

NORTHFIELD BANCORP, INC. C/O BROADRIDGE P.O. BOX 1342 BRENTWOOD, NY 11717

Signature [PLEASE SIGN WITHIN BOX]

Date



VOTE BY INTERNET

Before The Meeting - Go to www.proxyvote.com or scan the QR Barcode above

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 p.m. Eastern Time on May 27, 2025. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

During The Meeting - Go to www.virtualshareholdermeeting.com/NFBK2025 You may attend the meeting via the Internet and vote during the meeting. Have the information that is printed in the box marked by the arrow available and follow the instructions.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 p.m. Eastern Time on May 27, 2025. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS: V69614-P24729-Z89266-Z89267 KEEP THIS PORTION FOR YOUR RECORDS DETACH AND RETURN THIS PORTION ONLY THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED. To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below. NORTHFIELD BANCORP, INC. For Withhold For All ΑII The Board of Directors recommends you vote FOR the following: Election of Directors for the term shown Nominees: 01) Gil Chapman - three-year term 02) Steven M. Klein - three-year term Frank P. Patafio - three-year term Paul V. Stahlin - one-year term The Board of Directors recommends you vote FOR proposal 2. For Against Abstain An advisory, non-binding resolution, to approve the executive compensation described in the Proxy Statement; 1 Year 2 Years 3 Years Abstain The Board of Directors recommends you vote for 1 YEAR on proposal 3. An advisory, non-binding proposal with respect to the frequency that stockholders will vote on our executive compensation; The Board of Directors recommends you vote FOR proposal 4. For Against Abstain The ratification of the appointment of Crowe LLP as independent registered public accounting firm for the year ending December 31, 2025; and such other business as may properly come before the meeting or any adjournment thereof. Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally, but only one signature is required. If a corporation or partnership, please sign in full corporate or partnership name by authorized officer.

Signature (Joint Owners)

Date

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting:

The Notice and Proxy Statement and Annual Report are available at www.proxyvote.com.

V69615-P24729-Z89266-Z89267

NORTHFIELD BANCORP, INC. Annual Meeting of Stockholders May 28, 2025, 10:00 a.m. Eastern Time Revocable Proxy This Proxy is solicited by the Board of Directors.

The undersigned hereby appoints the full Board of Directors (other than those listed as nominees in this proxy), with full powers of substitution, to act as attorneys and proxies for the undersigned to vote all shares of common stock of Northfield Bancorp, Inc. (the "Company"), which the undersigned is entitled to vote at the Annual Meeting of Stockholders to be held virtually only at 10:00 a.m. (Eastern Time) on May 28, 2025. You may also participate in the Annual Meeting, submit questions, and vote online, until voting is closed, at www.virtualshareholdermeeting.com/NFBK2025. The proxy committee is authorized to cast all votes to which the undersigned is entitled as follows. Should the stockholder be present virtually and elect to vote during the Annual Meeting or at any adjournment thereof and after notification to the Corporate Secretary of the Company at the Annual Meeting of the stockholder's decision to terminate this proxy, then the power of said attorneys and proxies shall be deemed terminated and of no further force and effect. This proxy may also be revoked by sending written notice to the Corporate Secretary of the Company at the address set forth on the Notice of Annual Meeting of Stockholders, or by the filing of a later proxy prior to a vote being taken on a particular proposal at the Annual Meeting.

THIS PROXY WILL BE VOTED AS DIRECTED, BUT IF NO INSTRUCTIONS ARE SPECIFIED, AND THIS FORM IS RETURNED SIGNED, THIS PROXY WILL BE VOTED FOR EACH OF THE PROPOSALS STATED. IF ANY OTHER BUSINESS IS PRESENTED AT THE ANNUAL MEETING, THIS PROXY WILL BE VOTED BY THE ABOVE-NAMED PROXIES AT THE DIRECTION OF A MAJORITY OF THE BOARD OF DIRECTORS. AT THE PRESENT TIME, THE BOARD OF DIRECTORS KNOWS OF NO OTHER BUSINESS TO BE PRESENTED AT THE ANNUAL MEETING.

The stockholder acknowledges receipt from the Company prior to the execution of this proxy of: the Notice of the Annual Meeting, which gives access to the audited financial statements and a proxy statement dated April 14, 2025 online at www.enorthfield.com/proxy, or the ability to obtain paper copies on the vote site www.proxyvote.com. The Board of Directors recommends a vote "FOR" all nominees listed, "FOR" proposals 2 and 4, and "1 YEAR" on proposal 3.

Continued and to be signed on reverse side