

Commonwealth of Kentucky Finance and Administration Cabinet

Andy Beshear Governor

OFFICE OF FINANCIAL MANAGEMENT

Room 76, Capitol Annex 702 Capital Avenue Frankfort, KY 40601-3462 (502) 564-2924 Holly M. Johnson Secretary

Ryan Barrow
Executive Director

October 7, 2021

Jim Gray
Secretary
Kentucky Transportation Cabinet
Chairperson
Kentucky Public Transportation Infrastructure Authority
200 Mero St.
Frankfort, KY 40622

Dear Secretary Gray:

Pursuant to KRS 42.420, the Office of Financial Management is required to review and approve the issuance of debt by all state agencies. The attached constitutes the review and approval of the \$185,300,000 Kentucky Public Transportation Infrastructure Authority First Tier Toll Revenue Refinancing Bonds, Series 2021 (Downtown Crossing Project) dated October 7th, 2021.

Sincerely,

Ryan Barrow Executive Director

Office of Financial Management

Attachments



OFM APPROVAL PURSUANT TO KRS 42.420

Kentucky Public Transportation Authority \$185,300,000

First Tier Toll Revenue Refunding Bonds, Series 2021 A & B

DESCRIPTION:

The 2021 Series A Bond will refund all or a portion of the outstanding Kentucky Public Transportation Infrastructure Authority First Tier Toll Revenue Bonds, 2013 Series A and First Tier Toll Revenue Bonds, 2013 Series B. The 2021 Series B Bonds will be exchanged for certain maturities of the Authority's outstanding bonds tendered by the holders thereof pursuant to the Authority's offer to tender or exchange certain bonds and pay the associated cost of issuance.

BOND SUMMARY STATISTICS:

Par Amount:	\$185,300,000.00
Pricing Date:	September 16, 2021
Closing Date:	October 7, 2021
Dated Date:	October 7, 2021
Final Maturity:	July 7, 2053
Average Annual Debt Service:	\$10,932,131.43
Total Debt Service:	\$346,912,970.64
Average Life (years):	26.321
Arbitrage Yield:	2.673%
TIC:	3.332%
NIC:	3.226%
All-In TIC:	3.484%
Benchmark (BBWK20GO September 16, 2021):	2.14%

RATINGS:

Moody's	Baa2
Fitch	BBB

SOURCES AND USES OF FUNDS:

	Series 2021 A & B
SOURCES OF FUNDS:	
Par amount of bonds:	185,300,000.00
Plus Premium	5,064,180.20
First Tier DSRF Release For Refin.	8,740,510.64
DSF Release	2,746,523.34
First Tier DSRF Release Iss. Cost	6,828,821.57
First Tier DSRF Release Odd-Lot	19,596.62
First Tier DSRF Release Purchase	1,360,249.72
First Tier DSRF Release Tolling Exp	10,622,554.19
TOTAL SOURCES	220,682,436.28
USES OF FUNDS:	
Cash Deposit	43,110,722.07
Open Market Purchases	159,520,691.18
Cost of Issuance*	1,494,432.59
Upfront Bond Insurance Premium	4,405,897.28
Surety Premium: Unref 2013 B & C	460,888.25
Surety Premium: Series 2021	472,077.43
Odd-Lot Purchase Price	19,596.62
Accrued Int due for Bond Purchase	575,576.67
First Tier DSRF Release Tolling Exp	10,622,554.19
TOTAL USES	220,682,436.28
* Includes underwriter's discount, legal, printing, rating agency fer issuance and offering of the Bonds.	es, and other expenses of the
REFUNDING:	150 556 514 05
Par Amount of Refunded Bonds: Net PV Savings:	179,576,514.95
% Savings of Refunded Bonds:	58,532,063.82 32.095%
Method of Sale:	
Bond Counsel:	Negotiated
Underwriter:	Dinsmore & Shohl, LLP
Underwriters' Counsel:	Citigroup Nixon Peabody
Trustee:	BNY Mellon Trust Co.
Financial Advisor:	PFM & OFM
	11112 00 1111
Final Cashflows as of September 30, 2021	

Pursuant to KRS Chapter 45, the Issuer is providing information on all costs associated, either directly or indirectly, with this bond issuance. Costs are actual or estimated as of the date of closing of the issue.

PROFESSIONAL SERVICES:

Service	Fee
Bond Counsel	\$ 35,207.00
Financial Advisor	170,000.00
T&R Consultant	58,357.50
HNTB	64,845.50
Moody's	110,000.00
Fitch	35,000.00
Trustee	1,500.00
Insurance (S&P)	85,000.00
Escrow Services	35,000.00
Verification Agent	1,400.00
OFM Fee	46,325.00
Misc./Contingency	38,148.99
BondLink	13,856.00
TOTAL	\$ 694,639.99

GROSS SPREAD/UNDERWRITER'S DISCOUNT:

	Per Bond	Total
Average Takedown	3.66187	\$ 678,543.75
DAC	0.00270	500.00
Dayloan	0.01421	2,632.86
CUSIP	0.00421	780.50
DTC Elgibility Fee	0.00432	800.00
IPREO	0.10118	18,748.86
Underwriter's Counsel	0.10450	19,363.85
Tender Fee	0.29910	55,422.78
Tender Expenses	0.12412	23,000.00
TOTAL	4.31621	\$ 799,792.60

COST OF ISSUANCE GRAND TOTAL:

\$ 1,494,432.59

In the opinion of Bond Counsel, based upon an analysis of laws, regulations, rulings and court decisions, interest on the Series 2021A Bonds is includible in gross income of the holders thereof for Federal income tax purposes. In the opinion of Bond Counsel, based upon an analysis of laws, regulations, rulings and judicial decisions, and assuming continuing compliance with certain covenants made by the Authority, and subject to the conditions and limitations set forth herein under the caption "TAX MATTERS," interest on the Series 2021B Bonds is excludible from gross income for Federal income tax purposes and is not a specific item of tax preference for Federal income tax purposes. Bond Counsel is also of the opinion that interest on the Series 2021 Bonds is exempt from Kentucky income tax and the Series 2021 Bonds are exempt from advalorem taxation by the Commonwealth of Kentucky and any of its political subdivisions.

Kentucky Public Transportation

KENTUCKY PUBLIC TRANSPORTATION INFRASTRUCTURE AUTHORITY

\$185,300,000

First Tier Toll Revenue Refunding Bonds, Series 2021 (Downtown Crossing Project) consisting of

\$150,740,000

First Tier Toll Revenue Refunding Bonds,
Series 2021A (Federally Taxable)

\$34,560,000*
First Tier Toll Revenue Refunding Bonds,
Series 2021B (Tax-Exempt)

Dated: Date of Delivery

Due: Shown on the inside cover page

The First Tier Toll Revenue Refunding Bonds, Series 2021A (Downtown Crossing Project) (Federally Taxable) (the "Series 2021A Bonds") and First Tier Toll Revenue Refunding Bonds, Series 2021B (Downtown Crossing Project) (Tax-Exempt) (the "Series 2021B Bonds", and together with the Series 2021A Bonds, the "Series 2021 Bonds") will be issued under the General Trust Indenture, dated as of December 1, 2013, as amended as herein described (the "General Indenture"), a series trust indenture relating to the Series 2021A Bonds (the "Series 2021A Trust Indenture") and a series trust indenture relating to the Series 2021B Bonds (the "Series 2021B Trust Indenture"), and together with the Series 2021A Trust Indenture, the "Series 2021 Trust Indentures"), each by and between the Kentucky Public Transportation Infrastructure Authority (the "Authority") and The Bank of New York Mellon Trust Company, N.A., as the trustee (the "Trustee"). The General Indenture and the Series 2021 Trust Indentures are collectively referred to herein as the "Indenture."

The proceeds of the Series 2021A Bonds, together with certain other available amounts as described herein, are expected to be used to (i) refund certain of the Authority's outstanding bonds, (ii) pay a portion of the purchase price of a Credit Facility (as defined herein) to be deposited in the First Tier Common Debt Service Reserve Account as herein described and (iii) pay the costs of issuance of the Series 2021 Bonds, including payment of the initial premium for the Insurance Policy described below. The Series 2021B Bonds will be exchanged for certain maturities of the Authority's outstanding bonds tendered by the holders thereof pursuant to the Authority's Offer to Tender or Exchange Certain Bonds (as more fully described herein).

The Series 2021 Bonds will be issued as current interest bonds and offered in authorized denominations of \$5,000 or integral multiples thereof. Interest on the Series 2021 Bonds will accrue from their date of issuance and be paid semi-annually on each January 1 and July 1, commencing January 1, 2022.

The Series 2021 Bonds will be issued as fully registered bonds, registered in the name of Cede & Co., as nominee of The Depository Trust Company, New York, New York ("DTC"), to which payments of principal and interest will be made. Purchasers will acquire beneficial interests in the Series 2021 Bonds in book-entry form only. DTC will remit such payments to its participants who will be responsible for remittance to beneficial owners. See "THE SERIES 2021 BONDS—Book-Entry Only System and Global Clearance Procedures."

Except to the extent payable from the proceeds of a Series of Bonds and any other moneys available for such payment, the Series 2021 Bonds and any additional First Tier Bonds currently outstanding and hereafter issued by the Authority under the General Indenture are payable from, and secured by a first pledge of, the Trust Estate, as more fully described herein, which includes the Pledged Receipts, as more fully described herein. The Authority's 50% share of the toll revenues derived from the System ("Authority Toll Revenues") constitute the principal portion of the "Pledged Receipts."

The Series 2021 Bonds will not be subject to acceleration upon an event of default or otherwise. The Series 2021 Bonds are subject to redemption prior to maturity, as more fully described herein. See "THE SERIES 2021 BONDS - Redemption Provisions."

