

## VORNADO <br> REALTY TRUST

SUPPLEMENTAL OPERATING
AND FINANCIAL DATA
For the Quarter ended September 30, 2018

## VORNADO

## REALTY TRUST

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 or circumstances occurring after the date of our Annual Report on Form 10-K, or Quarterly Report on Form 10-Q, as applicable, and this supplemental package.

## VORNADO <br> REALTY TRUST

## BUSINESS DEVELOPMENTS

## Acquisition Activities

537 West 26th Street
On February 9, 2018, we acquired 537 West 26th Street, a 14,000 square foot commercial property adjacent to our 260 Eleventh Avenue office property, and 55,000 square feet of additional zoning air rights for $\$ 44,000,000$.

## 1535 Broadway

On July 30, 2012, we entered into a lease with Host Hotels \& Resorts, Inc. (NYSE: HST) ("Host"), under which we redeveloped the retail and signage components of the Marriott Times Square Hotel. We accounted for this lease as a "capital lease" and recorded a $\$ 240,000,000$ capital lease asset and liability. On September 21, 2018, we acquired the retail condominium from Host for $\$ 442,000,000$ (inclusive of the $\$ 240,000,000$ capital lease liability). The original lease transaction provided that we would become the $100 \%$ owner through a put/call arrangement, based on a pre-negotiated formula. This transaction satisfies the put/call arrangement. Our $100 \%$ fee interest includes 45,000 square feet of retail, the 1,611 seat Marquis Theater and the largest digital sign in New York with a 330 linear foot, 25,000 square foot display.

## Disposition Activities

## 11 East 68th Street

On January 17, 2018, Vornado Capital Partners Real Estate Fund (the "Fund") completed the sale of the retail condominium at 11 East 68th Street, a property located on Madison Avenue and 68th Street, for $\$ 82,000,000$. From the inception of this investment through its disposition, the Fund realized a $\$ 46,259,000$ net gain.

## 27 Washington Square North

On June 21, 2018, we completed the $\$ 45,000,000$ sale of 27 Washington Square North, which resulted in a net gain of $\$ 23,559,000$ which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income. We acquired the property in December 2015 for \$20,000,000

## 666 Fifth Avenue Office Condominium

On August 3, 2018, we completed the sale of our $49.5 \%$ interests in the 666 Fifth Avenue Office Condominium. We received net proceeds of $\$ 120,000,000$ and recognized a financial statement gain of $\$ 134,032,000$ which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income for the three and nine months ended September 30, 2018. The gain for tax purposes was approximately $\$ 244,000,000$. We continue to own all of the 666 Fifth Avenue Retail Condominium encompassing the Uniqlo, Tissot and Hollister stores with 125 linear feet of frontage on Fifth Avenue between 52nd and 53rd Street.

Concurrently with the sale of our interests, the existing mortgage loan on the property was repaid and we received net proceeds of $\$ 55,244,000$ for the participation we held in the mortgage loan. We recognized a financial statement gain of $\$ 7,308,000$, which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income for the three and nine months ended September 30, 2018.

## VORNADO <br> REALTY TRUST

## BUSINESS DEVELOPMENTS

## Financing Activities

On January 4 and 11, 2018, we redeemed all of the outstanding $6.625 \%$ Series $G$ and Series I cumulative redeemable preferred shares at their redemption price of $\$ 25.00$ per share, or $\$ 470,000,000$ in the aggregate, plus accrued and unpaid dividends through the date of redemption, and expensed $\$ 14,486,000$ of previously capitalized issuance costs.

On January 5, 2018, we completed a $\$ 100,000,000$ refinancing of $33-00$ Northern Boulevard (Center Building), a 471,000 square foot office building in Long Island City, New York. The seven-year loan is at LIBOR plus $1.80 \%$, which was swapped to a fixed rate of $4.14 \%$. We realized net proceeds of approximately $\$ 37,200,000$ after repayment of the existing $4.43 \%$ \$59,800,000 mortgage and closing costs.

On April 19, 2018, the joint venture between our Fund ( $25 \%$ owned) and our Crowne Plaza Joint Venture ( $57.1 \%$ owned) completed a $\$ 255,000,000$ refinancing of the Crowne Plaza Times Square Hotel. The interest-only loan is at LIBOR plus $3.51 \%$ ( $5.66 \%$ at September 30, 2018) and matures in May 2020 with three one-year extension options. In connection therewith, the joint venture purchased an interest rate cap that caps LIBOR at a rate of $4.00 \%$. The Crowne Plaza Times Square Hotel was previously encumbered by a $\$ 310,000,000$ interest-only mortgage at LIBOR plus $2.80 \%$, which was scheduled to mature in December 2018

On June 11, 2018, the joint venture ( $50.1 \%$ owned) that owns Independence Plaza, a three-building 1,327 unit residential complex in the Tribeca submarket of Manhattan completed a $\$ 675,000,000$ refinancing of Independence Plaza. The seven-year interest-only loan matures in July 2025 and has a fixed rate of $4.25 \%$. Our share of net proceeds, after repayment of the existing $3.48 \% \$ 550,000,000$ mortgage and closing costs, was $\$ 55,618,000$

On August 9, 2018, we completed a $\$ 120,000,000$ refinancing of 4 Union Square South, a 206,000 square foot Manhattan retail property. The interest-only loan carries a rate of LIBOR plus $1.40 \%(3.50 \%$ as of September 30, 2018) and matures in 2025 , as extended. The property was previously encumbered by a $\$ 113,000,000$ mortgage at LIBOR plus $2.15 \%$, which was scheduled to mature in 2019.

On October 26, 2018, we extended our $\$ 750,000,000$ unsecured term loan from October 2020 to February 2024. The interest rate on the extended unsecured term loan was lowered from LIBOR plus $1.15 \%$ to LIBOR plus $1.00 \%$ ( $3.30 \%$ as of October 26, 2018)

## Third Quarter Leasing Activity

312,000 square feet of New York Office space ( 308,000 square feet at share) at an initial rent of $\$ 67.35$ per square foot and a weighted average term of 9.5 years. The GAAP and cash mark-to-markets on the 203,000 square feet of second generation space were positive $26.5 \%$ and $11.8 \%$, respectively. Tenant improvements and leasing commissions were $\$ 9.52$ per square foot per annum, or $14.1 \%$ of initial rent.

104,000 square feet of New York Retail space ( 99,000 square feet at share) at an initial rent of $\$ 135.05$ per square foot and a weighted average term of 5.7 years. The GAAP and cash mark-to-markets on the 95,000 square feet of second generation space were negative $40.0 \%$ (resulting from an accounting adjustment at acquisition of the property in 2015 under which we marked the rent up to market) and positive $36.3 \%$, respectively. Tenant improvements and leasing commissions were $\$ 3.24$ per square foot per annum, or $2.4 \%$ of initial rent.

28,000 square feet at theMART (all at share) at an initial rent of $\$ 57.92$ per square foot and a weighted average term of 7.4 years. The GAAP and cash mark-to-markets on the 23,000 square feet of second generation space were positive $14.4 \%$ and $1.9 \%$, respectively. Tenant improvements and leasing commissions were $\$ 2.91$ per square foot per annum, or $5.0 \%$ of initial rent.

160,000 square feet at 555 California Street ( 112,000 square feet at share) at an initial rent of $\$ 91.16$ per square foot and a weighted average term of 12.1 years. The GAAP and cash mark-to-markets on the 33,000 square feet of second generation space were positive $30.4 \%$ and $10.4 \%$, respectively. Tenant improvements and leasing commissions were $\$ 8.41$ per square foot per annum, or $9.2 \%$ of initial rent.

## VORNADO <br> REALTY TRUST

FINANCIAL HIGHLIGHTS
(unaudited and in thousands, except per share amounts)

|  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 30, |  |  |  | June 30, 2018 |  |  |  |  |  |  |
|  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |  |
| Total revenues | \$ | 542,048 | \$ | 528,755 | \$ | 541,818 | \$ | 1,620,303 | \$ | 1,547,900 |  |
| Net income (loss) attributable to common shareholders | \$ | 190,645 | \$ | $(29,026)$ | \$ | 111,534 | \$ | 284,338 | \$ | 134,698 |  |
| Per common share: |  |  |  |  |  |  |  |  |  |  |  |
| Basic | \$ | 1.00 | \$ | (0.15) | \$ | 0.59 | \$ | 1.50 | \$ | 0.71 |  |
| Diluted | \$ | 1.00 | \$ | (0.15) | \$ | 0.58 | \$ | 1.49 | \$ | 0.71 |  |
| Net income attributable to common shareholders, as adjusted (non-GAAP) | \$ | 66,160 | \$ | 72,998 | \$ | 70,433 | \$ | 192,948 | \$ | 187,293 |  |
| Per diluted share (non-GAAP) | \$ | 0.35 | \$ | 0.38 | \$ | 0.37 | \$ | 1.01 | \$ | 0.98 |  |
| FFO attributable to common shareholders plus assumed conversions, as adjusted (non-GAAP) | \$ | 185,635 | \$ | 185,126 | \$ | 187,678 | \$ | 547,547 | \$ | 525,478 |  |
| Per diluted share (non-GAAP) | \$ | 0.97 | \$ | 0.97 | \$ | 0.98 | \$ | 2.86 | \$ | 2.75 |  |
| FFO attributable to common shareholders plus assumed conversions (non-GAAP) | \$ | 182,516 | \$ | 100,178 | \$ | 209,680 | \$ | 494,941 | \$ | 564,431 |  |
| FFO - Operating Partnership Basis ("OP Basis") (non-GAAP) | \$ | 194,873 | \$ | 106,954 | \$ | 223,851 | \$ | 528,150 | \$ | 601,660 |  |
| Per diluted share (non-GAAP) | \$ | 0.95 | \$ | 0.52 | \$ | 1.10 | \$ | 2.59 | \$ | 2.95 |  |
| Dividends per common share | \$ | 0.63 | \$ | 0.60 | \$ | 0.63 | \$ | 1.89 | \$ | 2.02 | ${ }^{(1)}$ |
| FFO payout ratio (based on FFO attributable to common shareholders plus assumed conversions, as adjusted) |  | 64.9\% |  | 61.9\% |  | 64.3\% |  | 66.1\% |  | 73.5\% |  |
| FAD payout ratio |  | 80.8\% |  | 87.0\% |  | 92.6\% |  | 87.5\% |  | 88.2\% |  |
| Weighted average shares used in determining FFO attributable to common shareholders plus assumed conversions per diluted share (REIT basis) |  | 191,327 |  | 190,893 |  | 191,168 |  | 191,292 |  | 191,304 |  |
| Convertible units: |  |  |  |  |  |  |  |  |  |  |  |
| Class A |  | 11,858 |  | 11,707 |  | 11,864 |  | 11,857 |  | 11,692 |  |
| D-13 |  | 635 |  | 594 |  | 680 |  | 673 |  | 510 |  |
| G1-G4 |  | 52 |  | 52 |  | 54 |  | 54 |  | 53 |  |
| Equity awards - unit equivalents |  | 409 |  | 558 |  | 322 |  | 251 |  | 363 |  |
| Weighted average shares used in determining FFO attributable to Class A unitholders plus assumed conversions per diluted share (OP Basis) |  | 204,281 |  | 203,804 |  | 204,088 |  | 204,127 |  | 203,922 |  |

(1) Includes dividends related to the operations of properties included in the July 17, 2017 spin-off of JBG SMITH Properties (NYSE: JBGS).

## VORNADO

REALTY TRUST

## CONSOLIDATED NET INCOME (LOSS) ATTRIBUTABLE TO COMMON SHAREHOLDERS

(unaudited and in thousands)

|  | For the Three Months Ended |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 30, |  |  |  |  |  | $\begin{gathered} \text { June } 30, \\ 2018 \\ \hline \end{gathered}$ |  |
|  | 2018 |  | 2017 |  | Inc (Dec) |  |  |  |
| Property rentals | \$ | 427,030 | \$ | 411,838 | \$ | 15,192 | \$ | 431,377 |
| Straight-lining of rents |  | 157 |  | 9,170 |  | $(9,013)$ |  | 2,692 |
| Amortization of acquired below-market leases, net |  | 10,373 |  | 11,054 |  | (681) |  | 10,526 |
| Total property rentals |  | 437,560 |  | 432,062 |  | 5,498 |  | 444,595 |
| Tenant expense reimbursements |  | 66,387 |  | 63,401 |  | 2,986 |  | 58,312 |
| Fee and other income: |  |  |  |  |  |  |  |  |
| BMS cleaning fees |  | 28,873 |  | 26,429 |  | 2,444 |  | 30,867 |
| Management and leasing fees |  | 4,734 |  | 2,330 |  | 2,404 |  | 2,707 |
| Lease termination fees |  | 356 |  | 991 |  | (635) |  | 804 |
| Other income |  | 4,138 |  | 3,542 |  | 596 |  | 4,533 |
| Total revenues |  | 542,048 |  | 528,755 |  | 13,293 |  | 541,818 |
| Operating expenses |  | 235,575 |  | 225,226 |  | 10,349 |  | 235,981 |
| Depreciation and amortization |  | 113,169 |  | 104,972 |  | 8,197 |  | 111,846 |
| General and administrative |  | 31,977 |  | 34,286 |  | $(2,309)$ |  | 34,427 |
| Expense from deferred compensation plan liability |  | 1,861 |  | 1,975 |  | (114) |  | 2,077 |
| Transaction related costs and other |  | 2,510 |  | 61 |  | 2,449 |  | 1,017 |
| Total expenses |  | 385,092 |  | 366,520 |  | 18,572 |  | 385,348 |
| Operating income |  | 156,956 |  | 162,235 |  | $(5,279)$ |  | 156,470 |
| Income (loss) from partially owned entities |  | 7,206 |  | $(41,801)$ |  | 49,007 |  | 8,757 |
| (Loss) from real estate fund investments |  | (190) |  | $(6,308)$ |  | 6,118 |  | $(28,976)$ |
| Interest and other investment income, net |  | 2,893 |  | 7,331 |  | $(4,438)$ |  | 30,892 |
| Income from deferred compensation plan assets |  | 1,861 |  | 1,975 |  | (114) |  | 2,077 |
| Interest and debt expense |  | $(88,951)$ |  | $(85,068)$ |  | $(3,883)$ |  | $(87,657)$ |
| Net gains on disposition of wholly owned and partially owned assets |  | 141,269 |  | - |  | 141,269 |  | 23,559 |
| Income before income taxes |  | 221,044 |  | 38,364 |  | 182,680 |  | 105,122 |
| Income tax expense |  | $(1,943)$ |  | $(1,188)$ |  | (755) |  | (467) |
| Income from continuing operations |  | 219,101 |  | 37,176 |  | 181,925 |  | 104,655 |
| Income (loss) from discontinued operations |  | 61 |  | $(47,930)$ |  | 47,991 |  | 683 |
| Net income (loss) |  | 219,162 |  | $(10,754)$ |  | 229,916 |  | 105,338 |
| Less net (income) loss attributable to noncontrolling interests in: |  |  |  |  |  |  |  |  |
| Consolidated subsidiaries |  | $(3,312)$ |  | $(4,022)$ |  | 710 |  | 26,175 |
| Operating Partnership |  | $(12,671)$ |  | 1,878 |  | $(14,549)$ |  | $(7,445)$ |
| Net income (loss) attributable to Vornado |  | 203,179 |  | $(12,898)$ |  | 216,077 |  | 124,068 |
| Preferred share dividends |  | $(12,534)$ |  | $(16,128)$ |  | 3,594 |  | $(12,534)$ |
| Net income (loss) attributable to common shareholders | \$ | 190,645 | \$ | $(29,026)$ | \$ | 219,671 | \$ | 111,534 |
| Capitalized expenditures: |  |  |  |  |  |  |  |  |
| Leasing payroll | \$ | 1,444 | \$ | 1,280 | \$ | 164 | \$ | 1,358 |
| Development payroll | \$ | 2,771 | \$ | 1,495 | \$ | 1,276 | \$ | 3,249 |
| Interest and debt expense | \$ | 18,238 | \$ | 12,584 | \$ | 5,654 | \$ | 16,754 |

## VORNADO

REALTY TRUST

## CONSOLIDATED NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS

| (unaudited and in thousands) | For the Nine Months Ended September 30, |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2018 |  | 2017 |  | Inc (Dec) |  |
| Property rentals | \$ | 1,280,506 | \$ | 1,209,783 | \$ | 70,723 |
| Straight-lining of rents |  | 10,279 |  | 31,056 |  | $(20,777)$ |
| Amortization of acquired below-market leases, net |  | 31,480 |  | 34,758 |  | $(3,278)$ |
| Total property rentals |  | 1,322,265 |  | 1,275,597 |  | 46,668 |
| Tenant expense reimbursements |  | 185,009 |  | 174,091 |  | 10,918 |
| Fee and other income: |  |  |  |  |  |  |
| BMS cleaning fees |  | 88,095 |  | 75,925 |  | 12,170 |
| Management and leasing fees |  | 10,205 |  | 7,382 |  | 2,823 |
| Lease termination fees |  | 1,505 |  | 5,947 |  | $(4,442)$ |
| Other income |  | 13,224 |  | 8,958 |  | 4,266 |
| Total revenues |  | 1,620,303 |  | 1,547,900 |  | 72,403 |
| Operating expenses |  | 709,158 |  | 661,585 |  | 47,573 |
| Depreciation and amortization |  | 333,701 |  | 315,223 |  | 18,478 |
| General and administrative |  | 108,937 |  | 115,866 |  | $(6,929)$ |
| Expense from deferred compensation plan liability |  | 3,534 |  | 5,233 |  | $(1,699)$ |
| Transaction related costs and other |  | 16,683 |  | 1,073 |  | 15,610 |
| Total expenses |  | 1,172,013 |  | 1,098,980 |  | 73,033 |
| Operating income |  | 448,290 |  | 448,920 |  | (630) |
| Income from partially owned entities |  | 6,059 |  | 5,578 |  | 481 |
| Loss from real estate fund investments |  | $(37,973)$ |  | $(1,649)$ |  | $(36,324)$ |
| Interest and other investment income, net |  | 9,401 |  | 22,567 |  | $(13,166)$ |
| Income from deferred compensation plan assets |  | 3,534 |  | 5,233 |  | $(1,699)$ |
| Interest and debt expense |  | $(264,774)$ |  | $(252,581)$ |  | $(12,193)$ |
| Net gains on disposition of wholly owned and partially owned assets |  | 164,828 |  | 501 |  | 164,327 |
| Income before income taxes |  | 329,365 |  | 228,569 |  | 100,796 |
| Income tax expense |  | $(4,964)$ |  | $(3,491)$ |  | $(1,473)$ |
| Income from continuing operations |  | 324,401 |  | 225,078 |  | 99,323 |
| Income (loss) from discontinued operations |  | 381 |  | $(14,501)$ |  | 14,882 |
| Net income |  | 324,782 |  | 210,577 |  | 114,205 |
| Less net loss (income) atributable to noncontrolling interests in: |  |  |  |  |  |  |
| Consolidated subsidiaries |  | 31,137 |  | $(18,436)$ |  | 49,573 |
| Operating Partnership |  | $(18,992)$ |  | $(9,057)$ |  | $(9,935)$ |
| Net income attributable to Vornado |  | 336,927 |  | 183,084 |  | 153,843 |
| Preferred share dividends |  | $(38,103)$ |  | $(48,386)$ |  | 10,283 |
| Preferred share issuance costs |  | $(14,486)$ |  | - |  | $(14,486)$ |
| Net income attributable to common shareholders | \$ | 284,338 | \$ | 134,698 | \$ | 149,640 |
| Capitalized expenditures: |  |  |  |  |  |  |
| Leasing payroll | \$ | 3,883 | \$ | 3,494 | \$ | 389 |
| Development payroll | \$ | 7,996 | \$ | 4,334 | \$ | 3,662 |
| Interest and debt expense | \$ | 49,718 | \$ | 34,979 | \$ | 14,739 |

