

**\$955,712,135**  
**Government National Mortgage Association**

**GINNIE MAE®**

**Guaranteed REMIC Pass-Through Securities  
and MX Securities**

**Ginnie Mae REMIC Trust 2024-109**

**The Securities**

The Trust will issue the Classes of Securities listed on the front cover of this offering circular supplement.

**The Ginnie Mae Guaranty**

Ginnie Mae will guarantee the timely payment of principal and interest on the securities. The Ginnie Mae Guaranty is backed by the full faith and credit of the United States of America.

**The Trust and its Assets**

The Trust will own Ginnie Mae Certificates.

**The securities may not be suitable investments for you. You should consider carefully the risks of investing in them.**

**See “Risk Factors” beginning on page S-9 which highlights some of these risks.**

The Sponsor and the Co-Sponsor will offer the securities from time to time in negotiated transactions at varying prices. We expect the closing date to be July 30, 2024.

You should read the Base Offering Circular as well as this Supplement.

The securities are exempt from registration under the Securities Act of 1933 and are “exempt securities” under the Securities Exchange Act of 1934.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
<b>Security Group 1</b>						
FB	\$150,000,000	(5)	PT	FLT	38384QL71	July 2054
LA(1)	27,690,469	4.5%	SEQ/AD	FIX	38384QL89	May 2051
LZ(1)	2,309,531	4.5	SEQ	FIX/Z	38384QL97	July 2054
SB	150,000,000	(5)	NTL(PT)	INV/IO	38384QM21	July 2054
<b>Security Group 2</b>						
PT	58,000,000	6.0	PT	FIX	38384QM39	July 2054
<b>Security Group 3</b>						
AK	25,000,000	5.5	SEQ/AD	FIX	38384QM47	December 2050
AZ(1)	1,755,217	5.5	SEQ	FIX/Z	38384QM54	July 2054
CA(1)	114,640,549	5.5	SEQ/AD	FIX	38384QM62	September 2050
CZ(1)	8,604,234	5.5	SEQ	FIX/Z	38384QM70	July 2054
FA	150,000,000	(5)	PT	FLT	38384QM88	July 2054
SA	150,000,000	(5)	NTL(PT)	INV/IO	38384QM96	July 2054
<b>Security Group 4</b>						
FC	43,300,000	(5)	PT	FLT	38384QN20	July 2054
SC	43,300,000	(5)	NTL(PT)	INV/IO	38384QN38	July 2054
<b>Security Group 5</b>						
FD	95,000,000	(5)	PT	FLT	38384QN46	July 2054
SD	95,000,000	(5)	NTL(PT)	INV/IO	38384QN53	July 2054
<b>Security Group 6</b>						
NA	3,164,000	5.0	SUP	FIX	38384QN61	July 2054
NB	9,336,000	5.0	PAC	FIX	38384QN79	July 2054
NF	50,000,000	(5)	PT	FLT	38384QN87	July 2054
NS	50,000,000	(5)	NTL(PT)	INV/IO	38384QN95	July 2054
<b>Security Group 7</b>						
A	25,000,000	7.0	SEQ	FIX	38384QP28	March 2059
L	15,365,744	7.0	SEQ	FIX	38384QP36	July 2064
<b>Security Group 8</b>						
DA	50,000,000	4.0	SEQ/AD	FIX	38384QP44	February 2053
DZ	1,546,391	4.0	SEQ	FIX/Z	38384QP51	July 2054
<b>Security Group 9</b>						
MA	8,756,433	5.0	SUP	FIX	38384QP69	July 2054
MC(1)	32,172,135	5.0	PAC I	FIX	38384QP77	January 2054
MD	1,981,000	5.0	PAC II	FIX	38384QP85	July 2054
MI	10,384,615	6.5	NTL(PT)	FIX/IO	38384QP93	July 2054
ML(1)	2,090,432	5.0	PAC I	FIX	38384QQ27	July 2054
<b>Security Group 10</b>						
FE	80,000,000	(5)	PT	FLT	38384QQ35	July 2054
SE	80,000,000	(5)	NTL(PT)	INV/IO	38384QQ43	July 2054
<b>Residuals</b>						
R1	0	0.0	NPR	NPR	38384QQ50	July 2054
R2	0	0.0	NPR	NPR	38384QQ68	July 2054
R4	0	0.0	NPR	NPR	38384QQ76	July 2054
R5	0	0.0	NPR	NPR	38384QQ84	July 2054
R7	0	0.0	NPR	NPR	38384QQ92	July 2064
R8	0	0.0	NPR	NPR	38384QR26	July 2054
R10	0	0.0	NPR	NPR	38384QR34	July 2054
R	0	0.0	NPR	NPR	38384QR42	July 2054

- (1) These Securities may be exchanged for MX Securities described in Schedule I to this Supplement.
- (2) Subject to increase as described under “Increase in Size” in this Supplement. The amount shown for each Notional Class (indicated by “NTL” under Principal Type) is its original Class Notional Balance and does not represent principal that will be paid.
- (3) As defined under “Class Types” in Appendix I to the Base Offering Circular. The Class Notional Balance of each Notional Class will be reduced as shown under “Terms Sheet — Notional Classes” in this Supplement.
- (4) See “Yield, Maturity and Prepayment Considerations — Final Distribution Date” in this Supplement.
- (5) See “Terms Sheet — Interest Rates” in this Supplement.

## AVAILABLE INFORMATION

You should purchase the securities only if you have read and understood the following documents:

- this Offering Circular Supplement (this “Supplement”) and
- the Base Offering Circular.

The Base Offering Circular is available on Ginnie Mae’s website located at <http://www.ginniemae.gov> (“ginniemae.gov”).

If you do not have access to the internet, call BNY Mellon, which will act as information agent for the Trust, at (800) 234-GNMA, to order copies of the Base Offering Circular.

Please consult the standard abbreviations of Class Types included in the Base Offering Circular as Appendix I and the glossary included in the Base Offering Circular as Appendix II for definitions of capitalized terms.

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## TERMS SHEET

This terms sheet contains selected information for quick reference only. You should read this Supplement, particularly “Risk Factors,” and each of the other documents listed under “Available Information.”

**Sponsor:** Citigroup Global Markets Inc.

**Co-Sponsor:** Academy Securities, Inc.

**Trustee:** U.S. Bank National Association

**Tax Administrator:** The Trustee

**Closing Date:** July 30, 2024

**Distribution Date:** The 20th day of each month or, if the 20th day is not a Business Day, the first Business Day thereafter, commencing in August 2024.

### Trust Assets:

<u>Trust Asset Group or Subgroup<sup>(1)</sup></u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	7.000%	30
2	Ginnie Mae II	6.000%	30
3A	Ginnie Mae II	6.500%	30
3B	Ginnie Mae II	6.500%	30
4	Ginnie Mae II	5.500%	30
5	Ginnie Mae II	7.000%	30
6	Ginnie Mae II	7.000%	30
7	Ginnie Mae II	7.000%	40
8	Ginnie Mae II	4.000%	30
9	Ginnie Mae II	6.500%	30
10	Ginnie Mae II	6.500%	30

<sup>(1)</sup>The Group 3 Trust Assets consist of the enumerated subgroups (each, a “Subgroup”).

**Security Groups:** This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Payments on each Group will be based solely on payments on the Trust Asset Group with the same numerical designation.

**Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets<sup>(1)</sup>:**

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate<sup>(2)</sup></u>
<b>Group 1 Trust Assets</b>			
\$180,000,000	349	6	7.514%
<b>Group 2 Trust Assets</b>			
\$58,000,000 <sup>(3)</sup>	349	0	6.694%
<b>Subgroup 3A Trust Assets</b>			
\$53,510,434	357	2	7.039%
<b>Subgroup 3B Trust Assets</b>			
\$246,489,566	354	3	7.020%
<b>Group 4 Trust Assets</b>			
\$43,300,000	358	1	6.074%
<b>Group 5 Trust Assets</b>			
\$95,000,000	344	14	7.430%
<b>Group 6 Trust Assets</b>			
\$62,500,000	355	2	7.550%
<b>Group 7 Trust Assets</b>			
\$40,365,744 <sup>(4)</sup>	471	6	7.426%
<b>Group 8 Trust Assets</b>			
\$51,546,391	332	27	4.596%
<b>Group 9 Trust Assets</b>			
\$45,000,000	356	0	7.154%
<b>Group 10 Trust Assets</b>			
\$80,000,000	356	1	7.071%

<sup>(1)</sup> As of July 1, 2024.

<sup>(2)</sup> The Mortgage Loans underlying the Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

<sup>(3)</sup> More than 10% of the Mortgage Loans underlying the Group 2 Trust Assets may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.

<sup>(4)</sup> The Mortgage Loans underlying the Group 7 Trust Assets are modified loans with terms greater than or equal to 361 but not more than 480 months from the pool issuance date.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans will differ from the weighted averages shown above, perhaps significantly. See “The Trust Assets — The Mortgage Loans” in this Supplement.

**Issuance of Securities:** The Securities, other than the Residual Securities, will initially be issued in book-entry form through the book-entry system of the U.S. Federal Reserve Banks (the “Fedwire Book-Entry System”). The Residual Securities will be issued in fully registered, certificated form. See “Description of the Securities — Form of Securities” in this Supplement.

**Modification and Exchange:** If you own exchangeable Securities you will be able, upon notice and payment of an exchange fee, to exchange them for a proportionate interest in the related Securities shown on Schedule I to this Supplement. See “Description of the Securities — Modification and Exchange” in this Supplement.

**Increased Minimum Denomination Classes:** Each Class that constitutes an Interest Only Class. See “Description of the Securities — Form of Securities” in this Supplement.

**Interest Rates:** The Interest Rates for the Fixed Rate Classes are shown on the front cover of this Supplement or on Schedule I to this Supplement.

The Floating Rate and Inverse Floating Rate Classes will bear interest at per annum rates based on a 30-day compounded average of the Secured Overnight Financing Rate (“SOFR”) (hereinafter referred to as “30-day Average SOFR”) as follows:

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
<b>Security Group 1</b>						
FB .....	30-day Average SOFR + 1.05%	6.36295%	1.05%	7.50%	0	0.00%
SB .....	6.45% – 30-day Average SOFR	1.13705%	0.00%	6.45%	0	6.45%
<b>Security Group 3</b>						
FA .....	30-day Average SOFR + 1.05%	6.36295%	1.05%	7.50%	0	0.00%
SA .....	6.45% – 30-day Average SOFR	1.13705%	0.00%	6.45%	0	6.45%
<b>Security Group 4</b>						
FC .....	30-day Average SOFR + 1.15%	5.50000%	1.15%	5.50%	0	0.00%
SC .....	4.35% – 30-day Average SOFR	0.00000%	0.00%	4.35%	0	4.35%
<b>Security Group 5</b>						
FD .....	30-day Average SOFR + 1.10%	6.42834%	1.10%	7.00%	0	0.00%
SD .....	5.90% – 30-day Average SOFR	0.57166%	0.00%	5.90%	0	5.90%
<b>Security Group 6</b>						
NF .....	30-day Average SOFR + 0.85%	6.18000%	0.85%	7.50%	0	0.00%
NS .....	6.65% – 30-day Average SOFR	1.32000%	0.00%	6.65%	0	6.65%
<b>Security Group 10</b>						
FE .....	30-day Average SOFR + 1.20%	6.50000%	1.20%	6.50%	0	0.00%
SE .....	5.30% – 30-day Average SOFR	0.00000%	0.00%	5.30%	0	5.30%

- (1) 30-day Average SOFR will be established as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this Supplement.
- (2) The initial Interest Rate will be in effect during the first Accrual Period; the Interest Rate will adjust monthly thereafter.

**Allocation of Principal:** On each Distribution Date for a Security Group, the following distributions will be made to the related Securities:

**SECURITY GROUP 1**

The Group 1 Principal Distribution Amount and the LZ Accrual Amount will be allocated as follows:

- The LZ Accrual Amount, sequentially, to LA and LZ, in that order, until retired

- The Group 1 Principal Distribution Amount, concurrently, as follows:
  1. 83.3333333333% to FB, until retired
  2. 16.6666666667%, sequentially, to LA and LZ, in that order, until retired

#### **SECURITY GROUP 2**

The Group 2 Principal Distribution Amount will be allocated to PT, until retired

#### **SECURITY GROUP 3**

The Subgroup 3A Principal Distribution Amount, the Subgroup 3B Principal Distribution Amount, the AZ Accrual Amount and the CZ Accrual Amount will be allocated as follows:

- The AZ Accrual Amount, sequentially, to AK and AZ, in that order, until retired
- The CZ Accrual Amount, sequentially, to CA and CZ, in that order, until retired
- The Subgroup 3A Principal Distribution Amount, concurrently, as follows:
  1. 50% to FA, until retired
  2. 50%, sequentially, to AK and AZ, in that order, until retired
- The Subgroup 3B Principal Distribution Amount, concurrently, as follows:
  1. 50% to FA, until retired
  2. 50%, sequentially, to CA and CZ, in that order, until retired

#### **SECURITY GROUP 4**

The Group 4 Principal Distribution Amount will be allocated to FC, until retired

#### **SECURITY GROUP 5**

The Group 5 Principal Distribution Amount will be allocated to FD, until retired

#### **SECURITY GROUP 6**

The Group 6 Principal Distribution Amount will be allocated, concurrently, as follows:

1. 80% to NF, until retired
2. 20% in the following order of priority:
  - a. To NB, until reduced to its Scheduled Principal Balance for that Distribution Date
  - b. To NA, until retired
  - c. To NB, without regard to its Scheduled Principal Balance, until retired

#### **SECURITY GROUP 7**

The Group 7 Principal Distribution Amount will be allocated, sequentially, to A and L, in that order, until retired

**SECURITY GROUP 8**

The Group 8 Principal Distribution Amount and the DZ Accrual Amount will be allocated, sequentially, to DA and DZ, in that order, until retired

**SECURITY GROUP 9**

The Group 9 Principal Distribution Amount will be allocated in the following order of priority:

1. Sequentially, to MC and ML, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To MD, until reduced to its Scheduled Principal Balance for that Distribution Date
3. To MA, until retired
4. To MD, without regard to its Scheduled Principal Balance, until retired
5. Sequentially, to MC and ML, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

**SECURITY GROUP 10**

The Group 10 Principal Distribution Amount will be allocated to FE, until retired

**Scheduled Principal Balances:** The Scheduled Principal Balances or Aggregate Scheduled Principal Balances for the Classes listed below are included in Schedule II to this Supplement. They were calculated using among other things the following Structuring Ranges:

<u>Security Group</u>	<u>Structuring Ranges</u>
<b>PAC Class</b>	
6 NB .....	200% PSA through 400% PSA
<b>PAC I Classes</b>	
9 MC and ML (in the aggregate) .....	150% PSA through 300% PSA
<b>PAC II Class</b>	
9 MD .....	175% PSA through 300% PSA

**Accrual Classes:** Interest will accrue on each Accrual Class identified on the front cover of this Supplement at the per annum rate set forth on that page. However, no interest will be distributed to the Accrual Classes as interest. Interest so accrued on each Accrual Class on each Distribution Date will constitute an Accrual Amount, which will be added to the Class Principal Balance of that Class on each Distribution Date and will be distributable as principal as set forth in this Terms Sheet under "Allocation of Principal."

