

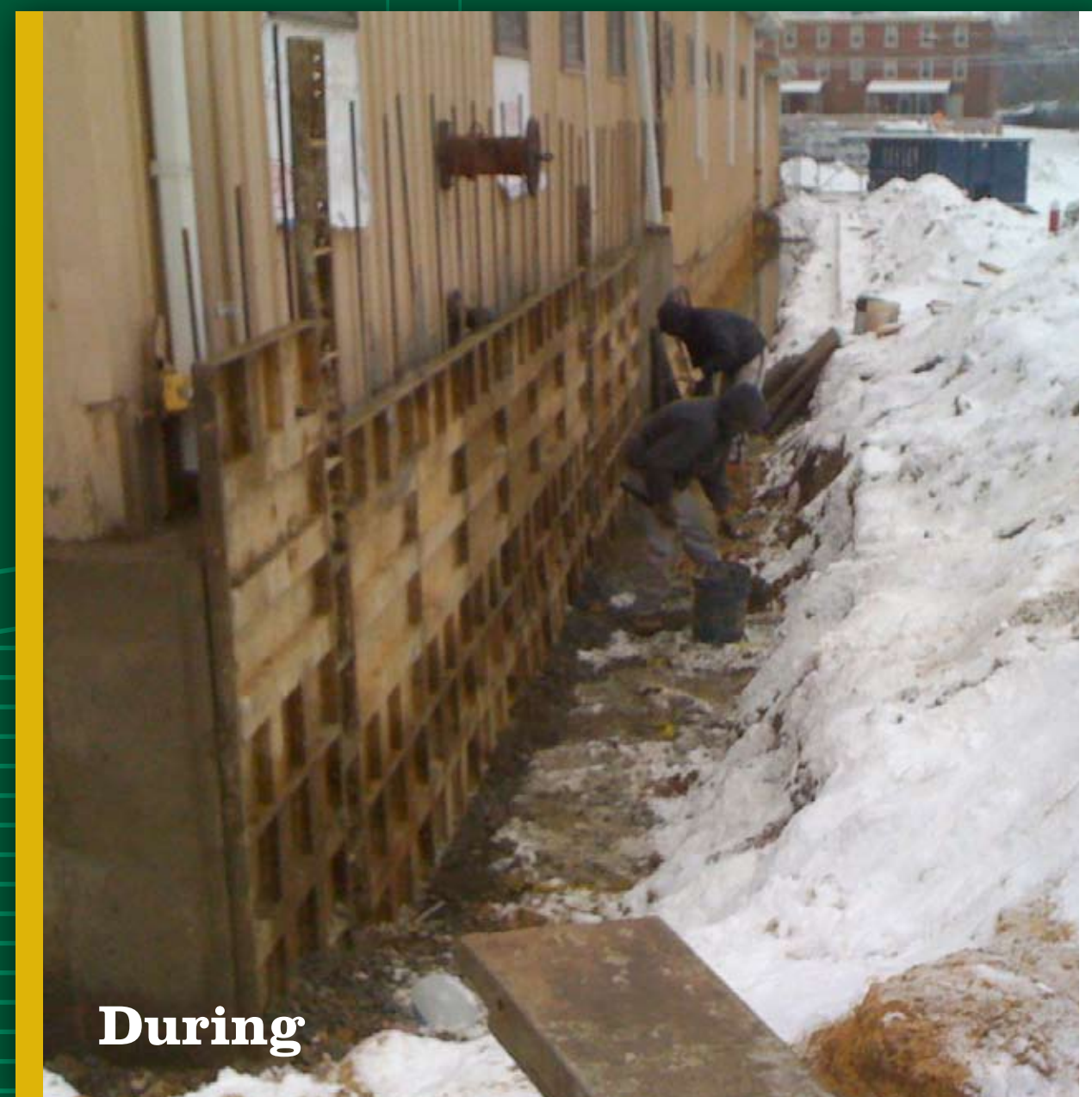
# Lumberyard No Longer Hammered By Flooding



Before

For decades, the Shone Lumber Company felt more vulnerable than venerable because of frequent flooding from the nearby White Clay Creek. This flooding was costing Shone millions of dollars in damage and lost sales. They turned to Duffield Associates for a permanent solution. Duffield's engineers and scientists helped Shone obtain a flood proofing grant from the Federal Emergency Management Agency to fund implementation of a unique flood proofing system.