## VORNADO <br> REALTY TRUST

## NET INCOME (LOSS) ATTRIBUTABLE TO COMMON SHAREHOLDERS BY SEGMENT

(unaudited and in thousands)

|  | For the Three Months Ended September 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Property rentals | \$ | 427,030 | \$ | 356,128 | \$ | 70,902 |
| Straight-lining of rents |  | 157 |  | (175) |  | 332 |
| Amortization of acquired below-market leases, net |  | 10,373 |  | 10,074 |  | 299 |
| Total property rentals |  | 437,560 |  | 366,027 |  | 71,533 |
| Tenant expense reimbursements |  | 66,387 |  | 59,057 |  | 7,330 |
| Fee and other income: |  |  |  |  |  |  |
| BMS cleaning fees |  | 28,873 |  | 31,328 |  | $(2,455)$ |
| Management and leasing fees |  | 4,734 |  | 4,439 |  | 295 |
| Lease termination fees |  | 356 |  | 58 |  | 298 |
| Other income |  | 4,138 |  | 1,537 |  | 2,601 |
| Total revenues |  | 542,048 |  | 462,446 |  | 79,602 |
| Operating expenses |  | 235,575 |  | 200,949 |  | 34,626 |
| Depreciation and amortization |  | 113,169 |  | 90,957 |  | 22,212 |
| General and administrative |  | 31,977 |  | 9,226 |  | 22,751 |
| Expense from deferred compensation plan liability |  | 1,861 |  | - |  | 1,861 |
| Transaction related costs and other |  | 2,510 |  | - |  | 2,510 |
| Total expenses |  | 385,092 |  | 301,132 |  | 83,960 |
| Operating income (loss) |  | 156,956 |  | 161,314 |  | $(4,358)$ |
| Income from partially owned entities |  | 7,206 |  | 3,889 |  | 3,317 |
| Loss from real estate fund investments |  | (190) |  | - |  | (190) |
| Interest and other investment income, net |  | 2,893 |  | 1,590 |  | 1,303 |
| Income from deferred compensation plan assets |  | 1,861 |  | - |  | 1,861 |
| Interest and debt expense |  | $(88,951)$ |  | $(63,048)$ |  | $(25,903)$ |
| Net gains (losses) on disposition of wholly owned and partially owned assets |  | 141,269 |  | (71) |  | 141,340 |
| Income before income taxes |  | 221,044 |  | 103,674 |  | 117,370 |
| Income tax (expense) benefit |  | $(1,943)$ |  | $(1,997)$ |  | 54 |
| Income from continuing operations |  | 219,101 |  | 101,677 |  | 117,424 |
| Income from discontinued operations |  | 61 |  | - |  | 61 |
| Net income |  | 219,162 |  | 101,677 |  | 117,485 |
| Less net income atributable to noncontrolling interests in: |  |  |  |  |  |  |
| Consolidated subsidiaries |  | $(3,312)$ |  | $(1,844)$ |  | $(1,468)$ |
| Operating Partnership |  | $(12,671)$ |  | - |  | $(12,671)$ |
| Net income attributable to Vornado |  | 203,179 |  | 99,833 |  | 103,346 |
| Preferred share dividends |  | $(12,534)$ |  | - |  | $(12,534)$ |
| Net income attributable to common shareholders for the three months ended September 30, 2018 | \$ | 190,645 | \$ | 99,833 | \$ | 90,812 |
| Net (loss) income attributable to common shareholders for the three months ended September 30, 2017 | \$ | (29,026) | \$ | 110,612 | \$ | $(139,638)$ |

## VORNADO

REALTY TRUST

## NET INCOME (LOSS) ATTRIBUTABLE TO COMMON SHAREHOLDERS BY SEGMENT

(unaudited and in thousands)

|  | For the Nine Months Ended September 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Property rentals | \$ | 1,280,506 | \$ | 1,056,701 | \$ | 223,805 |
| Straight-lining of rents |  | 10,279 |  | 8,254 |  | 2,025 |
| Amortization of acquired below-market leases, net |  | 31,480 |  | 30,584 |  | 896 |
| Total property rentals |  | 1,322,265 |  | 1,095,539 |  | 226,726 |
| Tenant expense reimbursements |  | 185,009 |  | 164,297 |  | 20,712 |
| Fee and other income: |  |  |  |  |  |  |
| BMS cleaning fees |  | 88,095 |  | 94,888 |  | $(6,793)$ |
| Management and leasing fees |  | 10,205 |  | 9,384 |  | 821 |
| Lease termination fees |  | 1,505 |  | 766 |  | 739 |
| Other income |  | 13,224 |  | 4,608 |  | 8,616 |
| Total revenues |  | 1,620,303 |  | 1,369,482 |  | 250,821 |
| Operating expenses |  | 709,158 |  | 599,768 |  | 109,390 |
| Depreciation and amortization |  | 333,701 |  | 267,717 |  | 65,984 |
| General and administrative |  | 108,937 |  | 30,475 |  | 78,462 |
| Expense from deferred compensation plan liability |  | 3,534 |  | - |  | 3,534 |
| Transaction related costs and other |  | 16,683 |  | 13,103 |  | 3,580 |
| Total expenses |  | 1,172,013 |  | 911,063 |  | 260,950 |
| Operating income (loss) |  | 448,290 |  | 458,419 |  | $(10,129)$ |
| Income from partially owned entities |  | 6,059 |  | 5,182 |  | 877 |
| Loss from real estate fund investments |  | $(37,973)$ |  | - |  | $(37,973)$ |
| Interest and other investment income, net |  | 9,401 |  | 4,611 |  | 4,790 |
| Income from deferred compensation plan assets |  | 3,534 |  | - |  | 3,534 |
| Interest and debt expense |  | $(264,774)$ |  | $(186,670)$ |  | $(78,104)$ |
| Net gains on disposition of wholly owned and partially owned assets |  | 164,828 |  | 23,488 |  | 141,340 |
| Income before income taxes |  | 329,365 |  | 305,030 |  | 24,335 |
| Income tax expense |  | $(4,964)$ |  | $(4,011)$ |  | (953) |
| Income from continuing operations |  | 324,401 |  | 301,019 |  | 23,382 |
| Income from discontinued operations |  | 381 |  | - |  | 381 |
| Net income |  | 324,782 |  | 301,019 |  | 23,763 |
| Less net loss (income) attributable to noncontrolling interests in: |  |  |  |  |  |  |
| Consolidated subsidiaries |  | 31,137 |  | (639) |  | 31,776 |
| Operating Partnership |  | $(18,992)$ |  | - |  | $(18,992)$ |
| Net income attributable to Vornado |  | 336,927 |  | 300,380 |  | 36,547 |
| Preferred share dividends |  | $(38,103)$ |  | - |  | $(38,103)$ |
| Preferred share issuance costs |  | $(14,486)$ |  | - |  | $(14,486)$ |
| Net income (loss) attributable to common shareholders for the nine months ended September 30, 2018 | \$ | 284,338 | \$ | 300,380 | \$ | $(16,042)$ |
| Net income (loss) attributable to common shareholders for the nine months ended September 30, 2017 | \$ | 134,698 | \$ | 308,664 | \$ | $(173,966)$ |

## VORNADO <br> REALTY TRUST

## NET OPERATING INCOME AT SHARE BY SEGMENT

(unaudited and in thousands)

|  | For the Three Months Ended September 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Total revenues | \$ | 542,048 | \$ | 462,446 | \$ | 79,602 |
| Operating expenses |  | 235,575 |  | 200,949 |  | 34,626 |
| NOI - consolidated |  | 306,473 |  | 261,497 |  | 44,976 |
| Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(16,943)$ |  | $(11,348)$ |  | $(5,595)$ |
| Add: Our share of NOI from partially owned entities |  | 60,094 |  | 47,179 |  | 12,915 |
| NOI at share |  | 349,624 |  | 297,328 |  | 52,296 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(8,743)$ |  | $(9,125)$ |  | 382 |
| NOI at share - cash basis | \$ | 340,881 | \$ | 288,203 | \$ | 52,678 |


|  | For the Three Months Ended September 30, 2017 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Total revenues | \$ | 528,755 | \$ | 453,609 | \$ | 75,146 |
| Operating expenses |  | 225,226 |  | 192,430 |  | 32,796 |
| NOI - consolidated |  | 303,529 |  | 261,179 |  | 42,350 |
| Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(16,171)$ |  | $(11,464)$ |  | $(4,707)$ |
| Add: Our share of NOI from partially owned entities |  | 66,876 |  | 48,779 |  | 18,097 |
| NOI at share |  | 354,234 |  | 298,494 |  | 55,740 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(22,307)$ |  | $(21,092)$ |  | $(1,215)$ |
| NOI at share - cash basis | \$ | 331,927 | \$ | 277,402 | \$ | 54,525 |


|  | For the Three Months Ended June 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Total revenues | \$ | 541,818 | \$ | 458,552 | \$ | 83,266 |
| Operating expenses |  | 235,981 |  | 200,903 |  | 35,078 |
| NOI - consolidated |  | 305,837 |  | 257,649 |  | 48,188 |
| Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(17,160)$ |  | $(11,560)$ |  | $(5,600)$ |
| Add: Our share of NOI from partially owned entities |  | 65,752 |  | 49,778 |  | 15,974 |
| NOI at share |  | 354,429 |  | 295,867 |  | 58,562 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(12,481)$ |  | $(12,713)$ |  | 232 |
| NOI at share - cash basis | \$ | 341,948 | \$ | 283,154 | \$ | 58,794 |

See Appendix page vii for details of NOI at share components.

## VORNADO <br> REALTY TRUST

## NET OPERATING INCOME AT SHARE BY SEGMENT

(unaudited and in thousands)

|  | For the Nine Months Ended September 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Total revenues | \$ | 1,620,303 | \$ | 1,369,482 | \$ | 250,821 |
| Operating expenses |  | 709,158 |  | 599,768 |  | 109,390 |
| NOI - consolidated |  | 911,145 |  | 769,714 |  | 141,431 |
| Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(51,415)$ |  | $(34,653)$ |  | $(16,762)$ |
| Add: Our share of NOI from partially owned entities |  | 193,359 |  | 146,730 |  | 46,629 |
| NOI at share |  | 1,053,089 |  | 881,791 |  | 171,298 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(39,172)$ |  | $(39,161)$ |  | (11) |
| NOI at share - cash basis | \$ | 1,013,917 | \$ | 842,630 | \$ | 171,287 |


|  | For the Nine Months Ended September 30, 2017 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | New York |  | Other |  |
| Total revenues | \$ | 1,547,900 | \$ | 1,316,710 | \$ | 231,190 |
| Operating expenses |  | 661,585 |  | 561,249 |  | 100,336 |
| NOI - consolidated |  | 886,315 |  | 755,461 |  | 130,854 |
| Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(48,778)$ |  | $(34,251)$ |  | $(14,527)$ |
| Add: Our share of NOI from partially owned entities |  | 199,989 |  | 140,627 |  | 59,362 |
| NOI at share |  | 1,037,526 |  | 861,837 |  | 175,689 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(65,263)$ |  | $(57,761)$ |  | $(7,502)$ |
| NOI at share - cash basis | \$ | 972,263 | \$ | 804,076 | \$ | 168,187 |

See Appendix page vii for details of NOI at share components.

## VORNADO <br> REALTY TRUST

## NET OPERATING INCOME AT SHARE BY SUBSEGMENT

(unaudited and in thousands)

|  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 30, |  |  |  | $\begin{gathered} \text { June } 30, \\ 2018 \\ \hline \end{gathered}$ |  |  |  |  |  |
|  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| NOI at share: |  |  |  |  |  |  |  |  |  |  |
| New York: |  |  |  |  |  |  |  |  |  |  |
| Office | \$ | 184,146 | \$ | 185,169 | \$ | 184,867 | \$ | 556,169 | \$ | 531,702 |
| Retail |  | 92,858 |  | 90,088 |  | 87,109 |  | 267,876 |  | 269,091 |
| Residential |  | 5,202 |  | 5,981 |  | 6,338 |  | 17,681 |  | 18,450 |
| Alexander's |  | 10,626 |  | 11,937 |  | 11,909 |  | 34,110 |  | 35,646 |
| Hotel Pennsylvania |  | 4,496 |  | 5,319 |  | 5,644 |  | 5,955 |  | 6,948 |
| Total New York |  | 297,328 |  | 298,494 |  | 295,867 |  | 881,791 |  | 861,837 |
| Other: |  |  |  |  |  |  |  |  |  |  |
| theMART |  | 25,257 |  | 26,019 |  | 27,816 |  | 79,948 |  | 78,090 |
| 555 California Street |  | 13,515 |  | 11,519 |  | 13,660 |  | 40,686 |  | 35,585 |
| Other investments |  | 13,524 |  | 18,202 |  | 17,086 |  | 50,664 |  | 62,014 |
| Total Other |  | 52,296 |  | 55,740 |  | 58,562 |  | 171,298 |  | 175,689 |
| NOI at share | \$ | 349,624 | \$ | 354,234 | \$ | 354,429 | \$ | 1,053,089 | \$ | 1,037,526 |

## NOI at share - cash basis:

New York:

| Office | \$ | 181,575 | \$ | 172,741 | \$ | 180,710 | \$ | 540,484 | \$ | 503,052 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Retail |  | 84,976 |  | 81,612 |  | 79,139 |  | 243,704 |  | 240,998 |
| Residential |  | 5,358 |  | 5,417 |  | 5,463 |  | 16,420 |  | 16,301 |
| Alexander's |  | 11,774 |  | 12,280 |  | 12,098 |  | 35,911 |  | 36,679 |
| Hotel Pennsylvania |  | 4,520 |  | 5,352 |  | 5,744 |  | 6,111 |  | 7,046 |
| Total New York |  | 288,203 |  | 277,402 |  | 283,154 |  | 842,630 |  | 804,076 |
| Other: |  |  |  |  |  |  |  |  |  |  |
| theMART |  | 26,234 |  | 25,417 |  | 27,999 |  | 81,312 |  | 74,846 |
| 555 California Street |  | 13,070 |  | 10,889 |  | 13,808 |  | 39,704 |  | 33,365 |
| Other investments |  | 13,374 |  | 18,219 |  | 16,987 |  | 50,271 |  | 59,976 |
| Total Other |  | 52,678 |  | 54,525 |  | 58,794 |  | 171,287 |  | 168,187 |
| NOI at share - cash basis | \$ | 340,881 | \$ | 331,927 | \$ | 341,948 | \$ | 1,013,917 | \$ | 972,263 |

## VORNADO <br> REALTY TRUST

## SAME STORE NOI AT SHARE AND NOI AT SHARE - CASH BASIS (NON-GAAP)

## (unaudited)

|  | Total | New York ${ }^{(2)}$ | theMART | 555 California Street |
| :---: | :---: | :---: | :---: | :---: |
| Same store NOI at share \% increase (decrease) ${ }^{(1)}$ : |  |  |  |  |
| Three months ended September 30, 2018 compared to September 30, 2017 | 0.9 \% | 0.6\% | (3.8)\% | 17.2 \% |
| Nine months ended September 30, 2018 compared to September 30, 2017 | 3.3 \% | 3.0\% | 1.6 \% | 14.3 \% |
| Three months ended September 30, 2018 compared to June 30, 2018 | (0.4)\% | 0.6\% | (9.8)\% ${ }^{(3)}$ | (1.2)\% |
| Same store NOI at share - cash basis \% increase (decrease): |  |  |  |  |
| Three months ended September 30, 2018 compared to September 30, 2017 | 4.3 \% | 3.9\% | 2.2 \% | 19.9 \% |
| Nine months ended September 30, 2018 compared to September 30, 2017 | 5.9 \% | 5.2\% | 7.6 \% | 19.0 \% |
| Three months ended September 30, 2018 compared to June 30, 2018 | 0.9 \% | 2.0\% | (6.7)\% ${ }^{(3)}$ | (5.4)\% |

(1) See pages viii through xiii in the Appendix for same store NOI at share and same store NOI at share - cash basis reconciliations.

|  |  |
| :--- | :--- |
| (2) | Excluding Hotel Pennsylvania, same store NOI at share \% increase: |
| Three months ended September 30,2018 compared to September 30,2017 |  |
| Nine months ended September 30,2018 compared to September 30,2017 |  |
| Three months ended September 30,2018 compared to June 30,2018 |  |
| Excluding Hotel Pennsylvania, same store NOI at share - cash basis \% increase: | $3.1 \%$ |
| Three months ended September 30,2018 compared to September 30,2017 | $1.0 \%$ |
| Nine months ended September 30,2018 compared to September 30,2017 | $4.3 \%$ |
| Three months ended September 30,2018 compared to June 30,2018 | $5.3 \%$ |

(3) Excluding tradeshows which are seasonal, same store NOI at share decreased by $4.4 \%$ and same store NOI at share - cash basis decreased by $0.3 \%$.