The scheduled payment of principal of and interest on the Series 2021 Bonds when due will be guaranteed under a municipal bond insurance policy (the "Insurance Policy") to be issued concurrently with the delivery of the Series 2021 Bonds by Assured Guaranty Municipal Corp. (the "Insurer" or "AGM"). See "THE SERIES 2021 BONDS – Bond Insurance" herein and "APPENDIX K – "Information Relating to Assured Guaranty Municipal Corp. and Form of Policy".



As more fully described herein, the Transportation Cabinet has, under the Lease (as defined herein), agreed to request appropriations from the General Assembly of the Commonwealth to make certain rent payments to fund certain deficiencies in the Tolling O&M Reserve Fund, the General O&M Reserve Fund and the M&R Reserve Fund under the Indenture. The General Assembly of the Commonwealth is not obligated to make such appropriations.

The Series 2021 Bonds shall not constitute a debt of the Commonwealth of Kentucky (the "Commonwealth") or any of its political subdivisions, or a pledge of the faith and credit of the Commonwealth or any of its political subdivisions. Neither the Commonwealth nor the Authority shall be obligated to pay the Series 2021 Bonds or the interest thereon, other than from the Trust Estate pledged therefor, and neither the faith and credit nor the taxing power of the Commonwealth is pledged to the payment of the principal of or the interest on the Series 2021 Bonds.

By acceptance of a confirmation of purchase of the Series 2021 Bonds, each Beneficial Owner will be deemed to have approved and agreed to the amendment of the General Indenture and Prior Series Indenture described herein. See "AMENDMENTS OF THE GENERAL INDENTURE AND PRIOR SERIES INDENTURE."

The Series 2021 Bonds are offered when, as and if issued and received by the Underwriters. Legal matters with respect to the issuance of the Series 2021 Bonds are subject to the approval of Bond Counsel to the Authority, Dinsmore & Shohl LLP, Covington, Kentucky. Certain legal matters will be passed upon for the Authority by its counsel, Wyatt, Tarrant & Combs, LLP, Louisville, Kentucky, and for the Underwriters by their counsel, Nixon Peabody LLP, New York, New York. It is expected that the Series 2021 Bonds will be available for delivery in book-entry form only through the facilities of DTC in New York, New York, on or about October 7, 2021.

This cover page contains certain information for quick reference only. It is not a summary of this Official Statement. Investors must read the entire Official Statement, including the Appendices hereto, to obtain information essential to making an informed investment decision, paying particular attention to the matters discussed in the section entitled "INVESTMENT CONSIDERATIONS."

Citigroup

Morgan Stanley

FHN Financial Capital Markets

Raymond James

First Kentucky

J.P. Morgan

PNC Capital Markets

R.W. Baird

September 17, 2021

^{*}Not reoffered. For exchange only. See "PLAN OF FINANCE - Invitation to Tender and Exchange".

\$185,300,000 KENTUCKY PUBLIC TRANSPORTATION INFRASTRUCTURE AUTHORITY First Tier Toll Revenue Refunding Bonds, Series 2021 (Downtown Crossing Project)

consisting of

\$150,740,000 First Tier Toll Revenue Refunding Bonds Series 2021A (Federally Taxable)

\$8,705,000 1.150% Term Bonds due July 1, 2027, Price 100%, CUSIP No.[†] 491397BB0 \$6,080,000 1.700% Term Bonds due July 1, 2033, Price 100%, CUSIP No.[†] 491397BC8 \$2,535,000 3.001% Term Bonds due July 1, 2039, Price 100%, CUSIP No.[†] 491397BD6 \$69,260,000 3.121% Term Bonds due July 1, 2049, Price 100%, CUSIP No.[†] 491397BE4 \$64,160,000 3.221% Term Bonds due July 1, 2053, Price 100%, CUSIP No.[†] 491397BF1

\$ 34,560,000° First Tier Toll Revenue Refunding Bonds Series 2021B (Tax-Exempt)

\$9,890,000 4.00% Term Bonds due July 1, 2049, Yield 2.26%,** CUSIP No.† 491397AZ8 \$24,670,000 4.00% Term Bonds due July 1, 2053, Yield 2.33%,** CUSIP No.† 491397BA2

^{*} Not reoffered. For exchange only. See "PLAN OF FINANCE - Invitation to Tender and Exchange".

^{**} Priced to the July 1, 2031 optional redemption date at a redemption price of 100%.

[†] Copyright, American Bankers Association. CUSIP data herein is provided by Standard & Poor's CUSIP Service Bureau, a division of The McGraw-Hill Companies, Inc. The CUSIP numbers listed above are being provided solely for the convenience of holders only at the time of issuance of the Series 2021 Bonds and the Authority and the Underwriters do not make any representation with respect to such numbers or undertake any responsibility for their accuracy now or at any time in the future. The CUSIP number for a specific maturity is subject to being changed after the issuance of the Series 2021 Bonds as a result of various subsequent actions including, but not limited to, a refunding in whole or in part of such maturity or as a result of the procurement of secondary market portfolio insurance or other similar enhancement by investors that is applicable to all or a portion of certain maturities of the Series 2021 Bonds.

BOND DEBT SERVICE BREAKDOWN

Kentucky Public Transportation Infrastructure Authority Series 2021 Refinancing (Downtown Crossing Project) **FINAL PRICING NUMBERS w/ Revised COI Breakdown**

Insured Reported by Series

Annu: Tot	Total	First Tier Debt Service Reserve Fund Release for Tolling Expenses	First Tier Toll Revenue Refunding Bonds, Series 2021B (Tax-Exempt)	First Tier Toll Revenue Refunding Bonds, Series 2021A (Federally Taxable)	Date
	1 274 200 20		222.550	1.051.906.25	01/01/2022
6 210 426 7	1,374,366.25 4,945,070.53		322,560 691,200	1,051,806.25 4,253,870.53	07/01/2022
6,319,436.7	2,933,570.53		691,200	2,242,370.53	01/01/2023
6,077,141.0	3,143,570.53		691,200	2,452,370.53	07/01/2023
0,017,242,0	2,932,363.03		691,200	2,241,163.03	01/01/2024
6,079,726.0	3,147,363.03		691,200	2,456,163.03	07/01/2024
	2,931,126.78		691,200	2,239,926.78	01/01/2025
6,077,253.5	3,146,126.78		691,200	2,454,926.78	07/01/2025
	2,929,890.53		691,200	2,238,690.53	01/01/2026
8,314,781.0	5,384,890.53		691,200	4,693,690.53	07/01/2026
	2,915,774.28		691,200	2,224,574.28	01/01/2027
9,441,548.5	6,525,774.28		691,200	5,834,574.28	07/01/2027
	2,895,016.78		691,200	2,203,816.78	01/01/2028
10,010,033.5	7,115,016.78		691,200	6,423,816.78 2,167,946.78	07/01/2028 01/01/2029
C 070 202 C	2,859,146.78		691,200 691,200	2,527,946.78	07/01/2029
6,078,293.5	3,219,146.78		691,200	2,164,886.78	01/01/2030
6 077 172 5	2,856,086.78 3,221,086.78		691,200	2,529,886.78	07/01/2030
6,077,173.5	2,852,984.28		691,200	2,161,784.28	01/01/2031
6,075,968.5	3,222,984.28		691,200	2,531,784.28	07/01/2031
0,073,300,3	2,849,839.28		691,200	2,158,639.28	01/01/2032
6,079,678.5	3,229,839,28		691,200	2,538,639.28	07/01/2032
-,,	2,846,609.28		691,200	2,155,409.28	01/01/2033
6,078,218.5	3,231,609.28		691,200	2,540,409.28	07/01/2033
	2,843,336.78		691,200	2,152,136.78	01/01/2034
6,076,673.5	3,233,336.78		691,200	2,542,136.78	07/01/2034
	2,837,484.83		691,200	2,146,284.83	01/01/2035
6,079,969.6	3,242,484.83		691,200	2,551,284.83	07/01/2035
	2,831,407.80		691,200	2,140,207.80	01/01/2036
6,077,815.6	3,246,407.80		691,200	2,555,207.80	07/01/2036
	2,825,180.73		691,200	2,133,980,73	01/01/2037
6,080,361.4	3,255,180.73		691,200 691,200	2,563,980.73 2,127,528.58	07/01/2037 01/01/2038
£ 077 4E7 1	2,818,728.58		691,200	2,567,528.58	07/01/2038
6,077,457.1	3,258,728.58 2,812,126.38		691,200	2,120,926.38	01/01/2039
6,079,252.7	3,267,126.38		691,200	2,575,926.38	07/01/2039
0,013,232,1	2,805,299.10		691,200	2,114,099.10	01/01/2040
6,080,598.2	3,275,299.10		691,200	2,584,099.10	07/01/2040
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,797,964.75		691,200	2,106,764.75	01/01/2041
6,075,929.5	3,277,964.75		691,200	2,586,764.75	07/01/2041
	2,790,474.35		691,200	2,099,274.35	01/01/2042
6,075,948.7	3,285,474.35		691,200	2,594,274.35	07/01/2042
	2,782,749.88		691,200	2,091,549.88	01/01/2043
6,080,499.7	3,297,749.88		691,200	2,606,549.88	07/01/2043
	2,774,713.30		691,200	2,083,513.30	01/01/2044
6,079,426.6	3,304,713.30		691,200	2,613,513.30	07/01/2044 01/01/2045
	2,766,442.65		691,200	2,075,242.65	
6,077,885.3	3,311,442.65		691,200	2,620,242.65 2,066,737.93	07/01/2045 01/01/2046
22 705 975 9	2,757,937.93		691,200 2,856,200	17,181,737.93	07/01/2046
22,795,875.8	20,037,937.93 2,478,768.35		647,900	1,830,868.35	01/01/2047
23,902,536.7	21,423,768.35		3,077,900	18,345,868.35	07/01/2047
25,502,550,7	2,172,451.78		599,300	1,573,151.78	01/01/2048
23,954,903.5	21,782,451.78		3,174,300	18,608,151.78	07/01/2048
	1,855,120.60		547,800	1,307,320.60	01/01/2049
23,990,241.2	22,135,120.60		3,267,800	18,867,320.60	07/01/2049
	1,526,696.80		493,400	1,033,296.80	01/01/2050
23,968,393.6	22,441,696.80		6,128,400	16,313,296.80	07/01/2050
	1,167,912.40		380,700	787,212.40	01/01/2051
24,085,824.8	22,917,912.40		6,355,700	16,562,212.40	07/01/2051
	794,356.03		261,200	533,156.03	01/01/2052
24,218,712.0	23,424,356.03		6,601,200	16,823,156.03	07/01/2052
78 245 411 1	405,205.58 23,940,205.58		134,400 6,854,400	270,805.58 17,085,805.58	01/01/2053 07/01/2053
24,345,411.1	23,340,203.38		0,034,400	21,000,000	/ 42/ 2033

