

*Subject to Completion*  
*Draft Pricing Supplement Dated February 3, 2020*

**Pricing Supplement to Short Form Base Shelf Prospectus dated January 30, 2018,  
the Prospectus Supplement thereto dated January 30, 2018 and  
the Prospectus Supplement thereto dated January 30, 2018**

*No securities regulatory authority has expressed an opinion about these securities and it is an offence to claim otherwise.*

*This pricing supplement together with the short form base shelf prospectus dated January 30, 2018, the prospectus supplement dated January 30, 2018 and the prospectus supplement dated January 30, 2018, to which it relates, as amended or supplemented, and each document incorporated by reference into such prospectus, constitutes a public offering of these securities only in those jurisdictions where they may be lawfully offered for sale and therein only by persons permitted to sell such securities.*

*The securities to be issued hereunder have not been, and will not be, registered under the United States Securities Act of 1933, as amended and, subject to certain exceptions, may not be offered, sold or delivered, directly or indirectly, in the United States of America or for the account or benefit of U.S. persons.*

[•], 2020



**Royal Bank of Canada  
Senior Note Program  
Equity Linked Securities  
Maximum \$20,000,000 (200,000 Debt Securities)  
RBC Canadian Bank Yield RoC Securities, Series 100  
Due December 5, 2039  
Non-Principal Protected Securities**

Royal Bank of Canada (the “**Bank**”) is offering up to \$20,000,000 of RBC Canadian Bank Yield RoC Securities, Series 100 (the “**Debt Securities**”), designed for equity investors seeking a return based on the weighted performance of a notional portfolio of six Canadian chartered bank stocks where the two top dividend yielding bank stocks are weighted 25.000% each, the next two top dividend yielding bank stocks are weighted 16.667% each and the two lowest dividend yielding bank stocks are weighted 8.333% each and the Portfolio (defined below) is rebalanced quarterly.

The return of the Debt Securities will reflect the return over the term to maturity of the Debt Securities of a notional portfolio (the “**Portfolio**”) of common shares (the “**Underlying Securities**” and each, an “**Underlying Security**”) of Bank of Montreal, Canadian Imperial Bank of Commerce, National Bank of Canada, Royal Bank of Canada, The Bank of Nova Scotia and The Toronto-Dominion Bank (the “**Underlying Security Issuers**” and each, an “**Underlying Security Issuer**”), the weightings of which within the Portfolio are determined based on the Indicated Annual Dividend Yield (defined herein) of each respective Underlying Security Issuer as at the last Exchange Day (defined in the product supplement) of the most recently completed calendar quarter prior to the Issue Date (defined herein) (the “**Strategy**”). The Strategy assigns the two Underlying Security Issuers with the highest Indicated Annual Dividend Yield a Portfolio weighting of one-half of the Portfolio, being 25.000% each, the two Underlying Security Issuers with the next highest Indicated Annual Dividend Yield are assigned a Portfolio weighting of one-third of the Portfolio, being 16.667% each, and the two Underlying Security Issuers with the lowest Indicated Annual Dividend Yield are assigned a Portfolio weighting of one-sixth of the Portfolio, being 8.333% each (the “**Portfolio Weights**”). On each Dividend Yield Calculation Date (defined herein), the Portfolio will be rebalanced to reflect the Portfolio Weights at such date, except as described in “Underlying Securities”.

**The Debt Securities are not fixed income securities and are not designed to be alternatives to fixed income or money market instruments. The Debt Securities are structured products that possess downside risk.**

The initial estimated value of the Debt Securities as of the date of this pricing supplement is \$97.85 per Debt Security, which is less than the price to the public and is not an indication of the actual profit to the Bank or its affiliates. This initial estimated value of the Debt Securities was calculated by deducting the sum of the upfront portion of the Note Program Amount (defined herein) and the selling commissions payable to the Dealers (defined below) from the Principal Amount (defined herein). The actual value of the Debt Securities at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. **The initial estimated value of the Debt Securities does not take into account the ongoing annual component of the Note Program Amount.** We describe our determination of the initial estimated value in more detail below. See “Risk Factors” and “Preparation of Initial Estimated Value”.

At maturity, each holder of a Debt Security will receive an amount for such Debt Security equal to the Redemption Amount (defined herein). The Redemption Amount will be subject to a minimum payment of \$1.00 per Debt Security and will vary throughout the term with the

Variable Return (defined herein), which may be positive or negative. The Variable Return reflects the deduction of the fees and expenses of the offering because it is calculated net of the Note Program Amount and the selling commissions. See “Summary of Fees and Expenses”. The Variable Return may also be affected by a number of other factors beyond the control of the Bank. As a result, the Redemption Amount will not be determinable before maturity. See “Risk Factors”. If the Value of the Portfolio (defined herein) decreases or does not increase sufficiently, holders will receive less than the amount they invested in the Debt Securities and could lose some or substantially all of their investment in the Debt Securities.

Holders will also receive partial repayments of the Principal Amount calculated quarterly and payable no later than the fifth Business Day (defined in the program supplement) following the end of each calendar quarter during the term of the Debt Securities, other than the calendar quarter in which the Final Valuation Date (defined herein) falls, equal to the amount of any dividends or other distributions, other than Extraordinary Distributions (defined herein), paid by the Underlying Security Issuers on the Underlying Securities notionally included in the Portfolio during the immediately preceding calendar quarter, to a maximum of \$99.00 per Debt Security over the term of the Debt Securities. In addition, any dividends or other distributions in excess of \$99.00 per Debt Security, other than Extraordinary Distributions, paid by the Underlying Security Issuers on the Underlying Securities notionally included in the Portfolio will be notionally reinvested in the Portfolio on the first Business Day of the next calendar quarter in accordance with the allocation of the Portfolio at the beginning of such calendar quarter. Extraordinary Distributions will be notionally reinvested in the Portfolio in accordance with the allocation of the Portfolio on the date of reinvestment. With respect to Extraordinary Distributions, the Calculation Agent (defined herein) will have discretion in determining the timing of such notional reinvestment. See “Extraordinary Distributions”.

The Portfolio is notional only, meaning that the shares in the Portfolio will be used solely as a reference to calculate the amount payable on the Debt Securities. Holders of Debt Securities do not have an ownership interest or other interest (including, without limitation, redemption rights (if any), voting rights or rights to receive dividends or other distributions) in the shares in the Portfolio and will only have a right against the Bank to be paid any amounts due under the Debt Securities. All actions (e.g., purchases, sales and liquidations, dividends and other distributions, etc.) taken in connection with the Portfolio are notional actions only.

The Debt Securities are described in this pricing supplement delivered together with our short form base shelf prospectus dated January 30, 2018 (the “**base shelf prospectus**”), the prospectus supplement establishing our Senior Note Program dated January 30, 2018 (the “**program supplement**”) and a prospectus supplement which generally describes equity, unit and debt linked securities that we may offer under our Senior Note Program dated January 30, 2018 (the “**product supplement**”).

**The Debt Securities will not constitute deposits insured under the *Canada Deposit Insurance Corporation Act*.**

**An investment in the Debt Securities involves risks. An investment in the Debt Securities is not the same as a direct investment in the securities that comprise the Portfolio and investors have no rights with respect to the securities in the Portfolio. The Debt Securities are considered to be “specified derivatives” under applicable Canadian securities laws. If you purchase Debt Securities, you will be exposed to fluctuations in interest rates and changes in the Value of the Portfolio, among other factors. Price changes may be volatile and an investment in the Debt Securities may be considered to be speculative. Since the Debt Securities are not principal protected and the Principal Amount will be at risk, you could lose substantially all of your investment. See “Risk Factors”.**

	Price: \$100 per Debt Security		
	Minimum Subscription: \$5,000 (50 Debt Securities)		
	Price to public	Selling Commissions and Dealer’s fee <sup>(1)</sup>	Net proceeds to the Bank
Per Debt Security	\$100.00	\$2.15	\$97.85
Total <sup>(2)</sup>	\$20,000,000	\$430,000	\$19,570,000

(1) A commission of 2.00% of the Principal Amount of Debt Securities issued under this offering will be paid to the Dealers for further payment to representatives, including representatives employed by the Dealers, whose clients purchase the Debt Securities. An upfront note program amount of 0.15% of the Principal Amount of Debt Securities issued under this offering will be retained by the Bank. An agency fee will be paid out of the upfront portion of the Note Program Amount to Laurentian Bank Securities Inc. in an amount up to 0.15% of the Principal Amount of the Debt Securities issued under this offering for acting as independent agent.

(2) Reflects the maximum offering size of the Debt Securities. **There is no minimum amount of funds that must be raised under this offering. This means that the issuer could complete this offering after raising only a small proportion of the offering amount set out above.**

The Debt Securities are offered severally by RBC Dominion Securities Inc. (“**RBC DS**”) and Laurentian Bank Securities Inc. (collectively, the “**Dealers**”) as agents under a dealer agreement dated January 30, 2018, as amended or supplemented from time to time. **RBC DS is our wholly owned subsidiary. Consequently, we are a related and connected issuer of RBC DS within the meaning of applicable securities legislation.** See “Dealers” in this pricing supplement and “Plan of Distribution” in the program supplement.

The Debt Securities will not be listed on any stock exchange. Debt Securities may be resold using the Fundserv network at a price determined at the time of sale by the Calculation Agent, which price may be lower than the Principal Amount of such Debt Securities. The Debt Securities will also be subject to specified early trading charges, depending on when the Debt Securities are sold. There is no assurance that a secondary market for the Debt Securities will develop or be sustained. See “Secondary Market for Securities”, “Description of the Securities–Calculation Agent” and “Risk Factors” in the program supplement and “Secondary Market” in this pricing supplement.