## NOI AT SHARE BY REGION <br> (unaudited)



## VORNADO <br> REALTY TRUST

CONSOLIDATED BALANCE SHEETS
(unaudited and in thousands)


Real estate, at cost:

| Land | \$ | 3,306,264 | \$ | 3,143,648 | \$ | 162,616 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Buildings and improvements |  | 10,083,313 |  | 9,898,605 |  | 184,708 |
| Development costs and construction in progress |  | 1,579,628 |  | 1,615,101 |  | $(35,473)$ |
| Leasehold improvements and equipment |  | 106,945 |  | 98,941 |  | 8,004 |
| Total |  | 15,076,150 |  | 14,756,295 |  | 319,855 |
| Less accumulated depreciation and amortization |  | $(3,109,361)$ |  | $(2,885,283)$ |  | $(224,078)$ |
| Real estate, net |  | 11,966,789 |  | 11,871,012 |  | 95,777 |
| Cash and cash equivalents |  | 772,524 |  | 1,817,655 |  | $(1,045,131)$ |
| Restricted cash |  | 147,286 |  | 97,157 |  | 50,129 |
| Marketable securities |  | 157,951 |  | 182,752 |  | $(24,801)$ |
| Tenant and other receivables, net |  | 69,796 |  | 58,700 |  | 11,096 |
| Investments in partially owned entities |  | 909,440 |  | 1,056,829 |  | $(147,389)$ |
| Real estate fund investments |  | 369,767 |  | 354,804 |  | 14,963 |
| 220 Central Park South condominium units ready for sale |  | 307,552 |  | - |  | 307,552 |
| Receivable arising from the straight-lining of rents, net |  | 937,294 |  | 926,711 |  | 10,583 |
| Deferred leasing costs, net |  | 443,350 |  | 403,492 |  | 39,858 |
| Identified intangible assets, net |  | 139,994 |  | 159,260 |  | $(19,266)$ |
| Assets related to discontinued operations |  | 74 |  | 1,357 |  | $(1,283)$ |
| Other assets |  | 456,203 |  | 468,205 |  | $(12,002)$ |
| Total Assets | \$ | 16,678,020 | \$ | 17,397,934 | \$ | (719,914) |
| LIABILITIES, REDEEMABLE NONCONTROLLING INTERESTS AND EQUITY Liabilities: |  |  |  |  |  |  |
| Mortgages payable, net | \$ | 8,119,075 | \$ | 8,137,139 | \$ | $(18,064)$ |
| Senior unsecured notes, net |  | 843,710 |  | 843,614 |  | 96 |
| Unsecured term loan, net |  | 749,874 |  | 748,734 |  | 1,140 |
| Unsecured revolving credit facilities |  | 80,000 |  | - |  | 80,000 |
| Accounts payable and accrued expenses |  | 415,531 |  | 415,794 |  | (263) |
| Deferred revenue |  | 176,211 |  | 227,069 |  | $(50,858)$ |
| Deferred compensation plan |  | 102,281 |  | 109,177 |  | $(6,896)$ |
| Liabilities related to discontinued operations |  | 205 |  | 3,620 |  | $(3,415)$ |
| Preferred shares redeemed on January 4 and 11, 2018 |  | - |  | 455,514 |  | $(455,514)$ |
| Other liabilities |  | 229,042 |  | 464,635 |  | $(235,593)$ |
| Total liabilities |  | 10,715,929 |  | 11,405,296 |  | $(689,367)$ |
| Redeemable noncontrolling interests |  | 924,582 |  | 984,937 |  | $(60,355)$ |
| Vornado shareholders' equity |  | 4,377,917 |  | 4,337,652 |  | 40,265 |
| Noncontrolling interests in consolidated subsidiaries |  | 659,592 |  | 670,049 |  | $(10,457)$ |
| Total liabilities, redeemable noncontrolling interests and equity | \$ | 16,678,020 | \$ | 17,397,934 | \$ | (719,914) |

## VORNADO <br> REALTY TRUST

## LEASING ACTIVITY

(unaudited)

 improvements and leasing commissions are based on our share of square feet leased during the period

| (square feet in thousands) | New York |  |  |  | theMART |  | 555 California Street |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Office |  | Retail |  |  |  |  |  |
| Three Months Ended September 30, 2018 |  |  |  |  |  |  |  |  |
| Total square feet leased |  | 312 |  | 104 |  | 28 |  | 160 |
| Our share of square feet leased: |  | 308 |  | 99 |  | 28 |  | 112 |
| Initial rent ${ }^{(1)}$ | \$ | 67.35 | \$ | 135.05 | \$ | 57.92 | \$ | 91.16 |
| Weighted average lease term (years) |  | 9.5 |  | 5.7 |  | 7.4 |  | 12.1 |
| Second generation relet space: |  |  |  |  |  |  |  |  |
| Square feet |  | 203 |  | 95 |  | 23 |  | 33 |
| GAAP basis: |  |  |  |  |  |  |  |  |
| Straight-line rent ${ }^{(2)}$ | \$ | 68.30 | \$ | 153.36 | \$ | 60.71 | \$ | 108.36 |
| Prior straight-line rent | \$ | 53.99 | \$ | 255.72 | \$ | 53.06 | \$ | 83.08 |
| Percentage increase (decrease) |  | 26.5\% |  | (40.0)\% ${ }^{(3)}$ |  | 14.4\% |  | 30.4\% |
| Cash basis (non-GAAP): |  |  |  |  |  |  |  |  |
| Initial rent ${ }^{(1)}$ | \$ | 68.00 | \$ | 130.39 | \$ | 58.53 | \$ | 97.84 |
| Prior escalated rent | \$ | 60.80 | \$ | 95.69 | \$ | 57.45 | \$ | 88.66 |
| Percentage increase |  | 11.8\% |  | 36.3 \% |  | 1.9\% |  | 10.4\% |
| Tenant improvements and leasing commissions: |  |  |  |  |  |  |  |  |
| Per square foot | \$ | 90.48 | \$ | 18.48 | \$ | 21.55 | \$ | 101.81 |
| Per square foot per annum | \$ | 9.52 | \$ | 3.24 | \$ | 2.91 | \$ | 8.41 |
| Percentage of initial rent |  | 14.1\% |  | 2.4 \% |  | 5.0\% |  | 9.2\% |

 in the initial cash basis rent per square foot but are included in the GAAP basis straight-line rent per square foot.

(3) The decrease results from an accounting adjustment at acquisition of the property in 2015 under which we marked the rent up to market.

## VORNADO

REALTYTRUS

## LEASING ACTIVITY

(unaudited)

 improvements and leasing commissions are based on our share of square feet leased during the period

| (square feet in thousands) | New York |  |  |  | theMART |  | 555 California Street |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Office |  | Retail |  |  |  |  |  |
| Nine Months Ended September 30, 2018 |  |  |  |  |  |  |  |  |
| Total square feet leased |  | 1,348 |  | 229 |  | 197 |  | 249 |
| Our share of square feet leased: |  | 1,212 |  | 219 |  | 197 |  | 174 |
| Initial rent ${ }^{(1)}$ | \$ | 81.11 | \$ | 168.10 | \$ | 51.78 | \$ | 89.28 |
| Weighted average lease term (years) |  | 10.3 |  | 5.3 |  | 5.9 |  | 10.3 |
| Second generation relet space: |  |  |  |  |  |  |  |  |
| Square feet |  | 990 |  | 209 |  | 186 |  | 62 |
| GAAP basis: |  |  |  |  |  |  |  |  |
| Straight-line rent ${ }^{(2)}$ | \$ | 86.62 | \$ | 178.46 | \$ | 52.32 | \$ | 104.06 |
| Prior straight-line rent | \$ | 60.21 | \$ | 233.31 | \$ | 41.88 | \$ | 77.46 |
| Percentage increase (decrease) |  | 43.9\% |  | (23.5)\% |  | 24.9\% |  | 34.3\% |
| Cash basis (non-GAAP): |  |  |  |  |  |  |  |  |
| Initial rent ${ }^{(1)}$ | \$ | 83.54 | \$ | 163.02 | \$ | 51.69 | \$ | 97.28 |
| Prior escalated rent | \$ | 63.94 | \$ | 164.76 | \$ | 44.65 | \$ | 85.77 |
| Percentage increase (decrease) |  | 30.7\% |  | (1.1)\% |  | 15.8\% |  | 13.4\% |
| Tenant improvements and leasing commissions: |  |  |  |  |  |  |  |  |
| Per square foot | \$ | 97.49 | \$ | 52.48 | \$ | 19.61 | \$ | 94.98 |
| Per square foot per annum | \$ | 9.47 | \$ | 9.90 | \$ | 3.32 | \$ | 9.22 |
| Percentage of initial rent |  | 11.7\% |  | 5.9 \% |  | 6.4\% |  | 10.3\% |

 in the initial cash basis rent per square foot but are included in the GAAP basis straight-line rent per square foot.


## VORNADO <br> REALTY TRUST

LEASE EXPIRATIONS NEW YORK SEGMENT

| (unaudited) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Period of Lease Expiration | Our Share of Square Feet of Expiring Leases ${ }^{(1)}$ | Weighted Average Annual Rent of Expiring Leases |  |  |  | Percentage of Annualized Escalated Rent |
|  |  |  | Total |  | Per Sq. Ft. |  |  |
| Office: | Month to Month | 46,000 | \$ | 4,799,000 | \$ | 104.33 | 0.4\% |
|  |  |  |  |  |  |  |  |
|  | Fourth Quarter 2018 | 318,000 |  | 25,625,000 |  | 80.58 | 2.2\% |
|  |  |  |  |  |  |  |  |
|  | First Quarter 2019 | 229,000 |  | 14,278,000 |  | 62.35 | 1.2\% |
|  | Second Quarter 2019 | 116,000 |  | 8,680,000 |  | 74.83 | 0.7\% |
|  | Third Quarter 2019 | 69,000 |  | 4,450,000 |  | 64.49 | 0.4\% |
|  | Fourth Quarter 2019 | 264,000 |  | 17,648,000 |  | 66.85 | 1.5\% |
|  | Total 2019 | 678,000 |  | 45,056,000 |  | 66.45 | 3.9\% |
|  | 2020 | 1,279,000 |  | 89,848,000 |  | 70.25 | 7.7\% |
|  | 2021 | 1,193,000 |  | 91,144,000 |  | 76.40 | 7.8\% |
|  | 2022 | 700,000 |  | 46,041,000 |  | 65.77 | 3.9\% |
|  | 2023 | 1,956,000 |  | 157,587,000 |  | 80.57 | 13.5\% |
|  | 2024 | 1,375,000 |  | 108,457,000 |  | 78.88 | 9.3\% |
|  | 2025 | 813,000 |  | 61,215,000 |  | 75.30 | 5.2\% |
|  | 2026 | 1,208,000 |  | 92,406,000 |  | 76.50 | 7.9\% |
|  | 2027 | 1,085,000 |  | 78,689,000 |  | 72.52 | 6.7\% |
|  | 2028 | 1,031,000 |  | 71,858,000 |  | 69.70 | 6.1\% |
|  | Thereafter | 4,501,000 |  | 296,530,000 |  | 65.88 | 25.4\% |
|  |  |  |  |  |  |  |  |
| Retail: | Month to Month | 74,000 | \$ | 14,493,000 | \$ | 195.85 | 3.1\% |
|  |  |  |  |  |  |  |  |
|  | Fourth Quarter 2018 | 11,000 |  | 2,086,000 |  | 189.64 | 0.4\% |
|  |  |  |  |  |  |  |  |
|  | First Quarter 2019 | 38,000 |  | 9,478,000 |  | 249.42 | 2.0\% |
|  | Second Quarter 2019 | 8,000 |  | 1,495,000 |  | 186.88 | 0.3\% |
|  | Third Quarter 2019 | 20,000 |  | 9,531,000 |  | 476.55 | 2.0\% |
|  | Fourth Quarter 2019 | 31,000 |  | 4,833,000 |  | 155.90 | 1.1\% |
|  | Total 2019 | 97,000 |  | 25,337,000 |  | 261.21 | 5.4\% |
|  | 2020 | 94,000 |  | 17,070,000 |  | 181.60 | 3.7\% |
|  | 2021 | 58,000 |  | 9,722,000 |  | 167.62 | 2.1\% |
|  | 2022 | 32,000 |  | 7,430,000 |  | 232.19 | 1.6\% |
|  | 2023 | 107,000 |  | 43,643,000 |  | 407.88 | 9.4\% |
|  | 2024 | 298,000 |  | 84,813,000 |  | 284.61 | 18.3\% |
|  | 2025 | 41,000 |  | 18,758,000 |  | 457.51 | 4.0\% |
|  | 2026 | 135,000 |  | 44,473,000 |  | 329.43 | 9.5\% |
|  | 2027 | 32,000 |  | 22,799,000 |  | 712.47 | 4.9\% |
|  | 2028 | 45,000 |  | 18,150,000 |  | 403.33 | 3.9\% |
|  | Thereafter | 897,000 |  | 156,939,000 |  | 174.96 | 33.7\% |

[^0]
## VORNADO

REALTY TRUST

## LEASE EXPIRATIONS

theMART
(unaudited)

|  | Period of Lease Expiration | Our Share of Square Feet of Expiring Leases ${ }^{(1)}$ | Weighted Average Annual Rent of Expiring Leases |  |  |  | Percentage of Annualized Escalated Rent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  | Per Sq. Ft. |  |  |
| Office / Showroom / Retail: | Month to Month | 4,000 | \$ | 187,000 | \$ | 46.75 | 0.1\% |
|  | Fourth Quarter 2018 | 52,000 |  | 2,521,000 |  | 48.48 | 1.7\% |
|  | First Quarter 2019 | 54,000 |  | 2,905,000 |  | 53.80 | 1.9\% |
|  | Second Quarter 2019 | 15,000 |  | 833,000 |  | 55.53 | 0.6\% |
|  | Third Quarter 2019 | 20,000 |  | 1,005,000 |  | 50.25 | 0.7\% |
|  | Fourth Quarter 2019 | 50,000 |  | 2,497,000 |  | 49.94 | 1.7\% |
|  | Total 2019 | 139,000 |  | 7,240,000 |  | 52.09 | 4.9\% |
|  | 2020 | 281,000 |  | 12,523,000 |  | 44.57 | 8.3\% |
|  | 2021 | 347,000 |  | 14,856,000 |  | 42.81 | 9.9\% |
|  | 2022 | 664,000 |  | 28,829,000 |  | 43.42 | 19.2\% |
|  | 2023 | 300,000 |  | 13,978,000 |  | 46.59 | 9.3\% |
|  | 2024 | 224,000 |  | 9,317,000 |  | 41.59 | 6.2\% |
|  | 2025 | 337,000 |  | 15,592,000 |  | 46.27 | 10.4\% |
|  | 2026 | 190,000 |  | 8,584,000 |  | 45.18 | 5.7\% |
|  | 2027 | 108,000 |  | 4,836,000 |  | 44.78 | 3.2\% |
|  | 2028 | 639,000 |  | 24,631,000 |  | 38.55 | 16.4\% |
|  | Thereafter | 173,000 |  | 7,094,000 |  | 41.01 | 4.7\% |

(1) Excludes storage, vacancy and other

## VORNADO

REALTY TRUS

## LEASE EXPIRATIONS

555 California Street
(unaudited)

|  | Period of Lease Expiration | Our Share of Square Feet of Expiring Leases ${ }^{(1)}$ | Weighted Average Annual Rent of Expiring Leases |  |  |  | Percentage of <br> Annualized <br> Escalated Rent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total |  |  |  |
| Office / Retail: | Month to Month | - | \$ | - | \$ | - | - |
|  | Fourth Quarter 2018 | - |  | - |  | - | -\% |
|  | First Quarter 2019 | - |  | - |  | - | -\% |
|  | Second Quarter 2019 | - |  | - |  | - | -\% |
|  | Third Quarter 2019 | 4,000 |  | 335,000 |  | 83.75 | 0.4\% |
|  | Fourth Quarter 2019 | - |  | - |  | - | -\% |
|  | Total 2019 | 4,000 |  | 335,000 |  | 83.75 | 0.4\% |
|  | 2020 | 101,000 |  | 6,397,000 |  | 63.34 | 6.9\% |
|  | 2021 | 76,000 |  | 5,319,000 |  | 69.99 | 5.8\% |
|  | 2022 | 36,000 |  | 2,782,000 |  | 77.28 | 3.0\% |
|  | 2023 | 133,000 |  | 9,127,000 |  | 68.62 | 9.9\% |
|  | 2024 | 59,000 |  | 5,133,000 |  | 87.00 | 5.6\% |
|  | 2025 | 364,000 |  | 25,444,000 |  | 69.90 | 27.5\% |
|  | 2026 | 140,000 |  | 10,299,000 |  | 73.56 | 11.1\% |
|  | 2027 | 69,000 |  | 5,698,000 |  | 82.58 | 6.2\% |
|  | 2028 | 20,000 |  | 1,432,000 |  | 71.60 | 1.6\% |
|  | Thereafter | 235,000 |  | 20,402,000 |  | 86.82 | 22.0\% |

[^1]
## VORNADO

REALTYTRUST
TRAILING TWELVE MONTH PRO-FORMA CASH NET OPERATING INCOME AT SHARE
(unaudited and in thousands)

|  | For the Trailing Twelve Months Ended September 30, 2018 |  |  |  |  |  | For the Trailing Twelve Months Ended June 30, 2018 <br> Pro-forma NOI at share cash basis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOI at share- cash basis |  | Less: BMS |  | Pro-forma NOI at share - cash basis |  |  |  |
| New York - Office | \$ | 716,271 | \$ | $(26,369)$ | \$ | 689,902 | \$ | 681,238 |
| New York - Retail |  | 327,024 |  | - |  | 327,024 |  | 323,660 |
| New York - Residential |  | 21,745 |  | - |  | 21,745 |  | 21,804 |
| theMART |  | 105,708 |  | - |  | 105,708 |  | 104,891 |
| 555 California Street ${ }^{(1)}$ |  | 51,620 |  | - |  | 51,620 |  | 49,439 |
|  |  | 1,222,368 | \$ | $(26,369)$ | \$ | 1,195,999 | \$ | 1,181,032 |

## VORNADO <br> REALTY TRUST

CAPITAL STRUCTURE

| (unaudited and in thousands, except per share and unit amounts) |  |
| :---: | :---: |
|  | As of September 30, 2018 |
| Debt (contractual balances) (non-GAAP): |  |
| Consolidated debt ${ }^{(1)}$ : |  |
| Mortgages payable | \$ 8,172,120 |
| Senior unsecured notes | 850,000 |
| \$750 Million unsecured term loan | 750,000 |
| \$2.5 Billion unsecured revolving credit facilities | 80,000 |
|  | 9,852,120 |
| Pro rata share of debt of non-consolidated entities ${ }^{(2)}$ | 2,799,783 |
| Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas, 555 California Street, and St. Regis - retail) | (604,701) |
|  | 12,047,202 |


|  | Shares/Units | Par Value |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Perpetual Preferred: |  |  |  |  |  |
| 5.00\% preferred unit (D-16) (1 unit @ \$1,000,000 per unit) |  |  |  |  | 1,000 |
| $3.25 \%$ preferred units (D-17) (177,100 units @ \$25 per unit) |  |  |  |  | 4,428 |
| 5.70\% Series K preferred shares | 12,000 | \$ | 25.00 |  | 300,000 |
| 5.40\% Series L preferred shares | 12,000 |  | 25.00 |  | 300,000 |
| 5.25\% Series M preferred shares | 12,780 |  | 25.00 |  | 319,500 |
|  |  |  |  |  | 924,928 |
|  | Converted Shares |  | $\begin{aligned} & 2018 \\ & \text { Price } \end{aligned}$ |  |  |
| Equity: |  |  |  |  |  |
| Common shares | 190,286 | \$ | 73.00 |  | 13,890,878 |
| Class A units | 11,848 |  | 73.00 |  | 864,904 |
| Convertible share equivalents: |  |  |  |  |  |
| Equity awards - unit equivalents | 743 |  | 73.00 |  | 54,239 |
| D-13 preferred units | 639 |  | 73.00 |  | 46,647 |
| G1-G4 units | 52 |  | 73.00 |  | 3,796 |
| Series A preferred shares | 36 |  | 73.00 |  | 2,628 |
|  |  |  |  |  | 14,863,092 |
| Total Market Capitalization |  |  |  | \$ | 27,835,222 |

(1) See reconciliation of consolidated debt, net (GAAP) to contractual debt (non-GAAP) on page xiv in the Appendix.
 over Toys. Accordingly, we have excluded our share of Toys debt.

