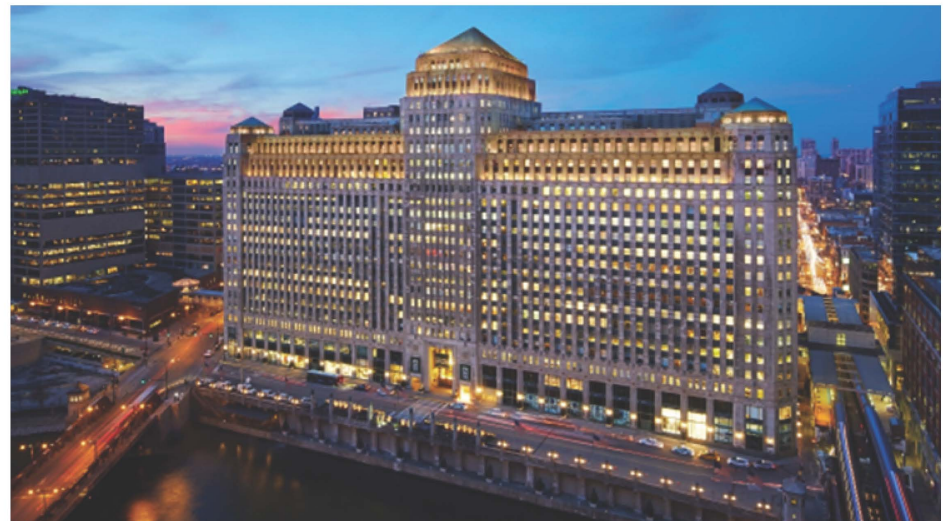


VORNADO

REALTY TRUST

Supplemental Fixed Income Data

For the Quarter Ended
June 30, 2022



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Certain statements contained herein constitute forward-looking statements as such term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements are not guarantees of performance. They represent our intentions, plans, expectations and beliefs and are subject to numerous assumptions, risks and uncertainties. Our future results, financial condition and business may differ materially from those expressed in these forward-looking statements. You can find many of these statements by looking for words such as "approximates," "believes," "expects," "anticipates," "estimates," "intends," "plans," "would," "may" or other similar expressions in this supplemental package. We also note the following forward-looking statements: in the case of our development and redevelopment projects, the estimated completion date, estimated project cost, projected incremental cash yield, stabilization date and cost to complete; and estimates of future capital expenditures. Many of the factors that will determine the outcome of these and our other forward-looking statements are beyond our ability to control or predict. Currently, one of the most significant factors is the ongoing adverse effect of the COVID-19 pandemic on our business, financial condition, results of operations, cash flows, operating performance and the effect it has had and may continue to have on our tenants, the global, national, regional and local economies and financial markets and the real estate market in general. The extent of the impact of the COVID-19 pandemic will continue to depend on future developments, including vaccination rates among the population, the efficacy and durability of vaccines against emerging variants, and governmental and tenant responses thereto, which continue to be uncertain but the impact could be material. For further discussion of factors that could materially affect the outcome of our forward-looking statements, see "Item 1A. Risk Factors" in Part I of our Annual Report on Form 10-K for the year ended December 31, 2021. For these statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. You are cautioned not to place undue reliance on our forward-looking statements, which speak only as of the date of this supplemental package. All subsequent written and oral forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. We do not undertake any obligation to release publicly any revisions to our forward-looking statements to reflect events or circumstances occurring after the date of this supplemental package. This supplemental package includes certain non-GAAP financial measures, which are accompanied by what Vornado Realty Trust and subsidiaries (the "Company") considers the most directly comparable financial measures calculated and presented in accordance with accounting principles generally accepted in the United States of America ("GAAP"). These include Earnings Before Interest, Taxes, Depreciation and Amortization for Real Estate ("EBITDAre"). Quantitative reconciliations of the differences between the most directly comparable GAAP financial measures and the non-GAAP financial measures presented are provided within this supplemental package. Definitions of these non-GAAP financial measures and statements of the reasons why management believes the non-GAAP measures provide useful information to investors about the Company's financial condition and results of operations, and, if applicable, the purposes for which management uses the measures, can be found in the Appendix of this supplemental package.

This supplemental package should be read in conjunction with the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2022 and the Company's Supplemental Operating and Financial Data package for the quarter ended June 30, 2022, both of which can be accessed at the Company's website www.vno.com.

FINANCIAL HIGHLIGHTS AND BUSINESS DEVELOPMENTS (unaudited)

Second Quarter 2022 Financial Highlights

Net income attributable to common shareholders for the quarter ended June 30, 2022 was \$50,418,000, or \$0.26 per diluted share, compared to \$48,045,000, or \$0.25 per diluted share, for the prior year's quarter. Adjusting for the items that impact period-to-period comparability, net income attributable to common shareholders, as adjusted (non-GAAP) for the quarter ended June 30, 2022 was \$37,403,000, or \$0.19 per diluted share, and \$26,804,000, or \$0.14 per diluted share for the prior year's quarter.

EBITDAre, as adjusted (non-GAAP) for the quarter ended June 30, 2022 was \$270,416,000, compared to \$234,096,000 for the prior year's quarter.

Liquidity

As of June 30, 2022, we have \$3.5 billion of liquidity comprised of \$1.1 billion of cash and cash equivalents and restricted cash, \$494 million of investments in U.S. Treasury bills and \$1.9 billion available on our \$2.5 billion revolving credit facilities.

PENN District Development

As of June 30, 2022, we have expended \$1,703,055,000 of cash with an estimated \$716,945,000 remaining to be spent across Farley, PENN 1, PENN 2, and PENN districtwide improvements. There can be no assurance that these projects will be completed, completed on schedule or within budget.

Second Quarter 2022 Business Developments

Disposition Activity

220 Central Park South ("220 CPS")

During the six months ended June 30, 2022, we closed on the sale of one condominium unit and ancillary amenities at 220 CPS for net proceeds of \$16,124,000 resulting in a financial statement net gain of \$7,030,000 which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income. In connection with these sales, \$945,000 of income tax expense was recognized on our consolidated statements of income. From inception to June 30, 2022, we have closed on the sale of 107 units and ancillary amenities for net proceeds of \$3,023,020,000 resulting in financial statement net gains of \$1,124,285,000.