SUMMARY OF BONDS REFUNDED

Kentucky Public Transportation Infrastructure Authority Series 2021 Refinancing (Downtown Crossing Project) **FINAL PRICING NUMBERS**

Insured Reported by Component

	Maturity	Interest	Par	Value on	Value at	Call	Cal
Bond	Date	Rate	Amount	Oct 7, 2021	Redemption	Date	Price
Series 2013A (Curr	ent Interest Bonds) - T	ender Call, CIB	49:				
	07/01/2046	5.750%	2,320,000.00	2,320,000.00	2,320,000.00	10/07/2021	109.750
	07/01/2047	5.750%	2,600,000.00	2,600,000.00	2,600,000.00	10/07/2021	109.750
	07/01/2048	5.750%	2,755,000.00	2,755,000.00	2,755,000.00	10/07/2021	109.750
	07/01/2049	5.750%	2,920,000.00	2,920,000.00	2,920,000.00	10/07/2021	109.750
			10,595,000.00	10,595,000.00	10,595,000.00		
Series 2013A (Curr	ent Interest Bonds) - T	ender Call, CIB	53:				
	07/01/2050	6.000%	5,900,000.00	5,900,000.00	5,900,000.00	10/07/2021	110.250
	07/01/2051	6.000%	6,250,000.00	6,250,000.00	6,250,000.00	10/07/2021	110.250
	07/01/2052	6.000%	6,640,000.00	6,640,000.00	6,640,000.00	10/07/2021	110.250
	07/01/2053	6.000%	7,030,000.00	7,030,000.00	7,030,000.00	10/07/2021	110.250
			25,820,000.00	25,820,000.00	25,820,000.00		
Series 2013B (Capit	al Appreciation Bond	s) - Tender Call.	CABS SC:				
(01)	07/01/2025	5.700%	533,521.20	826,934.40	826,934.40	10/07/2021	109.957
First Tier Toll Rever	nue Bonds, Series 201						
	07/01/2046	5.750%	14,560,000.00	14,560,000.00	14,560,000.00	07/01/2023	100.000
	07/01/2047	5.750%	16,325,000.00	16,325,000.00	16,325,000.00	07/01/2023	100.000
	07/01/2048	5.750%	17,255,000.00	17,255,000.00	17,255,000.00	07/01/2023	100.000
	07/01/2049	5.750% _	18,240,000.00	18,240,000.00	18,240,000.00	07/01/2023	100.000
			66,380,000.00	66,380,000.00	66,380,000.00		
First Tier Toll Rever	nue Bonds, Series 201	3A (Current Into	erest Bonds), CIB53:				
	07/01/2050	6.000%	16,475,000.00	16,475,000.00	16,475,000.00	07/01/2023	100.000
	07/01/2051	6.000%	17,470,000.00	17,470,000.00	17,470,000.00	07/01/2023	100.000
	07/01/2052	6.000%	18,505,000.00	18,505,000.00	18,505,000.00	07/01/2023	100.000
	07/01/2053	6.000%	19,620,000.00	19,620,000.00	19,620,000.00	07/01/2023	100.000
			72,070,000.00	72,070,000.00	72,070,000.00		
First Tier Toll Rever	nue Bonds, Series 201	3B (Capital App	reciation Bonds). CAB	S SC:			
	07/01/2026	5.900%	1,078,566.30	1,697,236.65	1,877,221.20	07/01/2023	100.000
	07/01/2027	6.100%	1,492,411.15	2,384,338.05	2,646,067.75	07/01/2023	100.000
	07/01/2028	6.250%	1,607,016.30	2,596,708.20	2,889,021.60	07/01/2023	100.000
	,,		4,177,993.75	6,678,282.90	7,412,310.55	0.,02,2020	100,000
	=======================================		179,576,514.95	182,370,217.30	183,104,244.95		

SAVINGS

Kentucky Public Transportation Infrastructure Authority Series 2021 Refinancing (Downtown Crossing Project) **FINAL PRICING NUMBERS**

