NRCS Natural Resources Conservation Service

Filter Strip

New Jersey Conservation Practice Job Sheet *393*

SPECIFICATIONS

Site-specific requirements are listed on the following page(s) of this job sheet. Specifications are prepared in accordance with the Filter Strip 393 practice standard found in the New Jersey NRCS Field Office Technical Guide. Information contained in this document is considered part of the conservation plan.

Client Name: Town:
Farm: Tract:

Designed By:		Date:	

Purpose: *Check all that apply*			
☐	1- Reduce suspended solids and associated contaminants in runoff.	☐	3- Reduce suspended solids and associated contaminants in irrigation tailwater.
☐	2- Reduce dissolved contaminant loadings in runoff.	☐	4-Other (Specify):

If you have questions about this planned **Filter Strip** practice contact:

Name:		Tel:	
Email:			

Design Official's Certification:
The design of the following filter strip(s) are in accordance with the 393 Filter Strip (NJ NRCS) practice standard. For each filter strip where the purpose is to 'reduce suspended solids and associated contaminants in runoff', the guidance provided in Agronomy Technical Note 2 (Using RUSLE2 for the Design and Predicted Effectiveness of Vegetative Filter Strips for Sediment) has been followed, and each filter strip has been designed to achieve the specified 10 year lifespan.

_____ _____

Design Official Name Title

GENERAL CRITERIA:

- Overland flow entering the filter strip shall be uniform sheet flow.
- Concentrated flow shall be dispersed before it enters the filter strip.
- The maximum gradient along the leading edge of the filter strip shall not exceed one-half of the up-and-down hill slope percent, immediately upslope from the filter strip, up to a maximum of 5%.
- State-listed noxious or invasive plants will not be established in the filter strip. Filter strips shall not be used as a travel lane for equipment or livestock.

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Filter Strip Specifications:

(*PLS = Pure Live Seed*)

Planned Filter Strip Layout	Filter Strip 1			Filter Strip 2			Filter Strip 3			Filter Strip 4		
Field Number or Name:												
Filter Strip Width (Feet):												
Total Length (Linear Feet):												
Planned Area (Acres)												
Seed: Species #1												
PLS – lbs/acre / Total Pounds												
Seed: Species #2												
PLS – lbs/acre / Total Pounds												
Seed: Species #3												
PLS – lbs/acre / Total Pounds												
Seed: Species #4												
PLS – lbs/acre / Total Pounds												
Companion (Nurse) Crop												
PLS – lbs/acre / Total Pounds												
Lime (tons/acre) / Total Tons												
Lime Scheduled Application Date:												
Fertilizer (lbs/acre) according to Soil Test	N	P_20_5	K_20	N	P_20_5	K_20	N	P_20_5	K_20	N	P_20_5	K_20
Fertilizer (Total lbs)												
Scheduled **Seeding** Date:												

Site Preparation To Prevent Concentrated Flow From Entering The Filter Strip	Filter Strip 1	Filter Strip 2	Filter Strip 3	Filter Strip 4
Is additional ground smoothing or leveling necessary to prevent concentrated flow?				
If YES, Specify the extent of leveling needed (Length x Width) or Total Cubic Yards of earthwork required and designate the location on an attached sketch or map. Attach additional engineering design and specifications, if applicable.				

Seedbed Preparation

Prepare a firm seedbed. Ephemeral gullies and rills present in the planned filter strip area will be smoothed. Apply lime and fertilizer as indicated by soil testing.

Additional requirements:

Planting Method

Drill grass and legume seed inches deep uniformly over the area. Establish vegetation according to the specified seeding rate. If necessary, mulch the newly seeded area with tons per acre of mulch material.

If a small grain crop companion crop is used, clip or harvest before it heads out.

Additional requirements:

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OPERATION / MANAGEMENT AND MAINTENANCE:

The following O&M activities will be applied:

- For the purposes of filtering contaminants, permanent filter strip vegetative plantings shall be harvested as appropriate to encourage dense growth, maintain an upright growth habit and remove nutrients and other contaminants that are contained in the plant tissue.
- Control undesired weed species, especially state-listed noxious weeds.
- If prescribed burning is used to manage and maintain the filter strip, an approved burn plan must be developed.
- Inspect the filter strip after storm events and repair any gullies that have formed, remove unevenly deposited sediment accumulation that will disrupt sheet flow, reseed disturbed areas and take other measures to prevent concentrated flow through the filter strip.
- Apply supplemental nutrients as needed, according to soil tests, to maintain the desired species composition and stand density of the filter strip.
- Periodically re-grade and re-establish the filter strip area when sediment deposition at the filter strip-field interface jeopardizes its function. Reestablish the filter strip vegetation in these regraded areas, if needed.
- If grazing is used to harvest vegetation from the filter strip, it must be according to an approved grazing plan. The grazing plan must insure that the integrity and function of the filter strip is not adversely affected. Grazing will be permitted only when the vegetation root system has been sufficiently established and when soil moisture conditions support livestock traffic without excessive compaction.

ADDITIONAL NOTES OR INSTRUCTIONS:

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If needed, an aerial view or a side view of the practice can be shown below. Other relevant information, complementary practices and measures, and additional specifications may be included.
Recommendation: Import digital aerial photographs to indicate practice before and after effects.

N

Clear Form

Practice Checkout:

Amount completed: _____units Mark as-built location on plan map and attach photos.

Remarks_____

This practice meets NRCS standards and specifications ☐ Yes ☐ No

Clear

Check out completed by: _____ Date: _____

Certified by:_____ Date:_____