## Prospectus for Debt Securities

Debt Securities described in this pricing supplement will be issued under our Senior Note Program and will be unsecured, unsubordinated debt obligations. The Debt Securities are Senior Debt Securities (as defined in the base shelf prospectus referred to below) and are described in four separate documents: (1) the base shelf prospectus, (2) the program supplement, (3) the product supplement, and (4) this pricing supplement, all of which collectively constitute the “prospectus” for the Debt Securities. See “Prospectus for Securities” in the program supplement.

### Documents Incorporated by Reference

This pricing supplement is deemed to be incorporated by reference into the base shelf prospectus solely for the purpose of our Senior Note Program and the Debt Securities issued hereunder. Other documents are also incorporated or deemed to be incorporated by reference into the base shelf prospectus and reference should be made to the base shelf prospectus for full particulars.

### Caution Regarding Forward-Looking Statements

From time to time, we make written or oral forward-looking statements within the meaning of certain securities laws, including the “safe harbour” provisions of the United States Private Securities Litigation Reform Act of 1995 and any applicable Canadian securities legislation. We may make forward-looking statements in the base shelf prospectus and in the documents incorporated by reference therein, in the program supplement, in the product supplement, in this pricing supplement, in other filings with Canadian regulators or the United States Securities and Exchange Commission, in reports to shareholders, and in other communications. Forward-looking statements in, or incorporated by reference in, this prospectus include, but are not limited to, statements relating to our financial performance objectives, vision and strategic goals, the Economic, market, and regulatory review and outlook section of our management’s discussion and analysis for the year ended October 31, 2019 (the “**2019 Management’s Discussion and Analysis**”) for Canadian, U.S., European and global economies, the regulatory environment in which we operate, the Strategic priorities and Outlook sections in the 2019 Management’s Discussion and Analysis for each of our business segments, and the risk environment including our liquidity and funding risk, and includes our President and Chief Executive Officer’s statements. The forward-looking information contained in, or incorporated by reference in, this prospectus is presented for the purpose of assisting the holders of our securities and financial analysts in understanding our financial position and results of operations as at and for the periods ended on the dates presented, as well as our financial performance objectives, vision and strategic goals, and may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as “believe”, “expect”, “foresee”, “forecast”, “anticipate”, “intend”, “estimate”, “goal”, “plan” and “project” and similar expressions of future or conditional verbs such as “will”, “may”, “should”, “could” or “would”.

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, which give rise to the possibility that our predictions, forecasts, projections, expectations or conclusions will not prove to be accurate, that our assumptions may not be correct and that our financial performance objectives, vision and strategic goals will not be achieved. We caution readers not to place undue reliance on these statements as a number of risk factors could cause our actual results to differ materially from the expectations expressed in such forward-looking statements. These factors – many of which are beyond our control and the effects of which can be difficult to predict – include: credit, market, liquidity and funding, insurance, operational, regulatory compliance, strategic, reputation, legal and regulatory environment, competitive and systemic risks and other risks discussed in the risk sections of the 2019 Management’s Discussion and Analysis incorporated by reference herein; including information technology and cyber risk, privacy, data and third-party related risks, geopolitical uncertainty, Canadian housing and household indebtedness, regulatory changes, digital disruption and innovation, climate change, the business and economic conditions in the geographic regions in which we operate, the effects of changes in government fiscal, monetary and other policies, tax risk and transparency, and environmental and social risk.

We caution that the foregoing list of risk factors is not exhaustive and other factors could also adversely affect our results. When relying on our forward-looking statements to make decisions with respect to us or the Debt Securities, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Material economic assumptions underlying the forward-looking statements contained in this prospectus are set out in the Economic, market and regulatory review and outlook section and for each business segment under the Strategic priorities and Outlook headings in our 2019 Management’s Discussion and Analysis. Except as required by law, we do not undertake to update any forward-looking statement, whether written or oral, that may be made from time to time by us or on our behalf.

Additional information about these and other factors can be found in the risk sections of our 2019 Management’s Discussion and Analysis incorporated by reference in this prospectus.

**Royal Bank of Canada**  
**Senior Note Program**  
**Equity Linked Securities**  
**Maximum \$20,000,000 (200,000 Debt Securities)**  
**RBC Canadian Bank Yield RoC Securities, Series 100**  
**Due December 5, 2039**  
**Non-Principal Protected Securities**

<b>Issuer:</b>	Royal Bank of Canada
<b>Dealers:</b>	RBC Dominion Securities Inc. (“ <b>RBC DS</b> ”) and Laurentian Bank Securities Inc.  Laurentian Bank Securities Inc., a dealer to which we are neither related nor connected, participated in the due diligence activities performed by the Dealers in respect of the offering, but did not participate in the structuring and pricing of the offering. See “Plan of Distribution” in the program supplement.
<b>Issue:</b>	RBC Canadian Bank Yield RoC Securities, Series 100 due December 5, 2039.
<b>Fundserv Code:</b>	RBC7300
<b>Objective of the Debt Securities:</b>	The Debt Securities have been designed for equity investors seeking a return based on the weighted performance of a notional portfolio of six Canadian chartered bank stocks where the two top dividend yielding bank stocks are weighted 25.000% each, the next two top dividend yielding bank stocks are weighted 16.667% each and the two lowest dividend yielding bank stocks are weighted 8.333% each. The Portfolio (defined below) is rebalanced quarterly.
<b>Issue Price:</b>	The Debt Securities will be issued at a price equal to their Principal Amount (defined below).
<b>Minimum Investment:</b>	50 Debt Securities or \$5,000.
<b>Denomination:</b>	Debt Securities are issuable in denominations of \$100 (the “ <b>Principal Amount</b> ”) and in minimum increments of \$100.
<b>Issue Date:</b>	March 4, 2020 or such other date as may be agreed to by the Bank and the Dealers.
<b>Issue Size:</b>	The maximum issue size will be an aggregate amount of \$20,000,000.
<b>Initial Valuation Date:</b>	March 2, 2020
<b>Final Valuation Date:</b>	December 1, 2039, being the second Exchange Day (defined in the product supplement) before the Maturity Date (defined below).
<b>Maturity Date:</b>	December 5, 2039 (approximately a twenty-year term). See “Description of the Equity, Unit and Debt Linked Securities – Maturity Date and Amount Payable” in the product supplement.

**Principal at Risk Securities:** All but 1% of the Principal Amount of the Debt Securities is fully exposed. You could lose substantially all of your investment. See “Description of the Equity, Unit and Debt Linked Securities – Principal at Risk Securities” and “Risk Factors” in the product supplement.

**Return of Capital Securities:** The Debt Securities are “RoC Securities”. See “Description of the Equity, Unit and Debt Linked Securities - Return of Capital Securities” in the product supplement.

**Underlying Securities:** The return of the Debt Securities will reflect the return over the term to maturity of the Debt Securities of a notional portfolio (the “**Portfolio**”) of common shares (the “**Underlying Securities**”) and each, an “**Underlying Security**”) of Bank of Montreal, Canadian Imperial Bank of Commerce, National Bank of Canada, Royal Bank of Canada, The Bank of Nova Scotia and The Toronto-Dominion Bank (the “**Underlying Security Issuers**”) and each, an “**Underlying Security Issuer**”), the weightings of which within the Portfolio are determined based on the Indicated Annual Dividend Yield (defined below) of each respective Underlying Security Issuer as at the last Exchange Day of the most recently completed calendar quarter prior to the Issue Date (the “**Strategy**”). As at such date, the Strategy assigns the two Underlying Security Issuers with the highest Indicated Annual Dividend Yield a Portfolio weighting of one-half of the Portfolio, being 25.000% each, the two Underlying Security Issuers with the next highest Indicated Annual Dividend Yield are assigned a Portfolio weighting of one-third of the Portfolio, being 16.667% each, and the two Underlying Security Issuers with the lowest Indicated Annual Dividend Yield are assigned a Portfolio weighting of one-sixth of the Portfolio, being 8.333% each (the “**Portfolio Weights**”). On each Dividend Yield Calculation Date (defined below), the Portfolio will be rebalanced based on the Strategy to reflect the Portfolio Weights at such date, other than when the first Exchange Day following such date falls in a month in which the Final Valuation Date and/or Maturity Date occurs. In the event that multiple Underlying Security Issuers have an identical Indicated Annual Dividend Yield on any given Dividend Yield Calculation Date, for purposes of determining the ranking of the Underlying Security Issuers’ respective Indicated Annual Dividend Yields on such Dividend Yield Calculation Date, the Underlying Security Issuer with the greater market capitalization shall be deemed to have a higher Indicated Annual Dividend Yield. See Appendix A and C for information concerning the Underlying Security Issuers.

“**Indicated Annual Dividend Yield**” means, for an Underlying Security Issuer, the amount, in Canadian dollars, of the last regular or ordinary dividend payment made by such Underlying Security Issuer multiplied by the frequency with which such dividends are paid per year, and divided by the Closing Price (defined below) of such Underlying Security Issuer’s Underlying Securities on the relevant Dividend Yield Calculation Date.

“**Dividend Yield Calculation Date**” means the last Exchange Day of each calendar quarter.

As at the inception of the Strategy on December 6, 2011, the Portfolio was weighted using the Indicated Annual Dividend Yield as of the end of the most recently completed calendar quarter prior to that date.

As at December 31, 2019, the Portfolio was weighted as follows:

- Canadian Imperial Bank of Commerce 25.000%

- The Bank of Nova Scotia 25.000%
- Bank of Montreal 16.667%
- Royal Bank of Canada 16.667%
- The Toronto-Dominion Bank 8.333%
- National Bank of Canada 8.333%

On the Issue Date, the Portfolio will be weighted based on the application of the Strategy as at the last Exchange Day of the most recently completed calendar quarter prior to the Issue Date. As a result, the Portfolio weightings referred to above may change between the date of this pricing supplement and the Issue Date.

The annual dividend yield of the Portfolio as of January 31, 2020 was 4.60%.