**Notional Classes:** The Notional Classes will not receive distributions of principal but have Class Notional Balances for convenience in describing their entitlements to interest. The Class Notional Balance of each Notional Class represents the percentage indicated below of, and reduces to that extent

with, the Class Principal Balance or the outstanding principal balance of the related Trust Asset Group indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
<b>Security Group 1</b>		
SB .....	\$150,000,000	100% of FB (PT Class)
<b>Security Group 3</b>		
BI .....	\$ 17,637,007	15.3846153846% of CA (SEQ/AD Class)
SA .....	150,000,000	100% of FA (PT Class)
<b>Security Group 4</b>		
SC .....	\$ 43,300,000	100% of FC (PT Class)
<b>Security Group 5</b>		
SD .....	\$ 95,000,000	100% of FD (PT Class)
<b>Security Group 6</b>		
NS .....	\$ 50,000,000	100% of NF (PT Class)
<b>Security Group 9</b>		
MI .....	\$ 10,384,615	23.0769230769% of the Group 9 Trust Assets
<b>Security Group 10</b>		
SE .....	\$ 80,000,000	100% of FE (PT Class)

**Tax Status:**

Single REMIC Series as to each of the following Groups of Trust Assets and related Trust REMIC:

<u>Trust Assets</u>	<u>Trust REMIC</u>
Group 1 Trust Assets	Group 1 REMIC
Group 2 Trust Assets	Group 2 REMIC
Group 4 Trust Assets	Group 4 REMIC
Group 5 Trust Assets	Group 5 REMIC
Group 7 Trust Assets	Group 7 REMIC
Group 8 Trust Assets	Group 8 REMIC
Group 10 Trust Assets	Group 10 REMIC
Group 3, 6 and 9 Trust Assets	Group 3, 6 and 9 REMIC

Separate REMIC elections will be made as to each of the Trust REMICs identified above. See *“Certain United States Federal Income Tax Consequences”* in this Supplement and in the Base Offering Circular.

**Regular and Residual Classes:** Classes R, R1, R2, R4, R5, R7, R8 and R10 are Residual Classes and represent the Residual Interest of the related Trust REMIC as described under “Certain United States Federal Income Taxes — Residual Securities” in this Supplement. All other Classes of REMIC Securities are Regular Classes.



## RISK FACTORS

*You should purchase securities only if you understand and are able to bear the associated risks. The risks applicable to your investment depend on the principal and interest type of your securities. This section highlights certain of these risks.*

***The rate of principal payments on the underlying mortgage loans will affect the rate of principal payments on your securities.***

The rate at which you will receive principal payments will depend largely on the rate of principal payments, including prepayments, on the mortgage loans underlying the related trust assets. Any historical data regarding mortgage loan prepayment rates may not be indicative of the rate of future prepayments on the underlying mortgage loans, and no assurances can be given about the rates at which the underlying mortgage loans will prepay. We expect the rate of principal payments on the underlying mortgage loans to vary. Borrowers generally may prepay their mortgage loans at any time without penalty.

The terms of the mortgage loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related mortgage loan. Partial releases of security may reduce the value of the remaining security and also allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related mortgage loan in whole or in part.

In addition to voluntary prepayments, mortgage loans can be prepaid as a result of governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Although under certain circumstances Ginnie Mae issuers have the option to repurchase defaulted mortgage loans from the related pool underlying a Ginnie Mae MBS certificate, they are not obligated to do so. Defaulted mortgage loans that remain in pools backing Ginnie Mae MBS certificates may be subject to governmental mortgage insurance claim payments, loss mitigation arrangements or foreclosure, which could have the same effect as voluntary prepayments on the cash flow available to pay the securities.

A catastrophic weather event, pandemic or other natural disaster may affect the rate of principal payments, including prepayments, on the underlying mortgage loans. Any such event may damage the related mortgaged properties that secure the mortgage loans or may lead to a general economic downturn in the affected regions, including job losses and declines in real estate values. A general economic downturn may increase the rate of defaults on the mortgage loans in such areas resulting in prepayments on the related securities due to governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Insurance payments on damaged or destroyed homes may also lead to prepayments on the underlying mortgage loans. Further, in connection with presidentially declared major disasters, Ginnie Mae may authorize optional special assistance to issuers, including expanded buyout authority which allows issuers, upon receiving written approval from Ginnie Mae, to repurchase eligible loans from the related pool underlying a Ginnie Mae MBS certificate, even if such loans are not delinquent or do not otherwise meet the standard conditions for removal or repurchase.

No assurances can be given as to the timing or frequency of any governmental mortgage insurance claim payments, issuer repurchases, loss mitigation arrangements or foreclosure proceedings with respect to defaulted mortgage loans and the resulting effect on the timing or rate of principal payments on your securities.

***Rates of principal payments can reduce your yield.*** The yield on your securities probably will be lower than you expect if:

- you bought your securities at a premium (interest only securities, for example) and principal payments are faster than you expected, or
- you bought your securities at a discount and principal payments are slower than you expected.

In addition, if your securities are interest only securities or securities purchased at a significant premium, you could lose money on your investment if prepayments occur at a rapid rate.

***Under certain circumstances, a Ginnie Mae issuer has the right to repurchase a defaulted mortgage loan from the related pool of mortgage loans underlying a particular Ginnie Mae MBS certificate, the effect of which would be comparable to a prepayment of such mortgage loan.*** At its option and without Ginnie Mae's prior consent, a Ginnie Mae issuer may repurchase any mortgage loan at an amount equal to par less any amounts previously advanced by such issuer in connection with its responsibilities as servicer of such mortgage loan to the extent that (i) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or before December 1, 2002, such mortgage loan has been delinquent for four consecutive months, and at least one delinquent payment remains uncured or (ii) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or after January 1, 2003, no payment has been made on such mortgage loan for three consecutive months. Any such repurchase will result in prepayment of the principal balance or reduction in the notional balance of the securities ultimately backed by such mortgage loan. No assurances can be given as to the timing or frequency of any such repurchases.

***The levels of 30-day Average SOFR will affect the yields on the floating rate and inverse floating rate securities.*** If 30-day Average SOFR performs differently from what you expect, the yield on the floating rate and inverse floating rate securities may be lower than you expect. Lower levels of such index will generally reduce the yield on the floating rate securities; higher levels of such index will generally reduce the yield on the inverse floating rate securities. You should bear in mind that the timing of changes in the level of such index may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that such index will remain constant.

***An investment in the securities is subject to significant reinvestment risk.*** The rate of principal payments on your securities is uncertain. You may be unable to reinvest the payments on your securities at the same returns provided by the securities. Lower prevailing interest rates may result in an unexpected return of principal. In that interest rate climate, higher yielding reinvestment opportunities may be limited. Conversely, higher prevailing interest rates may result in slower returns of principal, and you may not be able to take advantage of higher yielding investment opportunities. The final payment on your security may occur much earlier than the final distribution date.

***Support securities will be more sensitive to rates of principal payments than other securities.*** If principal prepayments result in principal distributions on any distribution date equal to or less than the amount needed to produce scheduled payments on the PAC classes, the related support class will not receive any principal distribution on that date. If prepayments result in principal distributions on any distribution date greater than the amount needed to produce scheduled payments on the PAC classes for that distribution date, this excess will be distributed to the related support class.

***Up to 10% of the mortgage loans underlying the group 1 and 3 through 10 trust assets and up to 100% of the mortgage loans underlying the group 2 trust assets may be higher balance mortgage loans.*** Subject to special pooling parameters set forth in the Ginnie Mae Mortgage-Backed Securities Guide, qualifying federally-insured or guaranteed mortgage loans that exceed certain balance thresholds established by Ginnie Mae ("higher balance mortgage loans") may be included in Ginnie Mae guaranteed pools. There are no historical performance data regarding the prepayment rates for higher balance mortgage loans. If the higher balance mortgage loans prepay faster or slower than expected, the weighted average lives and yields of the related securities are likely to be affected, perhaps significantly. Furthermore, higher balance mortgage loans tend to be concentrated in certain geographic areas, which may

experience relatively higher rates of defaults in the event of adverse economic conditions. No assurances can be given about the prepayment experience or performance of the higher balance mortgage loans.

***An investment in the floating rate and inverse floating rate securities entails risks not associated with an investment in conventional fixed rate securities or securities linked to established market indices.***

The Federal Reserve Bank of New York began to publish SOFR in April 2018 and compounded averages of SOFR in March 2020. Although the Federal Reserve Bank of New York has also published historical indicative SOFR from August 2014 to March 2018, such pre-publication data necessarily involves assumptions, estimates and approximations. You should not rely on any historical changes or trends in SOFR as an indicator of future changes in SOFR. Daily shifts in SOFR have been, and may in the future be, greater than those in comparable market indices. Because the interest rate applicable to any accrual period for securities with an interest rate based on 30-day Average SOFR will be calculated by reference to the daily rates of SOFR during an approximate 30-day period commencing and ending before the related accrual period as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this supplement, the return on and value of the floating rate and inverse floating rate securities may fluctuate more than debt securities linked to less volatile indices.

30-day Average SOFR is a relatively new market index, and the floating rate and inverse floating rate securities will likely have no established trading market when issued, and an established trading market may never develop or, if developed, may not be liquid. Market terms for securities indexed to 30-day Average SOFR may evolve over time, and trading prices of some securities indexed to 30-day Average SOFR may be lower than those of later-issued securities as a result. Similarly, if 30-day Average SOFR does not prove to be widely used in similar securities, the trading price of related SOFR-Based Classes may be lower than those of securities linked to

indices that are more widely used. Investors in SOFR-Based Classes may not be able to sell their securities at all or may not be able to sell their securities at prices that will provide them with a yield comparable to similar investments that have a developed secondary market, and may consequently suffer from increased pricing volatility and market risk.

You should consult your own financial and legal advisors about the risks associated with an investment in the floating rate and inverse floating rate securities and the suitability of investing in the floating rate and inverse floating rate securities in light of your particular circumstances.

***Interest on the floating rate and inverse floating rate securities will be determined using a replacement rate if 30-day Average SOFR is no longer available, which could adversely affect the value of your investment in the floating rate and inverse floating rate securities.*** 30-day Average SOFR is published by the Federal Reserve Bank of New York based on data received from other sources, and neither Ginnie Mae nor the trustee has any control over its determination, calculation or publication. The activities of the Federal Reserve Bank of New York may directly affect prevailing 30-day Average SOFR in unpredictable ways. There can be no guarantee that 30-day Average SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of holders of securities indexed to 30-day Average SOFR. If the manner in which 30-day Average SOFR is calculated is changed or if 30-day Average SOFR is discontinued, that change or discontinuance may result in a reduction of the amount of interest payable on applicable SOFR-Based Classes and the trading prices of such Classes.

The Federal Reserve Bank of New York has noted that it may alter the methods of calculation, publication schedule, rate revision practices or availability of 30-day Average SOFR at any time without notice. There can be no assurance that 30-day Average SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of

investors in the floating rate and inverse floating rate securities.

If 30-day Average SOFR is no longer published or cannot be used, the amount of interest payable on the floating rate and inverse floating rate securities will be determined using a replacement rate, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. Ginnie Mae will have the sole discretion to make conforming changes in connection with any replacement rate without the consent of security holders or any other party, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. This could reduce the amount of interest payable on the floating rate and inverse floating rate securities, which could adversely affect the return on, value of, and market for, the floating rate and inverse floating rate securities. Furthermore, there can be no assurance that the characteristics of any replacement rate will be similar to 30-day Average SOFR or that any replacement rate will produce the economic equivalent of 30-day Average SOFR.

***The securities may not be a suitable investment for you.*** The securities, in particular, the support, interest only, accrual and residual classes, are not suitable investments for all investors.

In addition, although the sponsor intends to make a market for the purchase and sale of the securities after their initial issuance, it has no obligation to do so. There is no assurance that a secondary market will develop, that any secondary market will continue, or that the price at which you can sell an investment in any class will enable you to realize a desired yield on that investment.

You will bear the market risks of your investment. The market values of the classes are likely

to fluctuate. These fluctuations may be significant and could result in significant losses to you.

The secondary markets for mortgage-related securities have experienced periods of illiquidity and can be expected to do so in the future. Illiquidity can have a severely adverse effect on the prices of classes that are especially sensitive to prepayment or interest rate risk or that have been structured to meet the investment requirements of limited categories of investors.

The residual securities may experience significant adverse tax timing consequences. Accordingly, you are urged to consult tax advisors and to consider the after-tax effect of ownership of a residual security and the suitability of the residual securities to your investment objectives. See “*Certain United States Federal Income Tax Consequences*” in this supplement and in the base offering circular.

You are encouraged to consult advisors regarding the financial, legal, tax and other aspects of an investment in the securities. You should not purchase the securities of any class unless you understand and are able to bear the prepayment, yield, liquidity and market risks associated with that class.

***The actual characteristics of the underlying mortgage loans will affect the weighted average lives and yields of your securities.***

The yield and decrement tables in this supplement are based on assumed characteristics which are likely to be different from the actual characteristics. As a result, the yields on your securities could be lower than you expected, even if the mortgage loans prepay at the constant prepayment rates set forth in the applicable table.

It is highly unlikely that the underlying mortgage loans will prepay at any of the prepayment rates assumed in this supplement, or at any constant prepayment rate.

## THE TRUST ASSETS

### General

The Sponsor intends to acquire the Trust Assets in privately negotiated transactions prior to the Closing Date and to sell them to the Trust according to the terms of a Trust Agreement between the Sponsor and the Trustee. The Sponsor will make certain representations and warranties with respect to the Trust Assets. All Trust Assets will evidence, directly or indirectly, Ginnie Mae Certificates.

### The Trust MBS

The Trust Assets are either:

1. Ginnie Mae II MBS Certificates guaranteed by Ginnie Mae, or
2. Ginnie Mae Platinum Certificates backed by Ginnie Mae II MBS Certificates and guaranteed by Ginnie Mae.

Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued prior to July 1, 2003 bears interest at a Mortgage Rate 0.50% to 1.50% per annum greater than the related Certificate Rate. Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued on or after July 1, 2003 bears interest at a Mortgage Rate 0.25% to 0.75% per annum greater than the related Certificate Rate. Ginnie Mae receives a fee (the “Ginnie Mae Certificate Guaranty Fee”) for its guaranty of each Ginnie Mae II MBS Certificate of 0.06% per annum of the outstanding principal balance of each related Mortgage Loan. The difference between (a) the Mortgage Rate and (b) the sum of the Certificate Rate and the rate of the Ginnie Mae Certificate Guaranty Fee is used to pay the related servicers of the Mortgage Loans a monthly servicing fee.

### The Mortgage Loans

The Mortgage Loans underlying the Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans will consist of first lien, single-family, fixed rate, residential mortgage loans that are insured or guaranteed by the Federal Housing Administration, the United States Department of Veterans Affairs, Rural Development (formerly the Rural Housing Service) or the United States Department of Housing and Urban Development (“HUD”). See *“The Ginnie Mae Certificates — General” in the Base Offering Circular.*

Specific information regarding the characteristics of the Mortgage Loans underlying the Trust MBS is not available. For purposes of this Supplement, certain assumptions have been made regarding the remaining terms to maturity, loan ages and Mortgage Rates of the Mortgage Loans underlying the Trust MBS. However, the actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans will differ from the characteristics assumed, perhaps significantly. This will be the case even if the weighted average characteristics of the Mortgage Loans are the same as the assumed characteristics. Small differences in the characteristics of the Mortgage Loans can have a significant effect on the Weighted Average Lives and yields of the Securities. See *“Risk Factors” and “Yield, Maturity and Prepayment Considerations” in this Supplement.*

### The Trustee Fee

The Sponsor will contribute certain Ginnie Mae Certificates in respect of the Trustee Fee. On each Distribution Date, the Trustee will retain all principal and interest distributions received on such Ginnie Mae Certificates in payment of the Trustee Fee.