SoHo Properties

On January 13, 2022, we sold two Manhattan retail properties located at 478-482 Broadway and 155 Spring Street for \$84,500,000 and realized net proceeds of \$81,399,000. In connection with the sale, we recognized a net gain of \$551,000 which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income.

Center Building (33-00 Northern Boulevard)

On June 17, 2022, we sold the Center Building, an eight-story 498,000 square foot office building located at 33-00 Northern Boulevard in Long Island City, New York, for \$172,750,000. We realized net proceeds of \$58,946,000 after repayment of the existing \$100,000,000 mortgage loan and closing costs. In connection with the sale, we recognized a net gain of \$15,213,000 which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income. The gain for tax purposes was approximately \$74,000,000.

Please refer to the *Appendix* for reconciliations of GAAP to non-GAAP measures.

FINANCIAL HIGHLIGHTS AND BUSINESS DEVELOPMENTS (unaudited)

Financing Activity

100 West 33rd Street

On June 15, 2022, we completed a \$480,000,000 refinancing of 100 West 33rd Street, a 1.1 million square foot building comprised of 859,000 square feet of office space and 255,000 square feet of retail space. The interest-only loan bears a rate of SOFR plus 1.65% (3.09% as of June 30, 2022) through March 2024, increasing to SOFR plus 1.85% thereafter. The loan matures in June 2027, with two one-year extension options subject to debt service coverage ratio and loan-to-value tests. The loan replaces the previous \$580,000,000 loan that bore interest at LIBOR plus 1.55% and was scheduled to mature in April 2024.

770 Broadway

On June 28, 2022, we completed a \$700,000,000 refinancing of 770 Broadway, a 1.2 million square foot Class A Manhattan office building. The interest-only loan bears a rate of SOFR plus 2.25% (3.75% as of June 30, 2022) and matures in July 2024, with three one-year extension options (July 2027 as fully extended). Upon the achievement of certain conditions within the first 18 months of closing, the interest rate will decrease to SOFR plus 1.75% and we will have the option to draw an additional \$300,000,000 of proceeds. Concurrently with the refinancing, the interest rate on \$350,000,000 of the loan was swapped to a fixed rate of 5.11% and on July 22, 2022, the interest rate on the remaining \$350,000,000 was swapped to a fixed rate of 4.85%. The swaps result in a blended fixed interest rate of 4.98% through July 2027. The loan replaces the previous \$700,000,000 loan that bore interest at SOFR plus 1.86% and was scheduled to mature in July 2022.

Unsecured Revolving Credit Facility

On June 30, 2022, we amended and extended one of our two revolving credit facilities. The \$1.25 billion amended facility bears interest at a rate of SOFR plus 1.15% (2.68% as of June 30, 2022). The term of the facility was extended from March 2024 to December 2027, as fully extended. The facility fee is 25 basis points. Our other \$1.25 billion revolving credit facility matures in April 2026, as fully extended, and bears a rate of SOFR plus 1.19% with a facility fee of 25 basis points.

Unsecured Term Loan

On June 30, 2022, we extended our \$800,000,000 unsecured term loan from February 2024 to December 2027. The extended loan bears interest at a rate of SOFR plus 1.30% (2.83% as of June 30, 2022). Under an existing swap agreement, \$750,000,000 of the \$800,000,000 loan has been swapped to a fixed rate of 4.05% through October 2023.

FINANCIAL HIGHLIGHTS AND BUSINESS DEVELOPMENTS (unaudited)

Leasing Activity For the Three Months Ended June 30, 2022:

301,000 square feet of New York Office space (231,000 square feet at share) at an initial rent of \$85.27 per square foot and a weighted average lease term of 11.5 years. The changes in the GAAP and cash mark-to-market rent on the 109,000 square feet of second generation space were positive 5.1% and positive 1.7%, respectively. Tenant improvements and leasing commissions were \$10.40 per square foot per annum, or 12.2% of initial rent.

8,000 square feet of New York Retail space (all at share) at an initial rent of \$626.76 per square foot and a weighted average lease term of 12.7 years. The changes in the GAAP and cash mark-to-market rent on the 6,000 square feet of second generation space were positive 55.0% and positive 51.3%, respectively. Tenant improvements and leasing commissions were \$66.28 per square foot per annum, or 10.6% of initial rent.

59,000 square feet at theMART (all at share) at an initial rent of \$56.33 per square foot and a weighted average lease term of 4.7 years. The changes in the GAAP and cash mark-to-market rent on the 50,000 square feet of second generation space were positive 1.0% and negative 2.6%, respectively. Tenant improvements and leasing commissions were \$4.23 per square foot per annum, or 7.5% of initial rent.

Leasing Activity For the Six Months Ended June 30, 2022:

573,000 square feet of New York Office space (467,000 square feet at share) at an initial rent of \$83.15 per square foot and a weighted average lease term of 10.2 years. The changes in the GAAP and cash mark-to-market rent on the 261,000 square feet of second generation space were positive 5.9% and positive 4.7%, respectively. Tenant improvements and leasing commissions were \$11.41 per square foot per annum, or 13.7% of initial rent.

28,000 square feet of New York Retail space (all at share) at an initial rent of \$303.57 per square foot and a weighted average lease term of 13.7 years. The changes in the GAAP and cash mark-to-market rent on the 6,000 square feet of second generation space were positive 55.0% and positive 51.3%, respectively. Tenant improvements and leasing commissions were \$28.05 per square foot per annum, or 9.2% of initial rent.

208,000 square feet at theMART (all at share) at an initial rent of \$51.64 per square foot and a weighted average lease term of 7.2 years. The changes in the GAAP and cash mark-to-market rent on the 183,000 square feet of second generation space were negative 4.8% and negative 3.9%, respectively. Tenant improvements and leasing commissions were \$10.58 per square foot per annum, or 20.5% of initial rent.

56,000 square feet at 555 California (39,000 square feet at share) at an initial rent of \$91.49 per square foot and a weighted average lease term of 6.8 years. The changes in the GAAP and cash mark-to-market rent on the 34,000 square feet of second generation space were positive 56.4% and positive 19.8%, respectively. Tenant improvements and leasing commissions were \$12.50 per square foot per annum, or 13.7% of initial rent.