Insured Reported by Component

Date	Prior Debt Service	Prior Adjustments	Prior Net Cash Flow	Refunding Debt Service	Refunding Expenses	Refunding Net Cash Flow	Savings	Annual Savings	Present Value to 10/07/203 @ 3.3322298
10/07/2021	-575,576.67		-575,576.67				-575,576.67		-575,576.6
01/01/2022	5,149,731.25	-13 783 52	5,135,947.73	1,374,366.25		1,374,366.25	3,761,581.48		3,732,686.5
07/01/2022	5,149,731.25	13 783 52	5,135,947.73	4,945,070.53		4,945,070.53	190,877.20	3,376,882.01	186,306.8
01/01/2023	5,149,731.25	-68,917,58	5,080,813.67	2,933,570.53		2,933,570.53	2,147,243.14		2,061,483.5
07/01/2023	5,149,731.25	68 917 58	5,080,813.67	3,143,570.53		3,143,570.53	1,937,243.14	4,084,486.28	1,829,391.0
01/01/2024	5,149,731.25	68 917 58	5,080,813.67	2,932,363.03		2,932,363.03	2,148,450.64	,,,,,	1,995,591
07/01/2024	5,149,731.25	137,835 18	5,011,896.07	3,147,363.03		3,147,363.03	1,864,533.04	4,012,983.68	1,703,491.7
01/01/2025	5,149,731 25	137 835 18	5,011,896.07	2,931,126.78		2,931,126.78	2,080,769.29	4,012,363.06	
07/01/2025	6,169,731.25	137 835 18	6,031,896.07					4 000 530 50	1,869,896.8
01/01/2026	5,149,731.25	137,835 18		3,146,126.78		3,146,126.78	2,885,769.29	4,966,538.58	2,550,815.8
07/01/2026		-275 670 37	5,011,896.07	2,929,890.53		2,929,890.53	2,082,005.54		1,810,185
	7,384,731.25		7,109,060.88	5,384,890.53		5,384,890.53	1,724,170.35	3,806,175.89	1,474,501.4
01/01/2027	5,149,731.25	-275,670 37	4,874,060.88	2,915,774.28		2,915,774.28	1,958,286.60		1,647,271.0
07/01/2027	8,514,731.25	-275 670 37	8,239,060.88	6,525,774.28		6,525,774.28	1,713,286.60	3,671,573.20	1,417,563
01/01/2028	5,149,731.25	-275,670 37	4,874,060.88	2,895,D16.78		2,895,016.78	1,979,044.10		1,610,615
07/01/2028	9,079,731.25	-275,670 37	8,804,060.88	7,115,016.78		7,115,016.78	1,689,044.10	3,668,088.20	1,352,076.0
01/01/2029	5,149,731.25	-275,670.37	4,874,060.88	2,859,146.78		2,859,146.78	2,014,914.10		1,586,501
07/01/2029	5,149,731.25	-275,670,37	4,874,060.88	3,219,146.78		3,219,146.78	1,654,914.10	3,669,828.20	1,281,690.4
01/01/2030	5,149,731.25	275,670.37	4,874,060.88	2,856,086.78		2,856,086.78	2,017,974.10	0,000,000	1,537,258.9
07/01/2030	5,149,731.25	-275,670.37	4,874,060.88	3,221,086.78		3,221,086.78	1,652,974.10	3,670,948.20	1,238,572.0
01/01/2031	5,149,731.25	275,670.37	4,874,060.88	2,852,984.28		2,852,984.28	2,021,076.60	3,070,346.20	
07/01/2031	5,149,731.25	275,670.37	4,874,060.88	3,222,984.28					1,489,572.9
01/01/2032	5,149,731.25	-275,670.37				3,222,984.28	1,651,076.60	3,672,153.20	1,196,933.
			4,874,060.88	2,849,839.28		2,849,839.28	2,024,221.60		1,443,393.
07/01/2032	5,149,731.25	-275,670.37	4,874,060.88	3,229,839.28	444,530.00	3,674,369.28	1,199,691.60	3,223,913.20	841,433.
01/01/2033	5,149,731.25	-275,670.37	4,874,060.88	2,846,609.28		2,846,609.28	2,027,451.60		1,398,700.
07/01/2033	5,149,731.25	-275,670.37	4,874,060.88	3,231,609.28	443,567.50	3,675,176.78	1,198,884.10	3,226,335.70	813,532.
01/01/2034	5,149,731.25	-275,670.37	4,874,060.88	2,843,336.78		2,843,336.78	2,030,724.10		1,355,415.
07/01/2034	5,149,731.25	-275,670.37	4,874,060.88	3,233,336.78	442,592.50	3,675,929.28	1,198,131.60	3,228,855.70	786,592.
01/01/2035	5,149,731.25	-274,223.84	4,875,507.41	2,837,484.83		2,837,484.83	2,038,022.58		1,316,067.
07/01/2035	5,149,731.25	-274,238.29	4,875,492.96	3,242,484.83	441,580.00	3,684,064.83	1,191,428.13	3,229,450.71	756,764.
01/01/2036	5,149,731.25	-275,699.30	4,874,031.95	2,831,407,80	-,	2,831,407.80	2,042,624.15	.,	1,276,160.
07/01/2036	5,149,731.25	275,699.30	4,874,031.95	3,246,407.80	440,542.50	3,686,950.30	1,187,081.65	3,229,705.80	729,492.
01/01/2037	5,149,731.25	275,699.30	4,874,031.95	2,825,180.73	0,5-12.50	2,825,180.73	2,048,851.22	3,225,703.60	
07/01/2037	5,149,731.25	-275,699.30	4,874,031.95		430 467 50			2 220 224 04	1,238,439.
01/01/2038	5,149,731.25			3,255,180.73	439,467.50	3,694,648.23	1,179,383.72	3,228,234.94	701,202,
07/01/2038		275,699.30	4,874,031.95	2,818,728.58		2,818,728.58	2,055,303.37		1,201,953.
	5,149,731.25	-275,699.30	4,874,031.95	3,258,728.58	438,367.50	3,697,096.08	1,176,935.87	3,232,239.24	676,999.
01/01/2039	5,149,731.25	-275,699.30	4,874,031.95	2,812,126.38		2,812,126.38	2,061,905.57		1,166,616.
07/01/2039	5,149,731.25	275,699.30	4,874,031.95	3,267,126.38	437,230.00	3,704,356.38	1,169,675.57	3,231,581.14	650,951.
01/01/2040	5,149,731.25	-275,699.30	4,874,031.95	2,805,299.10		2,805,299.10	2,068,732.85		1,132,429.
07/01/2040	5,149,731.25	275,699.30	4,874,031.95	3,275,299.10	436,055.00	3,711,354.10	1,162,677.85	3,231,410.70	626,022
01/01/2041	5,149,731.25	275,699.30	4,874,031.95	2,797,964.75		2,797,964.75	2,076,067.20		1,099,501.
07/01/2041	5,149,731.25	-275,699.30	4,874,031.95	3,277,964.75	434,855.00	3,712,819.75	1,161,212.20	3,237,279,40	604,908.
01/01/2042	5,149,731.25	63,441.95	5,213,173.20	2,790,474.35	,	2,790,474.35	2,422,698.85	-,,	1,241,370
07/01/2042	5,149,731.25	60,050.53	5,209,781.78	3,285,474.35	433,617.50	3,719,091.85	1,490,689,93	3,913,388,78	751,299.
01/01/2043	5,149,731.25	279,657.12	4,870,074.13	2,782,749.88	455,047.50	2,782,749.88		2/2/2/200.70	
07/01/2043	5,149,731.25	279,685 37			422 222 00		2,087,324.25		1,034,759.
01/01/2044		282,538.62	4,870,045.88	3,297,749.88	432,330.00	3,730,079.88	1,139,966.00	3,227,290,25	555,859.
	5,149,731.25		4,867,192.63	2,774,713.30		2,774,713.30	2,092,479.33		1,003,594.
07/01/2044	5,149,731.25	-282,538.62	4,867,192.63	3,304,713.30	431,005.00	3,735,718.30	1,131,474.33	3,223,953.66	533,784.
01/01/2045	5,149,731.25	-282,538.62	4,867,192.63	2,766,442.65		2,766,442.65	2,100,749.98		974,807.
07/01/2045	5,149,731.25	-282,538.62	4,867,192.63	3,311,442.65	429,642.50	3,741,085.15	1,126,107.48	3,226,857.46	513,982.
01/01/2046	5,149,731.25	-282,538.62	4,867,192.63	2,757,937-93		2,757,937.93	2,109,254.70		946,937.
07/01/2046	22,029,731-25	-282,538.62	21,747,192.63	20,037,937.93	385,360.00	20,423,297.93	1,323,894.70	3,433,149,40	584,614.
01/01/2047	4,664,431.25	-282,538.62	4,381,892.63	2,478,768.35		2,478,768.35	1,903,124.28		826,621.
7/01/2047	23,589,431-25	-282,538.62	23,306,892.63	21,423,768.35	336,782.50	21,760,550.85	1,546,341.78	3,449,466.06	660,646.
01/01/2048	4,120,337.50	-282,538.62	3,837,798.88	2,172,451.78	7,1	2,172,451.78	1,665,347.10	-,,	699,829.
07/01/2048	24,130,337.50	-282,538.62	23,847,798.88	21,782,451.78	286,470.00	22,068,921.78	1,778,877.10	3 444 224 20	
1/01/2049	3,545,050.00	-282,538.62	3,262,511.38	1,855,120.60	200,77.0.00			3,444,224.20	735,287.
07/01/2049	24,705,050.00	-282,538.62			774 410 00	1,855,120.60	1,407,390.78	1 450 371 55	572,202.
1/01/2050			24,422,511.38	22,135,120.60	234,410.00	22,369,530.60	2,052,980.78	3,460,371.56	821,000
	2,936,700,00	-282,538.62	2,654,161.38	1,526,696.80		1,526,696.80	1,127,464.58		443,491.
7/01/2050	25,311,700.00	-282,538.62	25,029,161.38	22,441,696,80	179,305.00	22,621,001.80	2,408,159.58	3,535,624.16	931,732
01/01/2051	2,265,450.00	-282,538.62	1,982,911.38	1,167,912.40		1,167,912.40	814,998.98		310,160.
07/01/2051	25,985,450.00	-282,538.62	25,702,911.38	22,917,912.40	121,942.50	23,039,854.90	2,663,056.48	3,478,055.46	996,859
1/01/2052	1,553,850.00	-282,538.62	1,271,311.38	794,356.03		794,356.03	476,955.35		175,612
07/01/2052	26,698,850.00	-282,538.62	26,416,311.38	23,424,356.03	62,197.50	23,486,553.53	2,929,757.85	3,406,713.20	1,061,042.
01/01/2053	799,500.00	-282,538.62	516,961.38	405,205.58		405,205.58	111,755.80	2,700,720,20	39,810.
07/01/2053	27,449,500.00	-27,854,271.37	-404 771 37	23,940,205.58		23,940,205.58	-24,344,976.95	-24,233,221.15	8,530,178
	482,096,623.33	-42,987,265.68	439,109,357.65	346,912,970.64	7,731,850.00	354,644,820.64	84,464,537.01	84,464,537,01	60,698,536.

Savings Summary

PV of savings from cash flow Less: Prior funds on hand Plus: Refunding funds on hand

60,698,536.51 -2,170,946.67 4,473.99

Net PV Savings

58,532,063.83



Commonwealth of Kentucky Finance and Administration Cabinet

Andy Beshear Governor

OFFICE OF FINANCIAL MANAGEMENT

Room 76, Capitol Annex 702 Capital Avenue Frankfort, KY 40601-3462 (502) 564-2924 Holly M. Johnson Secretary

Ryan Barrow
Executive Director

November 2, 2021

Mr. James Statler, Chief Financial Officer Kentucky Housing Corporation 1231 Louisville Road Frankfort, KY 40604

Dear Mr. Statler,

Pursuant to KRS 42.420, the Office of Financial Management is required to review and approve the issuance of debt by all state agencies. The attached constitutes the review and approval of the \$56,560,000 Kentucky Housing Corporation Housing Revenue Bonds, Taxable 2021 Series A and B.

Sincerely,

Ryan Barrow

Ryan Barrow Executive Director

Attachments



OFM APPROVAL PURSUANT TO KRS 42.420

Kentucky Housing Corporation \$59,560,000

Single Family Housing Revenue Refunding Bonds Taxable 2021 Series A and Series B

DESCRIPTION:

issuance and offering of the Bonds.

Total Debt Service:

Average Life (years):

The Bonds are being issued to (i) refund certain outstanding Kentucky Housing Corporation Bonds Series 2009 C-4 and Series 2012 A for present value savings; and (ii) pay costs of issuance.

BOND SUMMARY STATISTICS:	Series 2021 A	Series 2021 B	Total	
BOND SUMMART STATISTICS.	Fixed Rate	Variable Rate	1 otal	
Par Amount:	\$ 23,410,000.00	\$ 36,150,000.00	\$ 59,560,000.00	
Pricing Dates:	October 13, 2021	November 1, 2021		
Closing Date:	November 2, 2021	November 2, 2021	November 2, 2021	
Dated Date:	November 2, 2021	November 2, 2021	November 2, 2021	
Final Maturity:	July 1, 2025	July 1, 2041	July 1, 2041	
NIC:	0.521%	1.466%		
RATINGS:				
Moody's	Aaa	Aaa/VMIG 1		
S&P	AAA	AAA/A-1		
SOURCES AND USES OF FUNDS	:			
SOURCES OF FUNDS:				
Par amount of bonds:	23,410,000.00	36,150,000.00	59,560,000.00	
TOTAL SOURCES	23,410,000.00	36,150,000.00	59,560,000.00	
USES OF FUNDS:				
Deposit to Escrow	23,156,853.00	35,838,147.00	58,995,000.00	
Costs of Issuance*	253,147.00	311,853.00	565,000.00	
TOTAL USES	23,410,000.00	36,150,000.00	59,560,000.00	
* Includes underwriter's discount	t, legal, printing, rating	g agency fees, and oth	er expenses of the	

\$23,654,742.00

2.010

\$43,875,338.00

14.570

\$67,530,080.00

Refunding Summary:

Bond Issue Being Refinanced:

Par Amount of Refunded Bonds:

Net PV Savings:

See Summary of Bonds Refunded (attached)

\$58,995,000.00

\$5,082,861.00

Percentage Savings of Refunded Bonds: 8.62%

Method of Sale:

Bond Counsel:

Underwriter:

Negotiated

Kutak Rock

Citi

Underwriters' Counsel: Dinsmore & Shohl

Trustee: The Bank of New York Mellon Trust Company Financial Advisor: OFM

Final Cashflows as of October 13, 2021

Pursuant to KRS Chapter 45, the Issuer is providing information on all costs associated, either directly or indirectly, with this bond issuance. Costs are actual or estimated as of the date of closing of the issue.