## **GINNIE MAE GUARANTY**

The Government National Mortgage Association (“Ginnie Mae”), a wholly-owned corporate instrumentality of the United States of America within HUD, guarantees the timely payment of principal and interest on the Securities. The General Counsel of HUD has provided an opinion to the effect that Ginnie Mae has the authority to guarantee multiclass securities and that Ginnie Mae guaranties will constitute general obligations of the United States, for which the full faith and credit of the United States is pledged. See *“Ginnie Mae Guaranty” in the Base Offering Circular*.

## **DESCRIPTION OF THE SECURITIES**

### **General**

The description of the Securities contained in this Supplement is not complete and is subject to, and is qualified in its entirety by reference to, all of the provisions of the Trust Agreement. See *“Description of the Securities” in the Base Offering Circular*.

### **Form of Securities**

Each Class of Securities other than the Residual Securities initially will be issued and maintained, and may be transferred only on the Fedwire Book-Entry System. Beneficial Owners of Book-Entry Securities will ordinarily hold these Securities through one or more financial intermediaries, such as banks, brokerage firms and securities clearing organizations that are eligible to maintain book-entry accounts on the Fedwire Book-Entry System. By request accompanied by the payment of a transfer fee of \$25,000 per Certificated Security to be issued, a Beneficial Owner may receive a Regular Security in certificated form.

The Residual Securities will not be issued in book-entry form but will be issued in fully registered, certificated form and may be transferred or exchanged, subject to the transfer restrictions applicable to Residual Securities set forth in the Trust Agreement, at the Corporate Trust Office of the Trustee. See *“Description of the Securities — Forms of Securities; Book-Entry Procedures” in the Base Offering Circular*.

Each Regular and MX Class (other than the Increased Minimum Denomination Classes) will be issued in minimum dollar denominations of initial principal balance of \$1,000 and integral multiples of \$1 in excess of \$1,000. The Increased Minimum Denomination Classes will be issued in minimum denominations that equal \$100,000 in initial notional balance.

### **Distributions**

Distributions on the Securities will be made on each Distribution Date as specified under “Terms Sheet — Distribution Date” in this Supplement. On each Distribution Date for a Security, or in the case of the Certificated Securities, on the first Business Day after the related Distribution Date, the Distribution Amount will be distributed to the Holders of record as of the related Record Date. Beneficial Owners of Book-Entry Securities will receive distributions through credits to accounts maintained for their benefit on the books and records of the appropriate financial intermediaries. Holders of Certificated Securities will receive distributions by check or, subject to the restrictions set forth in the Base Offering Circular, by wire transfer. See *“Description of the Securities — Distributions” and “— Method of Distributions” in the Base Offering Circular*.

## Interest Distributions

The Interest Distribution Amount will be distributed on each Distribution Date to the Holders of all Classes of Securities entitled to distributions of interest.

- Interest will be calculated on the basis of a 360-day year consisting of twelve 30-day months.
- Interest distributable (or accrued in the case of an Accrual Class) on any Class for any Distribution Date will consist of 30 days' interest on its Class Principal Balance (or Class Notional Balance) as of the related Record Date.
- Investors can calculate the amount of interest to be distributed (or accrued in the case of an Accrual Class) on each Class of Securities for any Distribution Date by using the Class Factors published in the preceding month. See “— *Class Factors*” below.

### *Categories of Classes*

For purposes of interest distributions, the Classes will be categorized as shown under “Interest Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the interest entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

### *Accrual Periods*

The Accrual Period for each Regular and MX Class is set forth in the table below:

<u>Class</u>	<u>Accrual Period</u>
Fixed Rate Classes	The calendar month preceding the related Distribution Date
Floating Rate and Inverse Floating Rate Classes	From the 20th day of the month preceding the month of the related Distribution Date through the 19th day of the month of that Distribution Date

### *Fixed Rate Classes*

Each Fixed Rate Class will bear interest at the per annum Interest Rate shown on the front cover of this Supplement or on Schedule I to this Supplement.

### *Floating Rate and Inverse Floating Rate Classes*

The Floating Rate and Inverse Floating Rate Classes will bear interest as shown under “Terms Sheet — Interest Rates” in this Supplement. The Interest Rates for the Floating Rate and Inverse Floating Rate Classes will be based on 30-day Average SOFR as described below.

The Interest Rate for the Floating Rate and Inverse Floating Rate Classes will be based on 30-day Average SOFR. The Trustee or its agent will determine 30-day Average SOFR as described under “Description of the Securities — Interest Rate Indices — Determination of 30-day Average SOFR” in the Base Offering Circular.

If 30-day Average SOFR ceases to be available or is no longer representative, a replacement rate will be selected, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the Base Offering Circular.

The Trustee's determination of 30-day Average SOFR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain 30-day Average SOFR levels and Interest Rates

for the current and preceding Accrual Periods on [ginniemae.gov](http://ginniemae.gov) or by calling the Information Agent at (800) 234-GNMA.

#### *Accrual Classes*

Each of Classes AZ, CZ, DZ and LZ is an Accrual Class. Interest will accrue on the Accrual Classes and be distributed as described under “Terms Sheet — Accrual Classes” in this Supplement.

#### **Principal Distributions**

The Principal Distribution Amount for each Group or Subgroup, as applicable, and each Accrual Amount will be distributed to the Holders entitled thereto as described under “Terms Sheet — Allocation of Principal” in this Supplement. Investors can calculate the amount of principal to be distributed with respect to any Distribution Date by using the Class Factors published in the preceding and current months. See “— Class Factors” below.

#### *Categories of Classes*

For purposes of principal distributions, the Classes will be categorized as shown under “Principal Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the principal entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

#### *Notional Classes*

The Notional Classes will not receive principal distributions. For convenience in describing interest distributions, the Notional Classes will have the original Class Notional Balances shown on the front cover of this Supplement and on Schedule I to this Supplement. The Class Notional Balances will be reduced as shown under “Terms Sheet — Notional Classes” in this Supplement.

#### **Residual Securities**

The Residual Securities will represent the beneficial ownership of the Residual Interest in the related Trust REMIC, as described in “Certain United States Federal Income Tax Consequences” in this Supplement and the Base Offering Circular. The Residual Securities have no Class Principal Balance and do not accrue interest. The Residual Securities will be entitled to receive the proceeds of the disposition of any assets remaining in the related Trust REMIC after the Class Principal Balance or Class Notional Balance of each Class of Regular Securities in the related Security Group or Groups has been reduced to zero. However, any remaining proceeds are not likely to be significant. The Residual Securities may not be transferred to a Plan Investor, a Non-U.S. Person or a Disqualified Organization.

#### **Class Factors**

The Trustee will calculate and make available for each Class of Securities, no later than the day preceding the Distribution Date, the factor (carried out to eight decimal places) that when multiplied by the Original Class Principal Balance (or original Class Notional Balance) of that Class, determines the Class Principal Balance (or Class Notional Balance) after giving effect to the distribution of principal to be made on the Securities (and any addition to the Class Principal Balance of an Accrual Class) or any reduction of Class Notional Balance on that Distribution Date (each, a “Class Factor”).

- The Class Factor for any Class of Securities for each month following the issuance of the Securities will reflect its remaining Class Principal Balance (or Class Notional Balance) after giving effect to any principal distribution (or addition to principal) to be made or any reduction of Class Notional Balance on the Distribution Date occurring in that month.



- The Class Factor for each Class for the month of issuance is 1.00000000.
- The Class Factors for the MX Classes and the Classes of REMIC Securities that are exchangeable for the MX Classes will be calculated assuming that the maximum possible amount of each Class is outstanding at all times, regardless of any exchanges that may occur.
- Based on the Class Factors published in the preceding and current months (and Interest Rates), investors in any Class (other than an Accrual Class) can calculate the amount of principal and interest to be distributed to that Class and investors in an Accrual Class can calculate the total amount of principal to be distributed to (or interest to be added to the Class Principal Balance of) that Class on the Distribution Date in the current month.
- Investors may obtain current Class Factors on [ginniemae.gov](http://ginniemae.gov).

See “Description of the Securities — Distributions” in the Base Offering Circular.

## Termination

The Trustee, at its option, may purchase or cause the sale of the Trust Assets and thereby terminate the Trust on any Distribution Date on which the aggregate of the Class Principal Balances of the Securities is less than 1% of the aggregate Original Class Principal Balances of the Securities. The exercise of this option may be influenced by a number of factors, including but not limited to, the value of the Trust Assets then remaining in the Trust and general market conditions. The Trustee will be entitled to retain all proceeds and any other amounts in excess of the termination price payable to the Securities under the Trust Agreement.

On any Distribution Date upon the Trustee’s determination that the REMIC status of any Trust REMIC has been lost or that a substantial risk exists that this status will be lost for the then current taxable year, the Trustee will terminate such Trust REMIC and any related Trust REMIC and retire the related Securities. For these purposes, the Trust REMICs and the Securities with corresponding numerical designations are related as follows:

<u>Trust REMICs</u>	<u>Related Securities</u>
Group 1 REMIC	Group 1 Securities
Group 2 REMIC	Group 2 Securities
Group 4 REMIC	Group 4 Securities
Group 5 REMIC	Group 5 Securities
Group 7 REMIC	Group 7 Securities
Group 8 REMIC	Group 8 Securities
Group 10 REMIC	Group 10 Securities
Group 3, 6 and 9 REMIC	Group 3, 6 and 9 Securities

Upon any termination of the Trust (or one or more related Trust REMIC), the Holder of any related outstanding Security (other than a Residual or Notional Class Security) will be entitled to receive that Holder’s allocable share of the Class Principal Balance of that Class plus any accrued and unpaid interest thereon at the applicable Interest Rate, and any Holder of any related outstanding Notional Class Security will be entitled to receive that Holder’s allocable share of any accrued and unpaid interest thereon at the applicable Interest Rate. The Residual Holders will be entitled to their pro rata share of any assets remaining in the related Trust REMIC after payment in full of the amounts described in the foregoing sentence. However, any remaining assets are not likely to be significant.

With respect to each of Security Groups 1, 2, 4, 5, 7, 8 and 10, a Holder of all of the outstanding Regular Securities of any such Security Group and the related Class of Residual Securities will have the right to purchase the related Trust Assets upon three Business Days' notice (the "Notice Period"). The purchase will be for cash in an amount equal to (A)(i) the aggregate remaining principal balance of the assets of such Security Group, but in no event less than the aggregate outstanding principal amount of the Securities of such Security Group, plus (ii) accrued interest on the Securities of such Security Group, less (B) amounts on deposit in the related Trust REMIC for distribution on the Securities of such Security Group, plus (C) a \$5,000 termination fee payable to the Trustee in connection with each Security Group to be terminated. After the Notice Period, and upon such purchase, the Trustee will terminate the related Trust REMIC. Upon such termination, the Trustee will distribute the cash proceeds of the sale of the related Trust Assets to the Holder of the related Securities (which distribution may be offset against amounts due on the sale of such assets), will cancel the Securities of the related Security Group and cause the removal from the Book-Entry Depository Account of all Classes of the related Security Group, will cancel the related Class of Residual Securities, and will credit the remaining Trust Assets in the related Security Group to the account of the surrendering Holder. Notwithstanding anything to the contrary contained herein, no such termination will be allowed unless the Trustee and Ginnie Mae are provided, at no cost to either the Trustee or Ginnie Mae, an Opinion of Counsel, acceptable to the Trustee and Ginnie Mae, to the effect that such termination constitutes a "qualified liquidation" under the REMIC Provisions, including Section 860F(a)(4) of the Code, and such termination will not result in a disqualification of any Trust REMIC that is not terminated at such time or the imposition of any "prohibited transactions" or "contributions" tax under the REMIC Provisions on any Trust REMIC that is not terminated at such time.

### **Modification and Exchange**

All or a portion of the Classes of REMIC Securities specified on the front cover may be exchanged for a proportionate interest in the related MX Class or Classes shown on Schedule I to this Supplement. Similarly, all or a portion of the related MX Class or Classes may be exchanged for proportionate interests in the related Class or Classes of REMIC Securities and, in the case of Combination 4, other related MX Classes. This process may occur repeatedly.

Each exchange may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered.

In the case of Combination 4, the related REMIC Securities may be exchanged for proportionate interests in various subcombinations of MX Classes. Similarly, all or a portion of these MX Classes may be exchanged for proportionate interests in the related REMIC Securities or in other subcombinations of the related MX Classes. Each subcombination may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered. *See the example under "Description of the Securities — Modification and Exchange" in the Base Offering Circular.*

A Beneficial Owner proposing to effect an exchange must notify the Trustee through the Beneficial Owner's Book-Entry Depository participant. This notice must be received by the Trustee not later than two Business Days before the proposed exchange date. The exchange date can be any Business Day other than the last Business Day of the month. The notice must contain the outstanding principal and or notional balances of the Securities to be included in the exchange and the proposed exchange date. The notice is required to be delivered to the Trustee by email to USBGNMATEam@USBank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, MA 02110, Attention: Ginnie Mae REMIC Program Agency Group 2024-109. The Trustee may be contacted by telephone at (617) 603-6451 and by fax at (617) 603-6644.

A fee will be payable to the Trustee in connection with each exchange equal to  $\frac{1}{32}$  of 1% of the outstanding principal balance of the Securities surrendered for exchange (but not less than \$2,000 or more than \$25,000). The fee must be paid concurrently with the exchange.

The first distribution on a REMIC Security or an MX Security received in an exchange will be made on the Distribution Date in the month following the month of the exchange. The distribution will be made to the Holder of record as of the Record Date in the month of exchange.

See “Description of the Securities — Modification and Exchange” in the Base Offering Circular.

## **YIELD, MATURITY AND PREPAYMENT CONSIDERATIONS**

### **General**

The prepayment experience of the Mortgage Loans will affect the Weighted Average Lives of and the yields realized by investors in the related Securities.

- The Mortgage Loans do not contain “due-on-sale” provisions, and any Mortgage Loan may be prepaid in full or in part at any time without penalty.
- The rate of payments (including prepayments and payments in respect of liquidations) on the Mortgage Loans is dependent on a variety of economic, geographic, social and other factors, including prevailing market interest rates and general economic factors.

The rate of prepayments with respect to single-family mortgage loans has fluctuated significantly in recent years. Although there is no assurance that prepayment patterns for the Mortgage Loans will conform to patterns for more traditional types of conventional fixed rate mortgage loans, generally:

- if mortgage interest rates fall materially below the Mortgage Rates on any of the Mortgage Loans (giving consideration to the cost of refinancing), the rate of prepayment of those Mortgage Loans would be expected to increase; and
- if mortgage interest rates rise materially above the Mortgage Rates on any of the Mortgage Loans, the rate of prepayment of those Mortgage Loans would be expected to decrease.

In addition, following any Mortgage Loan default and the subsequent liquidation of the underlying Mortgaged Property, the principal balance of the Mortgage Loan will be distributed through a combination of liquidation proceeds, advances from the related Ginnie Mae Issuer and, to the extent necessary, proceeds of Ginnie Mae’s guaranty of the Ginnie Mae Certificates. As a result, defaults experienced on the Mortgage Loans will accelerate the distribution of principal of the Securities.

