









# VORNADO

REALTY TRUST

SUPPLEMENTAL OPERATING AND FINANCIAL DATA For the Quarter and Year Ended December 31, 2018



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Certain statements contained herein constitute forward-looking statements as such term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements are not guarantees of performance. They represent our intentions, plans, expectations and beliefs and are subject to numerous assumptions, risks and uncertainties. Our future results, financial condition and business may differ materially from those expressed in these forward-looking statements. You can find many of these statements by looking for words such as "approximates," "believes," "expects," "anticipates," "estimated," "plans," "would," "may" or other similar expressions in this supplemental package. We also note the following forward-looking statements: in the case of our development projects, the estimated completion date, estimated project cost and cost to complete; and estimates of future capital expenditures, dividends to common and preferred shareholders and operating partnership distributions. Many of the factors that will determine the outcome of these and our other forward-looking statements are beyond our ability to control or predict. For further discussion of factors that could materially affect the outcome of our forward-looking statements, see "Item 1A. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2018. For these statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. You are cautioned not to place undue reliance on our forward-looking statements, which speak only as of the date of this supplemental package. All subsequent written and oral forward-looking statements attributable to us or any person acting our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. We do not undertake any obligation to release publicly any revisions to our forward-look



### **BUSINESS DEVELOPMENTS**

### **Acquisition Activity**

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.

### Farley Office and Retail Building

On October 30, 2018, we increased our ownership interest in the joint venture that is developing the Farley Office and Retail Building to 95.0% from 50.1% by acquiring a 44.9% additional ownership interest from the Related Companies ("Related"). The purchase price was \$41,500,000 plus the reimbursement of \$33,026,000 of costs funded by Related through October 30, 2018. We consolidate the accounts of the joint venture as of October 30, 2018. In connection therewith, we recorded a net gain of \$44,060,000, which is included in "purchase price fair value adjustment" on our consolidated statements of income. As a result of this gain, because we hold our investment in the joint venture through a taxable REIT subsidiary, \$16,771,000 of income tax expense was recognized on our consolidated statements of income.



### **BUSINESS DEVELOPMENTS**

### **Disposition Activity**

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.

#### 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. The gain for tax purposes was approximately \$254,000,000. 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.

### **Financing Activity**

On January 4 and 11, 2018, we redeemed all of the outstanding 6.625% Series G and Series I cumulative redeemable preferred shares/units at their redemption price of \$25.00 per share/unit, or \$470,000,000 in the aggregate, plus accrued and unpaid dividends/distributions 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 3.53% (6.00% at December 31, 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.



### **BUSINESS DEVELOPMENTS**

### **Financing Activity - continued**

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% (3.75% as of December 31, 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% (3.52% as of December 31, 2018). In connection with the extension of our unsecured term loan, we entered into an interest rate swap from LIBOR plus 1.00% to a fixed rate of 3.87% through October 2023.

On November 16, 2018, we completed a \$205,000,000 refinancing of 150 West 34th Street, a 78,000 square foot Manhattan retail property. The interest-only loan carries a rate of LIBOR plus 1.88% (4.26% as of December 31, 2018) and matures in 2024, as extended. Concurrently, we invested \$105,000,000 in a participation in the refinanced mortgage loan, which earns interest at a rate of LIBOR plus 2.00% (4.38% as of December 31, 2018) and also matures in 2024, as extended, and is included in "other assets" on our consolidated balance sheets. The property was previously encumbered by a mortgage of the same amount at LIBOR plus 2.25%, which was scheduled to mature in 2020.

### **Other Activity**

220 Central Park South ("220 CPS")

During the fourth quarter of 2018, we completed the sale of 11 condominium units at 220 CPS for net proceeds aggregating \$214,776,000 and resulting in a financial statement net gain of \$81,224,000 which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income. In connection with these sales, \$13,888,000 of income tax expense was recognized in our consolidated statements of income and \$213,000,000 of the \$950,000,000 220 CPS loan was repaid.

#### **Fourth Quarter Leasing Activity**

479,000 square feet of New York Office space (415,000 square feet at share) at an initial rent of \$72.97 per square foot and a weighted average term of 7.7 years. The GAAP and cash mark-to-market rent on the 357,000 square feet of second generation space were positive 6.9% and 1.2%, respectively. Tenant improvements and leasing commissions were \$10.22 per square foot per annum, or 14.0% of initial rent.