PROFESSIONAL SERVICES:

Firm	Service	Fee	
Dinsmore & Shohl	Bond Counsel	\$	42,500.00
Caine Mitter & Associates	Quantitative Consultant		175,000.00
Moody's	Rating Service		58,500.00
S&P	Rating Service		66,000.00
Bank of NY Mellon	Trustee		3,000.00
OFM	Financial Advisor		14,890.00
ImageMaster	Printer		2,518.00
Crowe Horwath	Accountant		8,000.00
	Misc./Contingency		11,320.00
TOTAL		\$	381,728.00

GROSS SPREAD/UNDERWRITER'S DISCOUNT:

	Per Bond	 <u>Total</u>
Underwriter's Average Takedown	2.55	\$ 151,856.00
Underwriter's Other Fee	0.14	8,041.00
Underwriter's Counsel	0.39	23,375.00
TOTAL	3.08	\$ 183,272.00

COST OF ISSUANCE GRAND TOTAL:	\$	565,000.00
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In the opinion of Kutak Rock LLP, Bond Counsel, interest on the 2021 Series A Bonds and the 2021 Series B Bonds (collectively, the "2021 Bonds") is **included** in gross income for federal income tax purposes. The Corporation does not intend to elect to treat the arrangement by which the collateral secures the 2021 Bonds as a REMIC, and therefore Bond Counsel is of the opinion that the 2021 Bonds do not constitute a "taxable mortgage pool" within the meaning of Section 7701(i) of the Internal Revenue Code of 1986, as amended. Bond Counsel is also of the opinion that, under present law, interest on the 2021 Bonds is **excluded** from gross income of the owners thereof for Kentucky income tax purposes, and the 2021 Bonds are exempt from ad valorem taxation in the Commonwealth of Kentucky. See "TAX TREATMENT" herein.



\$59,560,000 KENTUCKY HOUSING CORPORATION HOUSING REVENUE BONDS

\$23,410,000 2021 SERIES A (Taxable) \$36,150,000 2021 SERIES B (Taxable)(Variable Rate)

Dated: Date of Delivery

Due: as shown on inside cover

The 2021 Series A Bonds and the 2021 Series B Bonds (collectively, the "2021 Bonds") being issued by the Kentucky Housing Corporation (the "Corporation") will be registered in the name of Cede & Co., as nominee of The Depository Trust Company, New York, New York ("DTC"). DTC will act as securities depository for the 2021 Bonds. Purchasers will not receive certificates representing their ownership interest in the 2021 Bonds. Accordingly, principal of, interest and premium, if any, on, and with respect to the 2021 Series B Bonds (the "Variable Rate Bonds"), the purchase price of, the 2021 Bonds, will be paid on behalf of the Corporation by The Bank of New York Mellon Trust Company, N.A., as Trustee, directly to DTC or Cede & Co., its nominee. DTC will in turn remit such principal, interest or premium to the Participants (as defined herein) for subsequent distribution to the Beneficial Owners (as defined in "BOOK-ENTRY ONLY SYSTEM," attached as *Appendix E*) of the 2021 Bonds. The 2021 Series A Bonds will be issued in denominations of \$5,000 principal amount and any integral multiple thereof, and the 2021 Series B Bonds will be issued in denominations of \$100,000 and any integral multiple of \$5,000 in excess thereof. The 2021 Bonds and will pay interest on each January 1 and July 1, commencing January 1, 2022.

The 2021 Series A Bonds bear interest at the rates set forth on the inside front cover hereof. The Variable Rate Bonds will initially bear interest at weekly rates determined by Citigroup Global Markets Inc., as Remarketing Agent, as more fully described herein. At its option, the Corporation may at any time convert the interest rate on the Variable Rate Bonds to another interest rate mode or to a fixed rate as described herein. The Variable Rate Bonds will be subject to mandatory tender upon the exercise of such election, and at other times as more fully set forth herein. See "THE 2021 BONDS—Optional and Mandatory Tender of Variable Rate Bonds." The Variable Rate Bonds may, at the option of the Bondholder thereof, be tendered in authorized denominations, to The Bank of New York Trust Company, N.A., as Tender Agent, for purchase on any Business Day not less than seven days after the giving of notice of such tender. The purchase price of tendered Variable Rate Bonds will be payable upon presentation and surrender thereof at the office of the Tender Agent.

If the proceeds from the remarketing of the Variable Rate Bonds pursuant to optional tender or mandatory purchase are insufficient to pay the tendering Bondholders, the Tender Agent will be entitled to draw upon a liquidity facility to pay the purchase price of the tendered Variable Rate Bonds. The initial liquidity facility will be in the form of a Standby Bond Purchase Agreement among the Tender Agent, the Trustee and the Corporation, as Liquidity Provider.

This Official Statement is intended to provide information on the Variable Rate Bonds only when such Variable Rate Bonds bear interest at a rate determined weekly by the Remarketing Agent and only while the initial liquidity facility is in effect.

The 2021 Bonds are subject to redemption prior to their stated maturities, including special redemption at 100 percent of the principal amount thereof at any time as more fully set forth herein. See "**THE 2021 BONDS—Redemption.**" It is possible that a substantial portion of the 2021 Bonds will be redeemed at par prior to their stated maturities.

The 2021 Bonds constitute parity obligations, equally and ratably secured with the outstanding Housing Revenue Bonds previously issued by the Corporation. The 2021 Bonds are being issued to refund certain prior bonds of the Corporation originally issued to implement the Corporation's program of purchasing qualified mortgage loans made to eligible borrowers to finance owner occupied single family residences within the Commonwealth of Kentucky. See "SOURCES AND USES OF FUNDS."

THE 2021 BONDS ARE SPECIAL OBLIGATIONS OF THE CORPORATION, SECURED BY AND PAYABLE SOLELY FROM THE SOURCES PLEDGED FOR THE PAYMENT THEREOF UNDER THE RESOLUTION AS DESCRIBED HEREIN AND DO NOT CONSTITUTE A DEBT, LIABILITY OR OBLIGATION OF THE COMMONWEALTH OF KENTUCKY OR A PLEDGE OF THE FAITH AND CREDIT OF THE COMMONWEALTH OF KENTUCKY. THE CORPORATION HAS NO TAXING POWER.

Kentucky's name is on the 2021 Bonds for the benefit and convenience of other entities within the Commonwealth. However, the only security which is pledged for the 2021 Bonds is the independent revenues and assets pledged therefor. The General Assembly does not intend to appropriate any Commonwealth funds to fulfill the financial obligation represented by the 2021 Bonds.

The 2021 Bonds are offered when, as and if issued and accepted by the Underwriters subject to the approval of their legality by Kutak Rock LLP, Washington, D.C., Bond Counsel, and certain other conditions. Certain legal matters will be passed upon for the Corporation by its internal counsel, Jeremy J. Ratliff, Esq. and for the Underwriters by their counsel, Dinsmore & Shohl LLP, Cincinnati, Ohio. It is expected that the 2021 Bonds will be available for delivery in New York, New York, on or about November 2, 2021. The Underwriters intend, but are not obligated, to maintain a secondary market in the 2021 Bonds.

Citigroup[†] Baird

October 13, 2021

[†] Citigroup Global Markets Inc. is the Sole Underwriter and Remarketing Agent for the Variable Rate Bonds.

MATURITY SCHEDULE

\$23,410,000 2021 Series A Bonds (Taxable)

Maturity <u>Date</u>	Principal <u>Amount</u>	Interest <u>Rate</u>	<u>Price</u>	$\frac{\textbf{CUSIP}}{\textbf{No.}^{\dagger}}$
July 1, 2022	\$4,780,000	0.35%	100%	49130TVV5
January 1, 2023	3,270,000	0.45	100	49130TVW3
July 1, 2023	3,340,000	0.55	100	49130TVX1
January 1, 2024	3,265,000	0.80	100	49130TVY9
July 1, 2024	3,330,000	0.95	100	49130TVZ6
January 1, 2025	2,685,000	1.15	100	49130TWA0
July 1, 2025	2,740,000	1.25	100	49130TWB8

\$36,150,000 2021 Series B Bonds (Taxable) (Variable Rate)

\$36,150,000 Term Bond due July 1, 2041 – Price 100%, CUSIP No. 49130TWC6

The 2021 Series B Bonds (the "Variable Rate Bonds") will initially bear interest at Weekly Rates from their date of issuance and delivery until maturity or until such Variable Rate Bonds are converted to another interest rate mode (as described herein). The Weekly Rates shall be determined on Wednesday of each week (or if such day is not a Business Day, on the immediately preceding Business Day) by Citigroup Global Markets Inc., as Remarketing Agent.

[†] CUSIP data herein is provided by CUSIP Global Services, which is managed on behalf of the American Bankers Association by S&P Global Market Intelligence, a part of S&P Global Inc. CUSIP data is not intended to create a database and does not serve in any way as substitute for the CUSIP Service. CUSIP numbers are provided for convenience of reference only. The CUSIP numbers have been assigned by an organization not affiliated with the Corporation and are included for the convenience of the holders of the 2021 Bonds. None of the Corporation, the Underwriters, the Financial Advisor, the Trustee or the Tender Agent is responsible for the selection or use of the CUSIP numbers, not is any representation made as to their correctness on the 2021 Bonds or as indicated above.