UNSECURED NOTES COVENANT RATIOS AND CREDIT RATINGS (unaudited)

(Amounts in thousands)

| Unsecured Notes Covenant Ratios ⁽¹⁾ | Required | As of | | | |
|---|-------------------|---------------|----------------|-------------------|--------------------|
| | | June 30, 2022 | March 31, 2022 | December 31, 2021 | September 30, 2021 |
| Total outstanding debt/total assets ⁽²⁾ | Less than 65% | 47% | 48% | 47% | 45% |
| Secured debt/total assets | Less than 50% | 31% | 33% | 32% | 31% |
| Interest coverage ratio (annualized combined EBITDA to annualized interest expense) | Greater than 1.50 | 3.02 | 3.29 | 3.00 | 2.88 |
| Unencumbered assets/unsecured debt | Greater than 150% | 362% | 360% | 362% | 398% |

| Consolidated Unencumbered EBITDA ⁽¹⁾ (non-GAAP): | Q2 2022 Annualized |
|---|-----------------------|
| New York | \$ 243,924 |
| Other | 98,960 |
| Total | <u>\$ 342,884</u> |

| Credit Ratings ⁽³⁾ : | Rating | Outlook |
|---------------------------------|--------|----------|
| Moody's | Baa3 | Stable |
| S&P | BBB- | Stable |
| Fitch | BBB- | Negative |

(1) Our debt covenant ratios and consolidated unencumbered EBITDA are computed in accordance with the terms of our senior unsecured notes. The methodology used for these computations may differ significantly from similarly titled ratios and amounts of other companies. For additional information regarding the methodology used to compute these ratios and amounts, please see our filings with the SEC of our senior debt indentures and applicable prospectuses and prospectus supplements.

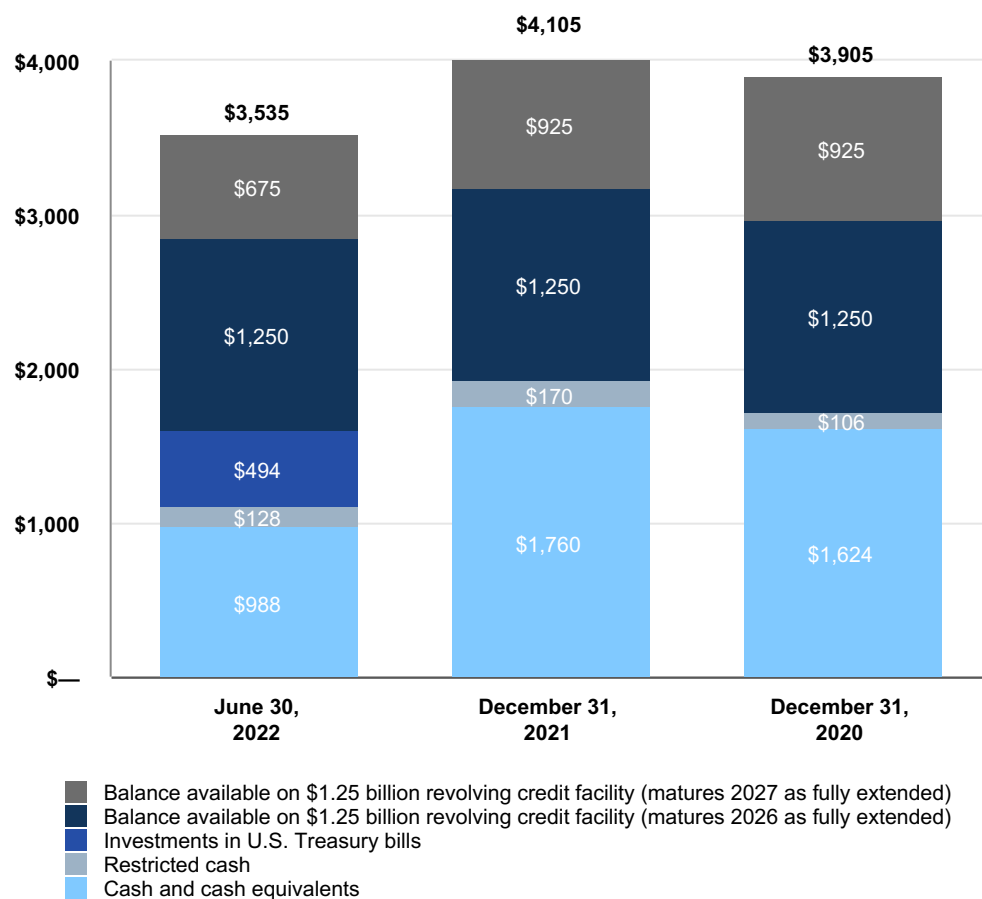
(2) Total assets include EBITDA capped at 7.0% per the terms of our senior unsecured notes covenants.

(3) Credit ratings are provided for informational purposes only and are not a recommendation to buy or sell our securities.

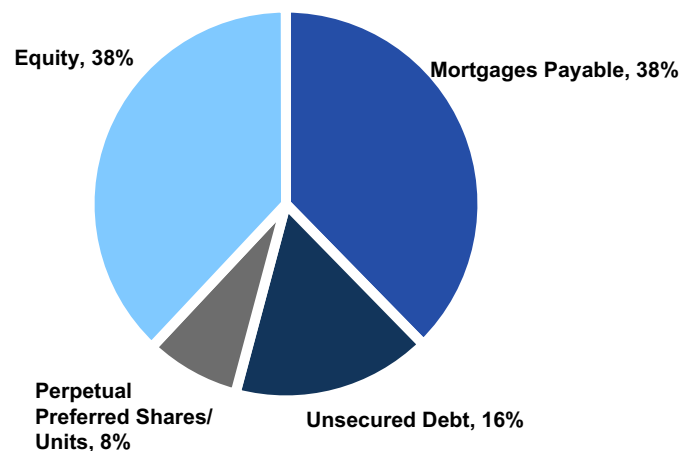
LIQUIDITY AND CAPITALIZATION (unaudited)

(Amounts in millions, except per share amounts)

Liquidity Snapshot⁽¹⁾



**Company Capitalization
(excluding our pro rata share of
unconsolidated subsidiaries)
as of June 30, 2022**



| Company capitalization ⁽²⁾ : | | |
|--|------------------|-------------|
| | Amount | % Total |
| Consolidated mortgages payable (at 100%) | \$ 5,888 | 38% |
| Unsecured debt (contractual) | 2,575 | 16% |
| Perpetual preferred shares/units | 1,223 | 8% |
| Equity ⁽³⁾ | 5,941 | 38% |
| Total | \$ 15,627 | 100% |
| Pro rata share of debt of non-consolidated entities | 2,700 | |
| Less: Noncontrolling interests' share of consolidated debt | (682) | |
| Total at share | \$ 17,645 | |

(1) Prior to June 30, 2022, the \$1.25 billion revolving credit facility maturing in 2027, as fully extended, had full capacity of \$1.5 billion.