## VORNADO

REALTY TRUST

## COMMON SHARES DATA (NYSE: VNO)

(unaudited)

Vornado Realty Trust common shares are traded on the New York Stock Exchange ("NYSE") under the symbol VNO. Below is a summary of performance and dividends for VNO common shares (based on NYSE prices):

|  | Third Quarter 2018 |  | Second Quarter 2018 |  | First Quarter 2018 |  | Fourth Quarter 2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High price | \$ | 77.59 | \$ | 74.28 | \$ | 78.31 | \$ | 80.30 |
| Low price | \$ | 69.50 | \$ | 64.53 | \$ | 64.13 | \$ | 71.90 |
| Closing price - end of quarter | \$ | 73.00 | \$ | 73.92 | \$ | 67.30 | \$ | 78.18 |
|  |  |  |  |  |  |  |  |  |
| Annualized dividend per share | \$ | 2.52 | \$ | 2.52 | \$ | 2.52 | \$ | 2.40 |
|  |  |  |  |  |  |  |  |  |
| Annualized dividend yield - on closing price |  | 3.5\% |  | 3.4\% |  | 3.7\% |  | 3.1\% |
|  |  |  |  |  |  |  |  |  |
| Outstanding shares, Class A units and convertible preferred units as converted, excluding stock options (in thousands) |  | 203,604 |  | 203,577 |  | 203,613 |  | 203,198 |
|  |  |  |  |  |  |  |  |  |
| Closing market value of outstanding shares, Class A units and convertible preferred units as converted, excluding stock options | \$ | 14.9 Billion | \$ | 15.0 Billion | \$ | 13.7 Billion | \$ | 15.9 Billion |

## VORNADO

REALTY TRUST
DEBT ANALYSIS

| (unaudited and in thousands) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  |  | Variable |  |  | Fixed |  |  |
| (Contractual debt balances) (non-GAAP) | Amount |  | Weighted Average Interest Rate | Amount |  | Weighted <br> Average Interest Rate | Amount |  | Weighted <br> Average Interest Rate |
| Consolidated debt ${ }^{(1)}$ | \$ | 9,852,120 | 3.72\% | \$ | 3,995,760 | 3.86\% | \$ | 5,856,360 | 3.62\% |
| Pro rata share of debt of non-consolidated entities ${ }^{(2)}$ |  | 2,799,783 | 4.06\% |  | 1,416,974 | 3.95\% |  | 1,382,809 | 4.16\% |
| Total |  | 12,651,903 | 3.79\% |  | 5,412,734 | 3.88\% |  | 7,239,169 | 3.73\% |
| Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas, 555 California Street, and St. Regis - retail) | $(604,701)$ |  |  | $(151,240)$ |  |  | $(453,461)$ |  |  |
| Company's pro rata share of total debt | \$ | 12,047,202 | 3.78\% | \$ | 5,261,494 | 3.88\% | \$ | 6,785,708 | 3.71\% |
| Debt Covenant Ratios: ${ }^{(3)}$ | Senior Unsecured Notes |  |  |  |  |  | Unsecured Revolving Credit Facilities and Unsecured Term Loan |  |  |
|  | Required |  | Actual |  |  |  |  |  |  |
|  |  |  | Due 2022 |  | Due 2025 |  | Required |  | Actual |
| Total outstanding debt/total assets ${ }^{(4)}$ | Less than 65\% |  | 51\% |  | 49\% L |  | th | 60\% | 39\% |
| Secured debt/total assets | Less than 50\% |  | 41\% |  | 39\% |  | th | 50\% | 31\% |
| Interest coverage ratio (annualized combined EBITDA to annualized interest expense) | Greater than 1.50 |  | 2.59 |  | 2.59 |  |  |  | N/A |
| Fixed charge coverage | N/A |  |  |  | N/A Gr |  | er t | 1.40 | 2.38 |
| Unencumbered assets/unsecured debt | Greater than 150\% |  | 400\% |  | 423\% |  |  |  | N/A |
| Unsecured debt/cap value of unencumbered assets | N/A |  |  |  | N/A L |  | tha | 60\% | 20\% |
| Unencumbered coverage ratio | N/A |  |  |  | N/A Gr |  | ter th | 1.50 | 7.66 |
| Unencumbered EBITDA (non-GAAP): | $\begin{gathered} \text { Q3 } 2018 \\ \text { Annualized } \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |  |
| New York | \$ | 469,052 |  |  |  |  |  |  |  |
| Other |  | 33,596 |  |  |  |  |  |  |  |
| Total | \$ | 502,648 |  |  |  |  |  |  |  |

(1) See reconciliation of consolidated debt, net (GAAP) to contractual debt (non-GAAP) on page xiv in the Appendix.
 Accordingly, we have excluded our share of Toys debt.

 with the SEC of our revolving credit facilities, senior debt indentures and applicable prospectuses and prospectus supplements.
 unsecured term loan.

## VORNADO <br> REALTYTRUS

DEBT MATURITIES (CONTRACTUAL BALANCES) (NON-GAAP)
(unaudited and in thousands)

| Property | Maturity Date ${ }^{(1)}$ | Spread over LIBOR | Interest Rate |  | 2018 |  | 2019 |  | 2020 |  | 2021 |  | 2022 |  | Thereafter |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 435 Seventh Avenue - retail | 08/19 | L+225 | 4.41\% |  | \$ | - | \$ | 96,039 | \$ | - |  | \$ | \$ | - | \$ | - | \$ | 96,039 |
| 150 West 34th Street | 06/20 | L+225 | 4.37\% |  |  | - |  | - |  | 205,000 |  | - |  | - |  | - |  | 205,000 |
| 100 West 33rd Street - office and retail | 07/20 | L+165 | 3.76\% |  |  | - |  | - |  | 580,000 |  | - |  | - |  | - |  | 580,000 |
| 220 Central Park South | 09/20 | L+200 | 4.26\% |  |  | - |  | - |  | 950,000 |  | - |  | - |  | - |  | 950,000 |
| Unsecured Term Loan | $10 / 20{ }^{(2)}$ | L+115 | 3.39\% |  |  | - |  | - |  | 750,000 |  | - |  | - |  | - |  | 750,000 |
| Eleven Penn Plaza | 12/20 |  | 3.95\% |  |  | - |  | - |  | 450,000 |  | - |  | - |  | - |  | 450,000 |
| 888 Seventh Avenue | 12/20 |  | 3.15\% | (3) |  | - |  | - |  | 375,000 |  | - |  | - |  | - |  | 375,000 |
| Borgata Land | 02/21 |  | 5.14\% |  |  | - |  | - |  | - |  | 54,822 |  | - |  | - |  | 54,822 |
| 770 Broadway | 03/21 |  | 2.56\% | (4) |  | - |  | - |  | - |  | 700,000 |  | - |  | - |  | 700,000 |
| 909 Third Avenue | 05/21 |  | 3.91\% |  |  | - |  | - |  | - |  | 350,000 |  | - |  | - |  | 350,000 |
| 606 Broadway | 05/21 | L+300 | 5.13\% |  |  | - |  | - |  | - |  | 49,721 |  | - |  | - |  | 49,721 |
| 555 California Street | 09/21 |  | 5.10\% |  |  | - |  | - |  | - |  | 561,538 |  | - |  | - |  | 561,538 |
| theMART | 09/21 |  | 2.70\% |  |  | - |  | - |  | - |  | 675,000 |  | - |  | - |  | 675,000 |
| 655 Fifth Avenue | 10/21 | L+140 | 3.50\% |  |  | - |  | - |  | - |  | 140,000 |  | - |  | - |  | 140,000 |
| Two Penn Plaza | 12/21 | L+165 | 3.75\% |  |  | - |  | - |  | - |  | 575,000 |  | - |  | - |  | 575,000 |
| Senior unsecured notes due 2022 | 01/22 |  | 5.00\% |  |  | - |  | - |  | - |  | - |  | 400,000 |  | - |  | 400,000 |
| \$1.25 Billion unsecured revolving credit facility | 02/22 | L+100 | -\% |  |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| 1290 Avenue of the Americas | 11/22 |  | 3.34\% |  |  | - |  | - |  | - |  | - |  | 950,000 |  | - |  | 950,000 |
| 697-703 Fifth Avenue (St. Regis - retail) | 12/22 | L+180 | 3.90\% |  |  | - |  | - |  | - |  | - |  | 450,000 |  | - |  | 450,000 |
| \$1.25 Billion unsecured revolving credit facility | 01/23 | L+100 | 3.15\% |  |  | - |  | - |  | - |  | - |  | - |  | 80,000 |  | 80,000 |
| 666 Fifth Avenue Retail Condominium | 03/23 |  | 3.61\% |  |  | - |  | - |  | - |  | - |  | - |  | 390,000 |  | 390,000 |
| 33-00 Northern Boulevard | 01/25 |  | 4.14\% | (5) |  | - |  | - |  | - |  | - |  | - |  | 100,000 |  | 100,000 |
| Senior unsecured notes due 2025 | 01/25 |  | 3.50\% |  |  | - |  | - |  | - |  | - |  | - |  | 450,000 |  | 450,000 |
| 4 Union Square South - retail | 08/25 | L+140 | 3.50\% |  |  | - |  | - |  | - |  | - |  | - |  | 120,000 |  | 120,000 |
| 350 Park Avenue | 01/27 |  | 3.92\% |  |  | - |  | - |  | - |  | - |  | - |  | 400,000 |  | 400,000 |
| Total consolidated debt (contractual) |  |  |  |  | \$ | - | \$ | 96,039 |  | 310,000 |  | \$3,106,081 |  | 800,000 |  | 540,000 |  | 852,120 |
| Weighted average rate |  |  |  |  |  | -\% |  | 4.41\% |  | 3.82\% |  | 3.55\% |  | 3.85\% |  | 3.66\% |  | 3.72\% |
| Fixed rate debt |  |  |  |  | \$ | - | \$ | - | \$ | 825,000 |  | \$2,341,360 |  | 350,000 |  | 340,000 |  | 856,360 |
| Fixed weighted average rate expiring |  |  |  |  |  | -\% |  | -\% |  | 3.59\% |  | 3.47\% |  | 3.83\% |  | 3.70\% |  | 3.62\% |
| Floating rate debt |  |  |  |  | \$ | - | \$ | 96,039 |  | 485,000 |  | \$ 764,721 | \$ | 450,000 | \$ | 200,000 |  | 995,760 |
| Floating weighted average rate expiring |  |  |  |  |  | -\% |  | 4.41\% |  | 3.89\% |  | 3.80\% |  | 3.90\% |  | 3.36\% |  | 3.86\% |

(1) Represents the extended maturity for certain loans in which we have the unilateral right to extend.
 to LIBOR plus $1.00 \%$ (3.30\% as of October 26, 2018)
(3) Pursuant to an existing swap agreement, the loan bears interest at $3.15 \%$ through December 2020. The rate was swapped from LIBOR plus $1.60 \%$ ( $3.72 \%$ as of September 30,2018 ).
(4) Pursuant to an existing swap agreement, the loan bears interest at $2.56 \%$ through September 2020. The rate was swapped from LIBOR plus $1.75 \%$ ( $3.87 \%$ as of September 30 , 2018)
(5) Pursuant to an existing swap agreement, the loan bears interest at 4.14\% through January 2025. The rate was swapped from LIBOR plus $1.80 \%$ (3.94\% as of September 30, 2018).

## VORNADO <br> REALTY TRUST

## UNCONSOLIDATED JOINT VENTURES

| (unaudited and in thousands) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Joint Venture Name | Asset Category | $\begin{gathered} \text { Percentage } \\ \text { Ownership at } \\ \text { September 30, } \\ 2018 \\ \hline \end{gathered}$ | Company's Carrying Amount |  | Company's Pro rata Share of Debt ${ }^{(1)}$ |  | $\begin{gathered} 100 \% \text { of } \\ \text { Joint Venture } \\ \text { Debt }{ }^{(1)} \end{gathered}$ |  | Maturity Date | Spread over LIBOR | Interest Rate |
| Alexander's Inc. ("Alexander's") | Office/Retail | 32.4\% | \$ | 111,842 | \$ | 379,477 | \$ | 1,171,226 | Various | Various | Various |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Pennsylvania Real Estate Investment Trust ("PREIT") | Retail | 7.9\% |  | 61,514 |  | 127,836 |  | 1,610,192 | Various | Various | Various |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Urban Edge Properties ("UE") | Retail | 4.5\% |  | 45,398 |  | 70,578 |  | 1,564,634 | Various | Various | Various |
| Partially owned office buildings/land: |  |  |  |  |  |  |  |  |  |  |  |
| One Park Avenue | Office/Retail | 55.0\% |  | 131,477 |  | 165,000 |  | 300,000 | 03/21 | L+175 | 3.87\% |
| 280 Park Avenue | Office/Retail | 50.0\% |  | 116,801 |  | 600,000 |  | 1,200,000 | 09/24 | L+173 | 3.86\% |
| 650 Madison Avenue | Office/Retail | 20.1\% |  | 109,120 |  | 161,024 |  | 800,000 | 10/20 | N/A | 4.39\% |
| 512 West 22nd Street | Office/Retail | 55.0\% |  | 60,654 |  | 46,684 |  | 84,881 | 11/20 | L+265 | 4.76\% |
| West 57th Street properties | Office/Retai/Land | 50.0\% |  | 43,859 |  | 10,000 |  | 20,000 | 12/22 | L+160 | 3.70\% |
| 61 Ninth Avenue | Office/Retail | 45.1\% |  | 30,420 |  | 34,207 |  | 75,846 | 12/21 | L+305 | 5.15\% |
| 825 Seventh Avenue | Office | 50.0\% |  | 9,605 |  | 10,250 |  | 20,500 | 06/19 | L+140 | 3.50\% |
| 85 Tenth Avenue | Office/Retail | 49.9\% |  | $(3,201)$ |  | 311,875 |  | 625,000 | 12/26 | N/A | 4.55\% |
| Other | Office/Retail | Various |  | 4,091 |  | 17,465 |  | 50,150 | Various | Various | Various |
| Other equity method investments: |  |  |  |  |  |  |  |  |  |  |  |
| Independence Plaza | Residential/Retail | 50.1\% |  | 66,499 |  | 338,175 |  | 675,000 | 07/25 | N/A | 4.25\% |
| Moynihan Office Building | Office/Retail | 50.1\% |  | 42,681 |  | 123,553 |  | 246,612 | 06/21 | L+325 | 5.37\% |
| Rosslyn Plaza | Office/Residential | 43.7\% to 50.4\% |  | 31,417 |  | 20,084 |  | 39,841 | 06/19 | L+225 | 4.36\% |
| Other | Various | Various |  | 47,263 |  | 99,575 |  | 644,278 | Various | Various | Various |
|  |  |  | \$ | 909,440 | \$ | 2,515,783 | \$ | 9,128,160 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 330 Madison Avenue | Office | 25.0\% | \$ | $(57,935){ }^{(2)}$ | \$ | 125,000 | \$ | 500,000 | 08/24 | N/A | 3.43\% |
| 7 West 34th Street | Office/Retail | 53.0\% |  | $(49,647){ }^{(3)}$ |  | 159,000 |  | 300,000 | 06/26 | N/A | 3.65\% |
|  |  |  | \$ | $(107,582)$ | \$ | 284,000 | \$ | 800,000 |  |  |  |

(1) Represents the contractual debt obligations.
(2) Our negative basis resulted from a refinancing distribution and is included in "other liabilities" on our consolidated balance sheets.
(3) Our negative basis resulted from a deferred gain from the sale of a $47.0 \%$ ownership interest in the property on May 27, 2016 and is included in "other liabilities" on our consolidated balance sheets.

## VORNADO

REALTY TRUST

## UNCONSOLIDATED JOINT VENTURES

(unaudited and in thousands)

 includes our $\$ 518$ share of Alexander's litigation expense due to a settlement
(2) Includes a $\$ 5,200$ net gain resulting from UE operating partnership unit issuances.
(3) Includes a $\$ 44,465$ non-cash impairment loss.