The terms of the Mortgage Loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related Mortgage Loan. Partial releases of security may allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related Mortgage Loan in whole or in part.

Under certain circumstances, the Trustee has the option to purchase the Trust Assets, thereby effecting early retirement of the Securities. See “Description of the Securities — Termination” in this Supplement.

**Accretion Directed Classes**

Classes AK, CA, DA and LA are Accretion Directed Classes. The related Accrual Amount will be applied to making principal distributions on those Classes as described in this Supplement.

Each of the Accretion Directed Classes has the AD designation in the suffix position, rather than the prefix position, in its class principal type because it does not have principal payment stability through the applicable pricing prepayment assumption. Although the Accretion Directed Classes are entitled to receive payments from the related Accrual Amounts, they do not have principal payment stability through any constant prepayment rate significantly higher than 0% PSA.

**Securities that Receive Principal on the Basis of Schedules**

As described in this Supplement, each PAC Class will receive principal payments in accordance with a schedule calculated on the basis of, among other things, a Structuring Range. See “*Terms Sheet — Scheduled Principal Balances.*” However, whether any such Class will adhere to its schedule and receive “Scheduled Payments” on a Distribution Date will largely depend on the level of prepayments experienced by the related Mortgage Loans.

Each PAC Class exhibits an Effective Range of constant prepayment rates at which such Class will receive Scheduled Payments. That range may differ from the Structuring Range used to create the related principal balance schedule. Based on the Modeling Assumptions, the *initial* Effective Ranges for the PAC Classes are as follows:

<u>Security Group</u>	<u>Initial Effective Ranges</u>
<b>PAC Class</b>	
6 NB .....	200% PSA through 400% PSA
<b>PAC I Classes</b>	
9 MC and ML (in the aggregate) .....	150% PSA through 300% PSA
<b>PAC II Class</b>	
9 MD .....	175% PSA through 309% PSA

- The principal payment stability of the PAC Class will be supported by the related Support Class.
- The principal payment stability of the PAC I Classes will be supported by the related PAC II and Support Classes.
- The principal payment stability of the PAC II Class will be supported by the related Support Class.

**If all of the Classes supporting a given Class are retired before the Class being supported is retired, the outstanding Class will no longer have an Effective Range and will become more sensitive to prepayments on the related Mortgage Loans.**

There is no assurance that the related Mortgage Loans will have the characteristics assumed in the Modeling Assumptions, which were used to determine the initial Effective Ranges. If the initial Effective Ranges were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Ranges could differ from those shown in the above table. Therefore, even if the Mortgage Loans were to prepay at a constant rate within the initial Effective Range shown for any Class in the above table, that Class could fail to receive Scheduled Payments.

Moreover, the related Mortgage Loans will not prepay at any *constant* rate. Non-constant prepayment rates can cause any PAC Class not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range for that Class. Further, the Effective Range for any PAC Class can narrow, shift over time or cease to exist depending on the actual characteristics of the related Mortgage Loans.

If the related Mortgage Loans prepay at rates that are generally below the Effective Range for any PAC Class, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such related PAC Class, and its Weighted Average Life may be extended, perhaps significantly.

If the related Mortgage Loans prepay at rates that are generally above the Effective Range for any PAC Class, its supporting Class or Classes may be retired earlier than that PAC Class, and its Weighted Average Life may be shortened, perhaps significantly.

### **Assumability**

Each Mortgage Loan may be assumed, subject to HUD review and approval, upon the sale of the related Mortgaged Property. See *“Yield, Maturity and Prepayment Considerations — Assumability of Government Loans” in the Base Offering Circular.*

### **Final Distribution Date**

The Final Distribution Date for each Class, which is set forth on the front cover of this Supplement or on Schedule I to this Supplement, is the latest date on which the related Class Principal Balance or Class Notional Balance will be reduced to zero.

- The actual retirement of any Class may occur earlier than its Final Distribution Date.
- According to the terms of the Ginnie Mae Guaranty, Ginnie Mae will guarantee payment in full of the Class Principal Balance of each Class of Securities no later than its Final Distribution Date.

### **Modeling Assumptions**

Unless otherwise indicated, the tables that follow have been prepared on the basis of the following assumptions (the “Modeling Assumptions”), among others:

1. The Mortgage Loans underlying the Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets” in the Terms Sheet, except in the case of information set forth under the 0% PSA Prepayment Assumption Rate, for which each Mortgage Loan underlying a Group 1, 2, 3, 4, 5, 6, 8, 9 or 10 Trust Asset is assumed to have an original and a remaining term to maturity of 360 months, each Mortgage Loan underlying a Group 7 Trust Asset is assumed to have an original and a remaining term to maturity of 480 months and each Mortgage Loan underlying a Group 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10 Trust Asset is assumed to have a Mortgage Rate of 1.50% per annum higher than the related Certificate Rate.

2. The Mortgage Loans prepay at the constant percentages of PSA (described below) shown in the related table.

3. Distributions on the Securities are always received on the 20th day of the month whether or not a Business Day, commencing in August 2024.

4. A termination of the Trust or any Trust REMIC does not occur.

5. The Closing Date for the Securities is July 30, 2024.

6. No expenses or fees are paid by the Trust other than the Trustee Fee, which is paid as described under “The Trust Assets — The Trustee Fee” in this Supplement.

7. Each Class is held from the Closing Date and is not exchanged in whole or in part.

When reading the tables and the related text, investors should bear in mind that the Modeling Assumptions, like any other stated assumptions, are unlikely to be entirely consistent with actual experience.

- For example, most of the Mortgage Loans will not have the characteristics assumed, many Distribution Dates will occur on a Business Day after the 20th day of the month, and the Trustee may cause a termination of the Trust as described under “Description of the Securities — Termination” in this Supplement.
- In addition, distributions on the Securities are based on Certificate Factors and Calculated Certificate Factors, as applicable, which may not reflect actual receipts on the Trust Assets.

*See “Description of the Securities — Distributions” in the Base Offering Circular.*

### **Decrement Tables**

Prepayments of mortgage loans are commonly measured by a prepayment standard or model. The model used in this Supplement, Prepayment Speed Assumption (“PSA”), is the standard prepayment assumption model of The Securities Industry and Financial Markets Association. PSA represents an assumed rate of prepayment each month relative to the then outstanding principal balance of the Mortgage Loans to which the model is applied. *See “Yield, Maturity and Prepayment Considerations — Standard Prepayment Assumption Models” in the Base Offering Circular.*

The decrement tables set forth below are based on the assumption that the Mortgage Loans prepay at the indicated percentages of PSA (the “PSA Prepayment Assumption Rates”). As used in the tables, each of the PSA Prepayment Assumption Rates reflects a percentage of the 100% PSA assumed prepayment rate. **The Mortgage Loans will not prepay at any of the PSA Prepayment Assumption Rates, and the timing of changes in the rate of prepayments actually experienced on the Mortgage Loans will not follow the pattern described for the PSA assumption.**

The decrement tables set forth below illustrate the percentage of the Original Class Principal Balance (or, in the case of a Notional Class, the original Class Notional Balance) that would remain outstanding following the distribution made each specified month for each Regular or MX Class, based on the assumption that the related Mortgage Loans prepay at the PSA Prepayment Assumption Rates. The percentages set forth in the following decrement tables have been rounded to the nearest whole percentage (including rounding down to zero).

The decrement tables also indicate the Weighted Average Life of each Class under each PSA Prepayment Assumption Rate. The Weighted Average Life of each Class is calculated by:

- (a) multiplying the net reduction, if any, of the Class Principal Balance (or the net reduction of the Class Notional Balance, in the case of a Notional Class) from one Distribution Date to the next Distribution Date by the number of years from the date of issuance thereof to the related Distribution Date,
- (b) summing the results, and
- (c) dividing the sum by the aggregate amount of the assumed net reductions in principal balance or notional balance, as applicable, referred to in clause (a).

The information shown for each Notional Class is for illustrative purposes only, as a Notional Class is not entitled to distributions of principal and has no Weighted Average Life. The Weighted Average Life shown for each Notional Class has been calculated on the assumption that a reduction in the Class Notional Balance thereof is a distribution of principal.

**The Weighted Average Lives are likely to vary, perhaps significantly, from those set forth in the tables below due to the differences between the actual characteristics of the Mortgage Loans underlying the related Trust Assets and the Modeling Assumptions.**

## Percentages of Original Class Principal (or Class Notional) Balances and Weighted Average Lives

Security Group 1 PSA Prepayment Assumption Rates															
Distribution Date	Classes FB, IT and SB					Class IA					Class LZ				
	0%	250%	500%	750%	1,000%	0%	250%	500%	750%	1,000%	0%	250%	500%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	99	93	87	80	74	99	92	85	78	71	105	105	105	105	105
July 2026	98	81	65	50	37	98	78	61	45	31	109	109	109	109	109
July 2027	98	68	45	27	15	96	64	39	20	6	114	114	114	114	114
July 2028	97	57	31	15	6	95	52	23	6	0	120	120	120	120	75
July 2029	95	48	21	8	2	93	41	13	0	0	125	125	125	104	30
July 2030	94	40	15	4	1	91	32	5	0	0	131	131	131	56	12
July 2031	93	33	10	2	0	89	25	0	0	0	137	137	131	30	5
July 2032	92	28	7	1	0	87	18	0	0	0	143	143	90	16	2
July 2033	90	23	5	1	0	85	13	0	0	0	150	150	62	9	1
July 2034	89	19	3	0	0	83	8	0	0	0	157	157	42	5	0
July 2035	87	16	2	0	0	80	4	0	0	0	164	164	29	3	0
July 2036	85	13	2	0	0	78	0	0	0	0	171	171	20	1	0
July 2037	83	11	1	0	0	75	0	0	0	0	179	141	13	1	0
July 2038	81	9	1	0	0	72	0	0	0	0	188	116	9	0	0
July 2039	78	7	0	0	0	68	0	0	0	0	196	95	6	0	0
July 2040	75	6	0	0	0	65	0	0	0	0	205	77	4	0	0
July 2041	72	5	0	0	0	61	0	0	0	0	215	63	3	0	0
July 2042	69	4	0	0	0	56	0	0	0	0	224	50	2	0	0
July 2043	66	3	0	0	0	52	0	0	0	0	235	40	1	0	0
July 2044	62	2	0	0	0	47	0	0	0	0	246	32	1	0	0
July 2045	58	2	0	0	0	41	0	0	0	0	257	25	1	0	0
July 2046	53	1	0	0	0	35	0	0	0	0	269	19	0	0	0
July 2047	49	1	0	0	0	29	0	0	0	0	281	15	0	0	0
July 2048	43	1	0	0	0	22	0	0	0	0	294	11	0	0	0
July 2049	37	1	0	0	0	15	0	0	0	0	307	8	0	0	0
July 2050	31	0	0	0	0	7	0	0	0	0	321	5	0	0	0
July 2051	24	0	0	0	0	0	0	0	0	0	316	3	0	0	0
July 2052	17	0	0	0	0	0	0	0	0	0	220	1	0	0	0
July 2053	9	0	0	0	0	0	0	0	0	0	115	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.8	6.2	3.5	2.4	1.9	17.7	4.8	2.8	2.0	1.6	28.5	16.6	9.6	6.4	4.6

Security Group 2 PSA Prepayment Assumption Rates					
Distribution Date	Class PT				
	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100
July 2025	99	98	96	94	92
July 2026	98	93	86	79	74
July 2027	97	86	72	60	52
July 2028	96	80	61	45	36
July 2029	95	74	51	34	25
July 2030	93	68	42	25	17
July 2031	92	63	35	19	12
July 2032	90	58	29	14	8
July 2033	89	53	24	10	5
July 2034	87	49	20	8	4
July 2035	85	45	17	6	3
July 2036	83	41	14	4	2
July 2037	80	37	11	3	1
July 2038	78	34	9	2	1
July 2039	75	30	8	2	1
July 2040	73	27	6	1	0
July 2041	70	24	5	1	0
July 2042	66	22	4	1	0
July 2043	63	19	3	0	0
July 2044	59	17	3	0	0
July 2045	55	14	2	0	0
July 2046	50	12	2	0	0
July 2047	46	10	1	0	0
July 2048	40	8	1	0	0
July 2049	35	6	1	0	0
July 2050	29	5	0	0	0
July 2051	22	3	0	0	0
July 2052	16	2	0	0	0
July 2053	8	0	0	0	0
July 2054	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	6.5	4.6	3.8



**Security Group 3  
PSA Prepayment Assumption Rates**

Distribution Date	Class AK					Class AZ					Classes BA, BC, BD, BE, BG, BH, BI, BJ and CA					Class CT				
	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	99	95	91	88	84	106	106	106	106	106	99	94	90	86	82	99	95	91	88	84
July 2026	97	85	74	63	53	112	112	112	112	112	97	84	72	61	50	98	86	75	64	54
July 2027	96	73	53	37	23	118	118	118	118	118	96	72	52	35	21	97	75	56	41	28
July 2028	94	62	37	20	7	125	125	125	125	125	94	60	36	18	6	96	65	42	26	14
July 2029	93	52	25	9	0	132	132	132	132	118	92	51	24	8	0	95	56	32	16	7
July 2030	91	43	16	2	0	139	139	139	139	60	90	42	15	1	0	94	49	24	10	4
July 2031	89	35	9	0	0	147	147	147	102	31	88	34	8	0	0	92	42	18	6	2
July 2032	87	29	4	0	0	155	155	155	64	16	86	28	3	0	0	91	36	13	4	1
July 2033	84	23	0	0	0	164	164	153	40	8	84	21	0	0	0	89	31	10	3	0
July 2034	82	17	0	0	0	173	173	114	25	4	81	16	0	0	0	88	27	7	2	0
July 2035	79	12	0	0	0	183	183	84	16	2	79	11	0	0	0	86	23	5	1	0
July 2036	76	8	0	0	0	193	193	62	10	1	76	7	0	0	0	84	20	4	1	0
July 2037	73	4	0	0	0	204	204	46	6	1	73	3	0	0	0	82	17	3	0	0
July 2038	70	1	0	0	0	216	216	34	4	0	69	0	0	0	0	79	14	2	0	0
July 2039	66	0	0	0	0	228	189	25	2	0	65	0	0	0	0	77	12	2	0	0
July 2040	62	0	0	0	0	241	160	18	1	0	62	0	0	0	0	74	10	1	0	0
July 2041	58	0	0	0	0	254	134	13	1	0	57	0	0	0	0	71	9	1	0	0
July 2042	54	0	0	0	0	269	112	9	1	0	53	0	0	0	0	68	7	1	0	0
July 2043	49	0	0	0	0	284	93	7	0	0	48	0	0	0	0	64	6	0	0	0
July 2044	44	0	0	0	0	300	77	5	0	0	43	0	0	0	0	60	5	0	0	0
July 2045	38	0	0	0	0	317	63	3	0	0	37	0	0	0	0	56	4	0	0	0
July 2046	32	0	0	0	0	334	50	2	0	0	31	0	0	0	0	52	3	0	0	0
July 2047	26	0	0	0	0	353	40	2	0	0	24	0	0	0	0	47	3	0	0	0
July 2048	19	0	0	0	0	373	31	1	0	0	17	0	0	0	0	42	2	0	0	0
July 2049	11	0	0	0	0	394	23	1	0	0	9	0	0	0	0	36	1	0	0	0
July 2050	3	0	0	0	0	417	17	0	0	0	1	0	0	0	0	30	1	0	0	0
July 2051	0	0	0	0	0	357	11	0	0	0	0	0	0	0	0	23	1	0	0	0
July 2052	0	0	0	0	0	247	6	0	0	0	0	0	0	0	0	16	0	0	0	0
July 2053	0	0	0	0	0	129	3	0	0	0	0	0	0	0	0	8	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.2	5.9	3.6	2.7	2.2	28.3	19.2	12.1	8.4	6.4	17.0	5.7	3.5	2.6	2.1	20.5	7.5	4.4	3.1	2.5