(2) The debt balances presented above represent contractual debt balances. See reconciliation on page iii in the *Appendix* of consolidated debt, net as presented on our consolidated balance sheets to consolidated contractual debt as of June 30, 2022.

(3) Based on the Vornado Realty Trust (NYSE: VNO) June 30, 2022 quarter end closing common share price of \$28.59.

NET DEBT TO EBITDAre, AS ADJUSTED (unaudited)

(Amounts in millions)

| | As of and For the Trailing Twelve Months Ended June 30, 2022 | As of and For the Year Ended December 31, | | |
|---|--|---|-----------------|------------------------|
| | | 2021 | 2020 | 2019 |
| Secured debt | \$ 5,888 | \$ 6,099 | \$ 5,608 | \$ 5,670 |
| Unsecured debt | 2,575 | 2,575 | 1,825 | 1,775 |
| Pro rata share of debt of non-consolidated entities | 2,700 | 2,700 | 2,873 | 2,803 |
| Less: Noncontrolling interests' share of consolidated debt | (682) | (682) | (483) | (483) |
| Company's pro rata share of total debt | \$ 10,481 | \$ 10,692 | \$ 9,823 | \$ 9,765 |
| % Unsecured debt | 25% | 24% | 19% | 18% |
| Company's pro rata share of total debt | \$ 10,481 | \$ 10,692 | \$ 9,823 | \$ 9,765 |
| Less: Cash and cash equivalents, restricted cash and investments in U.S. Treasury bills | (1,610) | (1,930) | (1,730) | (1,242) ⁽¹⁾ |
| Less: Participation in 150 West 34th Street mortgage loan | (105) | (105) | (105) | (105) |
| Less: Projected cash proceeds from 220 Central Park South | (150) | (148) | (275) | (1,200) |
| Net debt | \$ 8,616 | \$ 8,509 | \$ 7,713 | \$ 7,218 |
| EBITDAre, as adjusted (non-GAAP) | \$ 1,017 | \$ 949 | \$ 910 | \$ 1,136 |
| Net debt / EBITDAre, as adjusted | 8.5 x | 9.0 x | 8.5 x | 6.4 x |

(1) 2019 includes \$33 million of investments in marketable securities sold in January 2020 and is reduced by a \$398 million accrual of a special dividend/distribution paid in January 2020.

DEBT SNAPSHOT (unaudited)

(Amounts in millions)

| | As of June 30, 2022 | | | | | |
|--|---------------------|--------------------------------|-------------------------|--------------------------------|-----------------|--------------------------------|
| | Total | | Variable | | Fixed | |
| | Amount | Weighted Average Interest Rate | Amount | Weighted Average Interest Rate | Amount | Weighted Average Interest Rate |
| (Contractual debt balances) | | | | | | |
| Consolidated debt ⁽¹⁾ | \$ 8,463 | 3.09% | \$ 3,973 ⁽²⁾ | 2.92% | \$ 4,490 | 3.24% |
| Pro rata share of debt of non-consolidated entities | 2,700 | 3.34% | 1,270 | 2.90% | 1,430 | 3.73% |
| Total | 11,163 | 3.15% | 5,243 | 2.91% | 5,920 | 3.36% |
| Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas and 555 California Street) | (682) | | (682) | | — | |
| Company's pro rata share of total debt | \$ 10,481 | 3.15% | \$ 4,561 | 2.89% | \$ 5,920 | 3.36% |

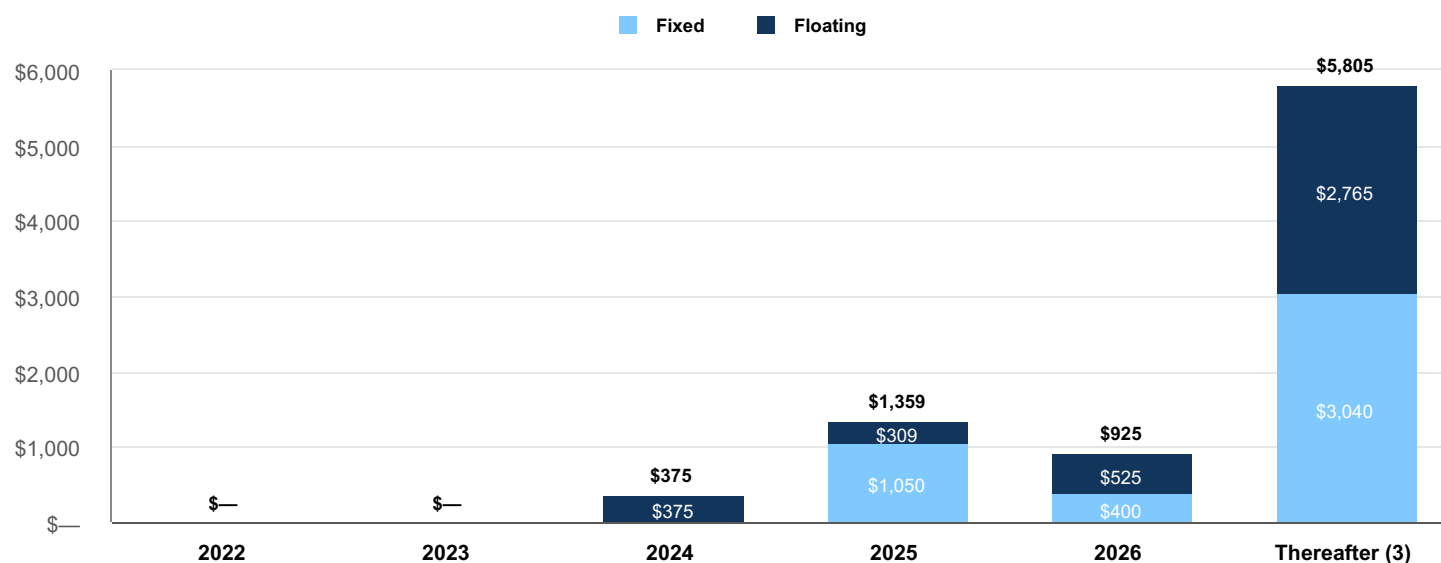
(1) See reconciliation on page iii in the *Appendix* of consolidated debt, net as presented on our consolidated balance sheets to consolidated contractual debt as of June 30, 2022.