The weightings of the Portfolio on the Issue Date, and any changes to the weightings of the Portfolio on a quarterly rebalancing date will be disclosed at [www.rbcnotes.com](http://www.rbcnotes.com).

On the Initial Valuation Date, for each \$100 Principal Amount of Debt Securities that are issued, a number of Underlying Securities of each Underlying Security Issuer equal to (x) the product of the weighting assigned to such Underlying Security Issuer and \$97.85 divided by (y) the Closing Price of such Underlying Security on the Initial Valuation Date, and rounded down to the nearest whole Underlying Security, will be notionally purchased by the Calculation Agent (defined below) for the Portfolio. The settlement of such notional purchase will occur on or about the Issue Date.

While the actual weightings of the Underlying Securities comprising the Portfolio may vary depending on the market performance of the Underlying Securities on any day, the Portfolio will be adjusted on a quarterly basis in accordance with the Portfolio Weights assigned to each Underlying Security on the relevant Dividend Yield Calculation Date. On each such date, other than when the first Exchange Day following such date falls in a month in which the Final Valuation Date and/or Maturity Date occurs, the Underlying Securities that are necessary to be removed from the Portfolio in order to achieve those Portfolio Weights will be notionally sold from the Portfolio and the proceeds from such disposition will be used to notionally purchase additional Underlying Securities that are necessary to be acquired in order to achieve those Portfolio Weights. Any such notional acquisitions or dispositions of Underlying Securities in connection with this quarterly rebalancing will be completed on the first Exchange Day following the Dividend Yield Calculation Date and the Underlying Securities will be notionally acquired or sold at the applicable Closing Price on such day.

The Debt Securities do not represent an interest in the Underlying Securities and holders will have no right or entitlement to the Underlying Securities, including, without limitation, redemption rights (if any), voting rights or rights to receive dividends or other distributions paid on such Underlying Securities. There is no requirement for the Bank to hold any interest in the Underlying Securities.

The Portfolio is notional only, meaning that the assets in the Portfolio will be used solely as a reference to calculate the amount payable on the Debt Securities. Holders of Debt Securities will only have a right against the Bank to be paid any amounts due under the Debt Securities. All actions (e.g., purchases, sales and liquidations,

dividends and other distributions, etc.) taken in connection with the Portfolio are notional actions only.

The Calculation Agent will adjust the Portfolio if it determines that a Substitution Event (defined in the product supplement) has occurred in respect of one or more Underlying Securities in the Portfolio. See “Extraordinary Events and Substitution Events” below.

This pricing supplement has been prepared for the sole purpose of assisting prospective investors in making an investment decision with respect to the Debt Securities. This pricing supplement relates only to the Debt Securities offered hereby and does not relate to the Underlying Securities and/or the Underlying Security Issuers. Additional information relating to any of the Underlying Security Issuers whose Underlying Securities are notionally included in the Portfolio can be obtained from the public disclosure filed on [www.sedar.com](http://www.sedar.com) or other publicly available sources. The Bank and the Dealers have not verified the accuracy or completeness of any information pertaining to the Underlying Security Issuers or determined if there has been any omission by any Underlying Security Issuer to disclose any facts, information or events which may have occurred prior to or subsequent to the date as of which any information has been furnished by any Underlying Security Issuer which may affect the significance or accuracy of such information. Neither the Bank (except with respect to any documents of the Bank that are incorporated or deemed to be incorporated by reference into this pricing supplement) nor any Dealer makes any representation that such publicly available documents or any other publicly available information regarding any Underlying Securities or Underlying Security Issuer are accurate or complete. See Appendix A for information concerning the market price and historical Indicated Annual Dividend Yield for each of the Underlying Security Issuers on the Toronto Stock Exchange (the “TSX”). Prospective investors should independently investigate the Underlying Security Issuers and decide whether an investment in the Debt Securities is appropriate. None of the Underlying Security Issuers (other than the Bank) have participated in the preparation of this pricing supplement and the Debt Securities are not in any way sponsored, endorsed, sold or promoted by any of the Underlying Security Issuers (other than the Bank). See “Description of the Equity, Unit and Debt Linked Securities – Underlying Securities and Underlying Security Issuers” in the product supplement. The Bank will carry on business, including with respect to its dividend policy, without regard to the effect that its decisions will have on the Debt Securities. See “Dealings in Underlying Securities” in the product supplement.

The decision to offer the Debt Securities pursuant to this supplement will have been taken independently of any decision by the Bank to purchase the Underlying Securities in the primary or secondary market. Except with respect to any hedging activities the Bank engages with respect to its obligations under the Debt Securities, any decision by the Bank to purchase the Underlying Securities in the primary or in the secondary market will have been taken independently of the Bank’s offering of the Debt Securities pursuant to this supplement. The employees responsible for our Senior Note Program are not privy to any information regarding either primary or secondary market purchases of the Underlying Securities made by the Bank in connection with any primary distribution made by the Underlying Security Issuers.

**Partial Principal Repayments:**

Holders will receive partial repayments of the Principal Amount (the “**Partial Principal Repayments**” and each, a “**Partial Principal Repayment**”) equal to the amount of any dividends or other distributions, other than Extraordinary Distributions (defined below), paid by the Underlying Security Issuers on the Underlying Securities notionally included in the Portfolio during the immediately preceding calendar quarter, to a maximum of \$99.00 per Debt Security over the term of the Debt Securities. The Partial Principal Repayments will be calculated and payable quarterly



no later than the fifth Business Day (defined in the program supplement) following the end of each calendar quarter during the term of the Debt Securities other than the calendar quarter in which the Final Valuation Date falls.

In addition, any non-cash dividends or other distributions, other than Extraordinary Distributions, paid by the Underlying Security Issuers on the Underlying Securities notionally included in the Portfolio will be converted into their notional cash value, as determined by the Calculation Agent acting in good faith, and paid out as Partial Principal Repayments following the end of each calendar quarter in which such non-cash dividends or other distributions are paid.

Notwithstanding the foregoing, the total Partial Principal Repayments to holders throughout the term of the Debt Securities will not exceed \$99.00 per Debt Security. Thereafter, any dividends or other distributions in excess of \$99.00 per Debt Security, other than Extraordinary Distributions, will be notionally reinvested in the Portfolio on the first Business Day of the next calendar quarter in accordance with the allocation of the Portfolio at the beginning of such calendar quarter.

Extraordinary Distributions will be reinvested in the Portfolio as described under “Extraordinary Distributions” below.

Other than the Partial Principal Repayments, no other payment on the Debt Securities will be payable by the Bank during the term of the Debt Securities.

**Extraordinary Distributions:**

Extraordinary Distributions paid during the immediately preceding calendar quarter will be notionally reinvested in the Portfolio on a Business Day to be determined by the Calculation Agent in accordance with the allocation of the Portfolio on the date of reinvestment. With respect to Extraordinary Distributions, the Calculation Agent will have discretion in determining the timing of such notional reinvestment and whether non-cash Extraordinary Distributions will be notionally added to the Portfolio in accordance with the restrictions placed on the Portfolio by the Strategy or converted to their notional cash value and notionally reinvested in the Portfolio in accordance with the allocation of the Portfolio on the date of reinvestment.

Underlying Securities to be notionally purchased as a result of Extraordinary Distributions will be purchased on a *pro rata* basis, based on their then current weighting in the Portfolio. Any Underlying Securities will be notionally purchased at a price to be determined by the Calculation Agent, acting in good faith.

“**Extraordinary Distributions**” means any dividends or other distributions paid by an Underlying Security Issuer on the Underlying Securities notionally included in the Portfolio that could reasonably be considered to have been received as a consequence or result of a one-time, non-recurring or unusual event or circumstance, as determined by the Calculation Agent acting in good faith.

**Outstanding Principal Amount:**

The “**Outstanding Principal Amount**” on each \$100 Principal Amount per Debt Security at any particular time will be equal to: (i) \$100 minus (ii) the sum of all the Partial Principal Repayments made on the Debt Security at or prior to the particular time.

**Variable Return:**

The “**Variable Return**” on each \$100 Principal Amount per Debt Security will be calculated by the Calculation Agent on the Final Valuation Date and will be equal to: (i) the NAV per Debt Security (defined below) calculated using the Closing Price of the Underlying Securities in the Portfolio on the Final Valuation Date; minus (ii) the

Outstanding Principal Amount in respect of such Debt Security. The Variable Return may be positive or negative.

**Valuation of the Debt Securities:** The value of the Portfolio (the “**Value of the Portfolio**”) for the Debt Securities on any Business Day will be calculated by the Calculation Agent and will be equal to the sum of the products obtained by multiplying the Closing Price of the Underlying Securities in the Portfolio by the corresponding Number of Underlying Securities (defined below) of the relevant Underlying Security Issuers, plus the amount of any cash, cash dividends or other distributions (or the cash value of non-cash dividends or other distributions, as determined by the Calculation Agent acting in good faith) paid by the Underlying Security Issuers on the Underlying Securities notionally included in the Portfolio but not yet paid to holders as a Partial Principal Repayment or reinvested at such time.

The net value of the Portfolio (the “**Net Value of the Portfolio**”) for the Debt Securities on any Business Day will be calculated by the Calculation Agent and will be equal to the Value of the Portfolio less the ongoing portion of the Note Program Amount (defined below).

The upfront portion of the Note Program Amount will be satisfied on the Issue Date from the proceeds of the offering, thereby reducing the number of Underlying Securities that would have been otherwise notionally included initially in the Portfolio and therefore the initial NAV per Debt Security, the Variable Return and the Redemption Amount. The ongoing annual component of the Note Program Amount will be calculated based on the Value of the Portfolio and will accrue daily and be satisfied quarterly in arrears by liquidating a *pro rata* (based on their then current weighting in the Portfolio) number of Underlying Securities notionally included in the Portfolio, thereby reducing the Number of Underlying Securities in the Portfolio and therefore the NAV per Debt Security, the Variable Return and the Redemption Amount.