Period					Annual
Ending	Principal	Coupon	Interest	Debt Service	Debt Service
11/2/2021	-	-	-	-	
1/1/2022	-	-	7,696	7,696	7,696
7/1/2022	4,780,000	0.350%	31,344	4,811,344	
1/1/2023	3,270,000	0.450%	27,236	3,297,236	8,108,579
7/1/2023	3,340,000	0.550%	40,369	3,380,369	
1/1/2024	3,265,000	0.800%	43,628	3,308,628	6,688,997
7/1/2024	3,330,000	0.950%	48,894	3,378,894	
1/1/2025	2,685,000	1.150%	30,630	2,715,630	6,094,523
7/1/2025	2,740,000	1.250%	14,946	2,754,946	
1/1/2026	-	-	-	-	2,754,946
7/1/2026	-	-	-	-	
1/1/2027	-	-	-	-	-
7/1/2027	-	-	-	-	
1/1/2028	-	-	-	-	-
7/1/2028	-	-	-	-	
1/1/2029	-	-	-	-	-
7/1/2029	-	-	-	-	
1/1/2030	-	-	-	-	-
7/1/2030	-	-	-	-	
1/1/2031	-	-	-	-	-
7/1/2031	-	-	-	-	
1/1/2032	-	-	-	-	-
7/1/2032	-	-	-	-	
1/1/2033	-	-	-	-	-
7/1/2033	-	-	-	-	
1/1/2034	-	-	-	-	-
7/1/2034	-	-	-	-	
1/1/2035	-	-	-	-	-
7/1/2035	-	-	-	-	
1/1/2036	-	-	-	-	-
7/1/2036	-	-	-	-	
1/1/2037	-	-	-	-	-
7/1/2037	-	-	-	-	
1/1/2038	-	-	-	-	-
7/1/2038	-	-	-	-	
1/1/2039	-	-	-	-	-
7/1/2039	-	-	-	-	
1/1/2040	-	-	-	-	-
7/1/2040	-	-	-	-	
1/1/2041	-	-	-	-	-
7/1/2041	-	-	-	-	
1/1/2042	-	-	-	-	-
Totals	23,410,000		244,742	23,654,742	23,654,742