**PSA Prepayment Assumption Rates**

Distribution Date	Class CZ					Classes FA and SA					Class ZC				
	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	106	106	106	106	106	99	95	92	88	84	106	106	106	106	106
July 2026	112	112	112	112	112	98	86	75	64	55	112	112	112	112	112
July 2027	118	118	118	118	118	97	75	56	41	28	118	118	118	118	118
July 2028	125	125	125	125	125	96	65	42	26	14	125	125	125	125	125
July 2029	132	132	132	132	105	95	56	32	16	7	132	132	132	132	108
July 2030	139	139	139	139	54	94	49	24	10	4	139	139	139	139	55
July 2031	147	147	147	92	28	92	42	18	6	2	147	147	147	94	28
July 2032	155	155	155	58	14	91	36	13	4	1	155	155	155	59	14
July 2033	164	164	140	36	7	89	31	10	3	1	164	164	142	37	7
July 2034	173	173	104	23	4	88	27	7	2	0	173	173	106	23	4
July 2035	183	183	77	14	2	86	23	5	1	0	183	183	78	14	2
July 2036	193	193	57	9	1	84	20	4	1	0	193	193	58	9	1
July 2037	204	204	42	5	0	82	17	3	0	0	204	204	43	6	0
July 2038	216	206	31	3	0	79	14	2	0	0	216	208	31	3	0
July 2039	228	175	23	2	0	77	12	2	0	0	228	177	23	2	0
July 2040	241	147	16	1	0	74	10	1	0	0	241	150	17	1	0
July 2041	254	124	12	1	0	71	9	1	0	0	254	126	12	1	0
July 2042	269	103	9	0	0	68	7	1	0	0	269	105	9	0	0
July 2043	284	86	6	0	0	64	6	0	0	0	284	87	6	0	0
July 2044	300	70	4	0	0	60	5	0	0	0	300	71	4	0	0
July 2045	317	57	3	0	0	56	4	0	0	0	317	58	3	0	0
July 2046	334	46	2	0	0	52	3	0	0	0	334	47	2	0	0
July 2047	353	36	1	0	0	47	3	0	0	0	353	37	1	0	0
July 2048	373	28	1	0	0	42	2	0	0	0	373	28	1	0	0
July 2049	394	21	1	0	0	36	1	0	0	0	394	21	1	0	0
July 2050	417	15	0	0	0	30	1	0	0	0	417	15	0	0	0
July 2051	335	9	0	0	0	23	1	0	0	0	339	10	0	0	0
July 2052	232	5	0	0	0	16	0	0	0	0	235	5	0	0	0
July 2053	121	2	0	0	0	8	0	0	0	0	122	2	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.2	18.8	11.9	8.3	6.2	20.5	7.5	4.4	3.1	2.5	28.2	18.9	11.9	8.3	6.2

**Security Group 4  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes FC and SC</u>				
	<u>0%</u>	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
Initial Percent .....	100	100	100	100	100
July 2025 .....	99	97	96	94	93
July 2026 .....	98	92	87	82	77
July 2027 .....	97	86	76	67	58
July 2028 .....	95	79	66	54	44
July 2029 .....	94	73	57	44	33
July 2030 .....	93	68	49	35	24
July 2031 .....	91	62	42	28	18
July 2032 .....	89	57	37	23	14
July 2033 .....	88	53	31	18	10
July 2034 .....	86	48	27	14	7
July 2035 .....	84	44	23	12	6
July 2036 .....	82	40	20	9	4
July 2037 .....	79	37	17	7	3
July 2038 .....	77	33	14	6	2
July 2039 .....	74	30	12	5	2
July 2040 .....	71	27	10	4	1
July 2041 .....	68	24	9	3	1
July 2042 .....	65	22	7	2	1
July 2043 .....	61	19	6	2	0
July 2044 .....	57	17	5	1	0
July 2045 .....	53	15	4	1	0
July 2046 .....	49	12	3	1	0
July 2047 .....	44	10	2	1	0
July 2048 .....	39	9	2	0	0
July 2049 .....	34	7	1	0	0
July 2050 .....	28	5	1	0	0
July 2051 .....	22	4	1	0	0
July 2052 .....	15	2	0	0	0
July 2053 .....	8	1	0	0	0
July 2054 .....	0	0	0	0	0
Weighted Average Life (years) .....	19.9	11.3	7.6	5.6	4.5

**Security Group 5  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes FD and SD</u>				
	<u>0%</u>	<u>250%</u>	<u>500%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent .....	100	100	100	100	100
July 2025 .....	99	89	79	68	58
July 2026 .....	98	75	55	38	23
July 2027 .....	98	63	38	20	9
July 2028 .....	97	53	26	11	4
July 2029 .....	95	44	18	6	1
July 2030 .....	94	37	12	3	1
July 2031 .....	93	31	9	2	0
July 2032 .....	92	26	6	1	0
July 2033 .....	90	21	4	1	0
July 2034 .....	89	18	3	0	0
July 2035 .....	87	15	2	0	0
July 2036 .....	85	12	1	0	0
July 2037 .....	83	10	1	0	0
July 2038 .....	81	8	1	0	0
July 2039 .....	78	7	0	0	0
July 2040 .....	75	5	0	0	0
July 2041 .....	72	4	0	0	0
July 2042 .....	69	4	0	0	0
July 2043 .....	66	3	0	0	0
July 2044 .....	62	2	0	0	0
July 2045 .....	58	2	0	0	0
July 2046 .....	53	1	0	0	0
July 2047 .....	49	1	0	0	0
July 2048 .....	43	1	0	0	0
July 2049 .....	37	0	0	0	0
July 2050 .....	31	0	0	0	0
July 2051 .....	24	0	0	0	0
July 2052 .....	17	0	0	0	0
July 2053 .....	9	0	0	0	0
July 2054 .....	0	0	0	0	0
Weighted Average Life (years) .....	20.8	5.8	3.0	2.0	1.4

**Security Group 6  
PSA Prepayment Assumption Rates**

Distribution Date	Class NA					Class NB					Classes NF and NS				
	0%	200%	250%	400%	500%	0%	200%	250%	400%	500%	0%	200%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	100	100	97	87	80	99	94	94	94	94	99	96	95	92	91
July 2026	100	100	89	58	38	98	82	82	82	82	98	87	84	76	71
July 2027	100	100	81	28	0	97	68	68	68	66	98	76	71	58	50
July 2028	100	100	75	11	0	95	54	54	54	46	97	66	60	43	34
July 2029	100	100	71	2	0	94	43	43	43	32	95	57	50	32	24
July 2030	100	100	69	0	0	92	33	33	33	22	94	50	42	24	16
July 2031	100	98	67	0	0	91	24	24	24	15	93	43	35	18	11
July 2032	100	93	62	0	0	89	18	18	18	10	92	37	29	14	8
July 2033	100	87	56	0	0	87	14	14	14	7	90	32	24	10	5
July 2034	100	79	50	0	0	85	10	10	10	5	89	28	20	8	4
July 2035	100	72	44	0	0	82	7	7	7	3	87	24	17	6	2
July 2036	100	64	39	0	0	80	6	6	6	2	85	20	14	4	2
July 2037	100	57	33	0	0	77	4	4	4	2	83	17	12	3	1
July 2038	100	50	29	0	0	74	3	3	3	1	81	15	9	2	1
July 2039	100	43	24	0	0	71	2	2	2	1	78	13	8	2	1
July 2040	100	37	20	0	0	67	2	2	2	0	75	11	6	1	0
July 2041	100	32	17	0	0	63	1	1	1	0	72	9	5	1	0
July 2042	100	27	14	0	0	59	1	1	1	0	69	7	4	1	0
July 2043	100	23	11	0	0	54	1	1	1	0	66	6	3	0	0
July 2044	100	19	9	0	0	49	0	0	0	0	62	5	3	0	0
July 2045	100	16	7	0	0	44	0	0	0	0	58	4	2	0	0
July 2046	100	13	6	0	0	38	0	0	0	0	53	3	2	0	0
July 2047	100	10	4	0	0	31	0	0	0	0	49	3	1	0	0
July 2048	100	8	3	0	0	24	0	0	0	0	43	2	1	0	0
July 2049	100	6	2	0	0	16	0	0	0	0	37	2	1	0	0
July 2050	100	4	2	0	0	8	0	0	0	0	31	1	0	0	0
July 2051	96	3	1	0	0	0	0	0	0	0	24	1	0	0	0
July 2052	67	2	1	0	0	0	0	0	0	0	17	0	0	0	0
July 2053	35	1	0	0	0	0	0	0	0	0	9	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.5	14.9	10.4	2.4	1.7	18.1	5.2	5.2	5.2	4.4	20.8	7.7	6.5	4.5	3.7

**Security Group 7  
PSA Prepayment Assumption Rates**

Distribution Date	Class A					Class L				
	0%	250%	550%	850%	1,100%	0%	250%	550%	850%	1,100%
Initial Percent	100	100	100	100	100	100	100	100	100	100
July 2025	100	89	77	65	54	100	100	100	100	100
July 2026	99	70	39	11	0	100	100	100	100	85
July 2027	98	50	6	0	0	100	100	100	58	29
July 2028	98	33	0	0	0	100	100	73	28	10
July 2029	97	18	0	0	0	100	100	48	14	3
July 2030	96	6	0	0	0	100	100	32	7	1
July 2031	95	0	0	0	0	100	92	21	3	0
July 2032	95	0	0	0	0	100	78	14	2	0
July 2033	94	0	0	0	0	100	65	9	1	0
July 2034	92	0	0	0	0	100	55	6	0	0
July 2035	91	0	0	0	0	100	46	4	0	0
July 2036	90	0	0	0	0	100	39	3	0	0
July 2037	89	0	0	0	0	100	33	2	0	0
July 2038	87	0	0	0	0	100	27	1	0	0
July 2039	86	0	0	0	0	100	23	1	0	0
July 2040	84	0	0	0	0	100	19	1	0	0
July 2041	82	0	0	0	0	100	16	0	0	0
July 2042	80	0	0	0	0	100	13	0	0	0
July 2043	77	0	0	0	0	100	11	0	0	0
July 2044	75	0	0	0	0	100	9	0	0	0
July 2045	72	0	0	0	0	100	8	0	0	0
July 2046	69	0	0	0	0	100	6	0	0	0
July 2047	66	0	0	0	0	100	5	0	0	0
July 2048	63	0	0	0	0	100	4	0	0	0
July 2049	59	0	0	0	0	100	4	0	0	0
July 2050	55	0	0	0	0	100	3	0	0	0
July 2051	50	0	0	0	0	100	2	0	0	0
July 2052	45	0	0	0	0	100	2	0	0	0
July 2053	40	0	0	0	0	100	2	0	0	0
July 2054	34	0	0	0	0	100	1	0	0	0
July 2055	28	0	0	0	0	100	1	0	0	0
July 2056	21	0	0	0	0	100	1	0	0	0
July 2057	13	0	0	0	0	100	1	0	0	0
July 2058	5	0	0	0	0	100	0	0	0	0
July 2059	0	0	0	0	0	94	0	0	0	0
July 2060	0	0	0	0	0	78	0	0	0	0
July 2061	0	0	0	0	0	61	0	0	0	0
July 2062	0	0	0	0	0	42	0	0	0	0
July 2063	0	0	0	0	0	22	0	0	0	0
July 2064	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	24.7	3.2	1.7	1.3	1.0	37.5	12.2	5.7	3.6	2.8

**Security Group 8  
PSA Prepayment Assumption Rates**

Distribution Date	Class DA					Class DZ				
	0%	50%	135%	300%	400%	0%	50%	135%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
July 2025	98	95	90	80	74	104	104	104	104	104
July 2026	97	90	81	63	54	108	108	108	108	108
July 2027	95	85	72	50	39	113	113	113	113	113
July 2028	93	80	64	39	28	117	117	117	117	117
July 2029	92	76	57	31	20	122	122	122	122	122
July 2030	90	71	51	24	14	127	127	127	127	127
July 2031	87	67	45	18	9	132	132	132	132	132
July 2032	85	63	39	13	5	138	138	138	138	138
July 2033	83	58	34	9	3	143	143	143	143	143
July 2034	80	54	30	6	1	149	149	149	149	149
July 2035	78	50	25	4	0	155	155	155	155	155
July 2036	75	46	22	2	0	161	161	161	161	161
July 2037	72	42	18	0	0	168	168	168	168	168
July 2038	69	38	15	0	0	175	175	175	134	46
July 2039	66	34	12	0	0	182	182	182	104	33
July 2040	63	31	10	0	0	189	189	189	80	24
July 2041	59	27	7	0	0	197	197	197	62	17
July 2042	55	23	5	0	0	205	205	205	47	12
July 2043	51	20	3	0	0	214	214	214	35	8
July 2044	47	16	1	0	0	222	222	222	26	6
July 2045	43	13	0	0	0	231	231	207	19	4
July 2046	38	9	0	0	0	241	241	166	14	3
July 2047	33	6	0	0	0	251	251	128	9	2
July 2048	28	3	0	0	0	261	261	95	6	1
July 2049	22	0	0	0	0	271	249	65	4	1
July 2050	16	0	0	0	0	282	155	38	2	0
July 2051	10	0	0	0	0	294	61	14	1	0
July 2052	4	0	0	0	0	306	0	0	0	0
July 2053	0	0	0	0	0	220	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.8	11.5	7.3	3.9	2.9	29.3	26.2	23.7	16.7	13.4

