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ES BANCSHARES, INC.
ANNUAL MEETING OF STOCKHOLDERS
May 6, 2010

As an alternative to completing this form, you may enter your vote instruction by telephone at 1-800-PROXIES, or via the Internet at WWW.VOTEPROXY.COM and follow the simple instructions. Use the Company Number and Account Number shown on your proxy card.

The undersigned hereby appoints the Board of Directors of ES Bancshares, Inc. (the "Company") with full powers of substitution, to act as attorneys and proxies for the undersigned to vote all shares of capital stock of the Company which the undersigned is entitled to vote at the Annual Meeting of Stockholders (the "Meeting") to be held at our New Paltz branch office located at 275 Main Street, New Paltz, New York 12561, on Thursday, May 6, 2010 at 4:00 p.m. and at any and all adjournments and postponements thereof.

This Proxy may be revoked at any time before it is voted by: (i) filing with the Secretary of ES Bancshares, Inc. at or before the Meeting a written notice of revocation bearing a later date than this Proxy; (ii) duly executing a subsequent proxy relating to the same shares and delivering it to the Secretary of the Company at or before the Meeting; or (iii) attending the Meeting and voting in person (although attendance at the Meeting will not in and of itself constitute revocation of this Proxy). If this Proxy is properly revoked as described above, then the power of the Board of Directors to act as attorney and proxy for the undersigned shall be deemed terminated and of no further force and effect.

The undersigned acknowledges receipt from the Company, prior to the execution of this proxy, of notice of the Meeting, a Proxy Statement and Annual Report to Stockholders.

(Continued and to be signed on the reverse side.)

ANNUAL MEETING OF SHAREHOLDERS OF

ES Bancshares, Inc.

May 6, 2010

PROXY VOTING INSTRUCTIONS

INTERNET - Access "www.voteproxy.com" and follow the on-screen instructions.

TELEPHONE - Call toll-free 1-800-PROXIES (1-800-776-9437) in the United States or 1-718-921-8500 from foreign countries from any touch-tone telephone and follow the instructions.

Vote online/phone until 11:59 PM EST the day before the meeting.

MAIL - Sign, date and mail your proxy card in the envelope provided as soon as possible.

IN PERSON - You may vote your shares in person by attending the Annual Meeting.

Table with 2 columns: COMPANY NUMBER, ACCOUNT NUMBER. Includes a shaded area at the bottom left.

NOTICE OF INTERNET AVAILABILITY OF PROXY MATERIAL: The Notice of Meeting, Proxy Statement, Annual Report on Form 10-K are available at www.esbna.com

Please detach along perforated line and mail in the envelope provided IF you are not voting via telephone or the Internet.

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THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE ELECTION OF THE NOMINEES LISTED BELOW AND "FOR" THE RATIFICATION OF THE APPOINTMENT OF THE INDEPENDENT REGISTERED PUBLIC AUDITING FIRM.

PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE [X]

1. The election as directors of all nominees listed below (except as marked to the contrary)

[] FOR ALL NOMINEES

[] WITHHOLD AUTHORITY FOR ALL NOMINEES

[] FOR ALL EXCEPT (See instructions below)

NOMINEES:

- ANDREW G. FINKLESTEIN
GALE L. FOSTER
THOMAS D. WEDDELL
DAVID N. MESCHES, M.D.

2. The ratification of the appointment of Crowe Horwath LLP as our independent registered public auditing firm for the year ending December 31, 2010. FOR [] AGAINST [] ABSTAIN []

In their discretion, the proxies are authorized to vote on any other business that may properly come before the Meeting or any adjournment or postponement thereof.

THIS PROXY WILL BE VOTED AS DIRECTED, BUT IF NO INSTRUCTIONS ARE SPECIFIED, THIS PROXY WILL BE VOTED FOR THE NOMINEES LISTED HEREIN IN EQUAL PROPORTION, AND FOR THE RATIFICATION OF THE APPOINTMENT OF CROWE HORWATH LLP AS THE COMPANY'S INDEPENDENT REGISTERED PUBLIC AUDITING FIRM FOR THE YEAR ENDING DECEMBER 31, 2010.

INSTRUCTIONS: To withhold authority to vote for any individual nominee(s), mark "FOR ALL EXCEPT" and fill in the circle next to each nominee you wish to withhold, as shown here: []

To change the address on your account, please check the box at right and indicate your new address in the address space above. Please note that changes to the registered name(s) on the account may not be submitted via this method. []

Signature of Shareholder [] Date: [] Signature of Shareholder [] Date: []

Note: Please sign exactly as your name or names appear on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, attorney, trustee or guardian, please give full title as such.