Flood proofing this expansive showroom and warehouse with its metal siding and its 11 large overhead and personnel doors was a formidable challenge. Duffield's engineers met the challenge by designing a system of masonry perimeter walls and specially fabricated flood gates and doors to protect the building's openings. The design had to allow the building to remain open for business throughout the flood proofing project.



During

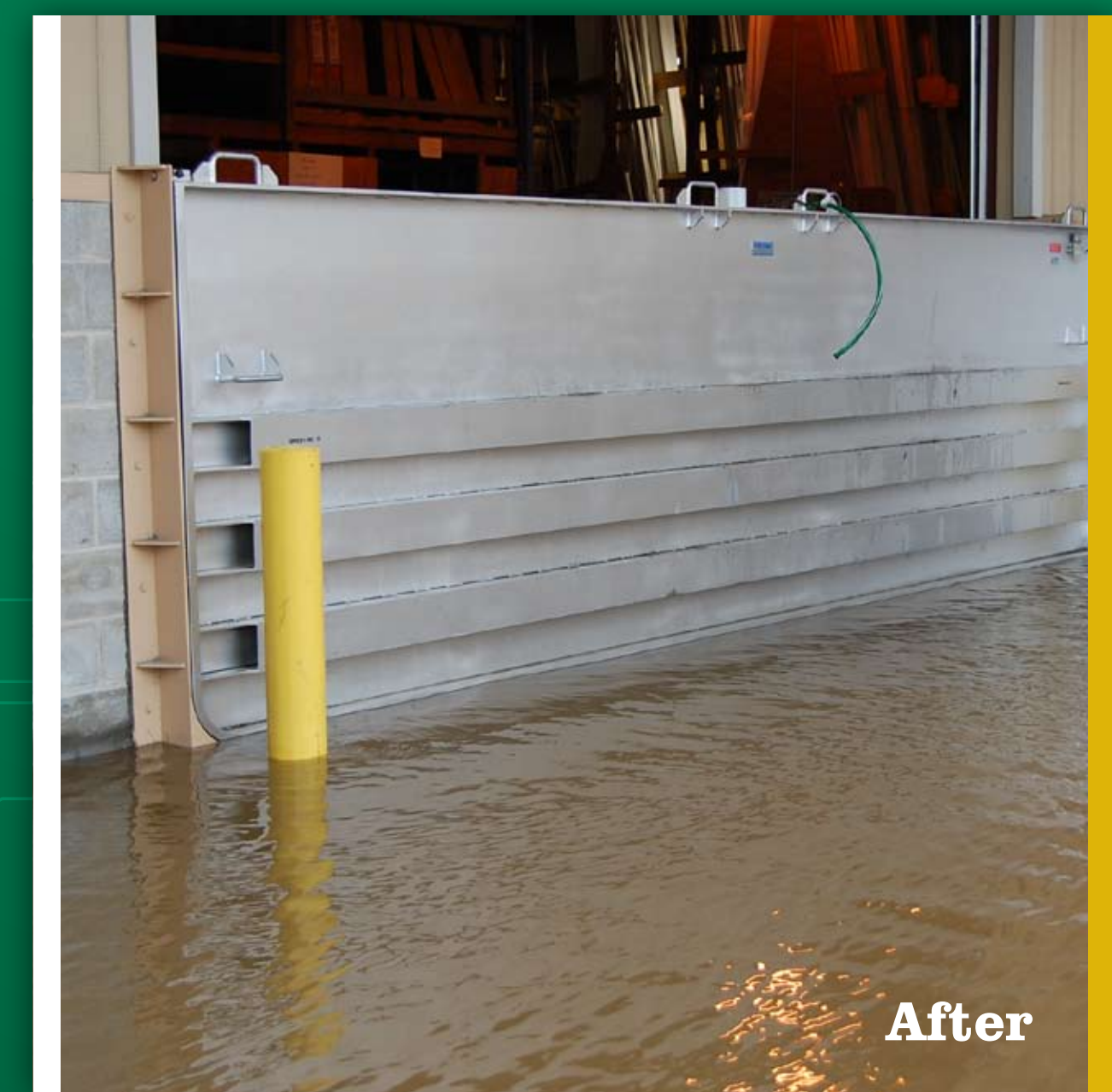


Before

After



After



After



After



Shortly after the project was completed, a major flood occurred. The newly constructed flood proofing system kept the building dry and allowed it to open for business as soon as the floodwaters receded.