26,000 square feet of New York Retail space (17,000 square feet at share) at an initial rent of \$211.34 per square foot and a weighted average term of 8.2 years. The GAAP and cash mark-to-market rent on the 7,000 square feet of second generation space were positive 3.0% and 1.1%, respectively. Tenant improvements and leasing commissions were \$17.62 per square foot per annum, or 8.3% of initial rent.

46,000 square feet at theMART (all at share) at an initial rent of \$60.73 per square foot and a weighted average term of 5.6 years. The GAAP and cash mark-to-market rent on the 46,000 square feet of second generation space were positive 8.7% and 3.2%, respectively. Tenant improvements and leasing commissions were \$1.61 per square foot per annum, or 2.7% of initial rent.



## FINANCIAL HIGHLIGHTS

(unaudited and in thousands, except per share amounts)

	For the Three Months Ended							For the Year Ended				
		December 31,			. Sei	otember 30,			December 31,			
2018		2017	901	2018		2018		2017				
Total revenues	\$	543,417	\$	536,226	\$	542,048	\$	2,163,720	\$	2,084,126		
Net income attributable to common shareholders	\$	100,494	\$	27,319	\$	190,645	\$	384,832	\$	162,017		
Per common share:												
Basic	\$	0.53	\$	0.14	\$	1.00	\$	2.02	\$	0.85		
Diluted	\$	0.53	\$	0.14	\$	1.00	\$	2.01	\$	0.85		
let income attributable to common shareholders, as adjusted (non-GAAP)	\$	50,990	\$	65,790	\$	66,160	\$	243,894	\$	252,864		
Per diluted share (non-GAAP)	\$	0.27	\$	0.34	\$	0.35	\$	1.27	\$	1.32		
FO attributable to common shareholders plus assumed conversions, as adjusted (non-GAAP)	\$	171,427	\$	187,125	\$	185,635	\$	718,760	\$	713,023		
Per diluted share (non-GAAP)	\$	0.90	\$	0.98	\$	0.97	\$	3.76	\$	3.73		
FO attributable to common shareholders plus assumed conversions (non-GAAP)	\$	210,100	\$	153,151	\$	189,987	\$	729,740	\$	717,805		
FO - Operating Partnership Basis ("OP Basis") (non-GAAP)	\$	223,583	\$	162,990	\$	202,168	\$	776,393	\$	762,989		
Per diluted share (non-GAAP)	\$	1.10	\$	0.80	\$	0.99	\$	3.82	\$	3.75		
vividends per common share	\$	0.63	\$	0.60	\$	0.63	\$	2.52	\$	2.62		
FO payout ratio (based on FFO attributable to common shareholders plus assumed conversions, as adjusted)		70.0%		61.2%		64.9%		67.0%		70.2%		
AD payout ratio		100.0%		89.6%		80.8%				88.8%		
Veighted average shares used in determining FFO attributable to common shareholders plus assumed conversions per diluted share (REIT basis)		191,199		191,063		191,327		191,189		191,304		
Convertible units:												
Class A		11,827		11,677		11,858		11,849		11,688		
Equity awards - unit equivalents		443		598		409		374		354		
Veighted average shares used in determining FFO attributable to Class A unitholders plus assumed conversions per diluted share (OP Basis)		203,469		203,338		203,594		203,412		203,346		