**Security Group 9  
PSA Prepayment Assumption Rates**

Distribution Date	Class MA					Class MB					Class MC				
	0%	150%	205%	300%	500%	0%	150%	205%	300%	500%	0%	150%	205%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	100	100	98	92	78	99	96	96	96	96	99	96	96	96	96
July 2026	100	100	93	70	23	98	88	88	88	88	98	87	87	87	87
July 2027	100	100	86	43	0	96	76	76	76	69	96	75	75	75	67
July 2028	100	100	80	23	0	95	65	65	65	48	95	63	63	63	44
July 2029	100	100	77	11	0	94	55	55	55	33	93	52	52	52	28
July 2030	100	100	74	4	0	92	46	46	46	23	91	43	43	43	18
July 2031	100	100	71	1	0	90	38	38	38	16	89	34	34	34	10
July 2032	100	100	69	0	0	88	31	31	31	11	87	26	26	26	5
July 2033	100	100	66	0	0	86	25	25	25	7	85	20	20	20	1
July 2034	100	100	62	0	0	84	20	20	20	5	83	15	15	15	0
July 2035	100	100	57	0	0	81	16	16	16	3	80	10	10	10	0
July 2036	100	100	52	0	0	79	13	13	13	2	77	7	7	7	0
July 2037	100	94	47	0	0	76	10	10	10	2	74	4	4	4	0
July 2038	100	87	42	0	0	73	8	8	8	1	71	2	2	2	0
July 2039	100	79	37	0	0	70	6	6	6	1	68	0	0	0	0
July 2040	100	71	33	0	0	66	5	5	5	0	64	0	0	0	0
July 2041	100	63	29	0	0	62	4	4	4	0	59	0	0	0	0
July 2042	100	56	25	0	0	58	3	3	3	0	55	0	0	0	0
July 2043	100	49	21	0	0	53	2	2	2	0	50	0	0	0	0
July 2044	100	43	18	0	0	48	2	2	2	0	45	0	0	0	0
July 2045	100	36	15	0	0	43	1	1	1	0	39	0	0	0	0
July 2046	100	31	12	0	0	37	1	1	1	0	33	0	0	0	0
July 2047	100	25	10	0	0	30	1	1	1	0	26	0	0	0	0
July 2048	100	21	8	0	0	24	1	1	1	0	19	0	0	0	0
July 2049	100	16	6	0	0	16	0	0	0	0	11	0	0	0	0
July 2050	100	12	4	0	0	8	0	0	0	0	2	0	0	0	0
July 2051	100	8	3	0	0	0	0	0	0	0	0	0	0	0	0
July 2052	83	5	2	0	0	0	0	0	0	0	0	0	0	0	0
July 2053	43	2	1	0	0	0	0	0	0	0	0	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.8	19.5	12.5	3.0	1.5	18.0	6.7	6.7	6.7	4.6	17.4	5.9	5.9	5.9	4.1

**Security Group 9  
PSA Prepayment Assumption Rates**

Distribution Date	Class MD					Class MI					Class ML				
	0%	150%	205%	300%	500%	0%	150%	205%	300%	500%	0%	150%	205%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2025	100	100	93	93	93	99	97	96	95	92	100	100	100	100	100
July 2026	100	100	73	73	73	98	91	88	84	74	100	100	100	100	100
July 2027	100	100	47	47	0	97	82	77	68	52	100	100	100	100	100
July 2028	100	100	25	25	0	96	74	66	55	36	100	100	100	100	100
July 2029	100	100	9	9	0	95	66	57	45	25	100	100	100	100	100
July 2030	100	100	0	0	0	94	59	50	36	17	100	100	100	100	100
July 2031	100	100	0	0	0	92	53	43	29	12	100	100	100	100	100
July 2032	100	99	0	0	0	91	47	37	23	8	100	100	100	100	100
July 2033	100	87	0	0	0	89	42	32	19	6	100	100	100	100	100
July 2034	100	67	0	0	0	88	37	27	15	4	100	100	100	100	82
July 2035	100	40	0	0	0	86	33	23	12	3	100	100	100	100	56
July 2036	100	9	0	0	0	84	29	20	10	2	100	100	100	100	38
July 2037	100	0	0	0	0	82	26	17	8	1	100	100	100	100	26
July 2038	100	0	0	0	0	79	23	14	6	1	100	100	100	100	18
July 2039	100	0	0	0	0	77	20	12	5	1	100	100	100	100	12
July 2040	100	0	0	0	0	74	18	10	4	0	100	82	82	82	8
July 2041	100	0	0	0	0	71	15	9	3	0	100	64	64	64	5
July 2042	100	0	0	0	0	68	13	7	2	0	100	50	50	50	4
July 2043	100	0	0	0	0	64	11	6	2	0	100	38	38	38	2
July 2044	100	0	0	0	0	60	10	5	1	0	100	30	30	30	2
July 2045	100	0	0	0	0	56	8	4	1	0	100	22	22	22	1
July 2046	100	0	0	0	0	52	7	3	1	0	100	17	17	17	1
July 2047	100	0	0	0	0	47	6	2	1	0	100	12	12	12	0
July 2048	100	0	0	0	0	42	4	2	0	0	100	9	9	9	0
July 2049	100	0	0	0	0	36	3	1	0	0	100	6	6	6	0
July 2050	100	0	0	0	0	30	3	1	0	0	100	4	4	4	0
July 2051	87	0	0	0	0	23	2	1	0	0	3	3	3	3	0
July 2052	0	0	0	0	0	16	1	0	0	0	1	1	1	1	0
July 2053	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
July 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	27.3	10.5	3.0	3.0	2.1	20.5	9.3	7.6	5.8	3.9	26.6	18.9	18.9	18.9	12.1

**Security Group 10  
PSA Prepayment Assumption Rates**

Distribution Date	Classes FE and SE				
	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100
July 2025	99	96	93	90	87
July 2026	98	88	78	68	59
July 2027	97	76	59	44	31
July 2028	96	66	44	28	16
July 2029	95	58	33	17	8
July 2030	94	50	25	11	4
July 2031	92	43	18	7	2
July 2032	91	37	14	4	1
July 2033	89	32	10	3	1
July 2034	88	28	8	2	0
July 2035	86	24	6	1	0
July 2036	84	20	4	1	0
July 2037	82	17	3	0	0
July 2038	79	15	2	0	0
July 2039	77	13	2	0	0
July 2040	74	11	1	0	0
July 2041	71	9	1	0	0
July 2042	68	7	1	0	0
July 2043	64	6	0	0	0
July 2044	60	5	0	0	0
July 2045	56	4	0	0	0
July 2046	52	3	0	0	0
July 2047	47	3	0	0	0
July 2048	42	2	0	0	0
July 2049	36	2	0	0	0
July 2050	30	1	0	0	0
July 2051	23	1	0	0	0
July 2052	16	0	0	0	0
July 2053	8	0	0	0	0
July 2054	0	0	0	0	0
Weighted Average Life (years)	20.5	7.7	4.5	3.3	2.6

## Yield Considerations

An investor seeking to maximize yield should make a decision whether to invest in any Regular or MX Class based on:

- the anticipated yield of that Class resulting from its purchase price,
- the investor's own projection of Mortgage Loan prepayment rates under a variety of scenarios and
- in the case of a Floating Rate or an Inverse Floating Rate Class, the investor's own projection of levels of 30-day Average SOFR under a variety of scenarios.

**No representation is made regarding Mortgage Loan prepayment rates, 30-day Average SOFR levels or the yield of any Class.**

### *Prepayments: Effect on Yields*

The yields to investors will be sensitive in varying degrees to the rate of prepayments on the related Mortgage Loans.

- In the case of Regular Securities or MX Securities purchased at a premium (especially the Interest Only Classes), faster than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.
- Investors in the Interest Only Classes should also consider the risk that rapid rates of principal payments could result in the failure of investors to recover fully their investments.
- In the case of Regular Securities or MX Securities purchased at a discount, slower than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.

*See "Risk Factors — Rates of principal payments can reduce your yield" in this Supplement.*

Rapid rates of prepayments on the Mortgage Loans are likely to coincide with periods of low prevailing interest rates.

During periods of low prevailing interest rates, the yields at which an investor may be able to reinvest amounts received as principal payments on the investor's Class of Securities may be lower than the yield on that Class.

Slow rates of prepayments on the Mortgage Loans are likely to coincide with periods of high prevailing interest rates.

During periods of high prevailing interest rates, the amount of principal payments available to an investor for reinvestment at those high rates may be relatively low.

The Mortgage Loans will not prepay at any constant rate until maturity, nor will all of the Mortgage Loans underlying any Trust Asset Group prepay at the same rate at any one time. The timing of changes in the rate of prepayments may affect the actual yield to an investor, even if the average rate of principal prepayments is consistent with the investor's expectation. In general, the earlier a prepayment of principal on the Mortgage Loans, the greater the effect on an investor's yield. As a result, the effect on an investor's yield of principal prepayments occurring at a rate higher (or lower) than the rate anticipated by the investor during the period immediately following the Closing Date is not likely to be offset by a later equivalent reduction (or increase) in the rate of principal prepayments.

*30-day Average SOFR: Effect on Yields of the Floating Rate and Inverse Floating Rate Classes*

Low levels of 30-day Average SOFR can reduce the yield of the Floating Rate Classes. High levels of 30-day Average SOFR can reduce the yield of the Inverse Floating Rate Classes. In addition, the Floating Rate Classes will not benefit from a higher yield at high levels of 30-day Average SOFR because the rate on such Classes is capped at a maximum rate described under “Terms Sheet — Interest Rates.”

*Payment Delay: Effect on Yields of the Fixed Rate Classes*

The effective yield on any Fixed Rate Class will be less than the yield otherwise produced by its Interest Rate and purchase price because, on each Distribution Date, 30 days’ interest will be payable on (or added to the principal amount of) that Class even though interest began to accrue approximately 50 days earlier.

**Yield Tables**

The following tables show the pre-tax yields to maturity on a corporate bond equivalent basis of specified Classes at various constant percentages of PSA and, in the case of the Inverse Floating Rate Classes, at various constant levels of 30-day Average SOFR.

The Mortgage Loans will not prepay at any constant rate until maturity, and it is unlikely that 30-day Average SOFR will remain constant. Moreover, it is likely that the Mortgage Loans will experience actual prepayment rates that differ from those of the Modeling Assumptions. **Therefore, the actual pre-tax yield of any Class may differ from those shown in the applicable table below for that Class even if the Class is purchased at the assumed price shown.**

The yields were calculated by

1. determining the monthly discount rates that, when applied to the applicable assumed streams of cash flows to be paid on the applicable Class, would cause the discounted present value of the assumed streams of cash flows to equal the assumed purchase price of that Class plus accrued interest, and
2. converting the monthly rates to corporate bond equivalent rates.

These calculations do not take into account variations that may occur in the interest rates at which investors may be able to reinvest funds received by them as distributions on their Securities and consequently do not purport to reflect the return on any investment in any Class when those reinvestment rates are considered.

The information set forth in the following tables was prepared on the basis of the Modeling Assumptions and the assumptions that (1) the Interest Rate applicable to each Inverse Floating Rate Class for each Accrual Period following the first Accrual Period will be based on the indicated level of 30-day Average SOFR and (2) the purchase price of each Class (expressed as a percentage of original Class Notional Balance) plus accrued interest is as indicated in the related table. **The assumed purchase price is not necessarily that at which actual sales will occur.**

**SECURITY GROUP 1**

**Sensitivity of Class SB to Prepayments  
Assumed Price 5.75%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>500%</u>	<u>750%</u>	<u>1,000%</u>
4.31295% .....	24.3%	9.6%	(6.1)%	(23.0)%
5.31295% .....	4.4%	(11.1)%	(27.7)%	(45.9)%
5.88148% .....	(7.5)%	(23.3)%	(40.5)%	(60.0)%
6.45000% and above .....	**	**	**	**

**SECURITY GROUP 3**

**Sensitivity of Class BI to Prepayments  
Assumed Price 16.5%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>200%</u>	<u>400%</u>	<u>599%</u>	<u>600%</u>	<u>800%</u>
27.6%	14.1%	0.1%	0.0%	(14.1)%

**Sensitivity of Class SA to Prepayments  
Assumed Price 6.75%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
4.31295% .....	21.5%	10.7%	(0.6)%	(12.3)%
5.31295% .....	4.3%	(7.2)%	(19.5)%	(32.4)%
5.88148% .....	(6.2)%	(18.1)%	(30.9)%	(44.7)%
6.45000% and above .....	**	**	**	**

**SECURITY GROUP 4**

**Sensitivity of Class SC to Prepayments  
Assumed Price 1.75%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
4.29442% .....	(9.4)%	(15.1)%	(20.9)%	(26.9)%
4.31295% .....	(12.1)%	(17.7)%	(23.5)%	(29.5)%
4.33148% .....	(16.1)%	(21.7)%	(27.4)%	(33.4)%
4.35000% and above .....	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.



**SECURITY GROUP 5**

**Sensitivity of Class SD to Prepayments  
Assumed Price 2.75%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>500%</u>	<u>750%</u>	<u>1,000%</u>
4.32834% .....	44.7%	26.6%	6.9%	(15.1)%
5.32834% .....	4.0%	(13.1)%	(32.0)%	(53.5)%
5.61417% .....	(7.8)%	(24.6)%	(43.3)%	(65.0)%
5.90000% and above .....	**	**	**	**

**SECURITY GROUP 6**

**Sensitivity of Class NS to Prepayments  
Assumed Price 6.75%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
4.33% .....	25.1%	22.5%	14.6%	9.2%
5.33% .....	7.8%	5.0%	(3.5)%	(9.3)%
5.99% .....	(4.1)%	(7.0)%	(15.9)%	(22.1)%
6.65% and above .....	**	**	**	**

**SECURITY GROUP 9**

**Sensitivity of Class MI to Prepayments  
Assumed Price 21.0%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>150%</u>	<u>205%</u>	<u>300%</u>	<u>500%</u>	<u>615%</u>
23.6%	20.9%	16.2%	6.0%	0.0%

**SECURITY GROUP 10**

**Sensitivity of Class SE to Prepayments  
Assumed Price 3.25%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.85715% .....	36.6%	26.9%	17.0%	6.9%
4.33810% .....	19.3%	8.8%	(1.9)%	(13.0)%
4.81905% .....	2.0%	(9.3)%	(21.3)%	(33.9)%
5.30000% and above .....	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

## CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES

The following tax discussion, when read in conjunction with the discussion of “Certain United States Federal Income Tax Consequences” in the Base Offering Circular, describes the material United States federal income tax considerations for investors in the Securities. However, these two tax discussions do not purport to deal with all United States federal tax consequences applicable to all categories of investors, some of which may be subject to special rules.

### REMIC Elections

In the opinion of Cleary Gottlieb Steen & Hamilton LLP, the Trust will constitute a Single REMIC Series as to the Group 1 Trust Assets, the Group 2 Trust Assets, the Group 4 Trust Assets, the Group 5 Trust Assets, the Group 7 Trust Assets, the Group 8 Trust Assets, the Group 10 Trust Assets and the Group 3, 6 and 9 Trust Assets, each for United States federal income tax purposes. Separate REMIC elections will be made for the Group 1 REMIC, the Group 2 REMIC, the Group 4 REMIC, the Group 5 REMIC, the Group 7 REMIC, the Group 8 REMIC, the Group 10 REMIC and the Group 3, 6 and 9 REMIC.

### Regular Securities

The Regular Securities will be treated as debt instruments issued by the Group 1 REMIC, the Group 2 REMIC, the Group 4 REMIC, the Group 5 REMIC, the Group 7 REMIC, the Group 8 REMIC, the Group 10 REMIC or the Group 3, 6 and 9 REMIC, as applicable, for United States federal income tax purposes. Income on the Regular Securities must be reported under an accrual method of accounting.

The Notional and Accrual Classes of Regular Securities will be issued with original issue discount (“OID”), and certain other Classes of Regular Securities may be issued with OID. See “*Certain United States Federal Income Tax Consequences — Tax Treatment of Regular Securities — Original Issue Discount,*” “*— Variable Rate Securities*” and “*— Interest Weighted Securities and Non-VRDI Securities*” in the Base Offering Circular.

The prepayment assumption that should be used in determining the rates of accrual of OID, if any, on the Regular Securities (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement) is as follows:

<u>Group(s)</u>	<u>PSA</u>
1 and 5	500%
2 and 6	250%
3 and 10	400%
4	200%
7	550%
8	135%
9	205%

In the case of the Floating Rate Classes, the interest rate values to be used for these determinations are the initial Interest Rates as set forth in the Terms Sheet under “Interest Rates.” No representation is made, however, about the rate at which prepayments on the Mortgage Loans underlying any Group of Trust Assets actually will occur or the level of 30-day Average SOFR at any time after the date of this Supplement. See “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular.