The NAV per Debt Security (the “**NAV per Debt Security**”) for the Debt Securities on any Business Day will be equal to the Net Value of the Portfolio divided by the number of Debt Securities outstanding on such Business Day.

97.85% of the Principal Amount of the Debt Securities will be notionally invested in the Portfolio on the Initial Valuation Date.

The NAV per Debt Security will fluctuate throughout the term with the Net Value of the Portfolio and may be affected by a number of other factors beyond the control of the Bank. As a result, the Redemption Amount will not be determinable before the Maturity Date. See “Risk Factors” below. The Calculation Agent may suspend the determination of the NAV per Debt Security during the existence of any state of affairs that makes those determinations impossible, impractical or prejudicial to holders of the Debt Securities.

“**Closing Price**” means, in respect of an Underlying Security on any Exchange Day, the official closing price for that Underlying Security as announced by the TSX on such Exchange Day, provided that, if on or after the Issue Date the TSX changes the time of day at which such official closing price is determined or fails to announce such official closing price, the Calculation Agent may thereafter deem the Closing Price to be the price of that Underlying Security as of the time of day used by the TSX to determine the official closing price prior to such change or failure to announce. On any day other than an Exchange Day, the Closing Price shall be the official closing

price for that Underlying Security as announced by the TSX on the immediately preceding Exchange Day.

The “**Number of Underlying Securities**” shall be equal to the number of Underlying Securities notionally held in the Portfolio at the relevant time, as notionally purchased by the Calculation Agent using the net proceeds to the Bank of this offering. The Number of Underlying Securities will be reduced from time to time in order to satisfy the ongoing annual component of the Note Program Amount.

**Payment at Maturity:**

At maturity, each holder of a Debt Security will receive a payment equal to the Redemption Amount.

The “**Redemption Amount**” on each \$100 Principal Amount per Debt Security will be equal to the greater of: (i) the Outstanding Principal Amount of such Debt Security, plus the Variable Return (which may be positive or negative); and (ii) \$1.00.

**Publication of NAV:**

To assist investors in determining whether they wish to sell their Debt Securities prior to maturity, the Bank will publish the most recent net bid price of the Debt Securities (being primarily based on the NAV per Debt Security but which could also be influenced by a number of other factors), if any, at [www.rbcnotes.com](http://www.rbcnotes.com). The most recent net bid price takes into account the applicable Early Trading Charge (defined below), if any, upon the sale of Debt Securities prior to maturity.

**Issuer Credit Rating:**

Moody’s: Aa2

Standard & Poor’s: AA-

DBRS: AA

The Debt Securities themselves have not been and will not be rated. See “Description of the Securities – Ratings” in the program supplement and “Risk Factors” in this pricing supplement.

**Extraordinary Events and Substitution Events:**

**Extraordinary Events**

Determination of the NAV per Debt Security may be postponed, or the Bank can accelerate determination of the NAV per Debt Security and repay the Debt Securities in full prior to their maturity, in certain circumstances. If an Extraordinary Event occurs then the Calculation Agent may, but is not required to, make such adjustments to any payment or other term of the Debt Securities as it determines to be appropriate, acting in good faith, to account for the economic effect of such event on the Debt Securities and determine the effective date of any such adjustment. See “Description of the Securities – Special Circumstances” in the program supplement and “Description of the Equity, Unit and Debt Linked Securities – Extraordinary Events” in the product supplement. For the purposes of determining the Actualized Fair Value (defined in the product supplement) per Debt Security upon the occurrence of an Extraordinary Event, in addition to the specific factors described in the product supplement and any other factors that are relevant in the circumstances, the Calculation Agent will determine such Actualized Fair Value per Debt Security on the basis of the then Outstanding Principal Amount.

**Substitution Events**

Upon the determination by the Calculation Agent that a Substitution Event has occurred in respect of an Underlying Security or Underlying Securities in the Portfolio (each, an “**Affected Underlying Security**” and collectively, the “**Affected Underlying Securities**”), the following will apply:

- (i) such Affected Underlying Security will be notionally sold over the five Exchange Days commencing on and immediately following the Substitution Date (defined below), or such shorter period commencing on the Substitution Date for which the Closing Prices are available, from the Portfolio and the proceeds from such disposition will be used to notionally purchase Underlying Securities of the remaining Underlying Security Issuers in accordance with the following Portfolio Weights (and such Portfolio Weights will be used to adjust the Portfolio on each Dividend Yield Calculation Date thereafter):
  - if following the Substitution Event five Underlying Security Issuers remain, the two Underlying Security Issuers with the highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 30% each, the Underlying Security Issuer with the next highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 20% and the two Underlying Security Issuers with the lowest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 10% each;
  - if following the Substitution Event four Underlying Security Issuers remain, the two Underlying Security Issuers with the highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 37.5% each and the two Underlying Security Issuers with the lowest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 12.5% each;
  - if following the Substitution Event three Underlying Security Issuers remain, the Underlying Security Issuer with the highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 50%, the Underlying Security Issuer with the next highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 33% and the Underlying Security Issuer with the lowest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 17%; and
  - if following the Substitution Event two Underlying Security Issuers remain, the Underlying Security Issuer with the highest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 75% and the Underlying Security Issuer with the lowest Indicated Annual Dividend Yield will be assigned a Portfolio weighting of 25%; and
- (ii) the Calculation Agent will determine the applicable values for the Affected Underlying Securities and the Underlying Securities of the remaining Underlying Security Issuers based on the average of the respective Closing Prices for the period of five Exchange Days commencing on and immediately following the Substitution Date, or such shorter period commencing on the Substitution Date for which the Closing Prices are available.

Upon the determination by the Calculation Agent that a Substitution Event has occurred, the Bank will promptly give details of such substitution and brief details of the Substitution Event to holders by posting such details at [www.rbcnotes.com](http://www.rbcnotes.com).

“**Substitution Date**” means the Exchange Day on which the Calculation Agent determines that a Substitution Event has occurred, provided that the Substitution Date may be a later date if any event or circumstance impedes the making of any necessary changes to the Portfolio.

See “Description of the Equity, Unit and Debt Linked Securities – Adjustments upon the occurrence of a Substitution Event” in the product supplement.

**Summary of Fees and Expenses: Commission and Agency Fees Payable to the Dealers**

A commission of 2.00% of the Principal Amount of Debt Securities issued under this offering will be paid to the Dealers for further payment to representatives, including representatives employed by the Dealers, whose clients purchase the Debt Securities. An agency fee will be paid to Laurentian Bank Securities Inc. out of the upfront portion of the Note Program Amount referred to below in an amount up to 0.15% of the Principal Amount of the Debt Securities issued under this offering for acting as independent agent. The NAV per Debt Security on the Issue Date will indirectly reflect the payment of the 2.00% commission referred to above, and the satisfaction of the upfront portion of the Note Program Amount (including the agency fee up to 0.15%). The selling commissions and the upfront portion of the Note Program Amount (including the agency fee up to 0.15%) will be indirectly borne by holders of the Debt Securities. There are no fees directly payable by a holder of Debt Securities.

**Note Program Amount**

As an allowance for the management of the Debt Securities, the Bank will be entitled to and will retain an upfront note program amount of 0.15% of the Principal Amount of the Debt Securities issued under this offering. An agency fee will be paid out of the upfront portion of the Note Program Amount to Laurentian Bank Securities Inc. in an amount up to 0.15% of the Principal Amount of the Debt Securities issued under this offering for acting as independent agent. The NAV per Debt Security on the Issue Date will indirectly reflect the satisfaction of the commission and the 0.15% upfront portion of the Note Program Amount. In addition, as an allowance for the ongoing management of the Debt Securities, the Bank will be entitled to an ongoing annual amount of 1.65% of the Value of the Portfolio. The upfront amount and the ongoing annual amount are referred to as the “**Note Program Amount**”. The ongoing annual component of the Note Program Amount will be calculated daily and satisfied quarterly in arrears, therefore reducing the NAV per Debt Security, the Variable Return and the Redemption Amount.

The Note Program Amount is an amount retained by the Bank to compensate it for creating and issuing the Debt Securities, maintaining the Strategy and the Portfolio, allowing for profit (which may or may not be realized) and costs relating to the Debt Securities (which may or may not include any costs of hedging its obligations thereunder).

The upfront portion of the Note Program Amount and the selling commissions result in the initial estimated value of the Debt Securities on the Issue Date being less than their public offering price.

**Service Fees**

The Bank will pay, from the Note Program Amount, a service fee or trailing commission equal to 1.00% per annum of the Value of the Portfolio to sales representatives of qualified selling members in respect of Debt Securities held by their clients. The service fee will begin accruing on the first anniversary of the Issue Date and will be satisfied quarterly in arrears thereafter.

## **General**

The entitlement of the Bank to the ongoing annual portion of the Note Program Amount will accrue daily and be satisfied quarterly in arrears by reducing the Number of Underlying Securities notionally included in the Portfolio and therefore reducing the Value of the Portfolio. The Number of Underlying Securities initially notionally purchased will take into account the 2.00% Dealer commission and the 0.15% upfront portion of the Note Program Amount (including the agency fee of up to 0.15%). The Bank will not receive any other amount or seek reimbursement of any other expense. All other expenses of the offering (other than the selling commission and the Note Program Amount, including the agency fee, described above) will be borne by the Bank.

## **Dollar Value of Fees**

Assuming that an investor purchases Debt Securities with an aggregate Principal Amount of \$100, the Value of the Portfolio increases at a constant rate of 5% *per annum* and no Extraordinary Event occurs during the term of the Debt Securities, the selling commissions and the Note Program Amount will reduce the return that otherwise would have been earned by an investor by a cumulative total of \$1.64 after one year, \$5.09 after three years, \$8.78 after five years and \$45.20 as of the Maturity Date (approximately twenty years). All dollar amounts are rounded to the nearest whole cent. In this scenario, the payment at maturity would be \$189.63 (equivalent to an annually compounded rate of return of 3.292%).