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



## CONSOLIDATED NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS

(unaudited and in thousands)	For the Three Months Ended										
				December 31,				September 30,			
		2018		2017		Inc (Dec)		2018			
Property rentals	\$	433,521	\$	419,970	\$	13,551	\$	427,030			
Straight-lining of rents		(2,674)		8,040		(10,714)		157			
Amortization of acquired below-market leases, net		7,093		11,345		(4,252)		10,373			
Total property rentals		437,940		439,355		(1,415)		437,560			
Tenant expense reimbursements		62,119		59,333		2,786		66,387			
Fee and other income:		•		,		,		•			
BMS cleaning fees		32,262		28,218		4,044		28,873			
Management and leasing fees		3,119		2.705		414		4,734			
Lease termination fees		639		2,224		(1,585)		356			
Other income		7,338		4,391		2,947		4,138			
Total revenues		543,417		536,226		7,191		542,048			
Operating expenses	<u> </u>	254,320		225,011		29,309		235,575			
Depreciation and amortization		112,869		114,166		(1,297)		113,169			
General and administrative		32,934		34,916		(1,982)		31,977			
(Benefit) expense from deferred compensation plan liability		(6,014)		1,699		(7,713)		1,861			
Transaction related costs, impairment loss and other		14,637		703		13,934		2,510			
Total expenses		408,746		376,495		32,251		385,092			
Operating income		134,671		159,731		(25,060)		156,956			
Income from partially owned entities		3,090		9,622		(6,532)		7,206			
(Loss) income from real estate fund investments		(51,258)		4,889		(56,147)		(190)			
Interest and other investment income, net		7,656		8,294		(638)		2,893			
(Loss) income from deferred compensation plan assets		(6,014)		1,699		(7,713)		1,861			
Interest and debt expense		(83,175)		(93,073)		9,898		(88,951)			
Purchase price fair value adjustment		44,060		_		44,060		_			
Net gains on disposition of wholly owned and partially owned assets		81,203				81,203		141,269			
Income before income taxes		130,233		91,162		39,071		221,044			
Income tax expense		(32,669)		(38,884)		6,215		(1,943)			
Income from continuing operations		97,564		52,278		45,286		219,101			
Income from discontinued operations		257		1,273		(1,016)		61			
Net income		97,821		53,551		44,270		219,162			
Less net loss (income) attributable to noncontrolling interests in:											
Consolidated subsidiaries		21,886		(7,366)		29,252		(3,312)			
Operating Partnership		(6,680)		(1,853)		(4,827)		(12,671)			
Net income attributable to Vornado		113,027		44,332		68,695		203,179			
Preferred share dividends		(12,533)		(17,013)		4,480	_	(12,534)			
Net income attributable to common shareholders	<u>\$</u>	100,494	\$	27,319	\$	73,175	\$	190,645			
Capitalized expenditures:											
Leasing payroll <sup>(1)</sup>	\$	1,655	\$	1,749	\$	(94)	\$	1,444			
Development payroll	\$	4,124	\$	1,710	\$	2,414	\$	2,771			
Interest and debt expense	\$	23,448	\$	13,251	\$	10,197	\$	18,238			

<sup>(1)</sup> Beginning January 1, 2019, we no longer capitalize internal leasing costs in accordance with Accounting Standard Update 2016-02, Leases.



## CONSOLIDATED NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS

(unaddited and in thousands)		For the Year Ended December 31,										
	201	18		2017	Inc (Dec)							
Property rentals	\$	1,714,027	\$	1,629,753	\$	84,274						
Straight-lining of rents		7,605		39,096		(31,491						
Amortization of acquired below-market leases, net		38,573		46,103		(7,530						
Total property rentals		1,760,205		1,714,952		45,253						
Tenant expense reimbursements		247,128		233,424		13,704						
Fee and other income:												
BMS cleaning fees		120,357		104,143		16,214						
Management and leasing fees		13,324		10,087		3,237						
Lease termination fees		2,144		8,171		(6,027						
Other income		20,562		13,349	_	7,213						
Total revenues		2,163,720		2,084,126		79,594						
Operating expenses		963,478		886,596		76,882						
Depreciation and amortization		446,570		429,389		17,181						
General and administrative		141,871		150,782		(8,911)						
(Benefit) expense from deferred compensation plan liability		(2,480)		6,932		(9,412)						
Transaction related costs, impairment loss and other		31,320		1,776		29,544						
Total expenses		1,580,759		1,475,475		105,284						
Operating income		582,961		608,651		(25,690)						
Income from partially owned entities		9,149		15,200		(6,051)						
(Loss) income from real estate fund investments		(89,231)		3,240		(92,471)						
Interest and other investment income, net		17,057		30,861		(13,804)						
(Loss) income from deferred compensation plan assets		(2,480)		6,932		(9,412)						
Interest and debt expense		(347,949)		(345,654)		(2,295)						
Purchase price fair value adjustment		44,060		_		44,060						
Net gains on disposition of wholly owned and partially owned assets		246,031		501		245,530						
Income before income taxes		459,598		319,731		139,867						
Income tax expense		(37,633)		(42,375)		4,742						
Income from continuing operations		421,965		277,356		144,609						
Income (loss) from discontinued operations		638		(13,228)	_	13,866						
Net income		422,603		264,128		158,475						
Less net loss (income) attributable to noncontrolling interests in:												
Consolidated subsidiaries		53,023		(25,802)		78,825						
Operating Partnership		(25,672)		(10,910)		(14,762)						
Net income attributable to Vornado		449,954		227,416		222,538						
Preferred share dividends		(50,636)		(65,399)		14,763						
Preferred share issuance costs		(14,486)				(14,486						
Net income attributable to common shareholders	<u>\$</u>	384,832	\$	162,017	\$	222,815						
Capitalized expenditures:												
Leasing payroll <sup>(1)</sup>	\$	5,538	\$	5,243	\$	295						
Development payroll	\$	12,120	\$	6,044	\$	6,076						
Interest and debt expense	\$	73,166	\$	48,230	\$	24,936						