Avg Life: 2.01 NIC: 0.521%

11/2/2021	Period	5			51.0	Annual
1/1/2022 - - 48,401 48,401 7/1/2023 - - 48,401 48,401 1/1/2023 - - 52,848 52,848 101,250 7/1/2024 - - 95,010 95,010 206,220 7/1/2024 - - 131,210 131,210 226,220 7/1/2025 - - 204,104 204,104 405,989 7/1/2026 - - 204,104 204,104 405,989 7/1/2026 - - 204,104 204,104 401,295 7/1/2026 - - 204,104 204,104 401,295 7/1/2026 - - 204,104 204,104 401,295 7/1/2027 - - 255,130 255,130 506,100 7/1/2027 - - 278,820 278,820 553,095 7/1/2028 - - 293,815 293,815 293,815 141,202 293,815	Ending	Principal	Coupon	Interest	Debt Service	Debt Service
7/1/2022 48,401 48,401 1/1/2023 52,848 52,848 101,250 1/1/2024 95,010 95,010 1/1/2024 131,210 131,210 226,220 1/1/2025 201,885 201,885 1/1/2025 197,191 197,191 1/1/2026 204,104 204,104 405,989 1/1/2026 204,104 204,104 401,295 1/1/2026 250,970 250,970 1/1/2027 - 255,130 255,130 506,100 1/1/2027 - 255,130 255,130 506,100 1/1/2028 - 274,275 274,275 1/1/2028 - 278,820 278,820 553,095 1/1/2029 - 293,815 293,815 1/1/2029 - 297,044 297,044 590,859 1/1/2030 - 311,623 311,623 311,623 618,165 1/1/2030 - 311,623 311,623 311,623 618,165 1/1/2031 - 318,912 318,912 632,625 1/1/2031 - 336,642 1/1/2032 - 331,669 331,669 1/1/2032 - 331,669 331,669 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 1/1/2035 2,675,000 Variable* 295,643 3,375,643 1/1/2036 2,405,000 Variable* 295,643 3,375,643 1/1/2037 2,145,000 Variable* 288,944 1/1/2036 2,265,000 Variable* 288,944 1/1/2037 2,005,000 Variable* 187,900 2,592,900 5,341,794 1/1/2037 2,005,000 Variable* 187,900 2,592,900 5,341,794 1/1/2038 1,830,000 Variable* 182,953 2,287,953 1/1/2037 2,005,000 Variable* 187,900 2,592,900 5,341,794 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 1/1/2037 1,315,000 Variable* 102,977 1,932,977 4,058,265 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 1/1/2037 1,315,000 Variable* 102,977 1,932,977 4,058,265 1/1/2039 1,315,000 Variable* 102,977 1,932,977 4,058,265 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 1/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 9,705 1,039,705 1/1/2042 1,039,705 1/1/2044 1,075,000 Variable* 9,705 1,039,705		-	-	-	-	44.00=
1/1/2023 - 52,848 52,848 101,250 7/1/2024 - - 95,010 95,010 226,220 7/1/2024 - - 131,210 131,210 226,220 7/1/2025 - - 204,104 204,104 405,989 7/1/2026 - - 197,191 197,191 117,191 1/1/2026 - - 204,104 204,104 401,295 7/1/2026 - - 255,130 255,130 506,100 7/1/2027 - - 274,275 274,275 11/205 7/1/2028 - - 278,820 278,820 553,095 7/1/2028 - - 278,820 278,820 553,095 7/1/2029 - - 297,044 297,044 590,859 7/1/2030 - - 311,623 311,623 618,165 7/1/2031 - - 313,5713 313,713 313,713 311,723 <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>11,885</td>		-	-			11,885
7/1/2023 - 95,010 95,010 1/1/2024 - 131,210 131,210 226,220 1/1/2024 - 201,885 201,985		-	-	•		404.0=0
1/1/2024 - - 131,210 226,220 7/1/2024 - - 201,885 201,885 1/1/2025 - - 204,104 204,104 405,989 7/1/2026 - - 197,191 197,191 197,191 1/1/2026 - - 204,104 204,104 401,295 7/1/2026 - - 250,970 250,970 250,970 1/1/2027 - - 255,130 255,130 506,100 7/1/2028 - - 278,820 278,820 553,095 7/1/2028 - - 293,815 293,815 1/1/2029 - - 297,044 297,044 590,859 7/1/2030 - - 311,623 311,623 618,165 7/1/2030 - - 311,623 311,623 618,165 7/1/2031 - - 313,713 313,713 11/1/2031 - - 313,669 331,669 657,930 7/1/2		-	-			101,250
7/1/2024 -		-	-			000 000
1/1/2025 204,104 204,104 405,989 7/1/2026 197,191 197,191 1/1/2026 204,104 204,104 401,295 7/1/2026 250,970 250,970 1/1/2027 255,130 255,130 506,100 7/1/2027 274,275 274,275 1/1/2028 278,820 278,820 553,095 7/1/2028 293,815 293,815 1/1/2029 297,044 297,044 590,859 7/1/2029 297,044 297,044 590,859 7/1/2030 311,623 311,623 311,623 7/1/2030 311,623 311,623 311,623 7/1/2031 318,912 318,912 632,625 7/1/2031 318,912 318,912 632,625 7/1/2032 331,669 331,669 1/1/2032 331,669 331,669 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 1/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 1/1/2034 2,895,000 Variable* 295,643 3,375,643 1/1/2035 2,675,000 Variable* 295,643 3,375,643 1/1/2036 2,405,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 208,894 2,748,894 1/1/2037 2,145,000 Variable* 187,900 2,592,900 5,341,794 1/1/2037 2,005,000 Variable* 187,900 2,592,900 5,341,794 1/1/2038 1,830,000 Variable* 187,900 2,592,900 5,341,794 1/1/2037 2,005,000 Variable* 182,953 2,427,953 1/1/2037 2,005,000 Variable* 187,900 2,592,900 5,341,794 1/1/2038 1,830,000 Variable* 182,953 2,427,953 1/1/2037 2,005,000 Variable* 192,928 2,125,288 1/1/2039 1,315,000 Variable* 102,977 1,932,977 4,058,265 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 1/1/2040 1,180,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 1/1/2042 1,039,705		-	-			226,220
7/1/2025 -		-	-			405.000
1/1/2026 - - 204,104 204,104 401,295 7/1/2026 - - 250,970 250,970 250,970 1/1/2027 - - 255,130 255,130 506,100 7/1/2028 - - 278,820 278,820 553,095 7/1/2028 - - 278,820 278,820 553,095 7/1/2029 - - 297,044 297,044 590,859 7/1/2030 - - 306,542 306,542 306,542 1/1/2031 - - 311,623 618,165 7/1/2031 - - 318,912 318,912 632,625 7/1/2031 - - 331,669 331,669 657,930 3/1/2032 - - 331,669 331,669 657,930 3/1/2033 2,200,000 Variable* 321,558 3,566,558 6,942,201 3/1/2034 3,080,000 Variable* 261,650 3,156,650		-	-	•		405,989
7/1/2026		-	-	•	•	404.00=
1/1/2027 - - 255,130 255,130 506,100 7/1/2027 - - 274,275 274,275 1/1/275 1/1/2028 - - 278,820 278,820 553,095 7/1/2028 - - 293,815 293,815 5 1/1/2029 - - 297,044 297,044 590,859 7/1/2029 - - 306,542 306,542 1/1/2030 - - 311,623 311,623 618,165 7/1/2031 - - 318,912 318,912 632,625 7/1/2031 - - 316,669 331,669 657,930 7/1/2032 - - 331,669 331,669 657,930 7/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2034 3,080,000 Variable* 295,643 3,575,643 6,942,201 7/1/2034 2,895,000 Variable* 281,133 2,913,113 <td></td> <td>-</td> <td>-</td> <td>•</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>401,295</td>		-	-	•	· · · · · · · · · · · · · · · · · · ·	401,295
7/1/2027 274,275 274,275 1/1/2028 278,820 278,820 553,095 7/1/2028 293,815 293,815 1/1/2029 297,044 297,044 590,859 7/1/2030 311,623 311,623 618,165 7/1/2030 311,623 311,623 618,165 7/1/2031 318,912 318,912 632,625 7/1/2031 316,626 331,669 657,930 7/1/2032 331,669 331,669 1/1/2032 331,669 331,669 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 1/1/2035 2,540,000 Variable* 238,113 2,913,113 6,069,763 7/1/2036 2,405,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 162,953 2,287,935 4,715,888 7/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 1/1/2039 1,395,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 83,965 1,748,965 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 7/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2041 1,075,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 9,705 1,039,705		-	-	•	· · · · · · · · · · · · · · · · · · ·	
1/1/2028 - - 278,820 278,820 553,095 7/1/2028 - - 293,815 293,815 1/1/2029 - - 297,044 297,044 590,859 7/1/2029 - - 306,542 306,542 306,542 311,623 618,165 7/1/2030 - - 311,623 311,623 618,165 7/1/2031 - - 313,713 313,713 313,713 314,912 632,625 7/1/2031 - - 318,912 318,912 632,625 7/1/2032 - - 331,669 331,669 657,930 7/1/2033 2,200,000 Variable* 325,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 3,080,000 Variable* 295,643 3,756,650 6,942,201 7/1/2035 2,675,000 Variable* 201,650 3,156,650 3,156,650 1/1/2036 2,405,000 </td <td></td> <td>-</td> <td>-</td> <td>•</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>506,100</td>		-	-	•	· · · · · · · · · · · · · · · · · · ·	506,100
7/1/2028		-	-	•	· · · · · · · · · · · · · · · · · · ·	
1/1/2029 - - 297,044 297,044 590,859 7/1/2029 - - 306,542 306,542 1/1/2030 618,165 7/1/2030 - - 311,623 311,623 618,165 7/1/2031 - - 318,912 318,912 632,625 7/1/2031 - - 326,261 326,261 316,699 331,669 657,930 7/1/2032 - - 331,669 331,669 657,930 7/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 325,584 3,566,558 6,942,201 7/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 <t< td=""><td></td><td>-</td><td>-</td><td>•</td><td></td><td>553,095</td></t<>		-	-	•		553,095
7/1/2029		-	-	•		
1/1/2030 - - 311,623 311,623 618,165 7/1/2030 - - 313,713 313,713 313,713 1/1/2031 - - 318,912 318,912 632,625 7/1/2031 - - 326,261 326,261 326,261 1/1/2032 - - 331,669 331,669 657,930 7/1/2032 - - 331,669 331,669 657,930 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,0		-	-	•	· ·	590,859
7/1/2030		-	-	•	•	
1/1/2031 - - 318,912 318,912 632,625 7/1/2031 - - 326,261 326,261 326,261 1/1/2032 - - 331,669 331,669 657,930 7/1/2032 - - 331,669 331,669 331,669 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 321,558 3,566,558 4,712,034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 3,156,650 1/1/2035 2,675,000 Variable* 208,894 2,748,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 120,288 2,125,288 1/1/2038 1,380,000 Variable* <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>618,165</td>		-	-			618,165
7/1/2031		-	-			
1/1/2032 - - 331,669 331,669 657,930 7/1/2032 - - 331,669 331,669 1/1/203 2,200,000 Variable* 335,314 2,535,314 2,866,982 2,71/2033 3,245,000 Variable* 321,558 3,566,558 3,566,558 3,566,558 6,942,201 3,11/2034 2,895,000 Variable* 295,643 3,375,643 6,942,201 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 4,715,888 7/1/2037 2,005,000 Variable* 142,935 2,287,935 4,715,888 7/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* <td< td=""><td></td><td>-</td><td>-</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>632,625</td></td<>		-	-		· · · · · · · · · · · · · · · · · · ·	632,625
7/1/2032 331,669 331,669 1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,315,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 54,035 1,369,035 1/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 1,039,705		-	-			
1/1/2033 2,200,000 Variable* 335,314 2,535,314 2,866,982 7/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 4,715,888 7/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 <		-	-			657,930
7/1/2033 3,245,000 Variable* 321,558 3,566,558 1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/15,888 7/1/2037 2,005,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/142039 1,495,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>		-	-			
1/1/2034 3,080,000 Variable* 295,643 3,375,643 6,942,201 7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2041 <td>1/1/2033</td> <td>2,200,000</td> <td>Variable*</td> <td>335,314</td> <td>2,535,314</td> <td>2,866,982</td>	1/1/2033	2,200,000	Variable*	335,314	2,535,314	2,866,982
7/1/2034 2,895,000 Variable* 261,650 3,156,650 1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 4,715,888 1/1/2037 2,145,000 Variable* 120,288 2,125,288 4,715,888 7/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/148,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733	7/1/2033	3,245,000	Variable*	321,558	3,566,558	
1/1/2035 2,675,000 Variable* 238,113 2,913,113 6,069,763 7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042	1/1/2034	3,080,000	Variable*	295,643	3,375,643	6,942,201
7/1/2035 2,540,000 Variable* 208,894 2,748,894 1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,05,000 Variable* 30,572 1,135,572 1,135,572 1/1/2041 1,030,000 Variable* 9,705 1,039,705 1,039,705 1/1	7/1/2034	2,895,000	Variable*	261,650	3,156,650	
1/1/2036 2,405,000 Variable* 187,900 2,592,900 5,341,794 7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2035	2,675,000	Variable*	238,113		6,069,763
7/1/2036 2,265,000 Variable* 162,953 2,427,953 1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	7/1/2035	2,540,000	Variable*	208,894	2,748,894	
1/1/2037 2,145,000 Variable* 142,935 2,287,935 4,715,888 7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2036	2,405,000	Variable*	187,900	2,592,900	5,341,794
7/1/2037 2,005,000 Variable* 120,288 2,125,288 1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	7/1/2036	2,265,000	Variable*	162,953	2,427,953	
1/1/2038 1,830,000 Variable* 102,977 1,932,977 4,058,265 7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2037	2,145,000	Variable*	142,935	2,287,935	4,715,888
7/1/2038 1,665,000 Variable* 83,965 1,748,965 1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	7/1/2037	2,005,000	Variable*	120,288	2,125,288	
1/1/2039 1,495,000 Variable* 69,325 1,564,325 3,313,290 7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2038	1,830,000	Variable*	102,977	1,932,977	4,058,265
7/1/2039 1,315,000 Variable* 54,035 1,369,035 1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	7/1/2038	1,665,000	Variable*	83,965	1,748,965	
1/1/2040 1,180,000 Variable* 42,269 1,222,269 2,591,304 7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2039	1,495,000	Variable*	69,325	1,564,325	3,313,290
7/1/2040 1,105,000 Variable* 30,572 1,135,572 1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 1,039,705	7/1/2039	1,315,000	Variable*	54,035	1,369,035	
1/1/2041 1,075,000 Variable* 20,162 1,095,162 2,230,733 7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 - - - 1,039,705	1/1/2040	1,180,000	Variable*	42,269	1,222,269	2,591,304
7/1/2041 1,030,000 Variable* 9,705 1,039,705 1/1/2042 1,039,705	7/1/2040	1,105,000	Variable*	30,572	1,135,572	
1/1/2042 1,039,705	1/1/2041	1,075,000	Variable*	20,162	1,095,162	2,230,733
1/1/2042 1,039,705	7/1/2041		Variable*			
Totals 26 450 000 7 705 000 40 075 000 40 075 000	1/1/2042	-	-	-	-	1,039,705
Totals 30,150,000 7,725,338 43,875,338 43,875,338	Totals	36,150,000		7,725,338	43,875,338	43,875,338

Avg Life: 14.57 NIC: 1.466%

^{*}Variable rate bonds assume rate resets based on the 1 month LIBOR forward curve as of 8/6/21

Maturity	Interest	Par	Call	Call
Date	Rate	Amount	Date	Price
11/2/2021	-	-	-	-
1/1/2022	-	-	-	-
7/1/2022	-	-	-	-
1/1/2023	-	-	-	-
7/1/2023	-	-	-	-
1/1/2024	-	-	-	-
7/1/2024	-	-	-	-
1/1/2025	-	-	-	-
7/1/2025	-	-	-	-
1/1/2026	-	-	-	-
7/1/2026	-	-	-	-
1/1/2027	-	-	-	-
7/1/2027	2.520%	150,000	11/2/2021	100.00
1/1/2028	2.520%	400,000	11/2/2021	100.00
7/1/2028	2.520%	410,000	11/2/2021	100.00
1/1/2029	2.520%	410,000	11/2/2021	100.00
7/1/2029	2.520%	410,000	11/2/2021	100.00
1/1/2030	2.520%	410,000	11/2/2021	100.00
7/1/2030	2.520%	410,000	11/2/2021	100.00
1/1/2031	2.520%	410,000	11/2/2021	100.00
7/1/2031	2.520%	410,000	11/2/2021	100.00
1/1/2032	2.520%	410,000	11/2/2021	100.00
7/1/2032	2.520%	410,000	11/2/2021	100.00
1/1/2033	2.520%	390,000	11/2/2021	100.00
7/1/2033	2.520%	400,000	11/2/2021	100.00
1/1/2034	2.520%	390,000	11/2/2021	100.00
7/1/2034	2.520%	400,000	11/2/2021	100.00
1/1/2035	2.520%	400,000	11/2/2021	100.00
7/1/2035	2.520%	420,000	11/2/2021	100.00
1/1/2036	2.520%	430,000	11/2/2021	100.00
7/1/2036	2.520%	430,000	11/2/2021	100.00
1/1/2037	2.520%	430,000	11/2/2021	100.00
7/1/2037	2.520%	450,000	11/2/2021	100.00
1/1/2038	2.520%	420,000	11/2/2021	100.00
7/1/2038	2.520%	450,000	11/2/2021	100.00
1/1/2039	2.520%	450,000	11/2/2021	100.00
7/1/2039	2.520%	450,000	11/2/2021	100.00
1/1/2040	2.520%	440,000	11/2/2021	100.00
7/1/2040	2.520%	450,000	11/2/2021	100.00
1/1/2041	2.520%	440,000	11/2/2021	100.00
7/1/2041	2.520%	440,000	11/2/2021	100.00
1/1/2042	0_0 /0	-	-	-
Totals		11,920,000		
		,020,000		

