



# THE PENTAGON . . .

## BEFORE AND AFTER SEPTEMBER 11, 2001

### Historic Preservation and Force Protection of a National Historic Landmark



A completed Wedge One (lower left of picture) with historic facade on September 5, 2001.



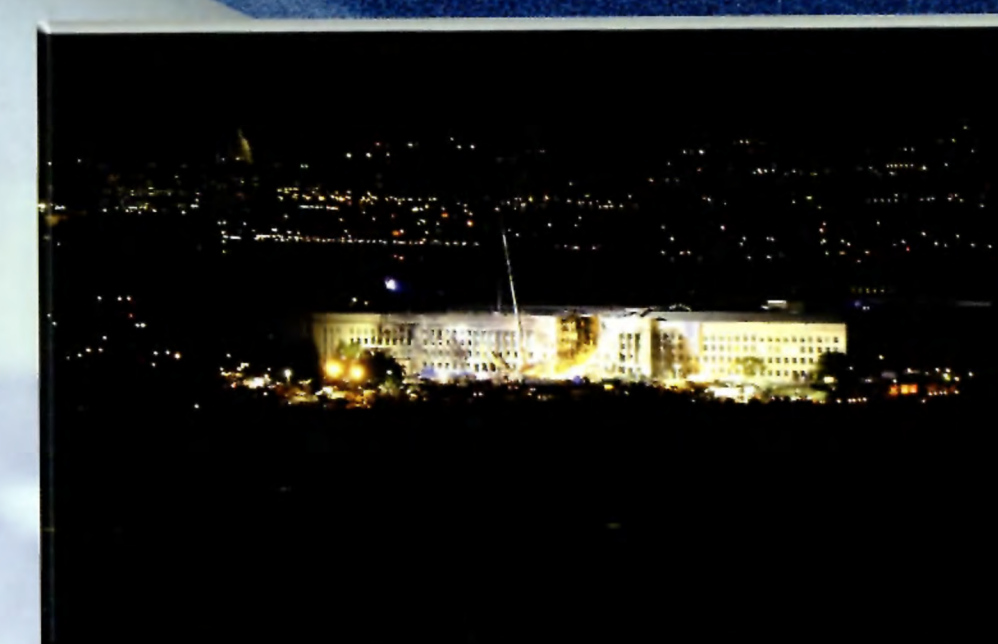
September 11, 2001  
Attack on America



New blast-resistant windows were installed but maintained historic features such as handles, screen holders, and sashes. Steel beams supported the weight of the new windows while a Geotech panel, to prevent fragmentation, covered the original brick and mortar.



Night Operations at the Pentagon - Renovation crews work around the clock to restore this National Historic Landmark by March 2003.



Floor slabs were removed to clear the way for new and convenient escalator banks.



Collapsed portion of Wedge One showing the blast-resistant windows and steel frames still in place. Fire damaged the wooden roof and limestone facade. Replacement limestone will come from the same quarry in Indiana as the original stone.



Water and fire damage inside the Impact Zone.

Collapsed section at the Pentagon - it held for up to 30 minutes after the attack because of security designs.



Debris inside the Impact Zone (1st floor; E Ring).

Office located in the E Ring of the Pentagon.



A burned office with original windows blown out. Fire spread easily through unrenovated areas without preventive sprinkler system.



Occupants of these offices, adjacent to the collapsed impact area, survived the attack. Blast-resistant windows, supported by steel frames, remain visibly intact with curtains still in place. Walls remained sound due to Geotech panels that prevented fragmentation.



The Pentagon  
October 11, 2001  
United in memory



Damage inside an E Ring office without blast-resistant windows and other security designs was far greater.



The remains of an office, including copy machine, in the impact area.



God Bless America!