<sup>(1)</sup> Beginning January 1, 2019, we no longer capitalize internal leasing costs in accordance with Accounting Standard Update 2016-02, Leases.



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

	For	For the Three Months Ended December 31, 2018						
	Total		New York		Other			
Property rentals	\$ 433,	521 \$	364,886	\$	68,635			
Straight-lining of rents	(2,	674)	(1,860)		(814)			
Amortization of acquired below-market leases, net	7,	093	7,016		77			
Total property rentals	437,	940	370,042		67,898			
Tenant expense reimbursements	62,	119	54,098		8,021			
Fee and other income:								
BMS cleaning fees	32,	262	34,200		(1,938)			
Management and leasing fees	3,	119	2,819		300			
Lease termination fees		339	92		547			
Other income	7,	338	5,303		2,035			
Total revenues	543,	417	466,554		76,863			
Operating expenses	254,	320	206,696		47,624			
Depreciation and amortization	112,	369	91,602		21,267			
General and administrative	32,	934	9,817		23,117			
Benefit from deferred compensation plan liability	(6,	014)	_		(6,014)			
Transaction related costs, impairment loss and other	14,	337	12,000		2,637			
Total expenses	408,	746	320,115		88,631			
Operating income (loss)	134,	371	146,439		(11,768)			
Income from partially owned entities	3,	090	962		2,128			
Loss from real estate fund investments	(51,	258)	_		(51,258)			
Interest and other investment income, net	7,	356	1,689		5,967			
Loss from deferred compensation plan assets	(6,	014)	_		(6,014)			
Interest and debt expense	(83,	175)	(56,652)		(26,523)			
Purchase price fair value adjustment	44,	060	44,060		_			
Net gains (losses) on disposition of wholly owned and partially owned assets	81,	203	(4)		81,207			
Income (loss) before income taxes	130,	233	136,494		(6,261)			
Income tax expense	(32,	<u> </u>	(1,250)		(31,419)			
Income (loss) from continuing operations	97,	564	135,244		(37,680)			
Income from discontinued operations		257			257			
Net income (loss)	97,	321	135,244		(37,423)			
Less net loss (income) attributable to noncontrolling interests in:								
Consolidated subsidiaries	21,	386	(3,680)		25,566			
Operating Partnership	(6,	<u> </u>			(6,680)			
Net income (loss) attributable to Vornado	113,		131,564		(18,537)			
Preferred share dividends	(12,	533)	_		(12,533)			
Net income (loss) attributable to common shareholders for the three months ended December 31, 2018	\$ 100,	494 \$	131,564	\$	(31,070)			
Net income (loss) attributable to common shareholders for the three months ended December 31, 2017	\$ 27,	319 \$	109,176	\$	(81,857)			