The above-noted dollar values and the Value of the Portfolio are used for illustration purposes only. These calculations and the assumption of the Value of the Portfolio's growth rate are not estimates or forecasts of the Value of the Portfolio, and therefore the ongoing annual component of the Note Program Amount on an annual basis, respectively. The actual performance of the Debt Securities and, consequently, the expenses indirectly borne by investors, may vary.

In order for the payment at maturity to exceed the Principal Amount of the Debt Securities, the return generated by the Portfolio from the Issue Date to the Maturity Date will have to exceed the applicable selling commissions and Note Program Amount. An early trading charge may also apply. See "Secondary Market" below.

### **Eligibility for Investment:**

Eligible for RRSPs, RRIFs, RESPs, RDSPs, DPSPs and TFSAs. See "Eligibility for Investment" in Appendix B, including the summary of the "prohibited investment" rule.

### **Risk Factors:**

You should carefully consider all the information set out in this prospectus for any Debt Securities in which you are considering investing. In particular, you should evaluate the risks described under "Risk Factors" in each of the base shelf prospectus and the product supplement, as well as the risks described below. The return on the Debt Securities is unknown and subject to many variables, including interest rate fluctuations and changes in the Value of the Portfolio. You should independently determine, with your own advisors, whether an investment in the Debt Securities is suitable for you having regard to your own investment objectives and expectations.

### *Lack of Diversification*

The constituents in the Portfolio are all Canadian chartered bank stocks and are therefore all concentrated in one industry sector. This means that the performance of the Debt Securities will be tied entirely to the success of this one industry sector. Canadian chartered banks are subject to risks that are specific to that industry sector and which may therefore result in the performance of the Debt Securities being substantially different, and potentially substantially worse, than other industry sectors or the securities/equity markets generally.

### *Uncertain Return Until Maturity*

The return, if any, on the Debt Securities will be uncertain until maturity. Whether there is a return on the Debt Securities will depend on the performance of the Portfolio relative to the Outstanding Principal Amount. There can be no assurance that the Debt Securities will generate a positive return or that the objectives of the Debt Securities will be achieved. Depending on the performance of the Portfolio and the amount, if any, of the Partial Principal Repayments, holders may not be repaid the amount they invested in the Debt Securities (other than \$1.00 per Debt Security). Historical price levels of the Underlying Securities should not be considered as an indication of the future performance of the Underlying Securities in the Portfolio. Investors should understand that the risk involved in this type of investment is greater than that normally associated with other types of investments.

### *Partial Principal Repayments are Uncertain*

The amount of the Partial Principal Repayments is uncertain. Whether Partial Principal Repayments are made will depend on the dividend or other distribution payments made by the Underlying Security Issuers. There can be no assurance that the Underlying Security Issuers will continue to pay dividends or other distributions in the future. Historical dividend or other distribution payments made by the Underlying Security Issuers should not be considered as an indication of the future dividend or other distribution payments of the Underlying Security Issuers.

### *Credit Rating*

The Debt Securities have not been and will not be rated. There can be no assurance that any rating agency would be willing to assign a rating to the Debt Securities, or that if the Debt Securities were rated, they would have the same rating as any other unsubordinated indebtedness of the Bank that is rated.

### *Tax Treatment Different from Investing in Underlying Securities*

Prospective investors should note that the tax treatment resulting from exposure to the Portfolio through an investment in the Debt Securities is different than, and may be either advantageous or disadvantageous relative to, the tax treatment resulting from exposure to the Portfolio through a direct holding of the Underlying Securities in the Portfolio. Accordingly, investors should discuss with their investment and tax advisors the advantages and disadvantages in their particular circumstances of holding the Debt Securities as compared to holding the Underlying Securities. In particular, a prospective investor in the Debt Securities should note that:

- If the Underlying Securities in the Portfolio were held by an investor directly, the investor would receive taxable dividends or other distributions. If the investor

obtains exposure to the Underlying Securities in the Portfolio through an investment in the Debt Securities, the investor will receive quarterly Partial Principal Repayments equal to the amount of the dividends or other distributions (other than Extraordinary Distributions) paid on the Underlying Securities notionally included in the Portfolio, and Extraordinary Distributions will be notionally reinvested, which amounts should not be included in the investor's income when received by the investor or reinvested, as the case may be (but which would have the effect of increasing the Variable Return which would be realized on maturity of the Debt Securities).

- If the Underlying Securities in the Portfolio were held by an investor directly as capital property, any gain on a disposition of the Underlying Securities by the investor would ordinarily be taxed as a capital gain. If the investor obtains exposure to the Portfolio through an investment in the Debt Securities, any gain on the disposition of the Debt Securities will be taxed as ordinary income, including any gain resulting from the reduction in the Principal Amount as a consequence of prior Partial Principal Repayments.

#### *Investing in the Debt Securities is Different than Investing Directly in the Underlying Securities*

If an investor were to purchase the Underlying Securities directly in accordance with the Strategy, the investor may earn a different return than it would if it invested in the Debt Securities. In particular, the Note Program Amount and any applicable selling commissions would not apply to such direct investments. However, an investor purchasing the Underlying Securities directly would likely incur transaction fees (such as commissions). In addition, the Strategy involves a quarterly rebalancing of the Portfolio. An investor that wishes to replicate the Strategy by investing directly in the Underlying Securities would be required to purchase and sell Underlying Securities from time to time in accordance with the Strategy in the secondary market in order to replicate the Strategy.

Generally, the Debt Securities may only be purchased and sold through dealers and other firms that facilitate purchase and related settlement using the Fundserv network. However, there is no assurance that a secondary market for the Debt Securities will develop or be sustained. See "Secondary Market". In contrast, the Underlying Securities are traded on an Exchange (defined in the product supplement) and, as such, may be more liquid than the Debt Securities.

Holders of the Debt Securities do not have an ownership interest or other interest in the assets in the Portfolio. See "Underlying Securities".

In addition, the tax implications associated with holding the Debt Securities as compared to holding the Underlying Securities directly would be different. See "— Tax Treatment Different from Investing in Underlying Securities" above.

#### *The Initial Estimated Value of the Debt Securities Is Less than the Price to the Public and May not Reflect the Secondary Market Price, if any, of the Debt Securities*

The initial estimated value set forth on the cover page of this pricing supplement does not take into account the ongoing annual component of the Note Program Amount, and does not represent a minimum price at which the Bank, RBC DS or any of our affiliates would be willing to purchase the Debt Securities in any secondary market (if any exists) at any time. If you attempt to sell the Debt Securities prior to maturity, their market value may be lower than the initial estimated value and price you paid for them. This is due to, among other things, changes in the prices of the Underlying Securities, the selling commissions and the Note Program Amount. These factors, together with various market and economic factors over the term of the Debt



Securities, could reduce the price at which you may be able to sell the Debt Securities in any secondary market and will affect the value of the Debt Securities in complex and unpredictable ways. Even if there is no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Debt Securities prior to maturity may be less than your original purchase price. The Debt Securities are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Debt Securities to maturity.

**Preparation of Initial Estimated Value:**

The initial estimated value of the Debt Securities was calculated by deducting the upfront portion of the Note Program Amount and the selling commissions payable to the Dealers from the Principal Amount. The initial estimated value of the Debt Securities does not take into account the ongoing annual component of the Note Program Amount. The difference between the Principal Amount and the sum of the upfront portion of the Note Program Amount and the selling commissions payable to the Dealers will be notionally invested in the Portfolio on the Initial Valuation Date. See “Underlying Securities” above. The Note Program Amount is an amount retained by the Bank to compensate it for creating and issuing the Debt Securities, maintaining the Strategy and the Portfolio, allowing for profit (which may or may not be realized) and costs relating to the Debt Securities (which may or may not include any costs of hedging its obligations thereunder). The deduction of the upfront portion of the Note Program Amount and the selling commissions from the Principal Amount results in the initial estimated value of the Debt Securities on the Issue Date being less than their public offering price. See “Risk Factors – The Initial Estimated Value of the Debt Securities Is Less than the Price to the Public and May not Reflect the Secondary Market Price, if any, of the Debt Securities” above.

The Bank has adopted written policies and procedures for determining the fair value of Debt Securities issued by it pursuant to the Senior Note Program. These policies and procedures include: (a) methodologies used for valuing each type of component embedded in such Debt Securities; (b) the methods by which the Bank will review and test valuations to assess the quality of the prices obtained as well as the general functioning of the valuation process; and (c) how to deal with conflicts of interest.

**Suitability for Investment:**

You should consult with your advisors regarding the suitability of an investment in the Debt Securities. The Debt Securities may be suitable for:

- investors seeking an investment product with exposure to a notional portfolio of Canadian chartered bank stocks, the weightings of which fluctuate depending on the Indicated Annual Dividend Yields of those bank stocks
- investors who are willing and can afford to risk substantially all of the principal amount of their investment
- investors with an investment horizon equal to the term to maturity of the Debt Securities who are prepared to hold the Debt Securities until maturity
- investors seeking the possibility of receiving all or part of their capital over the term of the Debt Securities as a return of capital

**Book-entry Only Securities:**

The Debt Securities will be Fundserv Securities (defined in the program supplement) and will be issued through the “book-entry-only system”. See “Description of the Securities – Global Securities” and “– Legal Ownership” in the program supplement.

If the Debt Securities are issued in fully registered and certificated form in the circumstances described in the program supplement under “Description of the Securities – Legal Ownership – Book-Entry-Only Fundserv Securities”, any Partial Principal Repayments will be paid by the Bank to the registered holder.