Maturity	Interest	Par	Call	Call
Date	Rate	Amount	Date	Price
11/2/2021		-	-	100.00
1/1/2022	3.568%	5,805,000	11/2/2021	100.00
7/1/2022	3.618%	4,780,000	11/2/2021	100.00
1/1/2023	4.268%	3,270,000	11/2/2021	100.00
7/1/2023	4.268%	3,340,000	11/2/2021	100.00
1/1/2024	4.268%	3,265,000	11/2/2021	100.00
7/1/2024	4.268%	3,330,000	11/2/2021	100.00
1/1/2025	4.268%	2,685,000	11/2/2021	100.00
7/1/2025	4.268%	2,740,000	11/2/2021	100.00
1/1/2026	4.268%	2,810,000	11/2/2021	100.00
7/1/2026	4.268%	2,865,000	11/2/2021	100.00
1/1/2027	4.268%	2,445,000	11/2/2021	100.00
7/1/2027	4.268%	3,335,000	11/2/2021	100.00
1/1/2028	4.268%	3,085,000	11/2/2021	100.00
7/1/2028	4.250%	335,000	11/2/2021	100.00
1/1/2029	4.250%	340,000	11/2/2021	100.00
7/1/2029	4.250%	320,000	11/2/2021	100.00
1/1/2030	4.250%	325,000	11/2/2021	100.00
7/1/2030	4.250%	335,000	11/2/2021	100.00
1/1/2031	4.250%	285,000	11/2/2021	100.00
7/1/2031	4.250%	290,000	11/2/2021	100.00
1/1/2032	4.250%	300,000	11/2/2021	100.00
7/1/2032	4.250%	310,000	11/2/2021	100.00
1/1/2033	4.250%	310,000	11/2/2021	100.00
7/1/2033	4.250%	170,000	11/2/2021	100.00
1/1/2034	_	-	-	-
7/1/2034	_	-	-	-
1/1/2035	-	_	-	-
7/1/2035	-	_	-	-
1/1/2036	-	-	-	-
7/1/2036	_	_	-	-
1/1/2037	-	-	-	-
7/1/2037	_	-	-	-
1/1/2038	_	-	-	-
7/1/2038	_	_	-	_
1/1/2039	_	_	_	_
7/1/2039	_	_	_	_
1/1/2040	_	_	_	_
7/1/2040	_	_	_	_
1/1/2041	_	_	_	_
7/1/2041	_	_	_	_
1/1/2042	_	_	_	_
Totals		47,075,000		_
		, ,		

				PV to
	Prior	Refunding		11/2/2021 @
Date	Debt Service	Debt Service	Savings	1.464%
11/2/2021	-	-	-	-
1/1/2022	49,230	3,934	45,296	45,188
7/1/2022	1,170,192	1,036,020	134,172	132,879
1/1/2023	1,082,340	961,001	121,339	119,296
7/1/2023	1,005,433	906,282	99,151	96,774
1/1/2024	929,345	848,102	81,243	78,719
7/1/2024	864,076	806,381	57,695	55,496
1/1/2025	799,500	747,599	51,901	49,560
7/1/2025	740,617	692,311	48,306	45,792
1/1/2026	682,364	639,921	42,443	39,942
7/1/2026	629,741	598,739	31,002	28,963
1/1/2027	582,685	555,429	27,256	25,278
	536,133	514,142		•
7/1/2027	·	•	21,991 19,079	20,247
1/1/2028	495,085	476,006	•	17,438
7/1/2028	454,478	439,056	15,422	13,993
1/1/2029	419,312	406,007	13,305	11,985
7/1/2029	389,524	378,616	10,908	9,754
1/1/2030	355,051	345,947	9,104	8,082
7/1/2030	325,956	318,267	7,689	6,776
1/1/2031	302,176	295,924	6,252	5,470
7/1/2031	273,648	268,763	4,885	4,243
1/1/2032	250,435	246,652	3,783	3,262
7/1/2032	232,474	229,496	2,978	2,549
1/1/2033	209,702	207,560	2,142	1,820
7/1/2033	192,182	190,825	1,357	1,145
1/1/2034	174,851	174,140	711	595
7/1/2034	157,709	157,463	246	205
1/1/2035	60,756	106,011	(45,255)	(37,349)
7/1/2035	-	-	· -	-
1/1/2036	-	-	-	_
7/1/2036	-	-	-	_
1/1/2037	-	-	-	_
7/1/2037	-	-	-	_
1/1/2038	_	_	-	_
7/1/2038	_	_	_	_
1/1/2039	_	_	_	_
7/1/2039	_	_	_	_
1/1/2040	_	_	_	_
7/1/2040	_	_	_	_
1/1/2041	_	_	_	_
7/1/2041	_	_	_	_
1/1/2042	_	_	<u>-</u>	_
	12 264 005	12 550 504	911 101	700 102
Totals	13,364,995	12,550,594	814,401	788,103
Covingo Cumm	on.			
Savings Summa				700 102
		d		
		d		-
Net PV Savings	788,103			
. toti v Gavings	,		· · · · · · · · · · · · · · · · · · ·	700,100

^{*} Run at 200% PSA Prepayment Speed.

Variable rate bonds assume rate resets based on the 1 month LIBOR forward curve as of August 6, 2021

				PV to
	Prior	Refunding		11/2/2021 @
Date	Debt Service	Debt Service	Savings	1.464%
11/2/2021	-	-	-	-
1/1/2022	6,122,429	15,648	6,106,781	6,092,200
7/1/2022	5,644,865	4,843,725	801,140	793,419
1/1/2023	4,048,395	3,332,592	715,803	703,753
7/1/2023	4,048,613	3,443,933	604,680	590,181
1/1/2024	3,902,337	3,396,409	505,928	490,208
7/1/2024	3,897,662	3,513,959	383,703	369,079
1/1/2025	3,181,600	2,852,179	329,421	314,563
7/1/2025	3,179,302	2,886,870	292,432	277,214
1/1/2026	3,190,830	1,826,549	1,364,281	1,283,884
7/1/2026	3,185,865	1,726,171	1,459,694	1,363,693
1/1/2027	2,704,726	1,612,679	1,092,047	1,012,811
7/1/2027	3,542,550	1,507,645	2,034,905	1,873,544
1/1/2028	3,221,381	1,404,603	1,816,778	1,660,558
7/1/2028	1,245,550	1,311,829	(66,279)	(60,140)
1/1/2029	1,135,581	1,218,678	(83,097)	(74,852)
7/1/2029	1,037,419	1,138,550	(101,131)	(90,435)
1/1/2030	40,850	1,056,848	(1,015,998)	(901,935)
7/1/2030	- -	994,474	(994,474)	(876,412)
1/1/2031	-	928,481	(928,481)	(812,308)
7/1/2031	-	873,420	(873,420)	(758,583)
1/1/2032	-	707,941	(707,941)	(610,393)
7/1/2032	-	617,298	(617,298)	(528,372)
1/1/2033	-	633,341	(633,341)	(538,165)
7/1/2033	-	879,892	(879,892)	(742,232)
1/1/2034	-	838,514	(838,514)	(702,188)
7/1/2034	-	790,069	(790,069)	(656,811)
1/1/2035	-	724,167	(724,167)	(597,650)
7/1/2035	-	681,904	(681,904)	(558,681)
1/1/2036	-	641,698	(641,698)	(521,920)
7/1/2036	-	610,524	(610,524)	(492,956)
1/1/2037	-	560,481	(560,481)	(449,261)
7/1/2037	-	529,930	(529,930)	(421,686)
1/1/2038	-	480,612	(480,612)	(379,663)
7/1/2038	-	435,885	(435,885)	(341,828)
1/1/2039	-	387,235	(387,235)	(301,469)
7/1/2039	-	343,450	(343,450)	(265,439)
1/1/2040	-	305,495	(305,495)	(234,389)
7/1/2040	-	282,571	(282,571)	(215,225)
1/1/2041	_	269,981	(269,981)	(204,142)
7/1/2041	_	257,403	(257,403)	(193,217)
1/1/2042	-	-	-	-
Totals	53,329,955	50,863,633	2,466,322	4,294,758
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Savings Summa	arv			
				4,294,758
PV of Savings from Cash FlowPlus: Refunding Funds on Hand				-,_0 .,. 00
Less: Negative Arbitrage				-
				4,294,758
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^{*} Run at 200% PSA Prepayment Speed.

Variable rate bonds assume rate resets based on the 1 month LIBOR forward curve as of August 6, 2021