(2) As of June 30, 2022, our variable rate debt includes \$350 of the \$700 mortgage loan on 770 Broadway. On July 22, 2022, the interest rate on the \$350 was swapped to a fixed rate. The entire \$700 loan now bears interest at a blended fixed rate of 4.98%.

CONSOLIDATED DEBT MATURITIES (CONTRACTUAL BALANCES) (unaudited)

(Amounts in millions)

Consolidated Debt Maturity Schedule⁽¹⁾
as of June 30, 2022
(Excludes pro rata share of JV debt)⁽²⁾



Consolidated (100%):

| | | | | | | | | | | | | |
|---------------------------------------|-----------|----------|-----------|----------|-----------|------------|-----------|--------------|-----------|------------|-----------|--------------|
| Secured | \$ | — | \$ | — | \$ | 375 | \$ | 909 | \$ | 525 | \$ | 4,080 |
| Unsecured | | — | | — | | — | | 450 | | 400 | | 1,725 |
| Total consolidated debt (100%) | \$ | — | \$ | — | \$ | 375 | \$ | 1,359 | \$ | 925 | \$ | 5,805 |
| % of total consolidated debt | | — % | | — % | | 4.4 % | | 16.1 % | | 10.9 % | | 68.6 % |

Debt maturities at share:

| | | | | | | | | | | | | |
|--|-----------|------------|-----------|-----------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| Consolidated debt (100%) | \$ | — | \$ | — | \$ | 375 | \$ | 1,359 | \$ | 925 | \$ | 5,805 |
| Pro rata share of debt of non-consolidated entities | | 229 | | 46 | | 1,137 | | 505 | | 581 | | 201 |
| Less: Noncontrolling interests' share of consolidated debt | | — | | — | | (37) | | — | | — | | (645) |
| Total debt at share | \$ | 229 | \$ | 46 | \$ | 1,475 | \$ | 1,864 | \$ | 1,506 | \$ | 5,361 |
| % of total debt at share | | 2.2 % | | 0.4 % | | 14.1 % | | 17.8 % | | 14.4 % | | 51.1 % |

(1) Represents the extended maturity for certain loans in which we have the unilateral right to extend.

(2) Vornado Realty L.P. guarantees \$800 million of JV partnership debt comprised of the \$300 million mortgage loan on 7 West 34th Street and \$500 million mortgage loan on 640 Fifth Avenue included in the Fifth Avenue and Times Square JV. This \$800 million is excluded from the schedule presented above.

(3) As of June 30, 2022, our floating rate debt includes \$350 of the \$700 mortgage loan on 770 Broadway which matures in July 2027, as fully extended. On July 22, 2022, the interest rate on the \$350 was swapped to a fixed rate. The entire \$700 loan now bears interest at a blended fixed rate of 4.98%.

CONSOLIDATED DEBT MATURITIES AT 100% (CONTRACTUAL BALANCES) (unaudited)

(Amounts in thousands)

| Property | Maturity Date ⁽¹⁾ | Spread over LIBOR/SOFR | Interest Rate | 2022 | 2023 | 2024 | 2025 | 2026 | Thereafter | Total |
|--|------------------------------|------------------------|----------------------|-------|-------|------------------------|--------------|------------|--------------|--------------|
| Secured Debt: | | | | | | | | | | |
| 435 Seventh Avenue | 02/24 | L+130 | 2.42% | \$ — | \$ — | \$ 95,696 | \$ — | \$ — | \$ — | \$ 95,696 |
| 150 West 34th Street | 05/24 | L+188 | 3.00% | — | — | 205,000 ⁽²⁾ | — | — | — | 205,000 |
| 606 Broadway (50.0% interest) | 09/24 | L+180 | 3.00% | — | — | 74,119 | — | — | — | 74,119 |
| 4 Union Square South | 08/25 | | 3.53% ⁽³⁾ | — | — | — | 120,000 | — | — | 120,000 |
| PENN 11 | 10/25 | | 2.23% ⁽⁴⁾ | — | — | — | 500,000 | — | — | 500,000 |
| 888 Seventh Avenue | 12/25 | L+170 | 2.95% | — | — | — | 288,600 | — | — | 288,600 |
| One Park Avenue | 03/26 | L+111 | 2.43% | — | — | — | — | 525,000 | — | 525,000 |
| 350 Park Avenue | 01/27 | | 3.92% | — | — | — | — | — | 400,000 | 400,000 |
| 100 West 33rd Street | 06/27 | S+165 | 3.09% | — | — | — | — | — | 480,000 | 480,000 |
| 770 Broadway | 07/27 | | 4.43% ⁽⁵⁾ | — | — | — | — | — | 700,000 | 700,000 |
| 555 California Street (70.0% interest) | 05/28 | | 2.56% ⁽⁶⁾ | — | — | — | — | — | 1,200,000 | 1,200,000 |
| 1290 Avenue of the Americas (70.0% interest) | 11/28 | L+151 | 2.83% | — | — | — | — | — | 950,000 | 950,000 |
| 909 Third Avenue | 04/31 | | 3.23% | — | — | — | — | — | 350,000 | 350,000 |
| Total Secured Debt | | | | — | — | 374,815 | 908,600 | 525,000 | 4,080,000 | 5,888,415 |
| Unsecured Debt: | | | | | | | | | | |
| Senior unsecured notes due 2025 | 01/25 | | 3.50% | — | — | — | 450,000 | — | — | 450,000 |
| \$1.25 Billion unsecured revolving credit facility | 04/26 | S+119 | 0.00% | — | — | — | — | — | — | — |
| Senior unsecured notes due 2026 | 06/26 | | 2.15% | — | — | — | — | 400,000 | — | 400,000 |
| \$1.25 Billion unsecured revolving credit facility | 12/27 | S+115 | 2.68% | — | — | — | — | — | 575,000 | 575,000 |
| \$800 Million unsecured term loan | 12/27 | | 3.98% ⁽⁷⁾ | — | — | — | — | — | 800,000 | 800,000 |
| Senior unsecured notes due 2031 | 06/31 | | 3.40% | — | — | — | — | — | 350,000 | 350,000 |
| Total Unsecured Debt | | | | — | — | — | 450,000 | 400,000 | 1,725,000 | 2,575,000 |
| Total Debt | | | | \$ — | \$ — | \$ 374,815 | \$ 1,358,600 | \$ 925,000 | \$ 5,805,000 | \$ 8,463,415 |
| Weighted average rate | | | | 0.00% | 0.00% | 2.85% | 2.92% | 2.31% | 3.26% | 3.09% |
| Fixed rate debt | | | | \$ — | \$ — | \$ — | \$ 1,050,000 | \$ 400,000 | \$ 3,040,000 | \$ 4,490,000 |
| Fixed weighted average rate expiring | | | | 0.00% | 0.00% | 0.00% | 2.92% | 2.15% | 3.49% | 3.24% |
| Floating rate debt | | | | \$ — | \$ — | \$ 374,815 | \$ 308,600 | \$ 525,000 | \$ 2,765,000 | \$ 3,973,415 |
| Floating weighted average rate expiring | | | | 0.00% | 0.00% | 2.85% | 2.92% | 2.43% | 3.01% | 2.92% |

