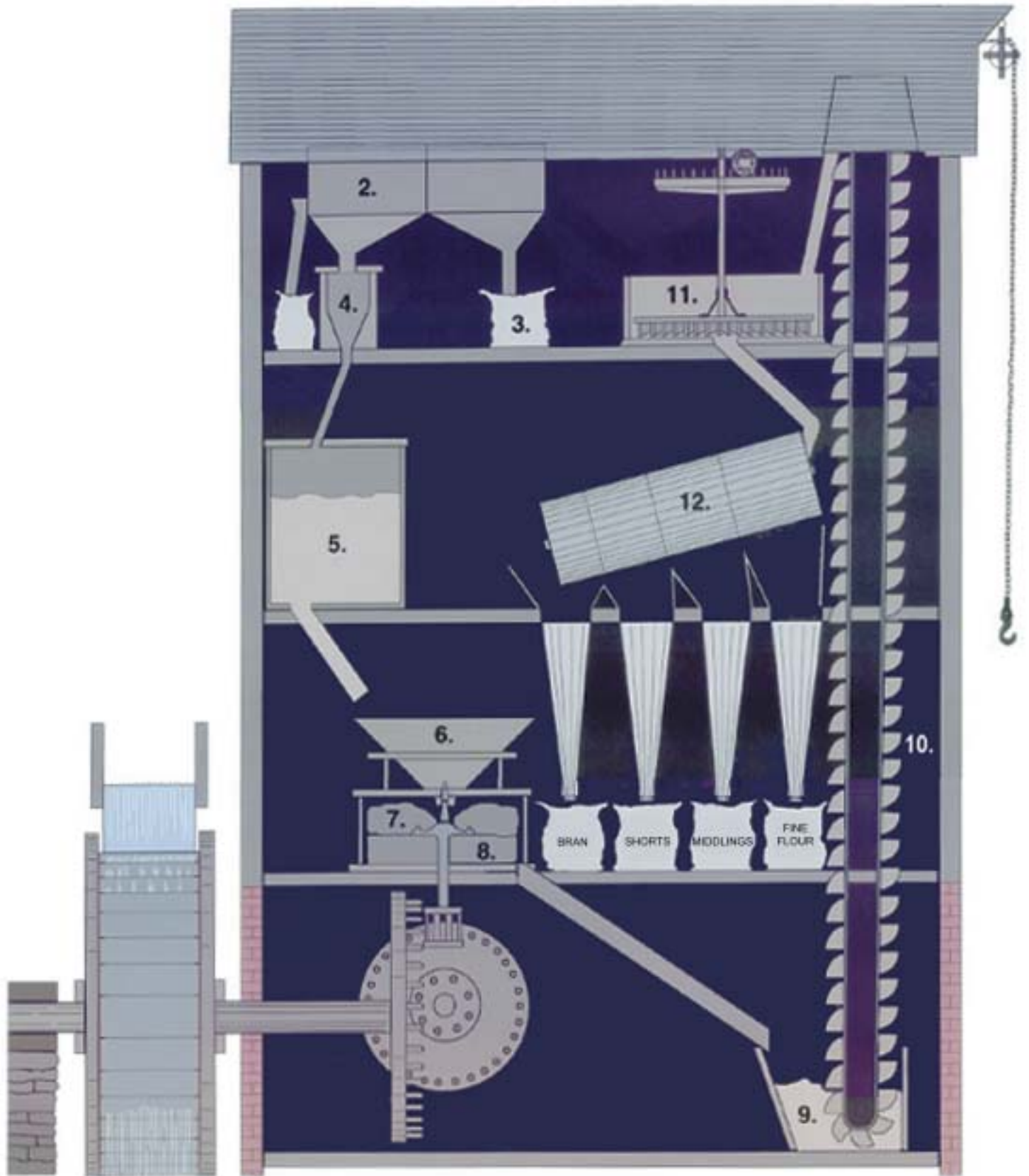


How a Gristmill Works

Illustration by GAI Consultants, Inc.

Cabbage Pond.....



HOW A GRISTMILL WORKS

The *sack hoist (1)* lifts incoming loads of grain to the top story. Emptied into the *dirty grain bin (2)*, the grain passes through a circular screen that whirls dust and mold from the grain and into...the *sack (3)* below.

Heavier grain falls through the screen mesh to the *smutter (4)*. The smutter cleanses the grain of a fungus (smut), and scours off any remaining dirt. Once cleansed of smut and dirt, the grain drops to the *wheat garner (5)*, a wheat storage bin. The wheat garner allows wheat to be fed to the *hopper (6)* at a rate that suits the millstones.

The *runner stone (7)* is turned by a gear train that transmits power from the water wheel.

Ground flour falls through a chute below the (stationary) *bed stone (8)*...into a *bin (9)* from which...an *elevator (10)* carries it back up to the top floor...where the flour is cooled by the *hopper boy (11)*. This rake-like machine with splayed wooden teeth sweeps freshly ground grain toward the center, cooling it.

Fresh grain is fed by the hopper boy, down a central chute, to the slanted *bolter (12)*. From the bolter, flour passes through increasingly coarse mesh--finest flour through closely meshed silk, then middlings, shorts, and bran drop into the second, third, and fourth bags, respectively.



Cabbage Pond