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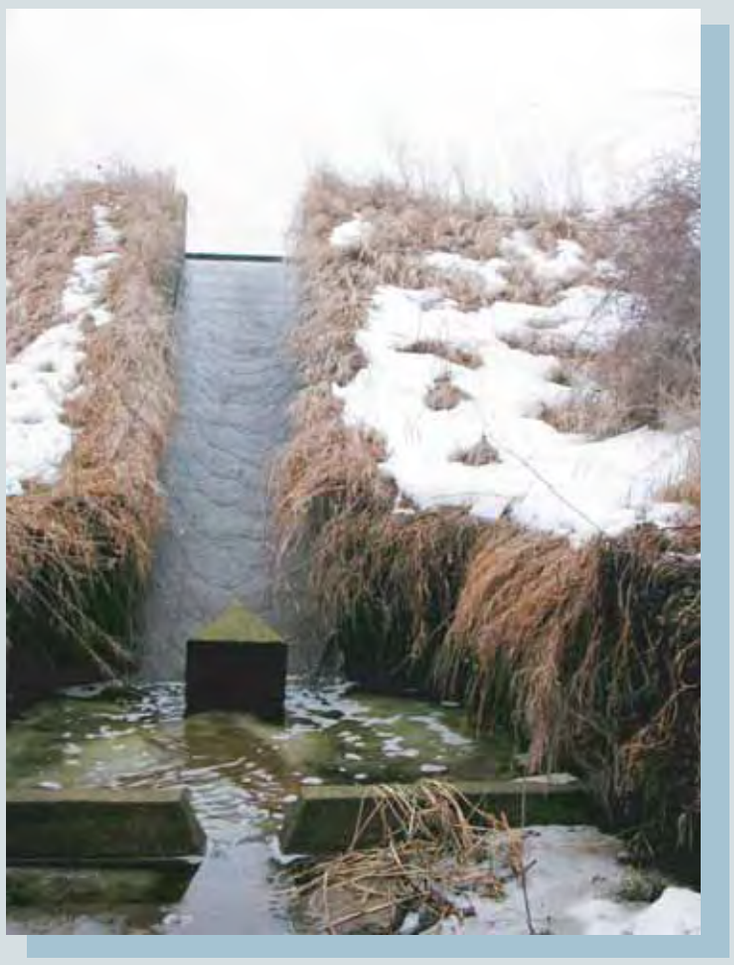
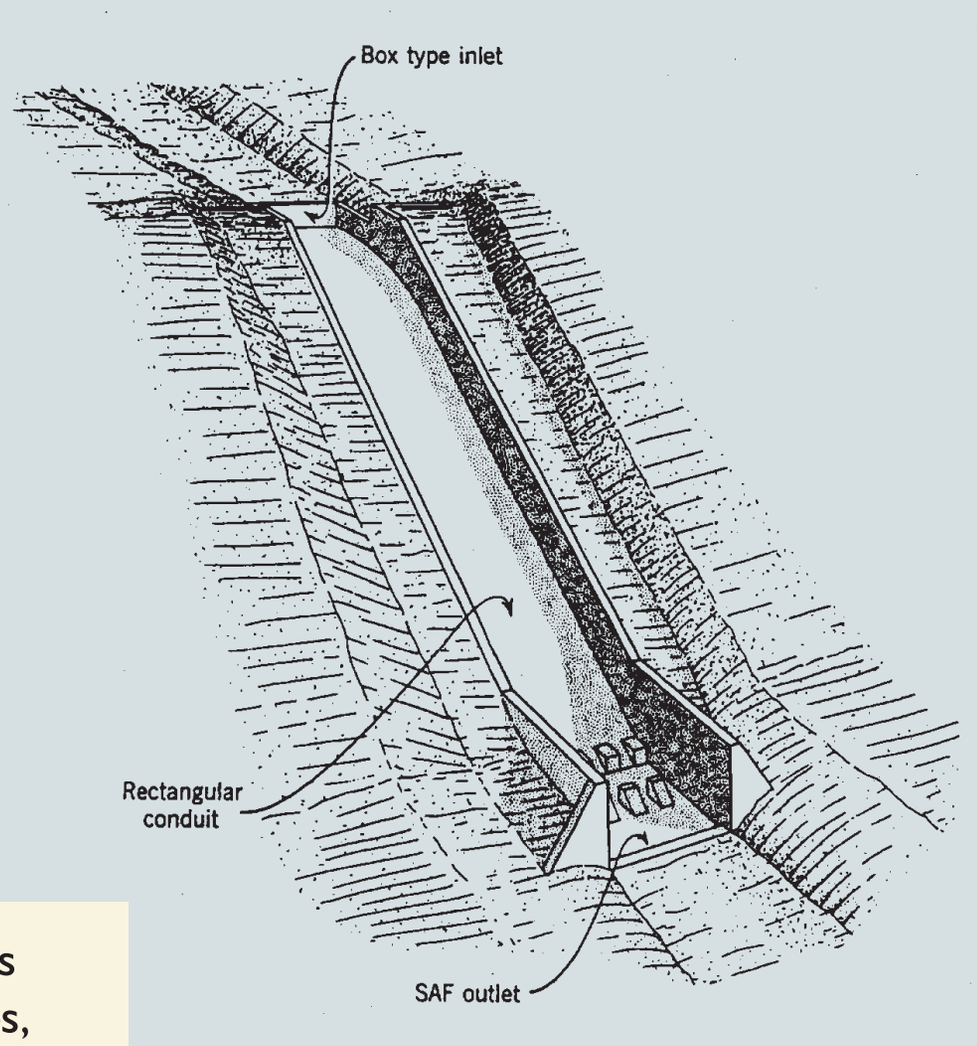
The concrete chute spillway consists of an inlet with wing walls, a vertical curve section, steep-sloped rectangular open channel, velocity check (the triangular concrete piece), stilling basin, and outlet. Flowing water is concentrated and accelerates down the channel then is slowed at the bottom by turbulence created by the velocity check and basin, thereby minimizing soil erosion.





To illustrate good soil conservation practices to U.W. Soil and Water Conservation classes, this structure was often visited during field trips from 1946 to 1994.

Narrative and drawing credit:
Arthur Peterson, Professor Emeritus
UW-Madison

The CCC Spillway

This spillway was built in 1938 by the Civilian Conservation Corps (CCC). The purpose of this reinforced cast-in-place concrete structure is to stop the gully from continuing to cut into the hillside. The spillway is located at the cutting edge (top) of the gully with earthen berms extending from either side of the wingwalls. It has a rectangular channel (conduit) and a stilling basin (before the outlet) to reduce the speed of the water runoff. The basin stores little water, but effectively cuts the velocity of the flow in half, reducing the carrying off of sediment by 64 times!

Presented by the Town of Middleton