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

	For the Year Ended December 31, 2018						
	Total	New York	Other				
Property rentals	\$ 1,714,027	\$ 1,421,587	\$ 292,440				
Straight-lining of rents	7,605	6,394	1,211				
Amortization of acquired below-market leases, net	38,573	37,600	973				
Total property rentals	1,760,205	1,465,581	294,624				
Tenant expense reimbursements	247,128	218,395	28,733				
Fee and other income:							
BMS cleaning fees	120,357	129,088	(8,731)				
Management and leasing fees	13,324	12,203	1,121				
Lease termination fees	2,144	858	1,286				
Other income	20,562	9,911	10,651				
Total revenues	2,163,720	1,836,036	327,684				
Operating expenses	963,478	806,464	157,014				
Depreciation and amortization	446,570	359,319	87,251				
General and administrative	141,871	40,292	101,579				
Benefit from deferred compensation plan liability	(2,480)	_	(2,480)				
Transaction related costs, impairment loss and other	31,320	25,103	6,217				
Total expenses	1,580,759	1,231,178	349,581				
Operating income (loss)	582,961	604,858	(21,897)				
Income from partially owned entities	9,149	6,144	3,005				
Loss from real estate fund investments	(89,231)	_	(89,231)				
Interest and other investment income, net	17,057	6,300	10,757				
Loss from deferred compensation plan assets	(2,480)	_	(2,480)				
Interest and debt expense	(347,949)	(243,322)	(104,627)				
Purchase price fair value adjustment	44,060	44,060	<del>-</del>				
Net gains on disposition of wholly owned and partially owned assets	246,031	23,484	222,547				
Income before income taxes	459,598	441,524	18,074				
Income tax expense	(37,633)	(5,261)	(32,372)				
Income (loss) from continuing operations	421,965	436,263	(14,298)				
Income from discontinued operations	638	<u></u> _	638				
Net income (loss)	422,603	436,263	(13,660)				
Less net loss (income) attributable to noncontrolling interests in:							
Consolidated subsidiaries	53,023	(4,319)	57,342				
Operating Partnership	(25,672)		(25,672)				
Net income attributable to Vornado	449,954	431,944	18,010				
Preferred share dividends	(50,636)	_	(50,636)				
Preferred share issuance costs	(14,486)	<u> </u>	(14,486)				
Net income (loss) attributable to common shareholders for the year ended December 31, 2018	\$ 384,832	\$ 431,944	\$ (47,112)				
Net income (loss) attributable to common shareholders for the year ended December 31, 2017	\$ 162,017	\$ 417,840	\$ (255,823)				



## NET OPERATING INCOME AT SHARE BY SEGMENT

(unaudited and in thousands)

	 For the T	hree M	lonths Ended December	31, 20	18
	Total		New York		Other
Total revenues	\$ 543,417	\$	466,554	\$	76,863
Operating expenses	 254,320		206,696		47,624
NOI - consolidated	 289,097		259,858		29,239
Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries	(19,771)		(13,837)		(5,934)
Add: Our share of NOI from partially owned entities	 60,205		49,178		11,027
NOI at share	329,531		295,199		34,332
Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other	(5,532)		(6,266)		734
NOI at share - cash basis	\$ 323,999	\$	288,933	\$	35,066

	For the Three Months Ended December 31, 2017									
		Total		New York		Other				
Total revenues	\$	536,226	\$	462,597	\$	73,629				
Operating expenses		225,011		195,421		29,590				
NOI - consolidated		311,215		267,176		44,039				
Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries		(16,533)		(11,648)		(4,885)				
Add: Our share of NOI from partially owned entities		69,175		48,700		20,475				
NOI at share		363,857		304,228		59,629				
Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other		(21,579)		(21,441)		(138)				
NOI at share - cash basis	\$	342,278	\$	282,787	\$	59,491				

	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				

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



## NET OPERATING INCOME AT SHARE BY SEGMENT

(unaudited and in thousands)

		Fort	he Ye	ear Ended December 31, 2	2018	
	Total			New York		Other
Total revenues	\$	2,163,720	\$	1,836,036	\$	327,684
Operating expenses		963,478		806,464		157,014
NOI - consolidated		1,200,242		1,029,572		170,670
Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries		(71,186)		(48,490)		(22,696)
Add: Our share of NOI from partially owned entities		253,564		195,908		57,656
NOI at share	'	1,382,620	,	1,176,990		205,630
Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other		(44,704)		(45,427)		723
NOI at share - cash basis	\$	1,337,916	\$	1,131,563	\$	206,353