(1) Represents the extended maturity for certain loans in which we have the unilateral right to extend.

(2) We hold a \$105,000 participation in the mortgage loan which is included in "other assets" on our consolidated balance sheets.

(3) Upon the sale of 33-00 Northern Boulevard in June 2022, the \$100,000 corporate-level interest rate swap was reallocated and now hedges the interest rate on \$100,000 of the 4 Union Square South mortgage loan through January 2025. The remaining \$20,000 mortgage loan balance bears interest at a floating rate of LIBOR plus 1.40% (2.46% as of June 30, 2022). The entire \$120,000 will float thereafter for the duration of the loan.

(4) Pursuant to an existing swap agreement, the loan bears interest at 2.23% through March 2024. The rate was swapped from LIBOR plus 1.95% (3.07% as of June 30, 2022).

(5) Upon the June 28, 2022 refinancing of the mortgage loan, the interest rate on \$350,000 of the loan was swapped to a fixed rate of 5.11% and on July 22, 2022, the interest rate on the remaining \$350,000 was swapped to a fixed rate of 4.85%. The swaps result in a blended fixed interest rate of 4.98% through July 2027.

(6) Pursuant to an existing swap agreement, our \$840,000 share of the loan bears interest at a fixed rate of 2.26% through May 2024, and the balance of \$360,000 floats at a rate of LIBOR plus 1.93% (3.26% as of June 30, 2022). The entire \$1,200,000 will float thereafter for the duration of the loan.

(7) Pursuant to an existing swap agreement, \$750,000 of the loan bears interest at a fixed rate of 4.05% through October 2023, and the balance of \$50,000 floats at a rate of SOFR plus 1.30% (2.83% as of June 30, 2022). The entire \$800,000 will float thereafter for the duration of the loan.

TOP 15 TENANTS (unaudited)

(Amounts in thousands, except square feet)

| | Credit Ratings (Moody's / S&P) ⁽¹⁾ | Square Footage At Share | Annualized Escalated Rents At Share ⁽²⁾ | % of Total Annualized Escalated Rents At Share |
|---|--|----------------------------|--|---|
| Meta Platforms, Inc. | NR / NR | 1,451,153 | \$ 158,066 | 8.6 % |
| IPG and affiliates | Baa2 / BBB | 967,552 | 67,028 | 3.6 % |
| New York University | Aa2 / AA- | 685,290 | 45,013 | 2.4 % |
| Google/Motorola Mobility (guaranteed by Google) | Aa2 / AA+ | 759,446 | 42,819 | 2.3 % |
| Bloomberg L.P. | NR / NR | 306,768 | 40,356 | 2.2 % |
| Equitable Financial Life Insurance Company | A1 / A+ | 336,644 | 35,530 | 1.9 % |
| Swatch Group USA | NR / NR | 14,949 | 34,456 | 1.9 % |
| Yahoo Inc. | NR / NR | 313,726 | 32,248 | 1.7 % |
| Amazon (including its Whole Foods subsidiary) | A1 / AA | 312,694 | 30,094 | 1.6 % |
| Neuberger Berman Group LLC | Baa2 / BBB+ | 306,612 | 27,353 | 1.5 % |
| Madison Square Garden & Affiliates | NR / NR | 412,551 | 25,741 | 1.4 % |
| AMC Networks, Inc. | Ba2 / BB | 326,717 | 25,441 | 1.4 % |
| Apple | Aaa / AA+ | 412,434 | 24,096 | 1.3 % |
| Bank of America | A2 / A- | 247,459 | 23,984 | 1.3 % |
| LVMH Brands | A1 / A+ | 65,060 | 22,952 | 1.2 % |
| | | | | 34.3 % |

