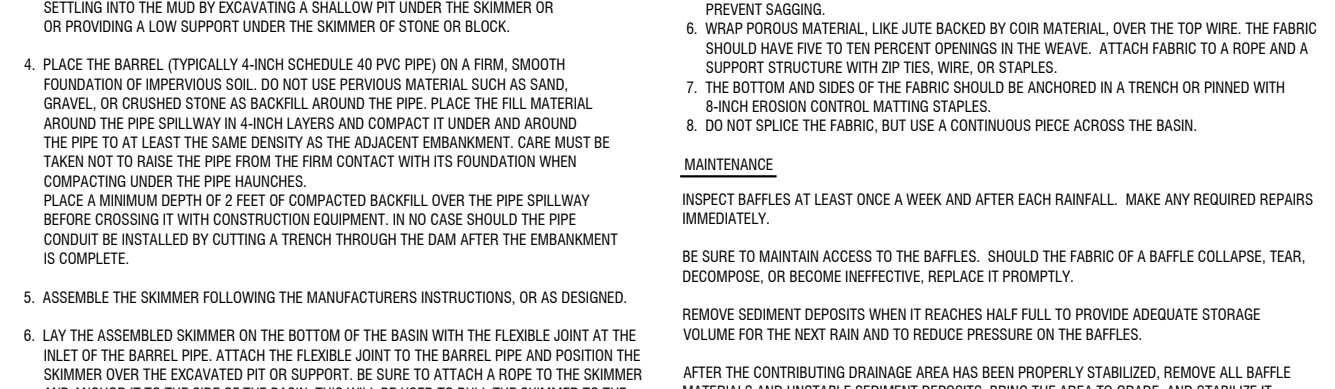
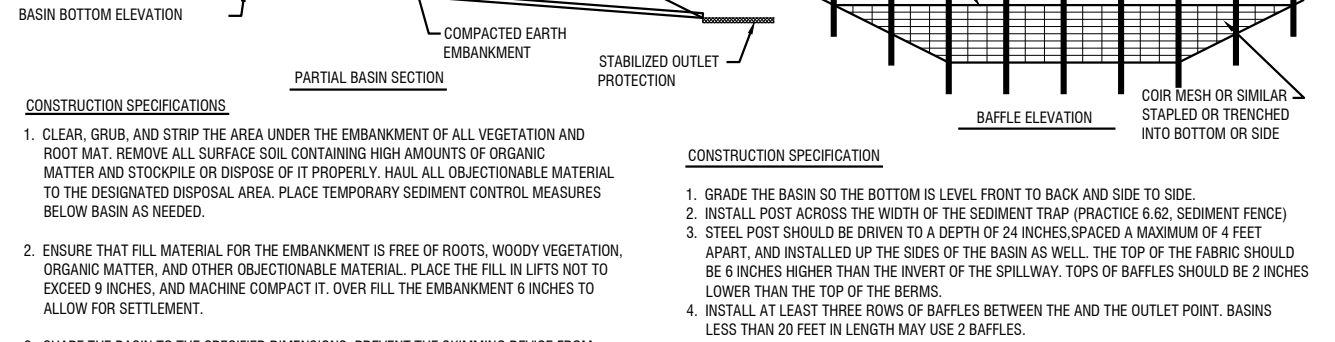
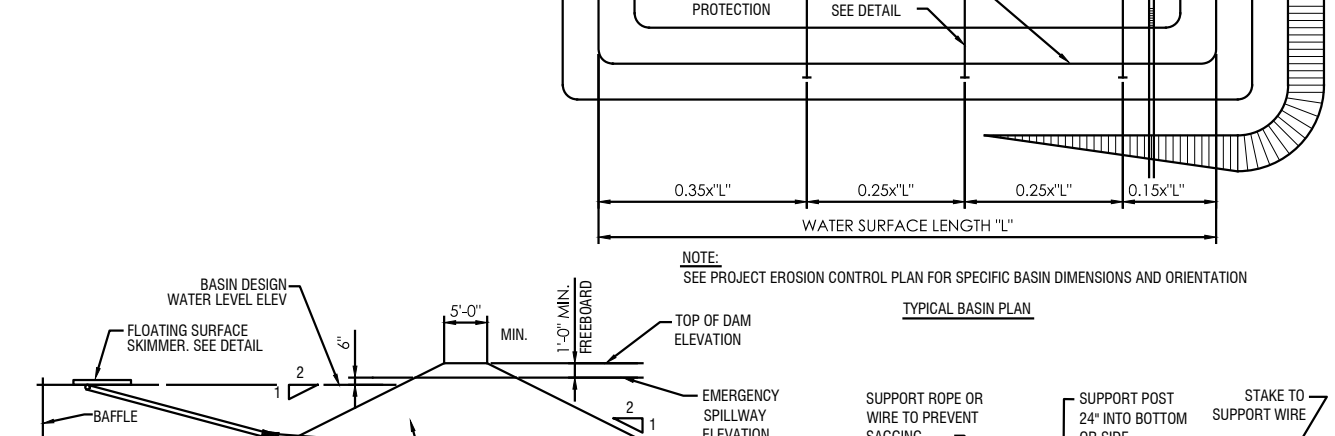
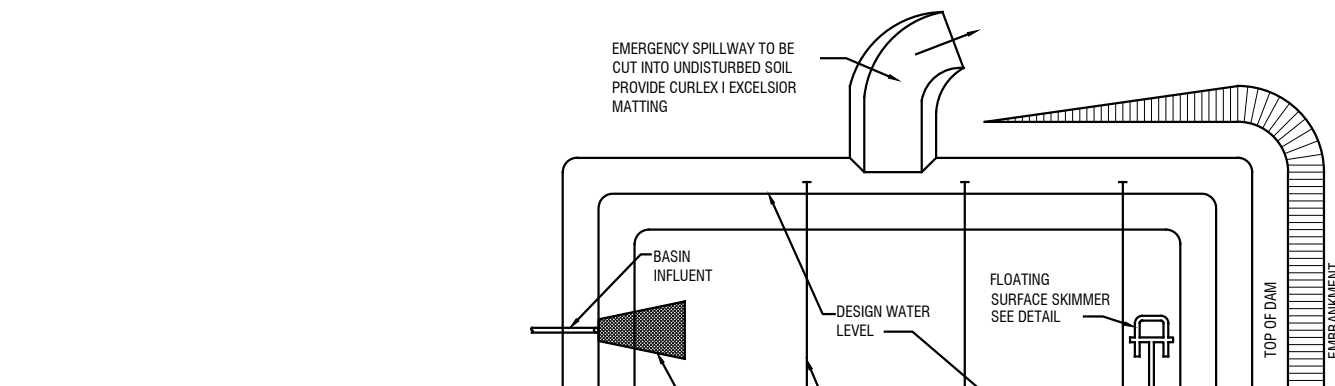
2 TEMPORARY SEDIMENT TRAP