		For t	he Yea	ar Ended December 31,	2017	
	Total			New York		Other
Total revenues	\$	2,084,126	\$	1,779,307	\$	304,819
Operating expenses		886,596		756,670		129,926
NOI - consolidated		1,197,530		1,022,637		174,893
Deduct: NOI attributable to noncontrolling interests in consolidated subsidiaries		(65,311)		(45,899)		(19,412)
Add: Our share of NOI from partially owned entities		269,164		189,327		79,837
NOI at share		1,401,383		1,166,065		235,318
Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other		(86,842)		(79,202)		(7,640)
NOI at share - cash basis	\$	1,314,541	\$	1,086,863	\$	227,678

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



## NET OPERATING INCOME AT SHARE BY SUBSEGMENT

		For	the 1	Three Months En	For the Year Ended					
	December 31,		September 30,	Decembe						
		2018	2017		2018		2018		2017	
	\$	186,832	\$	189,481	\$ 184,146	\$	743,001	\$	721,183	
		85,549		90,853	92,858		353,425		359,944	
		5,834		5,920	5,202		23,515		24,370	
		11,023		11,656	10,626		45,133		47,302	
		5,961		6,318	4,496		11,916		13,266	
		295,199	_	304,228	297,328		1,176,990		1,166,065	
		10,981		24,249	25,257		90,929		102,339	
		14,005		12,003	13,515		54,691		47,588	
		9,346		23,377	13,524		60,010		85,391	
		34,332		59,629	52,296		205,630		235,318	
	\$	329,531	\$	363,857	\$ 349,624	\$	1,382,620	\$	1,401,383	
h basis:										
	\$	185,624	\$	175,787		\$	726,108	\$	678,839	
		80,515		83,320	84,976		324,219		324,318	
		5,656		5,325	5,358		22,076		21,626	
		11,129		12,004	11,774		47,040		48,683	
		6,009		6,351	4,520		12,120		13,397	
		288,933		282,787	288,203		1,131,563		1,086,863	
		12,758		24,396	26,234		94,070		99,242	
		13,784		11,916	13,070		53,488		45,281	
		8,524		23,179	13,374		58,795		83,155	
		35,066	_	59,491	52,678		206,353		227,678	
	\$	323,999	\$	342,278	\$ 340,881	\$	1,337,916	\$	1,314,541	



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

(unaudited)

	Total	New York <sup>(2)</sup>	theMART <sup>(3)</sup>	555 California Street
Same store NOI at share % (decrease) increase <sup>(1)</sup> :				
Three months ended December 31, 2018 compared to December 31, 2017	(6.3)%	(3.1)%	(56.6)%	16.8%
Year ended December 31, 2018 compared to December 31, 2017	0.8 %	1.4 %	(12.2)%	14.9%
Three months ended December 31, 2018 compared to September 30, 2018	(5.3)%	(1.1)%	(58.0)%	3.8%
Same store NOI at share - cash basis % (decrease) increase:				
Three months ended December 31, 2018 compared to December 31, 2017	(1.7)%	1.9 %	(49.8)%	15.8%
Year ended December 31, 2018 compared to December 31, 2017	3.9 %	4.3 %	(6.5)%	18.1%
Three months ended December 31, 2018 compared to September 30, 2018	(4.2)%	— %	(52.9)%	5.7%

(Decrease)

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

		Increase
(2)	Excluding Hotel Pennsylvania, same store NOI at share % (decrease) increase:	
	Three months ended December 31, 2018 compared to December 31, 2017	(3.0)%
	Year ended December 31, 2018 compared to December 31, 2017	1.5 %
	Three months ended December 31, 2018 compared to September 30, 2018	(1.7)%
	Excluding Hotel Pennsylvania, same store NOI at share - cash basis % increase (decrease):	
	Three months ended December 31, 2018 compared to December 31, 2017	2.1 %
	Year ended December 31, 2018 compared to December 31, 2017	4.5 %
	Three months ended December 31, 2018 compared to September 30, 2018	(0.6)%

<sup>(3)</sup> Includes additional real estate tax expense accruals of \$12,124,000 and \$15,148,000 for the three months and year ended December 31, 2018, respectively, due to an increase in the tax-assessed value of theMART.