## VORNADO

REALTY TRUST

## UNCONSOLIDATED JOINT VENTURES

(unaudited and in thousands)

(1) Includes our $\$ 1,085$ share of a non-cash straight-line rent write-off adjustment related to Sears which filed for Chapter 11 bankruptcy relief. Our share of net income also includes our $\$ 7,708$ share of Alexander's potential additional Transfer Tax, our $\$ 3,162$ share of higher interest expense due to an increase in average LIBOR and higher average mortgage balances due to a refinancing, our $\$ 1,802$ share of expense related to the change in fair value of marketable securities held by Alexander's and our $\$ 518$ share of Alexander's litigation expense due to a settlement.
(2) Includes our $\$ 4,978$ share of potential additional Transfer Tax related to the March 2011 acquisition of One Park Avenue.
(3) On August 3, 2018, we completed the sale of our $49.5 \%$ interests in the 666 Fifth Avenue Office Condominium and were repaid our interest in the 666 Fifth Avenue Office Condominium mortgage loan.
(4) Includes a $\$ 21,100$ net gain resulting from UE operating partner unit issuances.
(5) Includes a $\$ 44,465$ non-cash impairment loss.
(6) In 2017, we recognized $\$ 26,687$ of net gains comprised of $\$ 15,314$ representing our share of a net gain on the sale of Suffolk Downs and $\$ 11,373$ representing the net gain on repayment of our debt investments in Suffolk Downs JV.

## VORNADO <br> REALTY TRUST

DEVELOPMENT/REDEVELOPMENT SUMMARY - AS OF SEPTEMBER 30, 2018
(unaudited and in thousands, except square feet)

| Current Projects | Segment | Property Rentable Sq. Ft. | (At Share) <br> Excluding Land Costs |  |  |  |  | \% <br> Complete | Start | Available for Occupancy | Full Quarter Stabilized Operations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Incremental Budget |  |  | Amount Expended |  |  |  |  |  |
| 220 Central Park South - residential condominiums | Other | 397,000 | \$ | 1,400,000 | \$ | 1,123,726 | (1) | 80.3\% | Q3 2012 | N/A | N/A |
| Moynihan Office Building - (50.1\% interest) ${ }^{(2)}$ | New York | 850,000 |  | 400,000 |  | 54,823 |  | 13.7\% | Q2 2017 | Q3 2020 | Q2 2022 |
| One Penn Plaza - renovation ${ }^{(3)}$ | New York | 2,535,000 |  | 200,000 |  | 6,253 |  | 3.1\% | Q4 2018 | N/A | N/A |
| 512 West 22nd Street - office/retail (55.0\% interest) | New York | 173,000 |  | 72,000 |  | 50,065 | (4) | 69.5\% | Q4 2015 | Q4 2018 | Q1 2020 |
| 61 Ninth Avenue - office/retail (45.1\% interest) ${ }^{(5)}$ | New York | 170,000 |  | 69,000 |  | 57,970 |  | 84.0\% | Q1 2016 | Q2 2018 | Q2 2019 |
| 345 Montgomery Street (555 California Street) (70.0\% interest) | Other | 64,000 |  | 32,000 |  | 9,523 | (6) | 29.8\% | Q1 2018 | Q3 2019 | Q3 2020 |
| 606 Broadway - office/retail (50.0\% interest) | New York | 34,000 |  | 30,000 |  | 23,307 | (7) | 77.7\% | Q2 2016 | Q4 2018 | Q2 2020 |
| 825 Seventh Avenue - office (50.0\% interest) | New York | 165,000 |  | 15,000 |  | 3,086 |  | 20.6\% | Q2 2018 | Q1 2020 | Q1 2021 |
| Total current projects |  |  | \$ | 2,218,000 | \$ | 1,328,753 |  |  |  |  |  |


| Future Opportunities |  | Property <br> Zoning <br> Sq. Ft. |
| :--- | :--- | ---: |
| Penn Plaza - multiple opportunities - office/residential/retail | Segment | New York | | TBD |
| :---: |
| Hotel Pennsylvania |

(1) Excludes land and acquisition costs of $\$ 515,426$.
(2) Excludes $\$ 115,230$ for our share of the upfront contribution of $\$ 230,000$. The building and land are subject to a lease which expires in 2116 .
(3) The building is subject to a ground lease which expires in 2098.
(4) Excludes land and acquisition costs of $\$ 57,000$.
(5) The building is subject to a ground lease which expires in 2115.
(6) Excludes land and building costs of $\$ 31,000$
(7) Excludes land and acquisition costs of $\$ 22,703$.
(8) The building is subject to a ground lease which expires in 2114.

## VORNADO <br> REALTY TRUST

## CAPITAL EXPENDITURES,

TENANT IMPROVEMENTS AND LEASING COMMISSIONS

## CONSOLIDATED

(unaudited and in thousands)

| Amounts paid for capital expenditures: | Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2017 |  | 2016 |  |
| Expenditures to maintain assets | \$ | 66,167 | \$ | 102,028 | \$ | 95,613 |
| Tenant improvements |  | 67,972 |  | 111,696 |  | 152,329 |
| Leasing commissions |  | 27,389 |  | 29,145 |  | 41,690 |
| Recurring tenant improvements, leasing commissions and other capital expenditures |  | 161,528 |  | 242,869 |  | 289,632 |
| Non-recurring capital expenditures |  | 28,882 |  | 34,921 |  | 49,796 |
| Total capital expenditures and leasing commissions | \$ | 190,410 | \$ | 277,790 | \$ | 339,428 |


|  | Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2017 |  |  | 2016 |  |
| Amounts paid for development and redevelopment expenditures: |  |  |  |  |  |  |  |
| 220 Central Park South | \$ | 204,727 | \$ | 265,791 |  | \$ | 303,974 |
| 606 Broadway |  | 13,141 |  | 15,997 |  |  | 4,234 |
| 345 Montgomery Street (555 California Street) |  | 10,497 |  | 5,950 |  |  | 434 |
| 1535 Broadway (Marriott Marquis - retail and signage) |  | 7,558 |  | 1,982 |  |  | 9,283 |
| One Penn Plaza - renovation |  | 3,901 |  | 1,462 |  |  | 413 |
| Penn Plaza |  | 3,561 |  | 7,107 |  |  | 11,904 |
| 90 Park Avenue |  | 1,015 |  | 7,523 |  |  | 33,308 |
| 640 Fifth Avenue |  | 199 |  | 1,648 |  |  | 46,282 |
| 304 Canal Street |  | 178 |  | 3,973 |  |  | 5,941 |
| Other |  | 29,370 |  | 44,419 |  |  | 190,792 |
|  | \$ | 274,147 | \$ | 355,852 |  | \$ | 606,565 |

(1) Primarily relates to our former Washington, DC segment which was spun-off on July 17, 2017.

## VORNADO <br> REALTY TRUST

## CAPITAL EXPENDITURES,

TENANT IMPROVEMENTS AND LEASING COMMISSIONS
NEW YORK SEGMENT
(unaudited and in thousands)

| Amounts paid for capital expenditures: | Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2017 |  | 2016 |  |
| Expenditures to maintain assets | \$ | 48,227 | \$ | 79,567 | \$ | 65,561 |
| Tenant improvements |  | 49,423 |  | 83,639 |  | 112,687 |
| Leasing commissions |  | 24,683 |  | 26,114 |  | 38,134 |
| Recurring tenant improvements, leasing commissions and other capital expenditures |  | 122,333 |  | 189,320 |  | 216,382 |
| Non-recurring capital expenditures |  | 20,579 |  | 27,762 |  | 47,642 |
| Total capital expenditures and leasing commissions | \$ | 142,912 | \$ | 217,082 | \$ | 264,024 |


|  | September 30, 2018 |  | 2017 |  | 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amounts paid for development and redevelopment expenditures: |  |  |  |  |  |  |
| 606 Broadway | \$ | 13,141 | \$ | 15,997 | \$ | 4,234 |
| 1535 Broadway (Marriott Marquis - retail and signage) |  | 7,558 |  | 1,982 |  | 9,283 |
| One Penn Plaza - renovation |  | 3,901 |  | 1,462 |  | 413 |
| Penn Plaza |  | 3,561 |  | 7,107 |  | 11,904 |
| 90 Park Avenue |  | 1,015 |  | 7,523 |  | 33,308 |
| 640 Fifth Avenue |  | 199 |  | 1,648 |  | 46,282 |
| 304 Canal Street |  | 178 |  | 3,973 |  | 5,941 |
| Other |  | 18,279 |  | 3,682 |  | 6,838 |
|  | \$ | 47,832 | \$ | 43,374 | \$ | 118,203 |

## VORNADO

REALTY TRUST
CAPITAL EXPENDITURES,
TENANT IMPROVEMENTS AND LEASING COMMISSIONS
theMART
(unaudited and in thousands)

## Amounts paid for capital expenditures

Expenditures to maintain assets
Tenant improvements
Leasing commissions
Recurring tenant improvements, leasing commissions and other capital expenditures
Non-recurring capital expenditures
Total capital expenditures and leasing commissions


| Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2017 |  | 2016 |  |
| \$ | 51 | \$ | 5,342 | \$ | 24,788 |
|  | 8,370 |  | 799 |  | 1,384 |
| \$ | 8,421 | \$ | 6,141 | \$ | 26,172 |

## VORNADO

REALTY TRUST
CAPITAL EXPENDITURES,
TENANT IMPROVEMENTS AND LEASING COMMISSIONS

## 555 CALIFORNIA STREET

(unaudited and in thousands)

| Amounts paid for capital expenditures: | Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2017 |  | 2016 |  |
| Expenditures to maintain assets | \$ | 7,708 | \$ | 9,689 | \$ | 9,954 |
| Tenant improvements |  | 7,694 |  | 19,327 |  | 9,904 |
| Leasing commissions |  | 2,293 |  | 1,330 |  | 1,486 |
| Recurring tenant improvements, leasing commissions and other capital expenditures |  | 17,695 |  | 30,346 |  | 21,344 |
| Non-recurring capital expenditures |  | 8,221 |  | 7,159 |  | 2,154 |
| Total capital expenditures and leasing commissions | \$ | 25,916 | \$ | 37,505 | \$ | 23,498 |


|  | Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2017 |  | 2016 |  |
| Amounts paid for development and redevelopment expenditures: |  |  |  |  |  |  |
| 345 Montgomery Street | \$ | 10,497 | \$ | 5,950 | \$ | 434 |
| Other |  | 430 |  | 6,465 |  | 8,716 |
|  | \$ | 10,927 | \$ | 12,415 | \$ | 9,150 |

## VORNADO

REALTY TRUST
CAPITAL EXPENDITURES,
TENANT IMPROVEMENTS AND LEASING COMMISSIONS

## OTHER

(unaudited and in thousands)

Amounts paid for development and redevelopment expenditures:

## 220 Central Park South

Other

| Nine Months Ended September 30, 2018 |  | Year Ended December 31, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2017 |  | 2016 |  |
| \$ | 204,727 | \$ | 265,791 | \$ | 303,974 |
|  | 2,331 |  | 28,131 |  | 149,066 |
| \$ | 207,058 | \$ | 293,922 | \$ | 453,040 |

(1) Primarily relates to our former Washington, DC segment which was spun-off on July 17, 2017.

## VORNADO

SQUARE FOOTAGE

|  | $\begin{gathered} \text { At } \\ \text { 100\% } \end{gathered}$ | At Vornado's Share |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Under Development | In Service |  |  |  |
|  |  |  |  | Office | Retail | Showroom | Other |
| Segment: |  |  |  |  |  |  |  |
| New York: |  |  |  |  |  |  |  |
| Office | 21,448 | 17,637 | 739 | 16,715 | - | 183 | - |
| Retail | 2,824 | 2,505 | 82 | - | 2,423 | - | - |
| Residential - 1,687 units | 1,533 | 800 | - | - | - | - | 800 |
| Alexander's ( $32.4 \%$ interest), including 312 residential units | 2,437 | 790 | - | 288 | 419 | - | 83 |
| Hotel Pennsylvania | 1,400 | 1,400 | - | - | - | - | 1,400 |
|  | 29,642 | 23,132 | 821 | 17,003 | 2,842 | 183 | 2,283 |
| Other: |  |  |  |  |  |  |  |
| theMART | 3,694 | 3,685 | - | 2,044 | 109 | 1,532 | - |
| 555 California Street (70\% interest) | 1,819 | 1,274 | 55 | 1,188 | 31 | - | - |
| Other | 2,832 | 1,333 | 146 | 212 | 864 | - | 111 |
|  | 8,345 | 6,292 | 201 | 3,444 | 1,004 | 1,532 | 111 |
|  |  |  |  |  |  |  |  |
| Total square feet at September 30, 2018 | 37,987 | 29,424 | 1,022 | 20,447 | 3,846 | 1,715 | 2,394 |
|  |  |  |  |  |  |  |  |
| Total square feet at June 30, 2018 | 39,472 | 30,162 | 1,693 | 20,515 | 3,845 | 1,715 | 2,394 |
| Parking Garages (not included above): | Square Feet | Number of Garages | Number of Spaces |  |  |  |  |
| New York | 1,669 | 10 | 4,875 |  |  |  |  |
| theMART | 558 | 4 | 1,637 |  |  |  |  |
| 555 California Street | 168 | 1 | 453 |  |  |  |  |
| Rosslyn Plaza | 411 | 4 | 1,094 |  |  |  |  |
| Total at September 30, 2018 | 2,806 | 19 | 8,059 |  |  |  |  |

## VORNADO

## TOP 30 TENANTS

(unaudited and in thousands, except square feet)

| Tenants | Square <br> Footage <br> At Share ${ }^{(1)}$ | Annualized <br> Revenues <br> At Share $(\text { non-GAAP })^{(1)}$ |  | \% of Annualized Revenues At Share (non-GAAP) ${ }^{(2)}$ |
| :---: | :---: | :---: | :---: | :---: |
| Facebook | 758,292 | \$ | 75,749 | 3.1\% |
| IPG and affiliates | 923,896 |  | 59,820 | 2.4\% |
| Swatch Group USA | 25,634 |  | 42,324 | 1.7\% |
| Macy's | 646,434 |  | 38,308 | 1.6\% |
| Bloomberg L.P. | 287,898 |  | 33,778 | 1.4\% |
| Victoria's Secret (guaranteed by L Brands, Inc.) | 63,779 |  | 33,019 | 1.3\% |
| AXA Equitable Life Insurance | 336,646 |  | 32,647 | 1.3\% |
| Google/Motorola Mobility (guaranteed by Google) | 728,483 |  | 32,308 | 1.3\% |
| Forever 21 | 170,374 |  | 31,063 | 1.3\% |
| Oath (Verizon) | 327,138 |  | 30,876 | 1.3\% |
| Ziff Brothers Investments, Inc. | 287,030 |  | 30,838 | 1.3\% |
| McGraw-Hill Companies, Inc. | 479,557 |  | 30,443 | 1.2\% |
| AMC Networks, Inc. | 404,920 |  | 27,612 | 1.1\% |
| The City of New York | 562,835 |  | 25,059 | 1.0\% |
| Topshop | 94,349 |  | 24,744 | 1.0\% |
| Fast Retailing (Uniqlo) | 90,732 |  | 23,782 | 1.0\% |
| Amazon (including its Whole Foods subsidiary) | 308,113 |  | 23,461 | 1.0\% |
| Madison Square Garden | 344,355 |  | 22,869 | 0.9\% |
| Neuberger Berman Group LLC | 288,325 |  | 22,801 | 0.9\% |
| New York University | 347,948 |  | 20,416 | 0.8\% |
| Bank of America | 254,033 |  | 20,369 | 0.8\% |
| Hollister | 21,741 |  | 20,252 | 0.8\% |
| JCPenney | 426,370 |  | 19,945 | 0.8\% |
| PwC | 243,434 |  | 17,430 | 0.7\% |
| U.S. Government | 578,711 |  | 13,967 | 0.6\% |
| Ferragamo | 53,171 |  | 13,619 | 0.6\% |
| Information Builders, Inc. | 229,064 |  | 12,699 | 0.5\% |
| Sephora | 16,146 |  | 12,155 | 0.5\% |
| New York \& Company, Inc. | 207,585 |  | 11,995 | 0.5\% |
| Cushman \& Wakefield | 127,314 |  | 11,780 | 0.5\% |
|  |  |  |  | 33.2\% |

(1) Includes leases not yet commenced
(2) See reconciliation of our annualized revenue at share on page xiv in the Appendix.

