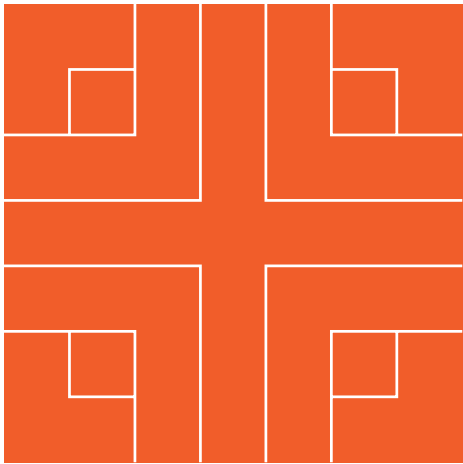


T H E G A R D E N W A L L



WILLEY HOUSE RESTORATION JOURNAL VOLUME 3 ■ ISSUE 3 ■ SUMMER 2004 ■ ■ ■






THE STATE OF THE HOUSE SUMMER 2004

A return to the roof, structural repairs, and modern insulation.

Most of the water problems in the house centered around the chimney mass and the area where the roof tied into the chimney. A copper chimney cap was put on during the first year of restoration. That device prevented the continual seepage into the chimney mass and subsequent moisture leaching through the interior brick. It also stopped water from running down the face of the exterior chimney brick and behind the flashing. The next major leak occurred where the rafters had rotted and slumped at the point they tied into the chimney. The rotted ends of the old rafters were cut off. The chimney was patched and new ledger boards bolted onto the brick mass. The fallen rafters were jacked back up to

proper position and tied into place. Damaged and weak rafters were sistered together with new ones and securely bolted. The living room ceiling required patching at the chimney after rafter repairs were made. 

Following is a photo essay on summer restoration accomplishments at the Willey House.



Rotted rafter ends were cut off.





Top: the roof as it appeared below the chimney mass when fully exposed. Notice the condition of rafters to the left vs. the repaired rafters to the right. Bottom left and middle: earlier roof repairs; bottom right: final roof repair.



New headers bolted to the chimney mass.



Excess mortar from an earlier chimney repair had to be ground out.



The living room roof and ceiling sagged approximately two inches on the west side. It was jacked up before repair.






COMPLETION OF BEDROOM TERRACE

The bedroom terrace is completed at last by Roger's Masonry. Stafford and Josh reported that not only was their workmanship of exceedingly fine quality but the workmen themselves were atypical of tradesmen and often played Scrabble at lunch hour.

The drainage system, designed by Stafford, is fitted flush to the terrace. The grate diffuses splashing and the trough

carries off any standing water. The new terrace bricks run the length of the house as in the original plan. The last terrace had bricks laid perpendicular to the length of the house. A step down to the garden that was shown in the original design is executed at last.


The garden wall is repaired with custom brick and all the red head joints tuck-pointed. The effect is spectacular. 





PREPARING FOR NEW DOORS

The loose pin hinges on all of the French doors were painted grey. The 70 year old paint failed and the hinges rusted. Before the new doors arrived all of the hinges

were systematically removed, sandblasted down to bare metal and powder coated grey to match the stain of the doors. 



ROOF STRUCTURE

The roof above the master bedroom had never been open since 1934. The vintage tar paper and sheathing were still in place. But, the original materials had to be removed in order to insulate. Since the roof was fully


open, the spaces between the rafters were vacuumed free of debris and the cantilever that extends off the end of this wing was reinforced with hurricane brace straps. ☐





THE RETURN OF THE LIGHT

The long wait, first for bricks and then for French doors, built several times due to warping, kept the Willey house in the gloomy darkness of a plywood enclosure for months on end. The enclosure finally came down with the installation of the new cypress doors and mullions. Sunlight and the vista, both long absent were again restored. The doors, built by D. P. Juza of Shell Lake, Wisconsin, are

crisp, straight and beautiful. The thermopane glass, constructed with black aluminum spacers and recessed, look like what the original plate glass versions must have when new. Dave's installers spent two weeks carefully fitting the jambs and mullions and hanging the doors. The result is well worth the wait. Finishing and weather stripping will be completed in the near future. 






Top left: drainage system seen through the new master bedroom doors; top middle and right: thrust bolts lock into new thresholds; bottom: the house exterior begins to take shape.



INSULATION

Icynene expandable foam insulation was applied from the outside, section by section as roof repairs were completed. This product increased the R value and sound deadening of the roof as well as stiffened up the structure.

Cedar Breather was used under the new cedar shingles. It prevents direct contact between shingles, ventilates them and thus increases their life span. 





THE STORAGE ROOM

In the storage area above the garage Mr. Wright had specified plaster. For cost savings the room had never been finished by the Willey's. Out of necessity, it now is on its way to completion. The room needs to be heated and fully insulated because it will soon be housing the air

handling equipment for the air conditioning system. Since the storage room had an open ceiling, Icynene insulation was applied in the conventional manner, from inside before plastering. 📷



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