

RESOLUTION ADOPTED BY UNANIMOUS CONSENT
OF THE BOARD OF DIRECTORS OF
A. P. GREEN SERVICES INC.

December 8, 1989

The undersigned, being all of the directors of A. P. Green Services Inc., a Michigan corporation, hereby adopt the following resolution, by unanimous consent, as the action of the Board of Directors of said Company:

RESOLVED, that the Board of Directors of this corporation has determined that this corporation will derive substantial direct and indirect benefit from Commerce Bank of St. Louis, Missouri, N.A. (hereinafter called "Bank"), giving and continuing to give financial accommodation and credit to A. P. Green Industries, Inc. (hereinafter called "Borrower"), and that any one of the following agents and officers of this corporation:

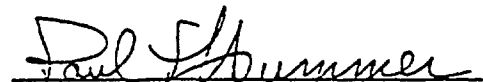
Paul F. Hummer
Gary L. Roberts

is hereby authorized to execute, extend and deliver to Bank this corporation's continuing, absolute and unqualified guaranty of the obligations of the above named Borrower, such guaranty to be in such form as required by Bank.


Harry M. Stover


Max C. Aiken


Michael B. Cooney


Paul F. Hummer


W. P. Henwood


Gary L. Roberts