## NOI AT SHARE BY REGION (unaudited)

	For the Three Months	Ended December 31,	For the Year Ended December 31,		
	2018	2017	2018	2017	
Region:					
New York City metropolitan area	92%	89%	89%	89%	
Chicago, IL	3%	7%	7%	8%	
San Francisco, CA	5%	4%	4%	3%	
	100%	100%	100%	100%	



## CONSOLIDATED BALANCE SHEETS (unaudited and in thousands)

(unaudited and in thousands)				
		As	of	Increase
	Decer	mber 31, 2018	December 31, 2017	 (Decrease)
ASSETS				
Real estate, at cost:				
Land	\$	3,306,280	\$ 3,143,648	\$ 162,632
Buildings and improvements		10,110,992	9,898,605	212,387
Development costs and construction in progress		2,266,491	1,615,101	651,390
Moynihan Train Hall development expenditures		445,693	_	445,693
Leasehold improvements and equipment		108,427	98,941	9,486
Total		16,237,883	14,756,295	1,481,588
Less accumulated depreciation and amortization		(3,180,175)	(2,885,283)	 (294,892)
Real estate, net	_	13,057,708	11,871,012	 1,186,696
Cash and cash equivalents		570,916	1,817,655	(1,246,739)
Restricted cash		145,989	97,157	48,832
Marketable securities		152,198	182,752	(30,554)
Tenant and other receivables, net		73,322	58,700	14,622
Investments in partially owned entities		858,113	1,056,829	(198,716)
Real estate fund investments		318,758	354,804	(36,046)
220 Central Park South condominium units ready for sale		99,627	_	99,627
Receivable arising from the straight-lining of rents, net		935,131	926,711	8,420
Deferred leasing costs, net		400,313	403,492	(3,179)
Identified intangible assets, net		136,781	159,260	(22,479)
Other assets		431,938	469,562	(37,624)
Total Assets	\$	17,180,794	\$ 17,397,934	\$ (217,140)
LIABILITIES, REDEEMABLE NONCONTROLLING INTERESTS AND EQUITY				
Liabilities:				
Mortgages payable, net	\$	8,167,798	\$ 8,137,139	\$ 30,659
Senior unsecured notes, net		844,002	843,614	388
Unsecured term loan, net		744,821	748,734	(3,913)
Unsecured revolving credit facilities		80,000	_	80,000
Moynihan Train Hall obligation		445,693	_	445,693
Accounts payable and accrued expenses		430,976	415,794	15,182
Deferred revenue		167,730	227,069	(59,339)
Deferred compensation plan		96,523	109,177	(12,654)
Preferred shares redeemed on January 4 and 11, 2018		_	455,514	(455,514)
Other liabilities		311,806	468,255	(156,449)
Total liabilities		11,289,349	11,405,296	(115,947)
Redeemable noncontrolling interests		783,562	984,937	(201,375)
Vornado shareholders' equity		4,465,231	4,337,652	127,579
Noncontrolling interests in consolidated subsidiaries		642,652	670,049	(27,397)
Total liabilities, redeemable noncontrolling interests and equity	\$	17,180,794	\$ 17,397,934	(217,140)



### **LEASING ACTIVITY**

(unaudited)

The leasing activity and related statistics in the table below are based on leases signed during the period and are not intended to coincide with the commencement of rental revenue in accordance with accounting principles generally accepted in the United States of America ("GAAP"). Second generation relet space represents square footage that has not been vacant for more than nine months and tenant improvements and leasing commissions are based on our share of square feet leased during the period.