## VORNADO

REALTYTRUST

| OCCUPANCY |  |  |  |
| :---: | :---: | :---: | :---: |
| (unaudited) |  |  |  |
|  | New York | theMART | 555 California Street |
| Occupancy rate at: |  |  |  |
| September 30, 2018 | 97.3\% | 95.5\% | 99.4\% |
| June 30, 2018 | 96.6\% | 99.3\% | 97.3\% |
| December 31, 2017 | 97.2\% | 98.6\% | 94.2\% |
| September 30, 2017 | 96.9\% | 98.7\% | 94.2\% |

## RESIDENTIAL STATISTICS in service

(unaudited)

|  | Number of Units | Vornado's Ownership Interest |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number of Units | Occupancy Rate | Average Monthly Rent Per Unit |
| New York: |  |  |  |  |
| September 30, 2018 | 1,999 | 963 | 96.7\% | \$3,775 |
| June 30, 2018 | 1,994 | 960 | 98.3\% | \$3,789 |
| December 31, 2017 | 1,983 | 955 | 97.3\% | \$3,745 |
| September 30, 2017 | 1,982 | 954 | 94.6\% | \$3,660 |

## VORNADO

## REALTY TRUST



## VORNADO

REALTY TRUST

PROPERTY TABLE


## VORNADO

[^2]PROPERTY TABLE


## VORNADO

REALTY TRUST
NEW YORK SEGMENT

| Property | $\stackrel{\text { \% }}{\text { Ownership }}$ | \% Occupancy | $\begin{gathered} \text { Weighted } \\ \text { Average } \\ \text { Annual Rent } \\ \text { PSF } \end{gathered}$ |  | Square Feet |  |  | $\begin{gathered} \text { Encumbrances } \\ \text { (non-GAAP) } \\ \text { (in thousands) }^{(2)} \end{gathered}$ | Major Tenants |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total Property | In Service | Under Development or Not Available for Lease |  |  |
| NEW YORK (Continued): |  |  |  |  |  |  |  |  |  |
| 655 Fifth Avenue -Retail | 92.5\% | 100.0\% | \$ | 255.33 | 57,000 | 57,000 | - | \$ 140,000 | Ferragamo |
| 697-703 Fifth Avenue (St. Regis - retail) -Retail | 74.3\% | 100.0\% |  | 2,759.02 | 26,000 | 26,000 | - | 450,000 | Swatch Group USA, Harry Winston |
| Total Madison/Fifth |  |  |  |  | 1,531,000 | 1,531,000 |  | 1,780,000 |  |
| Midtown South: |  |  |  |  |  |  |  |  |  |
| 770 Broadway |  |  |  |  |  |  |  |  |  |
| -Office | 100.0\% | 100.0\% |  | 97.55 | 1,078,000 | 1,078,000 | - |  | Facebook, Oath (Verizon) |
| -Retail | 100.0\% | 100.0\% |  | 66.56 | 105,000 | 105,000 | $=$ |  | Ann Taylor Retail Inc., Bank of America, Kmart Corporation |
|  | 100.0\% | 100.0\% |  | 94.80 | 1,183,000 | 1,183,000 | - | 700,000 |  |
| One Park Avenue -Office | 55.0\% | 100.0\% |  | 58.89 | 865,000 | 865,000 | - |  | New York University, Clarins USA Inc., BMG Rights Management, Robert A.M. Stern Architect, automotiveMastermind |
| -Retail | 55.0\% | 100.0\% |  | 87.74 | 78,000 | 78,000 | - |  | Bank of Baroda, Citibank, Equinox, Men's Wearhouse |
|  | 55.0\% | 100.0\% |  | 61.28 | 943,000 | 943,000 | - | 300,000 |  |
| 4 Union Square South |  |  |  |  |  |  |  |  | Burlington, Whole Foods Market, DSW, |
| -Retail | 100.0\% | 100.0\% |  | 107.81 | 206,000 | 206,000 | - | 120,000 | Forever 21 |
| 692 Broadway |  |  |  |  |  |  |  |  |  |
| Total Midtown South |  |  |  |  | 2,368,000 | 2,368,000 | - | 1,120,000 |  |
| Rockefeller Center: |  |  |  |  |  |  |  |  |  |
| 1290 Avenue of the Americas |  |  |  |  |  |  |  |  | AXA Equitable Life Insurance, Hachette Book Group Inc., Bryan Cave LLP, Neuberger Berman Group LLC, SSB Realty LLC, Cushman \& Wakefield, Fitzpatrick, |
| -Office | 70.0\% | 100.0\% |  | 82.44 | 2,037,000 | 2,037,000 | - |  | Cella, Harper \& Scinto, Columbia University |
| -Retail | 70.0\% | 100.0\% |  | 180.00 | 76,000 | 76,000 | - |  | Duane Reade, JPMorgan Chase Bank, Sovereign Bank, Starbucks |
|  | 70.0\% | 100.0\% |  | 85.95 | 2,113,000 | 2,113,000 | - | 950,000 |  |
| 608 Fifth Avenue (ground leased through 2033) |  |  |  |  |  |  |  |  |  |
| -Office | 100.0\% | 99.8\% |  | 71.69 | 93,000 | 93,000 | - |  |  |
| -Retail | 100.0\% | 100.0\% |  | 496.73 | 44,000 | 44,000 | - |  | Topshop |
|  | 100.0\% | 99.9\% |  | 208.20 | 137,000 | 137,000 | - | - |  |
| Total Rockefeller Center |  |  |  |  | 2,250,000 | 2,250,000 | - | 950,000 |  |
| Wall Street/Downtown: |  |  |  |  |  |  |  |  |  |
| 40 Fulton Street |  |  |  |  |  |  |  |  |  |
| -Office | 100.0\% | 73.8\% |  | 43.98 | 246,000 | 246,000 | - |  | Market News International Inc., Sapient Corp. |
| -Retail | 100.0\% | 100.0\% |  | 108.73 | 5,000 | 5,000 | - |  | TD Bank |
|  | 100.0\% | 74.3\% |  | 45.27 | 251,000 | 251,000 | - | - |  |

## VORNADO

REALTY TRUST

## PROPERTY TABLE



## VORNADO

REALTY TRUST

## NEW YORK SEGMENT



## VORNADO <br> REALTY TRUST

## NEW YORK SEGMENT

| Property | $\begin{gathered} \% \\ \text { Ownership } \end{gathered}$ | \% <br> Occupancy | Weighted Average Annual Rent PSF ${ }^{(1)}$ |  | Square Feet |  |  | $\begin{gathered} \text { Encumbrances } \\ \text { (non-GAAP) }^{\text {(in thousands) }}{ }^{(2)} \\ \hline \end{gathered}$ |  | Major Tenants |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total Property | In Service | Under Development or Not Available for Lease |  |  |  |
| NEW YORK (Continued): |  |  |  |  |  |  |  |  |  |  |
| Property under Development: |  |  |  |  |  |  |  |  |  |  |
| 512 West 22nd Street |  |  |  |  |  |  |  |  |  |  |
| 61 Ninth Avenue (ground leased through 2115) |  |  |  |  |  |  |  |  |  |  |
| -Office | 45.1\% | - |  | - | 147,000 | - | 147,000 |  |  | Aetna Life Insurance Company* |
| -Retail | 45.1\% | 100.0\% |  | 287.61 | 23.000 | 23,000 | 二 |  |  | Starbucks |
|  | 45.1\% | 100.0\% |  | 287.61 | 170,000 | 23,000 | 147,000 |  | 75,846 |  |
| 606 Broadway (19 East Houston Street) |  |  |  |  |  |  |  |  |  |  |
| -Office | 50.0\% | - |  | - | 23,000 | - | 23,000 |  |  |  |
| -Retail | 50.0\% | - |  | - | 11,000 | 二 | 11.000 |  |  |  |
|  | 50.0\% | - |  | - | 34,000 | - | 34,000 |  | 49,721 |  |
| Moynihan Office Building (ground and building leased through 2116) |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -Office | 50.1\% | - |  | - | 730,000 | - | 730,000 |  |  |  |
| -Retail | 50.1\% | - |  | - | 120,000 | $=$ | 120.000 |  |  |  |
|  | 50.1\% | - |  | - | 850,000 | - | 850,000 |  | 246,612 |  |
| Total Property under Development |  |  |  |  | 1,227,000 | 23,000 | 1,204,000 |  | 457,060 |  |
| Properties to be Developed: |  |  |  |  |  |  |  |  |  |  |
| 57 th Street (3 properties) |  |  |  |  |  |  |  |  |  |  |
| --Retail | 50.0\% | - |  | - | - | - | - |  |  |  |
|  | 50.0\% | - |  | - | - | - | - |  |  |  |
|  | 50.0\% | - |  | - | - | - | - |  | - |  |
| 484 Eighth Avenue |  |  |  |  |  |  |  |  |  |  |
| -Retail | 100.0\% | - |  | - | - | - | - |  | - |  |
| 486 Eighth Avenue |  |  |  |  |  |  |  |  |  |  |
| -Retail | 100.0\% | - |  | - | - | - | - |  | - |  |
| 265 West 34th Street |  |  |  |  |  |  |  |  |  |  |
| -Retail | 100.0\% | - |  | - | - | - | - |  | - |  |
| 267 West 34th Street |  |  |  |  |  |  |  |  |  |  |
| -Retail | 100.0\% | - |  | - | - | - | - |  | - |  |
| Total Properties to be Developed |  |  |  |  | - | - | - |  | - |  |
| New York Office: |  |  |  |  |  |  |  |  |  |  |
| Total |  | 97.4\% | s | 75.89 | 21,448,000 | 20.175,000 | 1.273.000 |  |  |  |
| Vornado's Ownership Interest |  | 97.3\% | \$ | 73.89 | 17,637,000 | 16,898,000 | 739,000 |  |  |  |
| New York Retail: |  |  |  |  |  |  |  |  |  |  |
| Total |  | 95.5\% | \$ | 235.51 | 2,824,000 | 2,671,000 | 153,000 |  |  |  |
| Vornado's Ownership Interest |  | 96.6\% | \$ | 231.54 | 2,505,000 | 2,423,000 | 82,000 |  |  |  |
| New York Residential: |  |  |  |  |  |  |  |  |  |  |
| Total |  | 96.6\% |  |  | 1,533,000 | 1,533,000 | - |  |  |  |
| Vornado's Ownership Interest |  | 96.7\% |  |  | 800,000 | 800,000 | - |  |  |  |

## VORNADO

## REALTY TRUST

| Property | $\stackrel{\%}{\text { Ownership }}$ | \% Occupancy | $\begin{gathered} \text { Weighted } \\ \text { Average } \\ \text { Anual Rent } \\ \text { PSF }^{(1)} \\ \hline \end{gathered}$ |  | Square Feet |  |  | $\begin{aligned} & \text { Encumbrances } \\ & \text { (non-GAAP) } \\ & \text { (in thousands) }^{(2)} \end{aligned}$ |  | Major Tenants |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total Property | In Service | Under Development or Not Available for Lease |  |  |  |
| NEW YORK (Continued): |  |  |  |  |  |  |  |  |  |  |
| ALEXANDER'S, INC.: |  |  |  |  |  |  |  |  |  |  |
| New York: |  |  |  |  |  |  |  |  |  |  |
| 731 Lexington Avenue, Manhattan |  |  |  |  |  |  |  |  |  |  |
| -Office | 32.4\% | 100.0\% | \$ | 117.33 | 889,000 | 889,000 | - | \$ | 500,000 | Bloomberg |
| -Retail | 32.4\% | 99.4\% |  | 192.88 | 174,000 | 174,000 | - |  | 350,000 | Hennes \& Mauritz, The Home Depot, The Container Store |
|  | 32.4\% | 99.9\% |  | 128.62 | 1,063,000 | 1,063,000 | - |  | 850,000 |  |
|  |  |  |  |  |  |  |  |  |  | Sears ${ }^{(6)}$, Burlington, |
| Rego Park I, Queens (4.8 acres) | 32.4\% | 100.0\% |  | 40.78 | 343,000 | 343,000 | - |  | - | Bed Bath \& Beyond, Marshalls |
| Rego Park II (adjacent to Rego Park I), |  |  |  |  |  |  |  |  |  |  |
| Queens (6.6 acres) | 32.4\% | 99.9\% |  | 41.23 | 609,000 | 609,000 | - |  | 253,226 | Century 21, Costco, Kohl's, TJ Maxx |
| Flushing, Queens (1.0 acre ground leased through 2037) | 32.4\% | 100.0\% |  | 18.22 | 167,000 | 167,000 | - |  | - | New World Mall LLC |
| The Alexander Apartment Tower, Rego Park, Queens, NY |  |  |  |  |  |  |  |  |  |  |
| Residential (312 units) | 32.4\% | 93.9\% |  | - | 255,000 | 255,000 | - |  | - |  |
| New Jersey: |  |  |  |  |  |  |  |  |  |  |
| Paramus, New Jersey <br> (30.3 acres ground leased to IKEA through 2041) | 32.4\% | 100.0\% |  | - | - | - | - |  | 68,000 | IKEA (ground lessee) |
| Property to be Developed: |  |  |  |  |  |  |  |  |  |  |
| Rego Park III (adjacent to Rego Park II), <br> Queens, NY (3.4 acres) 32.4\% |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Total Alexander's | 32.4\% | 99.3\% |  | 78.04 | 2,437,000 | 2,437,000 | 二 |  | 1,171,226 |  |
| Hotel Pennsylvania: |  |  |  |  |  |  |  |  |  |  |
| -Hotel (1,700 Keys) | 100.0\% |  |  |  | 1,400,000 | 1,400,000 | - |  | - |  |
| Total New York |  | 97.4\% | \$ | 91.49 | 29,669,000 | 28,215,000 | 1,454,000 | \$ | 12,079,975 |  |
| Vornado's Ownership Interest |  | 97.3\% | \$ | 78.06 | 23,159,000 | 22,310,000 | 849,000 | \$ | 8,016,150 |  |

[^3]
## VORNADO

REALTY TRUST


[^4]
## VORNADO <br> REALTY TRUST

REAL ESTATE FUND
PROPERTY TABLE

(1) Weighted average annual rent per square foot excludes ground rent, storage rent and garages.
(2) Represents the contractual debt obligations.

## VORNADO <br> REALTYTRUST

## OTHER

| PROPERTY TABLE |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Property | $\begin{gathered} \text { \% } \\ \text { Ownership } \end{gathered}$ | $\begin{gathered} \text { \% } \\ \text { Occupancy } \end{gathered}$ | Weighted Average Annual Rent PSF ${ }^{(1)}$ |  | Square Feet |  |  |  | Encumbrances (non-GAAP) (in thousands) ${ }^{(3)}$ |  | Major Tenants |
|  |  |  |  |  | Total Property | In Service |  | Under Development or Not Available for Lease |  |  |  |
|  |  |  |  |  | Owned by Company | Owned by Tenant ${ }^{12}$ |  |  |  |  |
| OTHER: |  |  |  |  |  |  |  |  |  |  |  |
| Virginia: |  |  |  |  |  |  |  |  |  |  |  |
| Rosslyn Plaza ${ }^{(4)}$ |  |  |  |  |  |  |  |  |  |  |  |
| Office - 4 buildings | 46.2\% | 65.4\% | \$ | 48.09 |  | 736,000 | 432,000 | - | 304,000 |  |  | Gartner, Nathan Associates, Inc. |
| Residential - 2 buildings (197 units) | 43.7\% | 97.9\% |  |  | 253,000 | 253,000 | - | - |  |  |  |
|  |  |  |  |  | 989,000 | 685,000 | - | 304,000 | \$ | 39,841 |  |
| Fashion Centre Mall ${ }^{(4)}$ | 7.5\% | 98.9\% |  | 48.71 | 868,000 | 868,000 | - | - |  | 410,000 | Macy's, Nordstrom |
| Washington Tower ${ }^{(4)}$ | 7.5\% | 100.0\% |  | 51.16 | 170,000 | 170,000 | - | - |  | 40,000 | Computer Science Corp. |
| New Jersey: |  |  |  |  |  |  |  |  |  |  |  |
| Wayne Town Center, Wayne (ground leased through 2064) | 100.0\% | 100.0\% |  | 30.71 | 677,000 | 228,000 | 443,000 | 6,000 |  | - | JCPenney, Costco, Dick's Sporting Goods, Nordstrom Rack, 24 Hour Fitness |
| Maryland: |  |  |  |  |  |  |  |  |  |  |  |
| Annapolis <br> (ground and building leased through 2042) | 100.0\% | 100.0\% |  | 8.99 | 128,000 | 128,000 | - | - |  | - | The Home Depot |
| Total Other |  | 93.0\% | \$ | 40.69 | 2,832,000 | 2,079,000 | 443,000 | 310,000 | \$ | 489,841 |  |
| Vornado's Ownership Interest |  | 93.5\% | \$ | 31.61 | 1,333,000 | 744,000 | 443,000 | 146,000 | \$ | 53,834 |  |

(1) Weighted average annual rent per square foot excludes ground rent, storage rent, garages and residential.
(2) Owned by tenant on land leased from the company.
(3) Represents the contractual debt obligations.
(4) Reclassified to Other from our former Washington, DC segment.

## VORNADO <br> REALTY TRUS

## INVESTOR INFORMATION

## Executive Officers:

Steven Roth
David R. Greenbaum
Michael J. Franco
Joseph Macnow
RESEARCH COVERAGE - EQUITY

| James Feldman | Steve Sakwa/Jason Green | Nicholas Yulico |
| :---: | :---: | :---: |
| Bank of America/Merrill Lynch | Evercore ISI | Scotia Capital (USA) Inc |
| 646-855-5808 | 212-446-9462/212-446-9449 | 212-225-6904 |
| Ross Smotrich/Trevor Young | Daniel Ismail | John W. Guinee/Aaron Wolf |
| Barclays Capital | Green Street Advisors | Stifel Nicolaus \& Company |
| 212-526-2306/212-526-3098 | 949-640-8780 | 443-224-1307/443-224-1206 |
| John P. Kim/Alex Nelson | Anthony Paolone/Patrice Chen | Michael Lewis |
| BMO Capital Markets | JP Morgan | SunTrust Robinson Humphrey |
| 212-885-4115/212-885-4144 | 212-622-6682/212-622-1893 | 212-319-5659 |
| Michael Bilerman/Emmanuel Korchman | Vikram Malhotra/Adam J. Gabalski | Frank Lee |
| Citi | Morgan Stanley | UBS |
| 212-816-1383/212-816-1382 | 212-761-7064/212-761-8051 | 415-352-5679 |
| Derek Johnston/Mike Husseini | Alexander Goldfarb/Daniel Santos |  |
| Deutsche Bank | Sandler O'Neill |  |
| 904-520-4973/212-250-7703 | 212-466-7937/212-466-7927 |  |
| RESEARCH COVERAGE - DEBT |  |  |


| Andrew Molloy | Jesse Rosenthal <br> Bank of America/Merrill Lynch | CreditSights |
| :--- | :--- | :--- |
| $646-855-6435$ | $212-340-3816$ | $\underline{\text { Wells Fargo Securities }}$ |
| Cristina Rosenberg Mark Streeter |  |  |
| $\underline{\text { Citi }}$ | $\underline{\text { JP Morgan }}$ |  |
| $212-723-6199$ |  | $212-834-5086$ |

This information is provided as a service to interested parties and not as an endorsement of any report, or representation as to the accuracy of any information contained therein. Opinions, forecasts and other forward-looking statements expressed in analysts' reports are subject to change without notice.

## APPENDIX <br> DEFINITIONS AND NON-GAAP RECONCILIATIONS

## VORNADO <br> REALTY TRUS

## FINANCIAL SUPPLEMENT DEFINITIONS

The financial supplement includes various non-GAAP financial measures. Descriptions of these non-GAAP measures are provided below. Reconciliations of these non-GAAP measures to the most directly comparable GAAP measures are provided on the following pages.

Net Operating Income ("NOI") - NOI represents total revenues less operating expenses. We consider NOI to be the primary non-GAAP financial measure for making decisions and assessing the unlevered performance of our segments as it relates to the total return on assets as opposed to the levered return on equity. As properties are bought and sold based on NOI, we utilize this measure to make investment decisions as well as to compare the performance of our assets to that of our peers. NOI should not be considered a substitute for net income. NOI may not be comparable to similarly titled measures employed by other companies. We calculate NOI on an Operating Partnership basis which is before allocation to the noncontrolling interest of the Operating Partnership.