6 #57 WASHED STONE & WIRE INLET PROTECTION



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1 SEDIMENT BASIN AND SKIMMER



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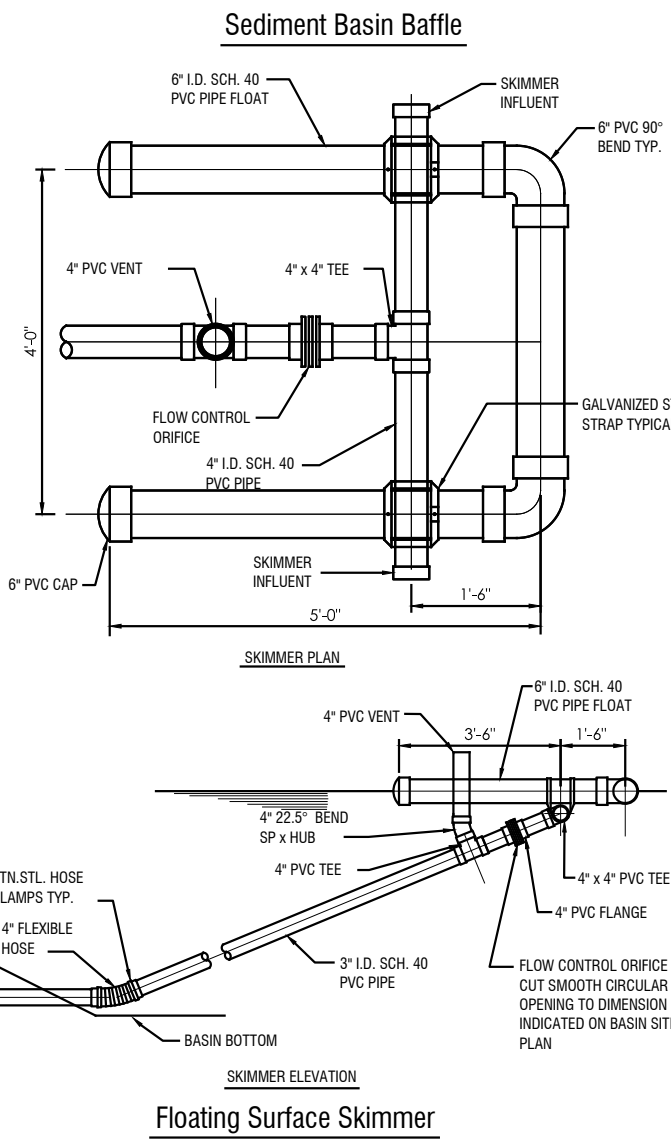
1 SEDIMENT BASIN AND SKIMMER

PRELIMINARY  
NOT FOR CONSTRUCTION

ALAMANCE  
AGGREGATES, LLC  
Mr. Chad Threatt, VP

Alamance County Mine

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NO.	DATE:	DESCRIPTION:
REVISIONS		
PROJECT NUMBER: 2180544		
DRAWN BY: KCG/ATC		
REVIEWED BY: PAS		
ISSUED FOR: REVIEW		
DATE: 5/8/19		
DRAWING NAME:		



EROSION AND  
SEDIMENT CONTROL  
DETAILS

DRAWING NUMBER: