





Utility

- Design Professionals
- Clarifications, proactive problem solving
- Contractors
- Installation, maintenance and function
- Inspectors
 - Common deficiencies, documentation
- Owners
 - Specifications required by approved plan...



Woogie just wants a few things... Sediment Fence Fence Outlets Construction Entrances RECP Slope Drains Extras? E&SC Planning and Design Manual







Sediment Fence Specs

- Metal Posts (1.33 lb/ft; minimum 5' length)
 8' on center w/wire (14 ga., 6" spacing)
- 12" buried (8" down, 4" flap)*
- Less than 2% slope
- No concentrated flows
- Treats ¼ acre per 100 feet (refer to Table 6.62a)
- Additional requirements for high-hazard

Recommendations

- Place along contours and tie to grade
- Do not use as stand-alone measure beneath denuded slopes higher than 10 feet
- Mechanical compaction for anchoring
- Place 12" #5 stone along toe when using fence to divert flows to treatment areas
- J-hook to treat perimeter slopes











- Inspect weekly and after rain
- Restore storage area when sediment accumulation reaches 9ⁿ
- Replace worn or damaged sections
- Stabilize/repair drainage areas

Without deviation progress is impossible

Installation

- Offset from low point
- Appropriately spaced
- Hardware cloth and washed stone
- Additional reinforcement

- Inspect weekly and after rain
- Restore storage area when sediment accumulation reaches ½ the storage area o no greater than 1 foot
- Replace worn or damaged sections
- Stabilize/repair drainage areas

Construction Entrance (6.06.1)

Pigark 8.58a Gravit orditionantic haspe solitional how lowing the sametrastice site investigations, Va SWCC)

Tire Wash (CLDS)

Specifications

- Design specifications (use the right RECP... correctly)
- Ground contact
- Seed bed preparation
- Manufacturer-specific directions

- Inspect weekly and after rains for signs of undermining or washout
- Correct deficiencies and repair damaged areas immediately

- permanent drainage is addressed
- Convey diversion ditches to basin forebays

Installation		Maintenance
 Earthen diversion with storage area and energy dissipation 		
 Berm 1' above top of pipe at all locations 		the second s
 Hand compaction around inlet pipe 		
 Ensure connections are watertight 		Inspect inlet area
Dursin Anna	Repair washouts	
Drain Area	<u>Pipe Diameter</u>	 Remove accumulated sediment at inlet
0.50 acres	12″	Inspect discharge area
0.75 acres	15"	Inspect berm/slope
1.00 acres	18"	

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- Inspect baffles weekly and after every rain
- Maintain access for repairs
- Replace when torn, collapsed, decomposed or ineffective
- Remove sediment when half full
- Design life of 6-12 months

Check Dams / Grade Control

ALCONOMIC AREA

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- Reduce velocity
- Reduce rill/gully erosion
- Reduce basin maintenance
- Can provide dosing method for PAM
- Do not use in jurisdictional waters

Rock Check Dam Installation

15.00

Wattle/Log Check Dam Installation

Note: ensure secure contact with the ground. Use scrap erosion control blanket to plug gaps.

Common Problems

- Failure at outlet pipe
- Inflow armoring
- Orifice size
- Orifice fouling
- Spillway damage

- Inspect weekly and after rain
- Check orifice plate for blockage
- Ensure skimmer floats freely
- Use rope to 'bob' skimmer to remove debris from screen
- Inspect inlets
- Inspect skimmer assembly for any damage
- Check spillway and outfall

Basin Construction

Installation

- PHASE 1 EROSION CONTROL!
- Ensure basin floor is flat
- · Ensure basin floor is one foot below skimmer invert
- Ensure that a permanent outlet structure doesn't change storage capacity or surface area
- Locate inlets opposite of outlet
- Armor inlet zones
- Provide "landing pad" for skimmer, account for sway
- Check seals at first rainfall

Installation

- Cut-off trench (2' deep, max 1:1 sideslope)
- Embankment top width:
 - Height less than 10 feet, top width \geq 8 feet
 - Height 10 to 15 feet, top width \geq 10 feet
- Freeboard 1 foot from <u>settled</u> embankment
- Allowance for settlement (build 10% above design)
- Basin slopes 2.5:1 or flatter
- Stabilize embankments (except bottom half)
- Non-erosive discharge

