1023-Z1-697 **David R Guichard*** (guichard@whitman.edu), 345 Boyer Avenue, Walla Walla, WA 99362. Perfect Matchings in Pruned Grid Graphs.

We determine conditions sufficient to guarantee the existence of a perfect matching when vertices are removed from finite and infinite grid graphs. The conditions impose a minimum distance between the vertices that are removed. While the distances are likely not best possible, they are best possible with respect to asymptotic growth rate. (Received September 20, 2006)