

## GRASSED WATERWAY DESIGN AND CHECK DATA REQUIREMENTS

The following items must be documented for the Grassed Waterway. The following items shall be included:

### Survey Record in Engineering Fieldbook

1. Slope of each design reach (hand-level survey permitted when slope is steeper than 2 percent).
2. Cross section (minimum one per reach at most restrictive station or location).
3. Length of each reach and total length.
4. Plan view if part of system.

### Design Record (for each as applicable)

1. PA Utility Act compliance
2. Peak discharge calculations
3. Soil, vegetations, lining
4. Minimum depth & width required for stability
5. Lining or mulching requirements and design
6. Lime, fertilizer, seeding requirements
7. Operation & maintenance plan

### Check Data Record

1. Measurements to show length, width, and depth of completed waterway (paced length acceptable when not for payment).
2. Slope or grade of waterway.
3. Record lining material if used
4. Describe Outlet
5. Seeding performed.

### For Natural Waterways

1. Statement that the waterway has vegetation and is stable.
2. Width, depth, and length measurement.
3. If in the opinion of the technician providing assistance there is a need to specify a wider waterway, it shall be noted in the plan. If there is a need to enlarge or construct a grassed waterway, the criteria in the standard shall apply.

### Items of Performance That Can Be Certified by the Cooperator

1. Seeding, sodding, or establishment of vegetation.
2. Disposal of stumps, logs, brush, and other debris resulting from site preparation.