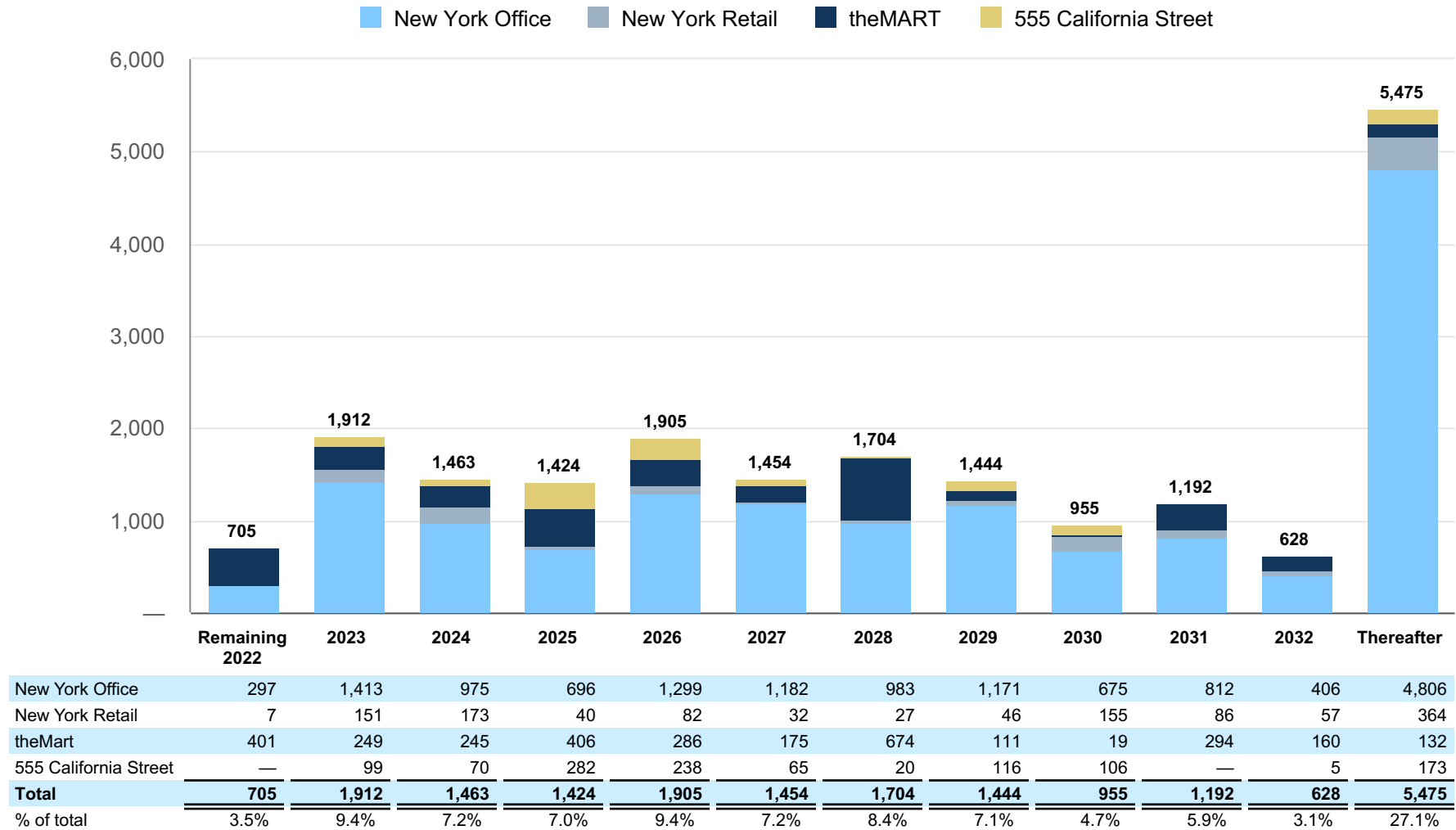
(1) NR denotes "not rated."

(2) Represents monthly contractual base rent before free rent plus tenant reimbursements multiplied by 12. Annualized escalated rents at share include leases signed but not yet commenced in place of current tenants or vacancy in the same space.

LEASE EXPIRATIONS (unaudited)

(Amounts in thousands)

Our Share of Square Feet of Expiring Leases As of June 30, 2022



PENN DISTRICT

ACTIVE DEVELOPMENT/REDEVELOPMENT SUMMARY - AS OF JUNE 30, 2022 (unaudited)

(Amounts in thousands of dollars, except square feet)

| Active PENN District Projects | Segment | Property Rentable Sq. Ft. | Budget(1) | Cash Amount Expended | Remaining Expenditures | Stabilization Year | Projected Incremental Cash Yield |
|---|----------|---------------------------------|------------------|-------------------------|---------------------------|-----------------------|-------------------------------------|
| Farley (95% interest) | New York | 845,000 | 1,120,000 (2) | 1,059,403 (2) | 60,597 | 2022 | 6.4% |
| PENN 2 - as expanded | New York | 1,795,000 | 750,000 | 268,409 | 481,591 | 2025 | 9.0% |
| PENN 1 (including LIRR Concourse Retail) ⁽³⁾ | New York | 2,527,000 | 450,000 | 337,360 | 112,640 | N/A | 12.2% (3)(4) |
| Districtwide Improvements | New York | N/A | 100,000 | 37,883 | 62,117 | N/A | N/A |
| Total Active PENN District Projects | | | 2,420,000 | 1,703,055 | 716,945 | | 8.0% |

(1) Excluding debt and equity carry.

(2) Net of 154,000 of historic tax credit investor contributions, of which 88,000 has been funded to date (at our 95% share).

(3) Property is ground leased through 2098, as fully extended. Fair market value resets occur in 2023, 2048 and 2073. The 12.2% projected return is before the ground rent reset in 2023, which may be material.

(4) Projected to be achieved as pre-redevelopment leases roll; approximate average remaining lease term 3.6 years.

There can be no assurance that the above projects will be completed, completed on schedule or within budget. In addition, there can be no assurance that the Company will be successful in leasing the properties on the expected schedule or at the assumed rental rates.

APPENDIX

NON-GAAP RECONCILIATIONS

NON-GAAP RECONCILIATIONS

RECONCILIATION OF NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS TO NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS, AS ADJUSTED (unaudited)

(Amounts in thousands, except per share amounts)

| | For the Three Months Ended June 30, | |
|---|--|-------------|
| | 2022 | 2021 |
| Net income attributable to common shareholders | \$ 50,418 | \$ 48,045 |
| Per diluted share | \$ 0.26 | \$ 0.25 |
| Certain (income) expense items that impact net income attributable to common shareholders: | | |
| Net gain on sale of the Center Building (33-00 Northern Boulevard, Long Island City, NY) | \$ (15,213) | \$ — |
| Refund of New York City transfer taxes related to the April 2019 transfer to Fifth Avenue and Times Square JV | (13,613) | — |
| Hotel Pennsylvania loss | 8,931 | 4,992 |
| Deferred tax liability on our investment in Farley Office and Retail (held through a taxable REIT subsidiary) | 3,234 | — |
| After-tax net gain on sale of 220 CPS condominium unit(s) and ancillary amenities | (673) | (22,208) |
| Other | 3,760 | (5,508) |
| | (13,574) | (22,724) |
| Noncontrolling interests' share of above adjustments | 559 | 1,483 |
| Total of certain (income) expense items that impact net income attributable to common shareholders | \$ (13,015) | \$ (21,241) |
| Net income attributable to common shareholders, as adjusted (non-GAAP) | \$ 37,403 | \$ 26,804 |
| Per diluted share (non-GAAP) | \$ 0.19 | \$ 0.14 |