The Regular Securities generally will be treated as “regular interests” in a REMIC for domestic building and loan associations and “real estate assets” for real estate investment trusts (“REITs”) as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular. Similarly, interest on the Regular Securities will be considered “interest on obligations secured by mortgages on real property” for REITs as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular.

### **Residual Securities**

Each Class of Residual Securities will represent the beneficial ownership of the Residual Interest in the related Trust REMIC, as shown below:

<u>Residual Securities</u>	<u>Trust REMIC</u>
Class R Securities	Group 3, 6 and 9 REMIC
Class R1 Securities	Group 1 REMIC
Class R2 Securities	Group 2 REMIC
Class R4 Securities	Group 4 REMIC
Class R5 Securities	Group 5 REMIC
Class R7 Securities	Group 7 REMIC
Class R8 Securities	Group 8 REMIC
Class R10 Securities	Group 10 REMIC

The Residual Securities generally will be treated as “residual interests” in a REMIC for domestic building and loan associations and as “real estate assets” for REITs, as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular, but will not be treated as debt for United States federal income tax purposes. Instead, the Holders of the Residual Securities will be required to report, and will be taxed on, their pro rata shares of the taxable income or loss of the related Trust REMIC, and these requirements will continue until there are no outstanding regular interests in the respective Trust REMIC. Thus, Residual Holders will have taxable income attributable to the Residual Securities even though they will not receive principal or interest distributions with respect to the Residual Securities, which could result in a negative after-tax return for the Residual Holders. Even though the Holders of the Residual Securities are not entitled to any stated principal or interest payments on the Residual Securities, the related Trust REMIC may have substantial taxable income in certain periods, and offsetting tax losses may not occur until much later periods. Accordingly, the Holders of the Residual Securities may experience substantial adverse tax timing consequences. Prospective investors are urged to consult their own tax advisors and consider the after-tax effect of ownership of the Residual Securities and the suitability of the Residual Securities to their investment objectives.

Prospective Holders of Residual Securities should be aware that, at issuance, based on the expected prices of the Regular and Residual Securities and the prepayment assumption described above, the residual interests represented by the Residual Securities will be treated as “noneconomic residual interests” as that term is defined in Treasury regulations.

### **MX Securities**

For a discussion of certain United States federal income tax consequences applicable to the MX Classes, see “*Certain United States Federal Income Tax Consequences — Tax Treatment of MX Securities*”, “*— Exchanges of MX Classes and Regular Classes*” and “*— Taxation of Foreign Holders of REMIC Securities and MX Securities*” in the Base Offering Circular.

**Investors should consult their own tax advisors in determining the United States federal, state, local, foreign and any other tax consequences to them of the purchase, ownership and disposition of the Securities.**

#### **ERISA MATTERS**

Ginnie Mae guarantees distributions of principal and interest with respect to the Securities. The Ginnie Mae Guaranty is supported by the full faith and credit of the United States of America. The Regular and MX Securities will qualify as “guaranteed governmental mortgage pool certificates” within the meaning of a Department of Labor regulation, the effect of which is to provide that mortgage loans and participations therein underlying a “guaranteed governmental mortgage pool certificate” will not be considered assets of an employee benefit plan subject to the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), or subject to Section 4975 of the Code (each, a “Plan”), solely by reason of the Plan’s purchase and holding of that certificate.

**Prospective Plan Investors should consult with their advisors to determine whether the purchase, holding or resale of a Security could give rise to a transaction that is prohibited or is not otherwise permissible under either ERISA or the Code.**

Governmental plans and certain church plans, while not subject to the fiduciary responsibility provisions of ERISA or the prohibited transaction provisions of ERISA and the Code, may nevertheless be subject to local, state or other federal laws that are substantially similar to the foregoing provisions of ERISA and the Code (“Similar Law”).

Fiduciaries of any such Plans or governmental or church plans subject to Similar Law should consult with their counsel before purchasing any of the Securities.

*See “ERISA Considerations” in the Base Offering Circular.*

The Residual Securities are not offered to, and may not be transferred to, a Plan Investor.

#### **LEGAL INVESTMENT CONSIDERATIONS**

Institutions whose investment activities are subject to legal investment laws and regulations or to review by certain regulatory authorities may be subject to restrictions on investment in the Securities. **No representation is made about the proper characterization of any Class for legal investment or other purposes, or about the permissibility of the purchase by particular investors of any Class under applicable legal investment restrictions.**

**Investors should consult their own legal advisors regarding applicable investment restrictions and the effect of any restrictions on the liquidity of the Securities prior to investing in the Securities.**

*See “Legal Investment Considerations” in the Base Offering Circular.*

#### **PLAN OF DISTRIBUTION**

Subject to the terms and conditions of the Sponsor Agreement, the Sponsor has agreed to purchase all of the Securities if any are sold and purchased. The Sponsor proposes to offer the Regular and MX Classes to the public from time to time for sale in negotiated transactions at varying prices to be

determined at the time of sale, plus accrued interest from (1) July 1, 2024 on the Fixed Rate Classes and (2) July 20, 2024 on the Floating Rate and Inverse Floating Rate Classes. The Sponsor may effect these transactions by sales to or through certain securities dealers. These dealers may receive compensation in the form of discounts, concessions or commissions from the Sponsor and/or commissions from any purchasers for which they act as agents. Some of the Securities may be sold through dealers in relatively small sales. In the usual case, the commission charged on a relatively small sale of securities will be a higher percentage of the sales price than that charged on a large sale of securities.

#### **INCREASE IN SIZE**

Before the Closing Date, Ginnie Mae, the Trustee and the Sponsor may agree to increase the size of this offering. In that event, the Securities will have the same characteristics as described in this Supplement, except that (1) the Original Class Principal Balance (or original Class Notional Balance) and (2) the Scheduled Principal Balances or Aggregate Scheduled Principal Balances of each Class receiving principal distributions or interest distributions based upon a notional balance from the same Trust Asset Group will increase by the same proportion. The Trust Agreement, the Final Data Statement, the Final Schedules and the Supplemental Statement, if any, will reflect any increase in the size of the transaction.

#### **LEGAL MATTERS**

Certain legal matters will be passed upon for Ginnie Mae by Hunton Andrews Kurth LLP and d'Arcambal Ousley & Cuyler Burke LLP, for the Trust by Cleary Gottlieb Steen & Hamilton LLP and Marcell Solomon & Associates, P.C., and for the Trustee by Faegre Drinker Biddle & Reath LLP.

Schedule I

Available Combinations(1)

Class	REMIC Securities		MX Securities						
	Original Class Principal Balance	Related MX Class	Maximum Original Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)	
<b>Security Group 1</b>									
Combination 1									
LA	\$ 27,690,469	LT	\$ 30,000,000	PT	4.50%	FIX	38384QR59	July 2054	
LZ	2,309,531								
<b>Security Group 3</b>									
Combination 2									
AZ	\$ 1,755,217	ZC	\$ 10,359,451	SEQ	5.50%	FIX/Z	38384QR67	July 2054	
CZ	8,604,234								
Combination 3									
CA	\$114,640,549	CT	\$123,244,783	PT	5.50%	FIX	38384QR75	July 2054	
CZ	8,604,234								
Combination 4(5)									
CA	\$114,640,549	BA	\$114,640,549	SEQ/AD	4.50%	FIX	38384QR83	September 2050	
		BC	114,640,549	SEQ/AD	4.75	FIX	38384QR91	September 2050	
		BD	114,640,549	SEQ/AD	5.00	FIX	38384QS25	September 2050	
		BE	114,640,549	SEQ/AD	5.25	FIX	38384QS33	September 2050	
		BG	114,640,549	SEQ/AD	5.50	FIX	38384QS41	September 2050	
		BH	91,712,439	SEQ/AD	5.75	FIX	38384QS58	September 2050	
		BI	17,637,007	NTL(SEQ/AD)	6.50	FIX/IO	38384QS66	September 2050	
		BJ	76,427,032	SEQ/AD	6.00	FIX	38384QS74	September 2050	
<b>Security Group 9</b>									
Combination 5									
MC	\$ 32,172,135	MB	\$ 34,262,567	PAC I	5.00%	FIX	38384QS82	July 2054	
ML	2,090,432								

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- (1) All exchanges must comply with minimum denomination restrictions.
  - (2) The amount shown for each MX Class represents the maximum Original Class Principal Balance (or original Class Notional Balance) of that Class, assuming it were to be issued on the Closing Date.
  - (3) As defined under “Class Types” in Appendix I to the Base Offering Circular.
  - (4) See “*Yield, Maturity and Prepayment Considerations — Final Distribution Date*” in *this Supplement*.
  - (5) In the case of Combination 4, various subcombinations are permitted. See “Description of the Securities — Modification and Exchange” in the Base Offering Circular for a discussion of subcombinations.

**Schedule II**

**SCHEDULED PRINCIPAL BALANCES**

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and MI (in the aggregate)</u>	<u>Class MD</u>
Initial Balance .....	\$9,336,000.00	\$34,262,567.00	\$1,981,000.00
August 2024 .....	9,313,927.96	34,214,552.20	1,979,120.93
September 2024 .....	9,287,617.76	34,155,064.30	1,975,358.22
October 2024 .....	9,257,078.75	34,084,113.10	1,969,710.34
November 2024 .....	9,222,324.61	34,001,717.12	1,962,178.90
December 2024 .....	9,183,373.36	33,907,903.72	1,952,768.58
January 2025 .....	9,140,247.34	33,802,709.01	1,941,487.24
February 2025 .....	9,092,973.21	33,686,177.93	1,928,345.83
March 2025 .....	9,041,581.95	33,558,364.21	1,913,358.44
April 2025 .....	8,986,108.82	33,419,330.31	1,896,542.34
May 2025 .....	8,926,593.31	33,269,147.46	1,877,917.85
June 2025 .....	8,863,079.15	33,107,895.55	1,857,508.44
July 2025 .....	8,795,614.23	32,935,663.10	1,835,340.62
August 2025 .....	8,724,250.56	32,752,547.20	1,811,443.96
September 2025 .....	8,649,044.20	32,558,653.42	1,785,851.01
October 2025 .....	8,570,055.22	32,354,095.70	1,758,597.31
November 2025 .....	8,487,347.59	32,138,996.30	1,729,721.26
December 2025 .....	8,400,989.11	31,913,485.65	1,699,264.13
January 2026 .....	8,311,051.34	31,677,702.20	1,667,269.99
February 2026 .....	8,217,609.48	31,431,792.38	1,633,785.56
March 2026 .....	8,120,742.30	31,175,910.33	1,598,860.27
April 2026 .....	8,020,532.00	30,910,217.86	1,562,546.04
May 2026 .....	7,917,064.10	30,634,884.21	1,524,897.28
June 2026 .....	7,810,427.35	30,350,085.91	1,485,970.75
July 2026 .....	7,700,713.57	30,056,006.58	1,445,825.50
August 2026 .....	7,588,017.52	29,752,836.74	1,404,522.73
September 2026 .....	7,472,436.80	29,440,773.61	1,362,125.69
October 2026 .....	7,354,071.66	29,120,020.89	1,318,699.59
November 2026 .....	7,233,024.90	28,790,788.55	1,274,311.43
December 2026 .....	7,113,302.71	28,453,292.59	1,229,029.92
January 2027 .....	6,994,890.89	28,107,754.80	1,182,925.36
February 2027 .....	6,877,775.36	27,764,996.16	1,137,770.43
March 2027 .....	6,761,942.21	27,424,994.74	1,093,552.35
April 2027 .....	6,647,377.67	27,087,728.84	1,050,258.40
May 2027 .....	6,534,068.11	26,753,176.89	1,007,876.08
June 2027 .....	6,422,000.06	26,421,317.51	966,393.00
July 2027 .....	6,311,160.19	26,092,129.47	925,796.92
August 2027 .....	6,201,535.30	25,765,591.73	886,075.75
September 2027 .....	6,093,112.34	25,441,683.40	847,217.52
October 2027 .....	5,985,878.40	25,120,383.74	809,210.45
November 2027 .....	5,879,820.70	24,801,672.21	772,042.83
December 2027 .....	5,774,926.61	24,485,528.40	735,703.13
January 2028 .....	5,671,183.62	24,171,932.07	700,179.96
February 2028 .....	5,568,579.37	23,860,863.14	665,462.03