Funds From Operations ("FFO") - FFO is computed in accordance with the definition adopted by the Board of Governors of the National Association of Real Estate Investment Trusts ("NAREIT"). NAREIT defines FFO as GAAP net income or loss adjusted to exclude net gains from sales of depreciated real estate assets, real estate impairment losses, depreciation and amortization expense from real estate assets and other specified non-cash items, including the pro rata share of such adjustments of unconsolidated subsidiaries. FFO and FFO per diluted share are non-GAAP financial measures used by management, investors and analysts to facilitate meaningful comparisons of operating performance between periods and among our peers because it excludes the effect of real estate depreciation and amortization and net gains on sales, which are based on historical costs and implicitly assume that the value of real estate diminishes predictably over time, rather than fluctuating based on existing market conditions. FFO does not represent cash generated from operating activities and is not necessarily indicative of cash available to fund cash requirements and should not be considered as an alternative to net income as a performance measure or cash flow as a liquidity measure. FFO may not be comparable to similarly titled measures employed by other companies.

Funds Available For Distribution ("FAD") - FAD is defined as FFO less (i) cash basis recurring tenant improvements, leasing commissions and capital expenditures, (ii) straight-line rents and amortization of acquired below-market leases, net, and (iii) other non-cash income, plus (iv) other non-cash charges. FAD is a non-GAAP financial measure that is not intended to represent cash flow and is not indicative of cash flow provided by operating activities as determined in accordance with GAAP. FAD is presented solely as a supplemental disclosure that management believes provides useful information regarding the Company's ability to fund its dividends.

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

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

| (unaudited and in thousands, except per share amounts) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
|  |  | September 30, |  |  |  | $\begin{gathered} \text { June } 30, \\ 2018 \end{gathered}$ |  |  |  |  |  |
|  |  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| Net income (loss) attributable to common shareholders | (A) | \$ | 190,645 | \$ | $(29,026)$ | \$ | 111,534 | \$ | 284,338 | \$ | 134,698 |
| Per diluted share |  | \$ | 1.00 | \$ | (0.15) | \$ | 0.58 | \$ | 1.49 | \$ | 0.71 |
| Certain (income) expense items that impact net income (loss) attributable to common shareholders: |  |  |  |  |  |  |  |  |  |  |  |
| Net gain on sale of our ownership interests in 666 Fifth Avenue Office Condominium |  | \$ | $(134,032)$ | \$ | - | \$ | - | \$ | $(134,032)$ | \$ | - |
| Net gain on the repayment of our loan investment in 666 Fifth Avenue Office Condominium |  |  | $(7,308)$ |  | - |  | - |  | $(7,308)$ |  | - |
| Decrease (increase) in fair value of marketable securities (including our share of partially owned entities) |  |  | 7,966 |  | - |  | $(16,024)$ |  | 26,602 |  | - |
| Net gains on sale of real estate (including our share of partially owned entities) |  |  | $(3,350)$ |  | $(1,522)$ |  | $(24,449)$ |  | $(28,104)$ |  | $(20,981)$ |
| Our share of loss (income) from real estate fund investments (excluding our \$4,252 share of One Park Avenue potential additional transfer taxes and reduction in carried interest for the nine months ended September 30, 2018) |  |  | 748 |  | 7,794 |  | (551) |  | (617) |  | 11,333 |
| Loss from discontinued operations and sold properties (primarily related to JBG SMITH Properties operating results and transaction costs through July 17, 2017 spin-off) |  |  | 42 |  | 53,739 |  | 983 |  | 4,886 |  | 40,542 |
| Impairment loss on investment in PREIT |  |  | - |  | 44,465 |  | - |  | - |  | 44,465 |
| Net gain resulting from UE operating partnership unit issuances |  |  | - |  | $(5,200)$ |  | - |  | - |  | $(21,100)$ |
| Our share of potential additional New York City transfer taxes based on a Tax Tribunal interpretation which Vornado is appealing |  |  | - |  | - |  | - |  | 23,503 |  | - |
| Preferred share issuance costs |  |  | - |  | - |  | - |  | 14,486 |  | - |
| Net gain on repayment of our Suffolk Downs JV debt investments |  |  | - |  | - |  | - |  | - |  | $(11,373)$ |
| Other |  |  | 3,207 |  | 9,515 |  | $(4,213)$ |  | 3,133 |  | 13,333 |
|  |  |  | $(132,727)$ |  | 108,791 |  | $(44,254)$ |  | $(97,451)$ |  | 56,219 |
| Noncontrolling interests' share of above adjustments |  |  | 8,242 |  | $(6,767)$ |  | 3,153 |  | 6,061 |  | $(3,624)$ |
| Total of certain (income) expense items that impact net income (loss) attributable to common shareholders | (B) | \$ | $(124,485)$ | \$ | 102,024 | \$ | $(41,101)$ | \$ | (91,390) | \$ | 52,595 |
| Per diluted share (non-GAAP) |  | \$ | $\underline{(0.65)}$ | \$ | 0.53 | \$ | (0.21) | \$ | (0.48) | \$ | 0.27 |
| Net income attributable to common shareholders, as adjusted (non-GAAP) | ( $A+B$ ) | \$ | 66,160 | \$ | 72,998 | \$ | 70,433 | \$ | 192,948 | \$ | 187,293 |
| Per diluted share (non-GAAP) |  | \$ | 0.35 | \$ | 0.38 | \$ | 0.37 | \$ | 1.01 | \$ | 0.98 |

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

 PLUS ASSUMED CONVERSIONS
(unaudited and in thousands, except per share amounts)


## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

RECONCILIATION OF FFO ATTRIBUTABLE TO COMMON SHAREHOLDERS PLUS ASSUMED CONVERSIONS TO FFO ATTRIBUTABLE TO COMMON SHAREHOLDERS PLUS ASSUMED CONVERSIONS, AS ADJUSTED

| (unaudited and in thousands, except per share amounts) |  |  |
| :--- | :--- | :--- |

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS <br> RECONCILIATION OF FFO ATTRIBUTABLE TO COMMON SHAREHOLDERS PLUS ASSUMED CONVERSIONS TO FAD

| (unaudited and in thousands) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
|  |  | September 30, |  |  |  | $\begin{aligned} & \text { June } 30, \\ & 2018, \end{aligned}$ |  |  |  |  |  |
|  |  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| FFO attributable to common shareholders plus assumed conversions (non-GAAP) | (A) | \$ | 182,516 | \$ | 100,178 | \$ | 209,680 | \$ | 494,941 | \$ | 564,431 |
| Adjustments to arrive at FAD (non-GAAP): |  |  |  |  |  |  |  |  |  |  |  |
| Recurring tenant improvements, leasing commissions and other capital expenditures |  |  | $(44,918)$ |  | $(64,520)$ |  | $(68,065)$ |  | $(161,528)$ |  | $(214,361)$ |
| Adjustments to FFO excluding FFO attributable to discontinued operations and sold properties |  |  | 4,310 |  | 105,341 |  | $(20,909)$ |  | 59,250 |  | 94,356 |
| Amortization of acquired below-market leases, net |  |  | $(9,937)$ |  | $(10,660)$ |  | $(10,089)$ |  | $(30,170)$ |  | $(34,135)$ |
| Amortization of debt issuance costs |  |  | 8,348 |  | 6,220 |  | 8,034 |  | 24,486 |  | 23,554 |
| Stock-based compensation expense |  |  | 5,546 |  | 5,693 |  | 6,975 |  | 26,190 |  | 27,319 |
| Straight-line rentals |  |  | (157) |  | $(9,170)$ |  | $(2,692)$ |  | $(10,279)$ |  | $(37,752)$ |
| Non real estate depreciation |  |  | 1,463 |  | 1,672 |  | 1,464 |  | 4,562 |  | 5,704 |
| Noncontrolling interests' share of above adjustments |  |  | 2,195 |  | $(2,151)$ |  | 5,401 |  | 5,442 |  | 8,403 |
| FAD adjustments, net | (B) |  | $(33,150)$ |  | 32,425 |  | $(79,881)$ |  | $(82,047)$ |  | $(126,912)$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| FAD (non-GAAP) | ( $\mathrm{A}+\mathrm{B}$ ) | \$ | 149,366 | \$ | 132,603 | \$ | 129,799 | \$ | 412,894 | \$ | 437,519 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| FAD payout ratio ${ }^{(1)}$ |  |  | 80.8\% |  | 87.0\% |  | 92.6\% |  | 87.5\% |  | 88.2\% |

 seasonality of our operations.

## VORNADO

REALTY TRUST

## NON-GAAP RECONCILIATIONS

RECONCILIATION OF NET INCOME TO NET OPERATING INCOME AT SHARE AND NET OPERATING INCOME AT SHARE - CASH BASIS

| (unaudited and in thousands) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
|  | September 30, |  |  |  | June 30, 2018 |  |  |  |  |  |
|  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| Net income (loss) | \$ | 219,162 | \$ | $(10,754)$ | \$ | 105,338 | \$ | 324,782 | \$ | 210,577 |
| Deduct: |  |  |  |  |  |  |  |  |  |  |
| (Income) loss from partially owned entities |  | $(7,206)$ |  | 41,801 |  | $(8,757)$ |  | $(6,059)$ |  | $(5,578)$ |
| Loss from real estate fund investments |  | 190 |  | 6,308 |  | 28,976 |  | 37,973 |  | 1,649 |
| Interest and other investment income, net |  | $(2,893)$ |  | $(7,331)$ |  | $(30,892)$ |  | $(9,401)$ |  | $(22,567)$ |
| Net gains on disposition of wholly owned and partially owned assets |  | $(141,269)$ |  | - |  | $(23,559)$ |  | $(164,828)$ |  | (501) |
| (Income) loss from discontinued operations |  | (61) |  | 47,930 |  | (683) |  | (381) |  | 14,501 |
| NOI attributable to noncontrolling interests in consolidated subsidiaries |  | $(16,943)$ |  | $(16,171)$ |  | $(17,160)$ |  | $(51,415)$ |  | $(48,778)$ |
| Add: |  |  |  |  |  |  |  |  |  |  |
| Depreciation and amortization expense |  | 113,169 |  | 104,972 |  | 111,846 |  | 333,701 |  | 315,223 |
| General and administrative expense |  | 31,977 |  | 34,286 |  | 34,427 |  | 108,937 |  | 115,866 |
| Transaction related costs and other |  | 2,510 |  | 61 |  | 1,017 |  | 16,683 |  | 1,073 |
| NOI from partially owned entities |  | 60,094 |  | 66,876 |  | 65,752 |  | 193,359 |  | 199,989 |
| Interest and debt expense |  | 88,951 |  | 85,068 |  | 87,657 |  | 264,774 |  | 252,581 |
| Income tax expense |  | 1,943 |  | 1,188 |  | 467 |  | 4,964 |  | 3,491 |
| NOI at share |  | 349,624 |  | 354,234 |  | 354,429 |  | 1,053,089 |  | 1,037,526 |
| Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other |  | $(8,743)$ |  | $(22,307)$ |  | $(12,481)$ |  | $(39,172)$ |  | $(65,263)$ |
| NOI at share - cash basis | \$ | 340,881 | \$ | 331,927 | \$ | 341,948 | \$ | 1,013,917 | \$ | 972,263 |

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

COMPONENTS OF NET OPERATING INCOME AT SHARE AND NET OPERATING INCOME AT SHARE - CASH BASIS
(unaudited and in thousands)

For the Three Months Ended September 30,

## New York

Other
Consolidated total
Noncontrolling interests' share in consolidated subsidiaries
Our share of partially owned entities
Vornado's share

| Total Revenues |  |  | Operating Expenses |  |  |  | NOI |  |  |  | Non-cash Adjustments ${ }^{(1)}$ |  |  |  | NOI - cash basis |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2018 | 2017 |  | 2018 |  | 2017 |  | 2018 |  | 2017 |  | 2018 |  | 2017 |  | 2018 |  | 2017 |  |
| \$ 462,446 | \$ | 453,609 | \$ | 200,949 | \$ | 192,430 | \$ | 261,497 | \$ | 261,179 | \$ | $(8,937)$ | \$ | $(16,621)$ | \$ | 252,560 | \$ | 244,558 |
| 79,602 |  | 75,146 |  | 34,626 |  | 32,796 |  | 44,976 |  | 42,350 |  | 429 |  | $(1,360)$ |  | 45,405 |  | 40,990 |
| 542,048 |  | 528,755 |  | 235,575 |  | 225,226 |  | 306,473 |  | 303,529 |  | $(8,508)$ |  | $(17,981)$ |  | 297,965 |  | 285,548 |
| $(27,403)$ |  | $(26,300)$ |  | $(10,460)$ |  | $(10,129)$ |  | $(16,943)$ |  | $(16,171)$ |  | 112 |  | 416 |  | $(16,831)$ |  | $(15,755)$ |
| 97,960 |  | 110,300 |  | 37,866 |  | 43,424 |  | 60,094 |  | 66,876 |  | (347) |  | $(4,742)$ |  | 59,747 |  | 62,134 |
| \$ 612,605 | \$ | 612,755 | \$ | 262,981 | \$ | 258,521 | \$ | 349,624 | \$ | 354,234 | \$ | $(8,743)$ | \$ | $(22,307)$ | \$ | 340,881 | \$ | 331,927 |

For the Three Months Ended June 30, 2018

|  | Total Revenues |  | Operating Expenses |  | NOI |  | Non-cash Adjustments ${ }^{(1)}$ |  | NOI - cash basis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York | \$ | 458,552 | \$ | 200,903 | \$ | 257,649 | \$ | $(10,533)$ | \$ | 247,116 |
| Other |  | 83,266 |  | 35,078 |  | 48,188 |  | 487 |  | 48,675 |
| Consolidated total |  | 541,818 |  | 235,981 |  | 305,837 |  | $(10,046)$ |  | 295,791 |
| Noncontrolling interests' share in consolidated subsidiaries |  | $(27,093)$ |  | $(9,933)$ |  | $(17,160)$ |  | 150 |  | $(17,010)$ |
| Our share of partially owned entities |  | 112,196 |  | 46,444 |  | 65,752 |  | $(2,585)$ |  | 63,167 |
| Vornado's share | \$ | 626,921 | \$ | 272,492 | \$ | 354,429 | \$ | $(12,481)$ | \$ | 341,948 |

New York
Other
Consolidated total
Noncontrolling interests' share in consolidated subsidiaries

Our share of partially owned entities
Vornado's share

[^5]
## VORNADO <br> REALTYTRUS

## NON-GAAP RECONCILIATIONS

RECONCILIATION OF NOI AT SHARE TO SAME STORE NOI AT SHARE FOR THE THREE MONTHS ENDED SEPTEMBER 30, 2018 COMPARED TO SEPTEMBER 30,2017
(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 CaliforniaStreet |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share (non-GAAP) for the three months ended September 30, 2018 | \$ | 349,624 | \$ | 297,328 | \$ | 25,257 | \$ | 13,515 | \$ | 13,524 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (260) |  | (260) |  | - |  | - |  | - |
| Development properties |  | $(12,655)$ |  | $(12,641)$ |  | - |  | (14) |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | 1,581 |  | 1,800 |  | (219) |  | - |  | - |
| Other non-operating income, net |  | $(14,102)$ |  | (578) |  | - |  | - |  | $(13,524)$ |
| Same store NOI at share (non-GAAP) for the three months ended September 30, 2018 | \$ | 324,188 | \$ | 285,649 | \$ | 25,038 | \$ | 13,501 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share (non-GAAP) for the three months ended September 30, 2017 | \$ | 354,234 | \$ | 298,494 | \$ | 26,019 | \$ | 11,519 | \$ | 18,202 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Dispositions |  | (232) |  | (232) |  | - |  | - |  | - |
| Development properties |  | $(12,598)$ |  | $(12,598)$ |  | - |  | - |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | $(1,169)$ |  | $(1,169)$ |  | - |  | - |  | - |
| Other non-operating income, net |  | $(18,874)$ |  | (672) |  | - |  | - |  | $(18,202)$ |
| Same store NOI at share (non-GAAP) for the three months ended September 30, 2017 | \$ | 321,361 | \$ | 283,823 | \$ | 26,019 | \$ | 11,519 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| Increase (decrease) in same store NOI at share for the three months ended September 30, 2018 compared to September 30, 2017 | \$ | 2,827 | \$ | 1,826 | \$ | (981) | \$ | 1,982 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| \% increase (decrease) in same store NOI at share |  | 0.9\% |  | $0.6 \%{ }^{(1)}$ |  | $\xrightarrow{(3.8) \%}$ |  | 17.2\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share increased by $1.0 \%$.

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS


(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 California Street |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share (non-GAAP) for the nine months ended September 30, 2018 | \$ | 1,053,089 | \$ | 881,791 | \$ | 79,948 | \$ | 40,686 | \$ | 50,664 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | $(1,198)$ |  | $(1,049)$ |  | (149) |  | - |  | - |
| Dispositions |  | (370) |  | (370) |  | - |  | - |  | - |
| Development properties |  | $(25,854)$ |  | $(25,840)$ |  | - |  | (14) |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | 2,396 |  | 2,657 |  | (261) |  | - |  | - |
| Other non-operating income, net |  | $(52,319)$ |  | $(1,655)$ |  | - |  | - |  | $(50,664)$ |
| Same store NOI at share (non-GAAP) for the nine months ended September 30, 2018 | \$ | 975,744 | \$ | 855,534 | \$ | 79,538 | \$ | 40,672 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share (non-GAAP) for the nine months ended September 30, 2017 | \$ | 1,037,526 | \$ | 861,837 | \$ | 78,090 | \$ | 35,585 | \$ | 62,014 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | 36 |  | (164) |  | 200 |  | - |  | - |
| Dispositions |  | $(1,509)$ |  | $(1,509)$ |  | - |  | - |  | - |
| Development properties |  | $(24,518)$ |  | $(24,518)$ |  | - |  | - |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | $(1,993)$ |  | $(1,973)$ |  | (20) |  | - |  | - |
| Other non-operating income, net |  | $(64,715)$ |  | $(2,701)$ |  | - |  | - |  | $(62,014)$ |
| Same store NOI at share (non-GAAP) for the nine months ended September 30, 2017 | \$ | 944,827 | \$ | 830,972 | \$ | 78,270 | \$ | 35,585 | \$ | - |
| Increase in same store NOI at share for the nine months ended September 30, 2018 compared to September 30, 2017 | \$ | 30,917 | \$ | 24,562 | \$ | 1,268 | \$ | 5,087 | \$ | - |
| \% increase in same store NOI at share |  | 3.3\% |  | $3.0 \%{ }^{(1)}$ |  | 1.6\% |  | 14.3\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share increased by $3.1 \%$.