NON-GAAP RECONCILIATIONS

CONSOLIDATED DEBT, NET TO CONSOLIDATED CONTRACTUAL DEBT (unaudited)

(Amounts in thousands)

| | As of June 30, 2022 | | |
|---|---------------------------|--|----------------------------------|
| | Consolidated Debt, Net | Deferred Financing Costs, Net and Other | Consolidated Contractual Debt |
| Mortgages payable | \$ 5,834,275 | \$ 54,140 | \$ 5,888,415 |
| Senior unsecured notes | 1,190,812 | 9,188 | 1,200,000 |
| \$800 Million unsecured term loan | 792,644 | 7,356 | 800,000 |
| \$2.5 Billion unsecured revolving credit facilities | 575,000 | — | 575,000 |
| | <u>\$ 8,392,731</u> | <u>\$ 70,684</u> | <u>\$ 8,463,415</u> |

NON-GAAP RECONCILIATIONS

RECONCILIATION OF NET INCOME TO EBITDAre (unaudited)

(Amounts in thousands)

EBITDAre (i.e., EBITDA for real estate companies) is a non-GAAP financial measure established by the National Association of Real Estate Investment Trusts ("NAREIT"), which may not be comparable to EBITDA reported by other REITs that do not compute EBITDA in accordance with the NAREIT definition. NAREIT defines EBITDAre as GAAP net income or loss, plus interest expense, plus income tax expense, plus depreciation and amortization, plus (minus) losses and gains on the disposition of depreciated property including losses and gains on change of control, plus impairment write-downs of depreciated property and of investments in unconsolidated joint ventures caused by a decrease in value of depreciated property in the joint venture, plus adjustments to reflect the entity's share of EBITDA of unconsolidated joint ventures. The Company has included EBITDAre because it is a performance measure used by other REITs and therefore may provide useful information to investors in comparing Vornado's performance to that of other REITs.

| | For the Three Months Ended June 30, | | For the Trailing Twelve Months Ended | For the Year Ended December 31, | | |
|--|--|-------------------|--|---------------------------------|---------------------|---------------------|
| | 2022 | 2021 | June 30, 2022 | 2021 | 2020 | 2019 |
| Reconciliation of net income to EBITDAre (non-GAAP): | | | | | | |
| Net income | \$ 68,903 | \$ 76,832 | \$ 226,006 | \$ 207,553 | \$ (461,845) | \$ 3,334,262 |
| Less net loss (income) attributable to noncontrolling interests in consolidated subsidiaries | 826 | (8,784) | (17,664) | (24,014) | 139,894 | 24,547 |
| Net income attributable to the Operating Partnership | 69,729 | 68,048 | 208,342 | 183,539 | (321,951) | 3,358,809 |
| EBITDAre adjustments at share: | | | | | | |
| Depreciation and amortization expense | 141,498 | 118,925 | 564,113 | 526,539 | 532,298 | 530,473 |
| Interest and debt expense | 81,925 | 70,247 | 310,109 | 297,116 | 309,003 | 390,139 |
| Net gain on sale of real estate | (27,978) | (3,052) | (41,152) | (15,675) | — | (178,711) |
| Income tax expense | 3,749 | 2,862 | (3,330) | (9,813) | 36,253 | 103,917 |
| Real estate impairment losses | — | — | 7,880 | 7,880 | 236,286 | 32,001 |
| Non-cash impairment loss on our investment in Fifth Avenue and Times Square JV, reversing a portion of the \$2.559 billion gain recognized on the April 2019 transfer to the Joint Venture attributable to the GAAP required write-up of the retained interest | — | — | — | — | 409,060 | — |
| Net gain on transfer to Fifth Avenue and Times Square JV on April 18, 2019, net of \$11,945 attributable to noncontrolling interests | — | — | — | — | — | (2,559,154) |
| EBITDAre at share | 268,923 | 257,030 | 1,045,962 | 989,586 | 1,200,949 | 1,677,474 |
| EBITDAre attributable to noncontrolling interests in consolidated subsidiaries | 15,303 | 19,850 | 78,434 | 75,987 | (91,155) | 8,150 |
| EBITDAre (non-GAAP) | <u>\$ 284,226</u> | <u>\$ 276,880</u> | <u>\$ 1,124,396</u> | <u>\$ 1,065,573</u> | <u>\$ 1,109,794</u> | <u>\$ 1,685,624</u> |

NON-GAAP RECONCILIATIONS

RECONCILIATION OF EBITDAre TO EBITDAre, AS ADJUSTED (unaudited)

(Amounts in thousands)

| | For the Three Months Ended June 30, | | For the Trailing Twelve Months Ended | For the Year Ended December 31, | | |
|--|--|------------|--|---------------------------------|--------------|--------------|
| | 2022 | 2021 | June 30, 2022 | 2021 | 2020 | 2019 |
| EBITDAre (non-GAAP) | \$ 284,226 | \$ 276,880 | \$ 1,124,396 | \$ 1,065,573 | \$ 1,109,794 | \$ 1,685,624 |
| EBITDAre attributable to noncontrolling interests in consolidated subsidiaries | (15,303) | (19,850) | (78,434) | (75,987) | 91,155 | (8,150) |
| Certain (income) expense items that impact EBITDAre: | | | | | | |
| Gain on sale of 220 CPS condominium unit(s) and ancillary amenities | (1,029) | (25,272) | (32,076) | (50,318) | (381,320) | (604,393) |
| Our share of (income) loss from real estate fund investments | (223) | (1,639) | (3,791) | (3,757) | 63,114 | 48,808 |
| Hotel Pennsylvania loss (income) | — | 4,977 | — | 11,625 | 31,139 | (8,264) |
| Mark-to-market decrease in PREIT common shares (accounted for as a marketable security from March 12, 2019 and sold on January 23, 2020) | — | — | — | — | 4,938 | 21,649 |
| Other | 2,745 | (1,000) | 6,932 | 1,840 | (8,527) | 343 |
| Total of certain (income) expense items that impact EBITDAre | 1,493 | (22,934) | (28,935) | (40,610) | (290,656) | (541,857) |
| EBITDAre, as adjusted (non-GAAP) | \$ 270,416 | \$ 234,096 | \$ 1,017,027 | \$ 948,976 | \$ 910,293 | \$ 1,135,617 |

VORNADO

REALTY TRUST

Supplemental Fixed Income Data

For the Quarter Ended
June 30, 2022