<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
March 2028	\$5,467,101.61	\$23,552,301.68	\$ 631,538.22
April 2028	5,366,738.23	23,246,227.94	598,397.50
May 2028	5,267,477.25	22,942,622.28	566,029.03
June 2028	5,169,306.83	22,641,465.26	534,422.02
July 2028	5,072,215.24	22,342,737.57	503,565.87
August 2028	4,976,190.88	22,046,420.05	473,450.08
September 2028	4,881,222.27	21,752,493.70	444,064.27
October 2028	4,787,298.06	21,460,939.66	415,398.20
November 2028	4,694,407.01	21,171,739.22	387,441.74
December 2028	4,602,538.02	20,884,873.83	360,184.86
January 2029	4,511,680.08	20,600,325.07	333,617.69
February 2029	4,421,822.31	20,318,074.66	307,730.45
March 2029	4,332,953.97	20,038,104.49	282,513.47
April 2029	4,245,064.39	19,760,396.55	257,957.23
May 2029	4,158,143.05	19,484,933.02	234,052.28
June 2029	4,072,179.53	19,211,696.17	210,789.32
July 2029	3,987,163.51	18,940,668.46	188,159.12
August 2029	3,903,084.80	18,671,832.44	166,152.61
September 2029	3,819,933.30	18,405,170.83	144,760.79
October 2029	3,737,699.03	18,140,666.47	123,974.78
November 2029	3,656,372.11	17,878,302.34	103,785.81
December 2029	3,575,942.78	17,618,061.56	84,185.19
January 2030	3,496,401.36	17,359,927.36	65,164.39
February 2030	3,417,738.29	17,103,883.13	46,714.91
March 2030	3,339,944.10	16,849,912.37	28,828.42
April 2030	3,263,009.44	16,597,998.71	11,496.65
May 2030	3,186,925.04	16,348,125.93	0.00
June 2030	3,111,681.75	16,100,277.90	0.00
July 2030	3,037,443.55	15,854,438.66	0.00
August 2030	2,964,947.70	15,610,592.34	0.00
September 2030	2,894,153.75	15,368,723.21	0.00
October 2030	2,825,022.18	15,128,815.66	0.00
November 2030	2,757,514.39	14,890,854.21	0.00
December 2030	2,691,592.68	14,654,823.49	0.00
January 2031	2,627,220.19	14,420,708.25	0.00
February 2031	2,564,360.93	14,188,493.38	0.00
March 2031	2,502,979.73	13,958,163.86	0.00
April 2031	2,443,042.25	13,729,704.81	0.00
May 2031	2,384,514.91	13,503,101.45	0.00
June 2031	2,327,364.93	13,278,339.13	0.00
July 2031	2,271,560.29	13,055,403.32	0.00
August 2031	2,217,069.67	12,834,279.57	0.00
September 2031	2,163,862.53	12,614,953.58	0.00
October 2031	2,111,908.97	12,397,411.15	0.00
November 2031	2,061,179.85	12,181,638.18	0.00
December 2031	2,011,646.63	11,967,620.70	0.00
January 2032	1,963,281.50	11,755,344.84	0.00
February 2032	1,916,057.23	11,544,796.84	0.00
March 2032	1,869,947.26	11,337,775.12	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
April 2032	\$1,824,925.62	\$11,134,335.08	\$ 0.00
May 2032	1,780,966.96	10,934,416.00	0.00
June 2032	1,738,046.50	10,737,958.19	0.00
July 2032	1,696,140.04	10,544,902.97	0.00
August 2032	1,655,223.93	10,355,192.62	0.00
September 2032	1,615,275.07	10,168,770.41	0.00
October 2032	1,576,270.91	9,985,580.53	0.00
November 2032	1,538,189.39	9,805,568.14	0.00
December 2032	1,501,009.00	9,628,679.30	0.00
January 2033	1,464,708.68	9,454,860.97	0.00
February 2033	1,429,267.91	9,284,061.01	0.00
March 2033	1,394,666.60	9,116,228.15	0.00
April 2033	1,360,885.14	8,951,311.97	0.00
May 2033	1,327,904.38	8,789,262.92	0.00
June 2033	1,295,705.61	8,630,032.25	0.00
July 2033	1,264,270.56	8,473,572.05	0.00
August 2033	1,233,581.36	8,319,835.20	0.00
September 2033	1,203,620.57	8,168,775.38	0.00
October 2033	1,174,371.16	8,020,347.05	0.00
November 2033	1,145,816.48	7,874,505.42	0.00
December 2033	1,117,940.28	7,731,206.47	0.00
January 2034	1,090,726.67	7,590,406.89	0.00
February 2034	1,064,160.14	7,452,064.13	0.00
March 2034	1,038,225.54	7,316,136.34	0.00
April 2034	1,012,908.06	7,182,582.37	0.00
May 2034	988,193.25	7,051,361.76	0.00
June 2034	964,066.98	6,922,434.74	0.00
July 2034	940,515.45	6,795,762.20	0.00
August 2034	917,525.19	6,671,305.69	0.00
September 2034	895,083.04	6,549,027.40	0.00
October 2034	873,176.13	6,428,890.17	0.00
November 2034	851,791.91	6,310,857.45	0.00
December 2034	830,918.10	6,194,893.30	0.00
January 2035	810,542.73	6,080,962.41	0.00
February 2035	790,654.09	5,969,030.05	0.00
March 2035	771,240.74	5,859,062.05	0.00
April 2035	752,291.52	5,751,024.86	0.00
May 2035	733,795.52	5,644,885.47	0.00
June 2035	715,742.08	5,540,611.41	0.00
July 2035	698,120.80	5,438,170.79	0.00
August 2035	680,921.50	5,337,532.23	0.00
September 2035	664,134.27	5,238,664.90	0.00
October 2035	647,749.39	5,141,538.47	0.00
November 2035	631,757.41	5,046,123.13	0.00
December 2035	616,149.07	4,952,389.58	0.00
January 2036	600,915.32	4,860,308.99	0.00
February 2036	586,047.35	4,769,853.05	0.00
March 2036	571,536.53	4,680,993.89	0.00
April 2036	557,374.44	4,593,704.13	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
May 2036 . . . . .	\$ 543,552.85	\$ 4,507,956.86	\$ 0.00
June 2036 . . . . .	530,063.74	4,423,725.61	0.00
July 2036 . . . . .	516,899.26	4,340,984.35	0.00
August 2036 . . . . .	504,051.74	4,259,707.51	0.00
September 2036 . . . . .	491,513.70	4,179,869.93	0.00
October 2036 . . . . .	479,277.83	4,101,446.90	0.00
November 2036 . . . . .	467,336.99	4,024,414.09	0.00
December 2036 . . . . .	455,684.21	3,948,747.63	0.00
January 2037 . . . . .	444,312.67	3,874,424.00	0.00
February 2037 . . . . .	433,215.73	3,801,420.12	0.00
March 2037 . . . . .	422,386.89	3,729,713.27	0.00
April 2037 . . . . .	411,819.80	3,659,281.14	0.00
May 2037 . . . . .	401,508.26	3,590,101.77	0.00
June 2037 . . . . .	391,446.24	3,522,153.59	0.00
July 2037 . . . . .	381,627.80	3,455,415.39	0.00
August 2037 . . . . .	372,047.19	3,389,866.33	0.00
September 2037 . . . . .	362,698.76	3,325,485.88	0.00
October 2037 . . . . .	353,577.01	3,262,253.92	0.00
November 2037 . . . . .	344,676.56	3,200,150.62	0.00
December 2037 . . . . .	335,992.16	3,139,156.50	0.00
January 2038 . . . . .	327,518.69	3,079,252.43	0.00
February 2038 . . . . .	319,251.12	3,020,419.57	0.00
March 2038 . . . . .	311,184.57	2,962,639.42	0.00
April 2038 . . . . .	303,314.27	2,905,893.80	0.00
May 2038 . . . . .	295,635.54	2,850,164.81	0.00
June 2038 . . . . .	288,143.84	2,795,434.88	0.00
July 2038 . . . . .	280,834.71	2,741,686.73	0.00
August 2038 . . . . .	273,703.81	2,688,903.37	0.00
September 2038 . . . . .	266,746.89	2,637,068.09	0.00
October 2038 . . . . .	259,959.81	2,586,164.49	0.00
November 2038 . . . . .	253,338.53	2,536,176.41	0.00
December 2038 . . . . .	246,879.09	2,487,087.99	0.00
January 2039 . . . . .	240,577.64	2,438,883.64	0.00
February 2039 . . . . .	234,430.40	2,391,548.03	0.00
March 2039 . . . . .	228,433.69	2,345,066.08	0.00
April 2039 . . . . .	222,583.93	2,299,422.98	0.00
May 2039 . . . . .	216,877.60	2,254,604.16	0.00
June 2039 . . . . .	211,311.27	2,210,595.30	0.00
July 2039 . . . . .	205,881.60	2,167,382.34	0.00
August 2039 . . . . .	200,585.33	2,124,951.44	0.00
September 2039 . . . . .	195,419.25	2,083,288.99	0.00
October 2039 . . . . .	190,380.26	2,042,381.64	0.00
November 2039 . . . . .	185,465.31	2,002,216.23	0.00
December 2039 . . . . .	180,671.43	1,962,779.86	0.00
January 2040 . . . . .	175,995.72	1,924,059.82	0.00
February 2040 . . . . .	171,435.35	1,886,043.63	0.00
March 2040 . . . . .	166,987.54	1,848,719.03	0.00
April 2040 . . . . .	162,649.61	1,812,073.96	0.00
May 2040 . . . . .	158,418.91	1,776,096.55	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
June 2040	\$ 154,292.87	\$ 1,740,775.15	\$ 0.00
July 2040	150,268.97	1,706,098.32	0.00
August 2040	146,344.76	1,672,054.79	0.00
September 2040	142,517.84	1,638,633.50	0.00
October 2040	138,785.86	1,605,823.56	0.00
November 2040	135,146.56	1,573,614.28	0.00
December 2040	131,597.68	1,541,995.16	0.00
January 2041	128,137.06	1,510,955.86	0.00
February 2041	124,762.57	1,480,486.22	0.00
March 2041	121,472.12	1,450,576.27	0.00
April 2041	118,263.70	1,421,216.19	0.00
May 2041	115,135.32	1,392,396.34	0.00
June 2041	112,085.04	1,364,107.24	0.00
July 2041	109,110.99	1,336,339.57	0.00
August 2041	106,211.31	1,309,084.18	0.00
September 2041	103,384.22	1,282,332.06	0.00
October 2041	100,627.94	1,256,074.37	0.00
November 2041	97,940.78	1,230,302.41	0.00
December 2041	95,321.04	1,205,007.64	0.00
January 2042	92,767.11	1,180,181.65	0.00
February 2042	90,277.38	1,155,816.18	0.00
March 2042	87,850.29	1,131,903.13	0.00
April 2042	85,484.33	1,108,434.51	0.00
May 2042	83,178.01	1,085,402.49	0.00
June 2042	80,929.87	1,062,799.36	0.00
July 2042	78,738.51	1,040,617.54	0.00
August 2042	76,602.55	1,018,849.60	0.00
September 2042	74,520.62	997,488.22	0.00
October 2042	72,491.43	976,526.20	0.00
November 2042	70,513.68	955,956.48	0.00
December 2042	68,586.11	935,772.12	0.00
January 2043	66,707.51	915,966.29	0.00
February 2043	64,876.67	896,532.28	0.00
March 2043	63,092.44	877,463.50	0.00
April 2043	61,353.67	858,753.46	0.00
May 2043	59,659.24	840,395.80	0.00
June 2043	58,008.08	822,384.27	0.00
July 2043	56,399.12	804,712.70	0.00
August 2043	54,831.33	787,375.05	0.00
September 2043	53,303.70	770,365.38	0.00
October 2043	51,815.24	753,677.86	0.00
November 2043	50,365.00	737,306.74	0.00
December 2043	48,952.02	721,246.38	0.00
January 2044	47,575.41	705,491.25	0.00
February 2044	46,234.25	690,035.89	0.00
March 2044	44,927.69	674,874.95	0.00
April 2044	43,654.85	660,003.18	0.00
May 2044	42,414.93	645,415.40	0.00
June 2044	41,207.10	631,106.53	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
July 2044	\$ 40,030.56	\$ 617,071.58	\$ 0.00
August 2044	38,884.56	603,305.65	0.00
September 2044	37,768.32	589,803.91	0.00
October 2044	36,681.12	576,561.62	0.00
November 2044	35,622.24	563,574.14	0.00
December 2044	34,590.97	550,836.87	0.00
January 2045	33,586.63	538,345.34	0.00
February 2045	32,608.55	526,095.11	0.00
March 2045	31,656.08	514,081.85	0.00
April 2045	30,728.59	502,301.29	0.00
May 2045	29,825.44	490,749.24	0.00
June 2045	28,946.04	479,421.58	0.00
July 2045	28,089.79	468,314.26	0.00
August 2045	27,256.12	457,423.30	0.00
September 2045	26,444.46	446,744.79	0.00
October 2045	25,654.27	436,274.90	0.00
November 2045	24,885.00	426,009.84	0.00
December 2045	24,136.13	415,945.92	0.00
January 2046	23,407.16	406,079.48	0.00
February 2046	22,697.58	396,406.95	0.00
March 2046	22,006.91	386,924.80	0.00
April 2046	21,334.67	377,629.58	0.00
May 2046	20,680.40	368,517.89	0.00
June 2046	20,043.64	359,586.40	0.00
July 2046	19,423.97	350,831.82	0.00
August 2046	18,820.93	342,250.94	0.00
September 2046	18,234.13	333,840.58	0.00
October 2046	17,663.14	325,597.64	0.00
November 2046	17,107.57	317,519.06	0.00
December 2046	16,567.03	309,601.83	0.00
January 2047	16,041.14	301,843.01	0.00
February 2047	15,529.52	294,239.70	0.00
March 2047	15,031.82	286,789.04	0.00
April 2047	14,547.67	279,488.25	0.00
May 2047	14,076.75	272,334.57	0.00
June 2047	13,618.70	265,325.30	0.00
July 2047	13,173.20	258,457.78	0.00
August 2047	12,739.94	251,729.41	0.00
September 2047	12,318.60	245,137.63	0.00
October 2047	11,908.87	238,679.92	0.00
November 2047	11,510.46	232,353.80	0.00
December 2047	11,123.08	226,156.86	0.00
January 2048	10,746.45	220,086.69	0.00
February 2048	10,380.29	214,140.97	0.00
March 2048	10,024.32	208,317.38	0.00
April 2048	9,678.30	202,613.66	0.00
May 2048	9,341.96	197,027.59	0.00
June 2048	9,015.06	191,556.99	0.00
July 2048	8,697.34	186,199.71	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
August 2048	\$ 8,388.58	\$ 180,953.64	\$ 0.00
September 2048	8,088.54	175,816.72	0.00
October 2048	7,797.00	170,786.90	0.00
November 2048	7,513.73	165,862.20	0.00
December 2048	7,238.52	161,040.65	0.00
January 2049	6,971.17	156,320.32	0.00
February 2049	6,711.46	151,699.31	0.00
March 2049	6,459.19	147,175.78	0.00
April 2049	6,214.18	142,747.89	0.00
May 2049	5,976.24	138,413.85	0.00
June 2049	5,745.17	134,171.89	0.00
July 2049	5,520.80	130,020.28	0.00
August 2049	5,302.95	125,957.32	0.00
September 2049	5,091.46	121,981.35	0.00
October 2049	4,886.15	118,090.71	0.00
November 2049	4,686.86	114,283.81	0.00
December 2049	4,493.44	110,559.05	0.00
January 2050	4,305.72	106,914.88	0.00
February 2050	4,123.56	103,349.77	0.00
March 2050	3,946.81	99,862.22	0.00
April 2050	3,775.32	96,450.77	0.00
May 2050	3,608.96	93,113.95	0.00
June 2050	3,447.59	89,850.36	0.00
July 2050	3,291.08	86,658.59	0.00
August 2050	3,139.30	83,537.28	0.00
September 2050	2,992.11	80,485.08	0.00
October 2050	2,849.40	77,500.66	0.00
November 2050	2,711.05	74,582.73	0.00
December 2050	2,576.94	71,730.01	0.00
January 2051	2,446.95	68,941.25	0.00
February 2051	2,320.98	66,215.22	0.00
March 2051	2,198.92	63,550.71	0.00
April 2051	2,080.65	60,946.54	0.00
May 2051	1,966.08	58,401.54	0.00
June 2051	1,855.11	55,914.56	0.00
July 2051	1,747.64	53,484.49	0.00
August 2051	1,643.57	51,110.22	0.00
September 2051	1,542.81	48,790.67	0.00
October 2051	1,445.27	46,524.77	0.00
November 2051	1,350.87	44,311.48	0.00
December 2051	1,259.51	42,149.77	0.00
January 2052	1,171.11	40,038.64	0.00
February 2052	1,085.59	37,977.09	0.00
March 2052	1,002.87	35,964.16	0.00
April 2052	922.87	33,998.90	0.00
May 2052	845.52	32,080.36	0.00
June 2052	770.75	30,207.63	0.00
July 2052	698.47	28,379.81	0.00
August 2052	628.63	26,596.00	0.00

<u>Distribution Date</u>	<u>Class NB</u>	<u>Classes MC and ML (in the aggregate)</u>	<u>Class MD</u>
September 2052 .....	\$ 561.15	\$ 24,855.34	\$ 0.00
October 2052 .....	495.97	23,156.98	0.00
November 2052 .....	433.02	21,500.08	0.00
December 2052 .....	372.24	19,883.81	0.00
January 2053 .....	313.57	18,307.36	0.00
February 2053 .....	256.95	16,769.95	0.00
March 2053 .....	202.32	15,270.79	0.00
April 2053 .....	149.62	13,809.11	0.00
May 2053 .....	98.80	12,384.18	0.00
June 2053 .....	49.81	10,995.24	0.00
July 2053 .....	2.59	9,641.58	0.00
August 2053 .....	0.00	8,322.49	0.00
September 2053 .....	0.00	7,037.26	0.00
October 2053 .....	0.00	5,785.22	0.00
November 2053 .....	0.00	4,565.69	0.00
December 2053 .....	0.00	3,378.02	0.00
January 2054 .....	0.00	2,221.55	0.00
February 2054 .....	0.00	1,095.65	0.00
March 2054 and thereafter .....	0.00	0.00	0.00



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**July 24, 2024**

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