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS


(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 California Street |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share (non-GAAP) for the three months ended September 30, 2018 | \$ | 349,624 | \$ | 297,328 | \$ | 25,257 | \$ | 13,515 | \$ | 13,524 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (63) |  | (63) |  | - |  | - |  | - |
| Development properties |  | $(12,655)$ |  | $(12,641)$ |  | - |  | (14) |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | 1,582 |  | 1,800 |  | (218) |  | - |  | - |
| Other non-operating income, net |  | $(14,103)$ |  | (579) |  | - |  | - |  | $(13,524)$ |
| Same store NOI at share (non-GAAP) for the three months ended September 30, 2018 | \$ | 324,385 | \$ | 285,845 | \$ | 25,039 | \$ | 13,501 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share (non-GAAP) for the three months ended June 30, 2018 | \$ | 354,429 | \$ | 295,867 | \$ | 27,816 | \$ | 13,660 | \$ | 17,086 |
| Less NOI at share from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (3) |  | (3) |  | - |  | - |  | - |
| Dispositions |  | (309) |  | (309) |  | - |  | - |  | - |
| Development properties |  | $(12,795)$ |  | $(12,795)$ |  | - |  | - |  | - |
| Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net |  | 1,941 |  | 1,984 |  | (43) |  | - |  | - |
| Other non-operating income, net |  | $(17,583)$ |  | (497) |  | - |  | - |  | $(17,086)$ |
| Same store NOI at share (non-GAAP) for the three months ended June 30, 2018 | \$ | 325,680 | \$ | 284,247 | \$ | 27,773 | \$ | 13,660 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| (Decrease) increase in same store NOI at share for the three months ended September 30, 2018 compared to June 30, 2018 | \$ | $(1,295)$ | \$ | 1,598 | \$ | $(2,734)$ | \$ | (159) | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| \% (decrease) increase in same store NOI at share |  | (0.4)\% |  | 0.6\% ${ }^{(1)}$ |  | (9.8)\% ${ }^{(2)}$ |  | (1.2)\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share increased by $1.0 \%$.
(2) Excluding tradeshows which are seasonal, same store NOI at share decreased by $4.4 \%$.

## VORNADO <br> REALTYTRUS

## NON-GAAP RECONCILIATIONS

RECONCILIATION OF NOI AT SHARE - CASH BASIS TO SAME STORE NOI AT SHARE - CASH BASIS FOR THE THREE MONTHS ENDED SEPTEMBER 30,2018
COMPARED TO SEPTEMBER 30, 2017
(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 California |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2018 | \$ | 340,881 | \$ | 288,203 | \$ | 26,234 | \$ | 13,070 | \$ | 13,374 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (259) |  | (259) |  | - |  | - |  | - |
| Development properties |  | $(13,433)$ |  | $(13,419)$ |  | - |  | (14) |  | - |
| Lease termination income |  | (318) |  | (58) |  | (260) |  | - |  | - |
| Other non-operating income, net |  | $(13,954)$ |  | (580) |  | - |  | - |  | $(13,374)$ |
| Same store NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2018 | \$ | 312,917 | \$ | 273,887 | \$ | 25,974 | \$ | 13,056 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2017 | \$ | 331,927 | \$ | 277,402 | \$ | 25,417 | \$ | 10,889 | \$ | 18,219 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Dispositions |  | (115) |  | (115) |  | - |  | - |  | - |
| Development properties |  | $(12,674)$ |  | $(12,674)$ |  | - |  | - |  | - |
| Lease termination income |  | (285) |  | (285) |  | - |  | - |  | - |
| Other non-operating income, net |  | $(18,936)$ |  | (717) |  | - |  | - |  | $(18,219)$ |
| Same store NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2017 | \$ | 299,917 | \$ | 263,611 | \$ | 25,417 | \$ | 10,889 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| Increase in same store NOI at share - cash basis for the three months ended September 30, 2018 compared to September 30, 2017 | \$ | 13,000 | \$ | 10,276 | \$ | 557 | \$ | 2,167 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| \% increase in same store NOI at share - cash basis |  | 4.3\% |  | 3.9\% ${ }^{(1)}$ |  | 2.2\% |  | 19.9\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share - cash basis increased by $4.3 \%$.

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

 TO SEPTEMBER 30, 2017
(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 CaliforniaStreet |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share - cash basis (non-GAAP) for the nine months ended September 30, 2018 | \$ | 1,013,917 | \$ | 842,630 | \$ | 81,312 | \$ | 39,704 | \$ | 50,271 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (899) |  | (750) |  | (149) |  | - |  | - |
| Dispositions |  | (306) |  | (306) |  | - |  | - |  | - |
| Development properties |  | $(27,636)$ |  | $(27,622)$ |  | - |  | (14) |  | - |
| Lease termination income |  | $(1,541)$ |  | $(1,119)$ |  | (422) |  | - |  | - |
| Other non-operating income, net |  | $(51,925)$ |  | $(1,654)$ |  | - |  | - |  | $(50,271)$ |
| Same store NOI at share - cash basis (non-GAAP) for the nine months ended September 30, 2018 | \$ | 931,610 | \$ | 811,179 | \$ | 80,741 | \$ | 39,690 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share - cash basis (non-GAAP) for the nine months ended September 30, 2017 | \$ | 972,263 | \$ | 804,076 | \$ | 74,846 | \$ | 33,365 | \$ | 59,976 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | 137 |  | (63) |  | 200 |  | - |  | - |
| Dispositions |  | $(1,154)$ |  | $(1,154)$ |  | - |  | - |  | - |
| Development properties |  | $(24,534)$ |  | $(24,534)$ |  | - |  | - |  | - |
| Lease termination income |  | $(3,564)$ |  | $(3,533)$ |  | (31) |  | - |  | - |
| Other non-operating income, net |  | $(63,394)$ |  | $(3,418)$ |  | - |  | - |  | $(59,976)$ |
| Same store NOI at share - cash basis (non-GAAP) for the nine months ended September 30, 2017 | \$ | 879,754 | \$ | 771,374 | \$ | 75,015 | \$ | 33,365 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| Increase in same store NOI at share - cash basis for the nine months ended September 30, 2018 compared to September 30, 2017 | \$ | 51,856 | \$ | 39,805 | \$ | 5,726 | \$ | 6,325 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| \% increase in same store NOI at share - cash basis |  | 5.9\% |  | 5.2\% ${ }^{(1)}$ |  | 7.6\% |  | 19.0\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share - cash basis increased by $5.3 \%$.

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS

RECONCILIATION OF NOI AT SHARE - CASH BASIS TO SAME STORE NOI AT SHARE - CASH BASIS FOR THE THREE MONTHS ENDED SEPTEMBER 30,2018
COMPARED TO JUNE 30, 2018
(unaudited and in thousands)

|  | Total |  | New York |  | theMART |  | 555 California Street |  | Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2018 | \$ | 340,881 | \$ | 288,203 | \$ | 26,234 | \$ | 13,070 | \$ | 13,374 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (63) |  | (63) |  | - |  | - |  | - |
| Development properties |  | $(13,433)$ |  | $(13,419)$ |  | - |  | (14) |  | - |
| Lease termination income |  | (318) |  | (58) |  | (260) |  | - |  | - |
| Other non-operating income, net |  | $(13,953)$ |  | (579) |  | - |  | - |  | $(13,374)$ |
| Same store NOI at share - cash basis (non-GAAP) for the three months ended September 30, 2018 | \$ | 313,114 | \$ | 274,084 | \$ | 25,974 | \$ | 13,056 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| NOI at share - cash basis (non-GAAP) for the three months ended June 30, 2018 | \$ | 341,948 | \$ | 283,154 | \$ | 27,999 | \$ | 13,808 | \$ | 16,987 |
| Less NOI at share - cash basis from: |  |  |  |  |  |  |  |  |  |  |
| Acquisitions |  | (3) |  | (3) |  | - |  | - |  | - |
| Dispositions |  | (241) |  | (241) |  | - |  | - |  | - |
| Development properties |  | $(13,688)$ |  | $(13,688)$ |  | - |  | - |  | - |
| Lease termination income |  | $(162)$ |  | - |  | (162) |  | - |  | - |
| Other non-operating income, net |  | $(17,481)$ |  | (494) |  | - |  | - |  | $(16,987)$ |
| Same store NOI at share - cash basis (non-GAAP) for the three months ended June 30, 2018 | \$ | 310,373 | \$ | 268,728 | \$ | 27,837 | \$ | 13,808 | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| Increase (decrease) in same store NOI at share - cash basis for the three months ended September 30, 2018 compared to June 30, 2018 | \$ | 2,741 | \$ | 5,356 | \$ | $(1,863)$ | \$ | (752) | \$ | - |
|  |  |  |  |  |  |  |  |  |  |  |
| \% increase (decrease) in same store NOI at share - cash basis |  | 0.9\% |  | 2.0\% ${ }^{(1)}$ |  | $(6.7) \%{ }^{(2)}$ |  | (5.4)\% |  | -\% |

(1) Excluding Hotel Pennsylvania, same store NOI at share - cash basis increased by $2.5 \%$.
(2) Excluding tradeshows which are seasonal, same store NOI at share - cash basis decreased by $0.3 \%$.

## VORNADO

REALTY TRUST

## NON-GAAP RECONCILIATIONS <br> RECONCILIATION OF CONSOLIDATED REVENUES TO OUR PRO RATA SHARE OF REVENUES (ANNUALIZED)

(unaudited and in thousands)

|  | For the <br> Three Months Ended September 30, 2018 |  |
| :---: | :---: | :---: |
| Consolidated revenues | \$ | 542,048 |
| Noncontrolling interest adjustments |  | $(27,403)$ |
| Consolidated revenues at our share (non-GAAP) |  | 514,645 |
| Unconsolidated revenues at our share |  | 97,960 |
| Our pro rata share of revenues (non-GAAP) | \$ | 612,605 |
| Our pro rata share of revenues (annualized) (non-GAAP) | \$ | 2,450,420 |

RECONCILIATION OF CONSOLIDATED DEBT, NET TO CONTRACTUAL DEBT (NON-GAAP)
(unaudited and in thousands)

|  | As of September 30, 2018 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Consolidated Debt, net |  | Deferred Financing Costs, Net and Other |  | Contractual Debt (non-GAAP) |  |
| Mortgages payable | \$ | 8,119,075 | \$ | 53,045 | \$ | 8,172,120 |
| Senior unsecured notes |  | 843,710 |  | 6,290 |  | 850,000 |
| \$750 Million unsecured term loan |  | 749,874 |  | 126 |  | 750,000 |
| \$2.5 Billion unsecured revolving credit facilities |  | 80,000 |  | - |  | 80,000 |
|  | \$ | 9,792,659 | \$ | 59,461 | \$ | 9,852,120 |

## VORNADO <br> \author{ REALTY TRUST 

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## NON-GAAP RECONCILIATIONS RECONCILIATION OF NET INCOME TO EBITDARe

(unaudited and in thousands)

EBITDAre (i.e., EBITDA for real estate companies) is a non-GAAP financial measure established by NAREIT, which may not be comparable to EBITDA reported by other REITs that do not compute EBITDA in accordance with the NAREIT definition. The White Paper on EBITDAre approved by the Board of Governors of NAREIT in September 2017 defines EBITDAre as GAAP net income (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.

|  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 30, |  |  |  | $\begin{aligned} & \text { June } 30, \\ & 2018, \end{aligned}$ |  |  |  |  |  |
|  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| Reconciliation of net income (loss) to EBITDAre (non-GAAP): |  |  |  |  |  |  |  |  |  |  |
| Net income (loss) | \$ | 219,162 | \$ | $(10,754)$ | \$ | 105,338 | \$ | 324,782 | \$ | 210,577 |
| Less net income (loss) attributable to noncontrolling interests in consolidated subsidiaries |  | $(3,312)$ |  | $(4,022)$ |  | 26,175 |  | 31,137 |  | $(18,436)$ |
| Net income (loss) attributable to the Operating Partnership |  | 215,850 |  | $(14,776)$ |  | 131,513 |  | 355,919 |  | 192,141 |
| EBITDAre adjustments at share: |  |  |  |  |  |  |  |  |  |  |
| Depreciation and amortization (includes $\$ 6,272$ and $\$ 75,413$ of discontinued operations for the three months and nine months ended September 30, 2017, respectively) |  | 130,166 |  | 136,622 |  | 130,551 |  | 390,921 |  | 476,406 |
| Interest and debt expense (includes $\$ 2,804$ and $\$ 29,552$ of discontinued operations for the three months and nine months ended September 30, 2017, respectively) |  | 112,917 |  | 113,437 |  | 112,874 |  | 342,023 |  | 348,350 |
| Income tax expense (includes $\$ 12$ and $\$ 732$ of discontinued operations for the three months and nine months ended September 30, 2017, respectively) |  | 2,072 |  | 1,462 |  | 573 |  | 5,206 |  | 5,242 |
| Net gains on sale of depreciable real estate |  | $(137,382)$ |  | $(1,522)$ |  | $(24,449)$ |  | $(162,136)$ |  | $(20,981)$ |
| Real estate impairment losses |  | - |  | 4,329 |  | - |  | 4 |  | 7,547 |
| EBITDAre at share (non-GAAP) |  | 323,623 |  | 239,552 |  | 351,062 |  | 931,937 |  | 1,008,705 |
| EBITDAre attributable to noncontrolling interests in consolidated subsidiaries |  | 16,192 |  | 16,562 |  | $(13,431)$ |  | 7,075 |  | 55,322 |
| EBITDAre (non-GAAP) | \$ | 339,815 | \$ | 256,114 | \$ | 337,631 | \$ | 939,012 | \$ | 1,064,027 |

## VORNADO <br> REALTY TRUST

## NON-GAAP RECONCILIATIONS <br> RECONCILIATION OF EBITDAR TO EBITDAre, AS ADJUSTED

|  | For the Three Months Ended |  |  |  |  |  | For the Nine Months Ended September 30, |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 30, |  |  |  | $\begin{gathered} \text { June } 30, \\ 2018 \end{gathered}$ |  |  |  |  |  |
|  | 2018 |  | 2017 |  |  |  | 2018 |  | 2017 |  |
| EBITDAre (non-GAAP) | \$ | 339,815 | \$ | 256,114 | \$ | 337,631 | \$ | 939,012 | \$ | 1,064,027 |
|  |  |  |  |  |  |  |  |  |  |  |
| EBITDAre attributable to noncontrolling interests in consolidated subsidiaries | \$ | $(16,192)$ | \$ | $(16,562)$ | \$ | 13,431 | \$ | $(7,075)$ | \$ | $(55,322)$ |

Certain expense (income) items that impact EBITDAre:

| Decrease (increase) in fair value of marketable securities (including our share of partially owned entities) |  | 7,966 |  | - |  | $(16,024)$ |  | 26,602 |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net gain on the repayment of our loan investment in the 666 Fifth Avenue Office Condominium |  | $(7,308)$ |  | - |  | - |  | $(7,308)$ |  | - |
| EBITDAre from discontinued operations and sold properties (primarily related to JBG SMITH Properties operating results and transaction costs through July 17, 2017 spin-off) |  | $(2,282)$ |  | 33,014 |  | $(7,082)$ |  | $(15,740)$ |  | $(109,580)$ |
| Our share of EBITDAre from real estate fund investments (excluding our $\$ 4,252$ share of One Park Avenue potential additional transfer taxes and reduction in carried interest for the nine months ended September 30, 2018) |  | 748 |  | 7,794 |  | (551) |  | (617) |  | 11,333 |
| Impairment loss on investment in PREIT |  | - |  | 44,465 |  | - |  | - |  | 44,465 |
| Net gain resulting from Urban Edge Properties ("UE") operating partnership unit issuances |  | - |  | $(5,200)$ |  | - |  | - |  | $(21,100)$ |
| Our share of potential additional New York City transfer taxes based on a Tax Tribunal interpretation which Vornado is appealing |  | - |  | - |  | - |  | 23,503 |  | - |
| Net gain on repayment of our Suffolk Downs JV debt investments |  | - |  | - |  | - |  | - |  | $(11,373)$ |
| Other |  | 2,233 |  | 665 |  | $(4,449)$ |  | (935) |  | 558 |
| Total of certain expense (income) items that impact EBITDAre |  | 1,357 |  | 80,738 |  | $(28,106)$ |  | 25,505 |  | $(85,697)$ |
| EBITDAre, as adjusted (non-GAAP) | \$ | 324,980 | \$ | 320,290 | \$ | 322,956 | \$ | 957,442 | \$ | 923,008 |



## VORNADO

REALTY T RUS T

SUPPLEMENTAL OPERATING AND FINANCIAL DATA
For the Quarter ended September 30, 2018


[^0]:    (1) Excludes storage, vacancy and other

[^1]:    (1) Excludes storage, vacancy and other

[^2]:    REALTY TRUST

[^3]:    * Lease not yet commenced.
    (1) Weighted average annual rent per square foot for office properties excludes garages and de minimis amounts of storage space. Weighted average annual rent per square foot for retail excludes non-selling space.
    (2) Represents the contractual debt obligations.
    (3) Amount represents debt on land which is owned $34.8 \%$ by Vornado
    (4) Excludes US Post Office leased through 2038 (including four five-year renewal options) for which the annual escalated rent is $\$ 13.31$ PSF
    (5) 75,000 square feet is leased from 666 Fifth Avenue Office Condominium.
    (6) On April 4, 2017, Sears closed its 195,000 square foot store. On October 15, 2018, Sears filed for Chapter 11 bankruptcy relief and announced its intention to reject this lease.

[^4]:    * Lease not yet commenced.
    (1) Weighted average annual rent per square foot excludes ground rent, storage rent and garages.
    (2) Represents the contractual debt obligations.

[^5]:    (1) Includes adjustments for straight-line rents, amortization of acquired below-market leases, net and other.