**Listing:** The Debt Securities will not be listed on any stock exchange. See “Risk Factors” in the product supplement.

**Secondary Market:** Debt Securities may be purchased through dealers and other firms that facilitate purchase and related settlement using the Fundserv network. Debt Securities may be resold using the Fundserv network at a sale price equal to the closing price posted on Fundserv as of the close of business on the Exchange Day on which the order is placed, as determined by and posted to Fundserv by the Calculation Agent, which sale price may be lower than the Principal Amount of such Debt Securities, less an early trading charge as specified below. See “Risk Factors – The Initial Estimated Value of the Debt Securities Is Less than the Price to the Public and May not Reflect the Secondary Market Price, if any, of the Debt Securities” above.

Information regarding the Portfolio and the daily closing price for the Debt Securities may be accessed at [www.rbcnotes.com](http://www.rbcnotes.com). There is no assurance that a secondary market for the Debt Securities will develop or be sustained. See “Secondary Market for Securities” in the program supplement.

If a Debt Security is sold within the first 720 days from the Issue Date, the proceeds from the sale of the Debt Securities will be reduced by an early trading charge (“**Early Trading Charge**”) equal to a percentage of the Principal Amount determined as set out below.

If Sold Within the Following No. of Days from Issue Date	Early Trading Charge (% of Principal Amount)
1 - 180 days	4.30%
181 - 270 days	3.30%
271 - 360 days	2.55%
361 - 450 days	1.80%
451 - 540 days	1.20%
541 - 630 days	0.80%
631 - 720 days	0.40%
Thereafter	Nil

**Fiscal Agent:** RBC DS. See “Description of the Securities – Fiscal Agency, Calculation Agency and Fundserv Depository Agreement” in the program supplement.

**Calculation Agent:** RBC DS. See “Description of the Securities – Calculation Agent” in the program supplement and “Risk Factors” in the product supplement. In generating rankings of stocks and maintaining the Portfolio and the Strategy, the Calculation Agent may rely solely on the data provided and calculations and determinations made by a third party provider (the “**Platform Provider**”). The Calculation Agent will, at its sole discretion but acting in good faith, choose a Platform Provider, which must be a well-recognized, reputable service provider in the applicable markets in respect of which such data, calculation and determinations are required to be made. The stocks eligible for inclusion in the Portfolio may be limited to the stock universe maintained by a Platform Provider. Such stock universe will be subject to the criteria and methodology used by the Platform Provider to determine the constituents of that stock universe, which may change from time to time.

**Tax:**

An initial purchaser of Debt Securities who acquires Debt Securities from the Bank on the Issue Date and who, at all relevant times, for purposes of the *Income Tax Act* (Canada), is an individual (other than a trust), is a resident of Canada, deals at arm's length with and is not affiliated with the Bank, and acquires and holds the Debt Securities as capital property until maturity is herein referred to as a "**Resident Holder**". Any Partial Principal Repayments received in respect of the Debt Securities should not be included in the Resident Holder's income when received, but rather should reduce the Resident Holder's adjusted cost base of the Debt Securities. However, a Resident Holder will be required to include in income, on a transfer of a Debt Security, the excess, if any, of the price for which it was so transferred by the Resident Holder over its outstanding principal amount at the time of the transfer. Furthermore, a Resident Holder will be required to include in computing income for the taxation year in which the Maturity Date (or earlier repayment in full) occurs the amount, if any, by which the amount payable at maturity (or earlier repayment in full) exceeds the Outstanding Principal Amount of the Debt Securities, except to the extent that such amount has been previously included in the income of the Resident Holder. If the Resident Holder receives an amount less than the adjusted cost base of the Debt Securities, the Resident Holder will realize a capital loss equal to the shortfall. See "Certain Canadian Tax Considerations" in Appendix B. **Potential purchasers of Debt Securities should consult with their own tax advisors having regard to their particular circumstances.**

The tax treatment resulting from exposure to the Portfolio through an investment in the Debt Securities is different than, and may be either advantageous or disadvantageous relative to, the tax treatment resulting from exposure to the Portfolio through a direct holding of the Underlying Securities in the Portfolio. See "Risk Factors".

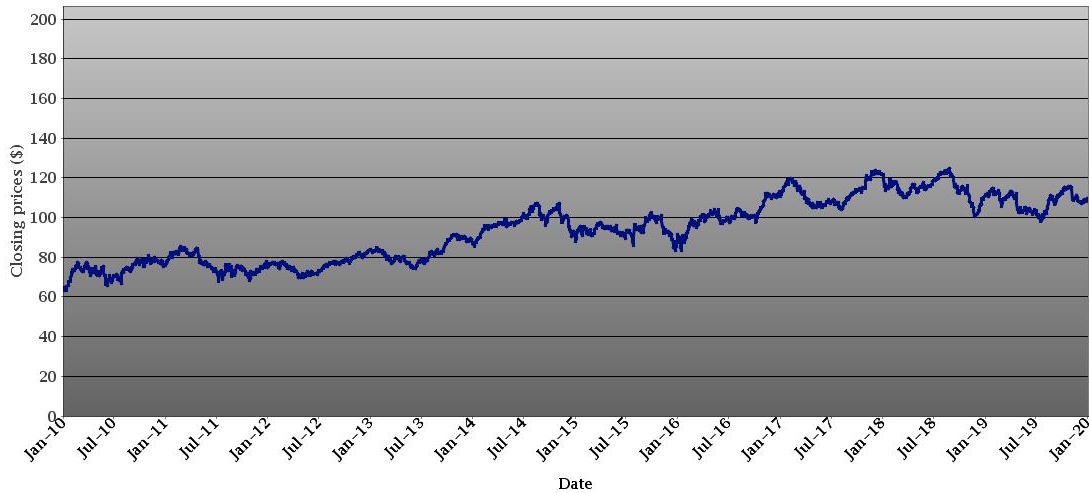
**APPENDIX A**

**Certain Information Concerning the Market Price for the Common Shares of each of the Underlying Security Issuers on the Toronto Stock Exchange**

**Canadian Imperial Bank of Commerce**

Canadian Imperial Bank of Commerce provides banking and financial services to consumers, individuals, and corporate clients in Canada and around the world. Canadian Imperial Bank of Commerce’s common shares are listed on the TSX under the symbol “CM”. The Indicated Annual Dividend Yield as of January 31, 2020 was 5.34%. The average historical Indicated Annual Dividend Yield of Canadian Imperial Bank of Commerce for the period beginning on December 31, 2009 and ending on December 31, 2019 was 4.58%. The chart below sets out the Closing Price for Canadian Imperial Bank of Commerce for the period beginning on January 29, 2010 and ending on January 31, 2020.

**Canadian Imperial Bank of Commerce**  
10 Year Historical Price Performance

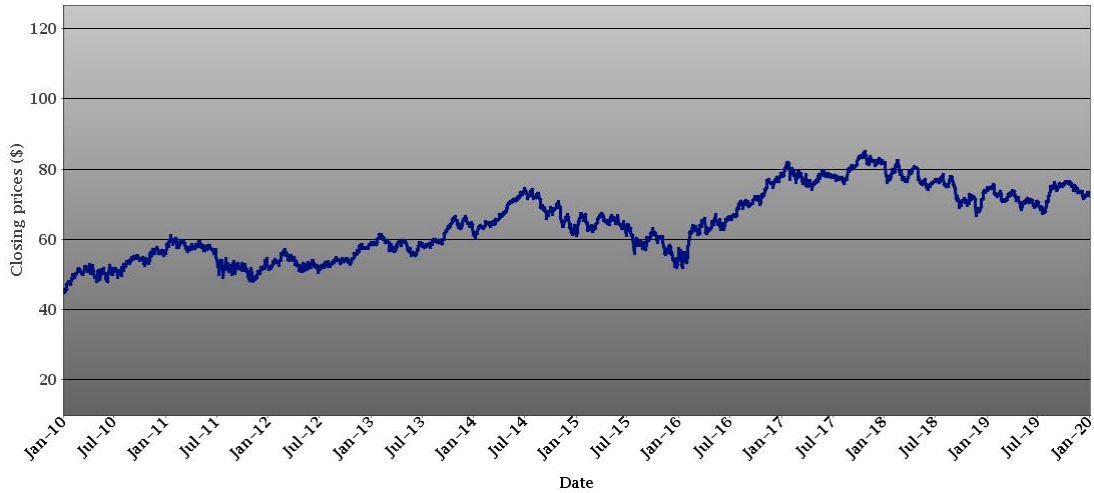


Source: Bloomberg L.P.

## The Bank of Nova Scotia

The Bank of Nova Scotia provides retail, commercial, international, corporate, investment and private banking services and products. The Bank of Nova Scotia's common shares are listed on the TSX under the symbol "BNS". The Indicated Annual Dividend Yield as of January 31, 2020 was 4.98%. The average historical Indicated Annual Dividend Yield of The Bank of Nova Scotia for the period beginning on December 31, 2009 and ending on December 31, 2019 was 4.03%. The chart below sets out the Closing Price for The Bank of Nova Scotia for the period beginning on January 29, 2010 and ending on January 31, 2020.

**The Bank of Nova Scotia**  
10 Year Historical Price Performance

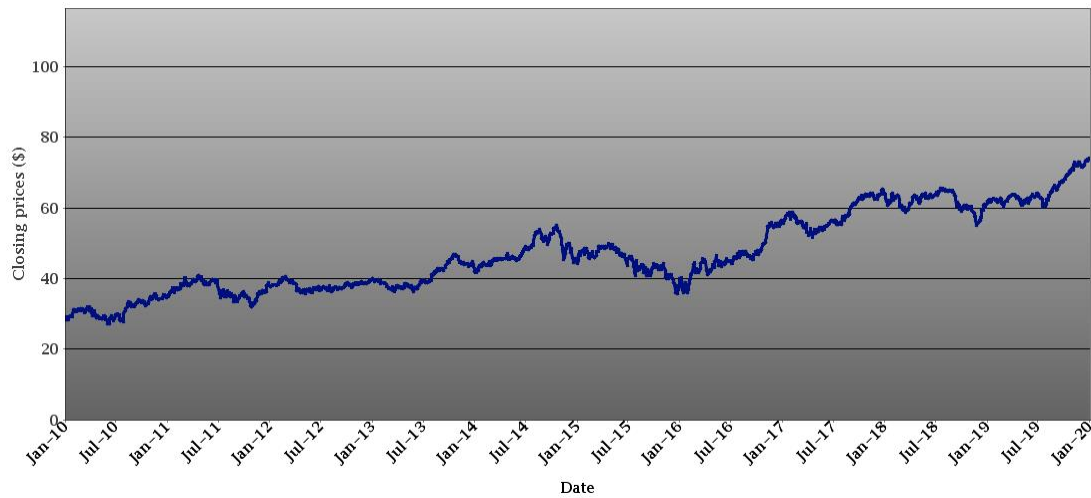


Source: Bloomberg L.P.

## National Bank of Canada

National Bank of Canada provides a full array of banking services, including retail, corporate and investment banking. National Bank of Canada, through its subsidiaries, is involved in securities brokerage, insurance and wealth management, as well as mutual fund and retirement plan management. National Bank of Canada's common shares are listed on the TSX under the symbol "NA". The Indicated Annual Dividend Yield as of January 31, 2020 was 3.87%. The average historical Indicated Annual Dividend Yield of National Bank of Canada for the period beginning on December 31, 2009 and ending on December 31, 2019 was 4.05%. The chart below sets out the Closing Price for National Bank of Canada for the period beginning on January 29, 2010 and ending on January 31, 2020.

**National Bank of Canada**  
10 Year Historical Price Performance

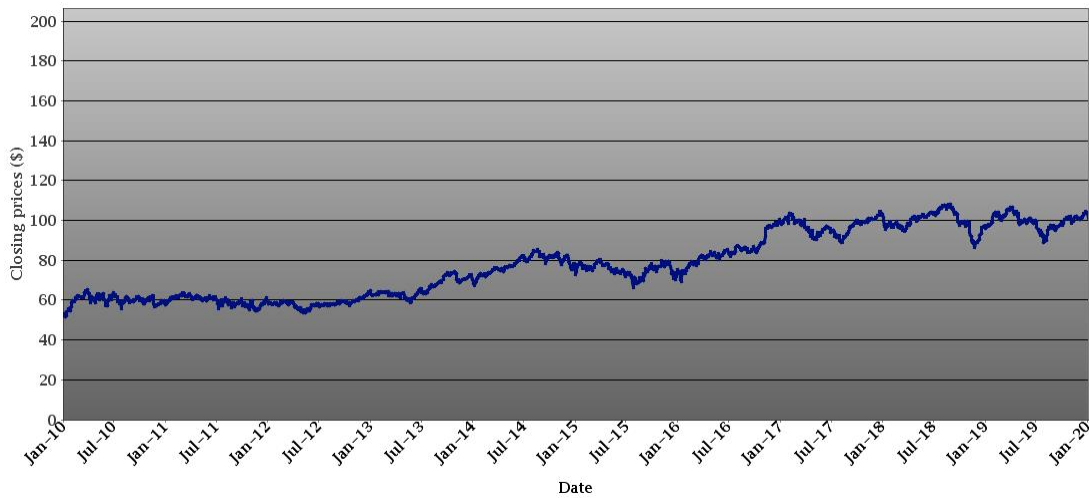


Source: Bloomberg L.P.

## Bank of Montreal

Bank of Montreal, doing business as BMO Financial Group, is a Canadian chartered bank which operates throughout the world. Bank of Montreal offers commercial, corporate, governmental, international, personal banking, and trust services. Bank of Montreal also offers full brokerage, underwriting, investment, and advisory services. Bank of Montreal's common shares are listed on the TSX under the symbol "BMO". The Indicated Annual Dividend Yield as of January 31, 2020 was 4.20%. The average historical Indicated Annual Dividend Yield of Bank of Montreal for the period beginning on December 31, 2009 and ending on December 31, 2019 was 4.21%. The chart below sets out the Closing Price for Bank of Montreal for the period beginning on January 29, 2010 and ending on January 31, 2020.

**Bank of Montreal**  
10 Year Historical Price Performance

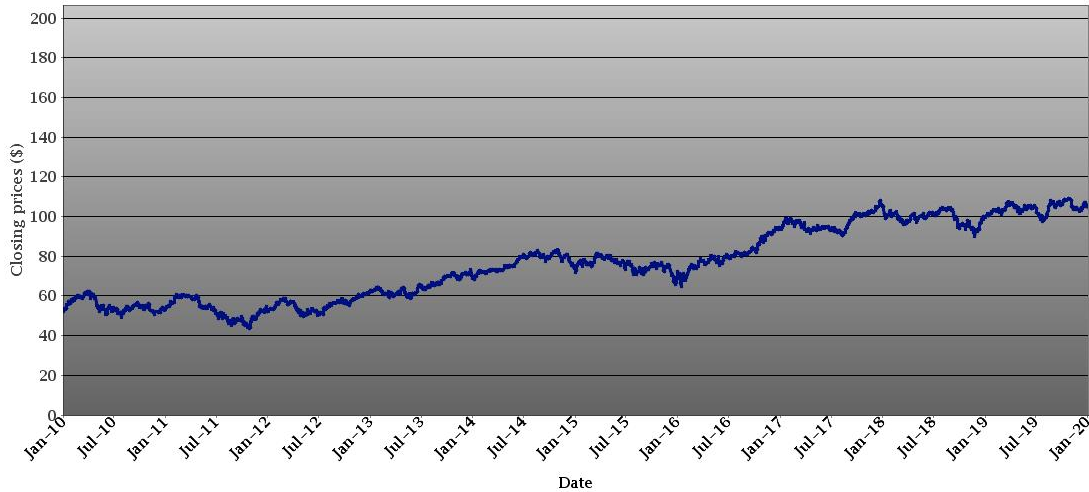


Source: Bloomberg L.P.

## Royal Bank of Canada

Royal Bank of Canada is a diversified financial services company. Royal Bank of Canada provides personal and commercial banking, wealth management services, insurance, corporate and investment banking, and transaction processing services. Royal Bank of Canada offers its services to personal, business, public sector and institutional clients with operations worldwide. Royal Bank of Canada's common shares are listed on the TSX under the symbol "RY". The Indicated Annual Dividend Yield as of January 31, 2020 was 4.02%. The average historical Indicated Annual Dividend Yield of Royal Bank of Canada for the period beginning on December 31, 2009 and ending on December 31, 2019 was 3.78%. The chart below sets out the Closing Price for Royal Bank of Canada for the period beginning on January 29, 2010 and ending on January 31, 2020.

**Royal Bank of Canada**  
10 Year Historical Price Performance



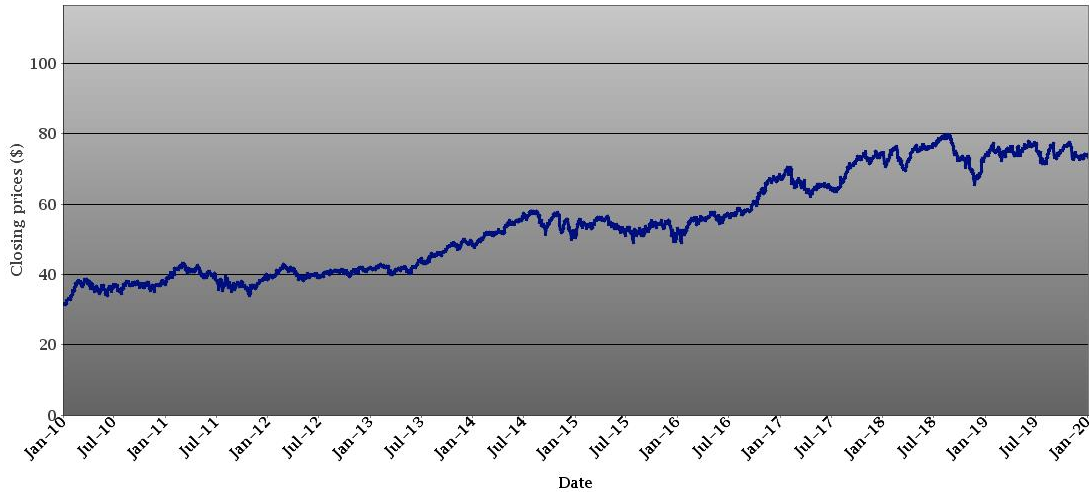
Source: Bloomberg L.P.



## The Toronto-Dominion Bank

The Toronto-Dominion Bank conducts a general banking business through banking branches and offices located throughout Canada and overseas. The Toronto-Dominion Bank and other subsidiaries offer a broad range of banking, advisory services, and discount brokerage to individuals, businesses, financial institutions, governments, and multinational corporations. The Toronto-Dominion Bank's common shares are listed on the TSX under the symbol "TD". The Indicated Annual Dividend Yield as of January 31, 2020 was 4.05%. The average historical Indicated Annual Dividend Yield of The Toronto-Dominion Bank for the period beginning on December 31, 2009 and ending on December 31, 2019 was 3.45%. The chart below sets out the Closing Price for The Toronto-Dominion Bank for the period beginning on January 29, 2010 and ending on January 31, 2020.

**The Toronto-Dominion Bank**  
10 Year Historical Price Performance



Source: Bloomberg L.P.

**APPENDIX B**  
**Certain Canadian Tax Considerations**

In the opinion of the Bank's counsel, Davies Ward Phillips & Vineberg LLP, the following summary fairly describes the principal Canadian federal income tax considerations under the *Income Tax Act* (Canada) (the "**Tax Act**") generally applicable to an initial purchaser of Debt Securities under this pricing supplement who, at all relevant times, for purposes of the Tax Act, deals at arm's length with and is not affiliated with the Bank, and acquires and holds the Debt Securities as capital property (a "**Holder**").

This summary is based upon the current provisions of the Tax Act and the regulations thereunder (the "**Regulations**"), all specific proposals to amend the Tax Act or such Regulations publicly announced by the federal Minister of Finance prior to the date hereof (the "**Proposals**") and counsel's understanding of the current administrative policies and practices of the Canada Revenue Agency ("**CRA**"). Except for the Proposals, this summary does not take into account or anticipate any changes (including retroactive changes) in the law or the administrative policies or practices of the CRA, whether by judicial, regulatory, governmental or legislative action, nor does it take into account tax laws of any province or territory of Canada, or of any jurisdiction outside Canada. Provisions of provincial income tax legislation vary from province to province in Canada and may differ from federal income tax legislation. No assurance can be given that the Proposals will be implemented in their current form, or at all. This summary assumes that the Holder will neither undertake nor arrange a transaction in respect of the Debt Securities primarily for the purpose of obtaining a tax benefit, has not entered into a "derivative forward agreement" (as defined in the Tax Act) in respect of the Debt Securities and that the Debt Securities are not issued at a discount.

**This summary is of a general nature only and is not intended to constitute, nor should it be relied upon or construed as, tax advice to any particular Holder, nor is it exhaustive of all possible Canadian federal income tax considerations. Holders should consult their own tax advisors as to the potential consequences to them of the acquisition, ownership and disposition of Debt Securities having regard to their particular circumstances.**

The tax treatment resulting from exposure to the Portfolio through an investment in the Debt Securities is different than, and may be either advantageous or disadvantageous relative to, the tax treatment resulting from exposure to the Portfolio through a direct holding of the Underlying Securities in the Portfolio. See "Risk Factors".

#### **Holders Resident in Canada**

The following discussion applies to a Holder who, at all relevant times, for the purposes of the Tax Act and any applicable income tax treaty or convention, is an individual (other than a trust) resident in Canada (a "**Resident Holder**"). Certain Resident Holders who might not otherwise be considered to hold their Debt Securities as capital property may, in certain circumstances, have their Debt Securities, and all other "Canadian securities" (as defined in the Tax Act) owned by such Resident Holders in the taxation year and all subsequent taxation years, treated as capital property as a result of having made the irrevocable election permitted by subsection 39(4) of the Tax Act.

#### *Partial Principal Repayments*

Any Partial Principal Repayments received in respect of the Debt Securities should not be included in the Resident Holder's income when received, but rather should reduce the Resident Holder's adjusted cost base of the Debt Securities.

#### *Holding Debt Securities*

In certain circumstances, provisions of the Tax Act require a holder of a "prescribed debt obligation" (as defined for the purposes of the Tax Act) to include in income for each taxation year the amount of any interest, bonus or premium receivable on the obligation over its term based on the maximum amount of interest, bonus or premium receivable on the obligation. While the Debt Securities will generally be considered to be prescribed debt obligations to a Resident Holder, based on counsel's understanding of the CRA's current administrative practice there should be no deemed accrual of interest on the Debt Securities prior to the Maturity Date (or, if applicable, the date of their earlier repayment in full), except as described below under "Disposition of Debt Securities" where a Debt Security is transferred before such date.

### *Payment at Maturity or Earlier Repayment in Full*

A Resident Holder who holds the Debt Securities until maturity (or earlier repayment in full by the Bank) will be required to include in computing the Resident Holder's income, for the taxation year in which the Maturity Date (or repayment in full) occurs, the amount, if any, by which the amount payable at maturity (or repayment in full) exceeds the Outstanding Principal Amount of the Debt Securities at that time. Alternatively, the Resident Holder will realize a capital loss to the extent that the amount received at maturity (or repayment in full) is less than the Resident Holder's adjusted cost base of such Debt Securities (which generally should be equal to the cost of the Debt Securities to the Resident Holder less the total amount of the Partial Principal Repayments previously received by the Resident Holder). The income tax considerations associated with the realization of a capital loss are described below.

### *Disposition of Debt Securities*

Changes in the Underlying Securities comprising the Portfolio will not result in the disposition of a Debt Security by a Resident Holder.

Where a Resident Holder disposes of a Debt Security (other than to the Bank on the Maturity Date or earlier repayment in full), the Tax Act requires the amount of interest, if any, accrued on the Debt Security that is unpaid at that time to be included in computing the income of the Resident Holder for the taxation year in which the disposition occurs (except to the extent such amount has otherwise been included in computing the income of the Resident Holder for that year or a preceding year) and excludes such amount from the proceeds of disposition. On an assignment or other transfer of a Debt Security by a Resident Holder (other than to the Bank on the Maturity Date or earlier repayment in full), a formula amount will be deemed to have accrued on the Debt Security up to the time of the transfer, so that such amount will be required to be included in the income of the Resident Holder for the taxation year of the Resident Holder in which the transfer occurs. Such formula amount equals the excess, if any, of the price for which it is so transferred over its outstanding principal amount at the time of the transfer.

The Resident Holder should realize a capital loss to the extent that the proceeds of disposition, net of amounts included in income as interest (including any formula amount as described above) and any reasonable costs of disposition, are less than the Resident Holder's adjusted cost base of the Debt Securities (which generally should be equal to the cost of the Debt Securities to the Resident Holder less the total amount of the Partial Principal Repayments previously received by the Resident Holder). As described above, any gain realized from the disposition of Debt Securities will be included in income and will not give rise to a capital gain. Resident Holders who dispose of Debt Securities prior to the Maturity Date (or earlier repayment in full) should consult their own tax advisors with respect to their particular circumstances.

### *Treatment of Capital Losses*

One-half of any capital loss realized by a Resident Holder will constitute an allowable capital loss that is deductible against taxable capital gains of the Resident Holder, subject to and in accordance with the provisions of the Tax Act.

### **Holders Not Resident in Canada**

The following discussion applies to a Holder who, at all relevant times, for the purposes of the Tax Act is not resident and is not deemed to be resident in Canada, deals at arm's length with any Canadian resident (or deemed Canadian resident) to whom the Holder disposes of the Debt Securities, is neither a "specified shareholder" of the Bank nor a person who does not deal at arm's length with a specified shareholder of the Bank for purposes of the "thin capitalization" rule contained in subsection 18(4) of the Tax Act, does not use or hold and is not deemed to use or hold the Debt Securities in the course of carrying on a business in Canada, and is not an insurer carrying on an insurance business in Canada and elsewhere (a "**Non-Resident Holder**").

Interest paid or credited or deemed to be paid or credited on the Debt Securities to a Non-Resident Holder (including any amount paid on their maturity or early repayment in full in excess of the Outstanding Principal Amount of the Debt Securities at that time and any interest deemed to be paid in certain cases involving the assignment or other transfer of a Debt Security to a resident or deemed resident of Canada likely including any excess of the price for which it is transferred to such a resident over its outstanding principal amount at the time of the transfer) generally will be subject to Canadian non-resident withholding tax. Under the Tax Act, such Canadian withholding tax is imposed at the rate of 25% of the gross amount of such interest. This withholding tax may be reduced pursuant to the terms of an applicable income tax treaty or convention between Canada and the country of residence of the Non-Resident Holder.

### **Eligibility for Investment**

The Debt Securities, if issued on the date of this pricing supplement, would be qualified investments (for purposes of the Tax Act) for trusts governed by registered retirement savings plans (“**RRSPs**”), registered retirement income funds (“**RRIFs**”), tax-free savings accounts (“**TFSA**s”), registered disability savings plans (“**RDSPs**”), registered education savings plans (“**RESPs**”) and deferred profit sharing plans (“**DPSPs**”), each within the meaning of the Tax Act (other than a DPSP to which payments are made by the Bank or a corporation or partnership with which the Bank does not deal at arm’s length within the meaning of the Tax Act).

Notwithstanding the foregoing, if Debt Securities are “prohibited investments” (as that term is defined in the Tax Act) for an RRSP, RRIF, TFSA, RDSP or RESP, the annuitant of the RRSP or RRIF, the holder of the TFSA or RDSP, or the subscriber of the RESP, as the case may be (each a “**Plan Holder**”), will be subject to a penalty tax as set out in the Tax Act. Debt Securities will be “prohibited investments” for an RRSP, RRIF, TFSA, RDSP or RESP of a Plan Holder who has a “significant interest” (as defined in the Tax Act for purposes of the prohibited investment rules) in the Bank or who does not deal at arm’s length, within the meaning of the Tax Act, with the Bank.

## APPENDIX C

### Certain Information Concerning the Underlying Security Issuers as of the Most Recent Quarterly Rebalancing Date Prior to the Date of this Pricing Supplement

Company	Symbol	Dividend Yield	Portfolio Weight	Yield Contribution as of the Most Recent Quarterly Rebalancing Date Prior to the Date of this Pricing Supplement
Canadian Imperial Bank of Commerce	CM	5.33%	25.000%	1.33%
The Bank of Nova Scotia	BNS	4.91%	25.000%	1.23%
Bank of Montreal	BMO	4.21%	16.667%	0.70%
Royal Bank of Canada	RY	4.09%	16.667%	0.68%
The Toronto-Dominion Bank	TD	4.06%	8.333%	0.34%
National Bank of Canada	NA	3.94%	8.333%	0.33%
<b>Total Yield Contribution</b>				<b>4.61%</b>

Information is given as of the most recent quarterly rebalancing date prior to the date of this pricing supplement.

Source: RBC Capital Markets Quantitative Research