(square feet in thousands)		New	York					
	_	Office		Retail		theMART	555 California Street	
Three Months Ended December 31, 2018	_				'			
Total square feet leased		479		26		46		_
Our share of square feet leased:		415		17		46		_
Initial rent <sup>(1)</sup>	:	\$ 72.97	\$	211.34	\$	60.73	\$	_
Weighted average lease term (years)		7.7		8.2		5.6		_
Second generation relet space:								
Square feet		357		7		46		_
GAAP basis:								
Straight-line rent <sup>(2)</sup>	:	\$ 67.56	\$	228.99	\$	61.28	\$	_
Prior straight-line rent	:	\$ 63.17	\$	222.39	\$	56.40	\$	_
Percentage increase		6.9%		3.0%		8.7%		—%
Cash basis (non-GAAP):								
Initial rent <sup>(1)</sup>	;	\$ 67.22	\$	219.50	\$	60.73	\$	_
Prior escalated rent	:	\$ 66.41	\$	217.08	\$	58.87	\$	_
Percentage increase		1.2%		1.1%		3.2%		—%
Tenant improvements and leasing commissions:								
Per square foot	;	\$ 78.71	\$	144.50	\$	9.03	\$	_
Per square foot per annum	:	\$ 10.22	\$	17.62	\$	1.61	\$	_
Percentage of initial rent		14.0%		8.3%		2.7%		—%

<sup>(1)</sup> Represents the cash basis weighted average starting rent per square foot, which is generally indicative of market rents. Most leases include free rent and periodic step-ups in rent which are not included in the initial cash basis rent per square foot but are included in the GAAP basis straight-line rent per square foot.

<sup>(2)</sup> Represents the GAAP basis weighted average rent per square foot that is recognized over the term of the respective leases, and includes the effect of free rent and periodic step-ups in rent.



## **LEASING ACTIVITY**

(unaudited)

The leasing activity and related statistics in the table below are based on leases signed during the period and are not intended to coincide with the commencement of rental revenue in accordance with GAAP. Second generation relet space represents square footage that has not been vacant for more than nine months and tenant improvements and leasing commissions are based on our share of square feet leased during the period.

(square feet in thousands)	New York						
	 Office		Retail		theMART	55	5 California Street
Year Ended December 31, 2018				'			
Total square feet leased	1,827		255		243		249
Our share of square feet leased:	1,627		236		243		174
Initial rent <sup>(1)</sup>	\$ 79.03	\$	171.25	\$	53.47	\$	89.28
Weighted average lease term (years)	9.6		5.5		5.8		10.3
Second generation relet space:							
Square feet	1,347		216		232		62
GAAP basis:							
Straight-line rent <sup>(2)</sup>	\$ 81.57	\$	180.01	\$	54.11	\$	104.06
Prior straight-line rent	\$ 60.99	\$	232.98	\$	44.77	\$	77.46
Percentage increase (decrease)	33.7%		(22.7)%		20.9%		34.3%
Cash basis (non-GAAP):							
Initial rent <sup>(1)</sup>	\$ 79.22	\$	164.74	\$	53.49	\$	97.28
Prior escalated rent	\$ 64.59	\$	166.35	\$	47.48	\$	85.77
Percentage increase (decrease)	22.7%		(1.0)%		12.7%		13.4%
Tenant improvements and leasing commissions:							
Per square foot	\$ 92.69	\$	59.17	\$	17.63	\$	94.98
Per square foot per annum	\$ 9.66	\$	10.76	\$	3.04	\$	9.22
Percentage of initial rent	12.2%		6.3 %		5.7%		10.3%

<sup>(1)</sup> Represents the cash basis weighted average starting rent per square foot, which is generally indicative of market rents. Most leases include free rent and periodic step-ups in rent which are not included in the initial cash basis rent per square foot but are included in the GAAP basis straight-line rent per square foot.

<sup>(2)</sup> Represents the GAAP basis weighted average rent per square foot that is recognized over the term of the respective leases, and includes the effect of free rent and periodic step-ups in rent.



# LEASE EXPIRATIONS NEW YORK SEGMENT

(unaudited)

(unaudited)	Period of Lease	Our Share of Square Feet	Weighted Ave Rent of Expi		erage Aı iring Lea	nnual ases	Percentage of Annualized
	Expiration	of Expiring Leases <sup>(1)</sup>		Total	F	Per Sq. Ft.	Escalated Rent
Office:	Month to Month	47,000	\$	5,010,000	\$	106.60	0.4%
	First Quarter 2019	243,000		15,087,000		62.09	1.3%
	Second Quarter 2019	125,000		9,313,000		74.50	0.8%
	Third Quarter 2019	69,000		4,450,000		64.49	0.4%
	Fourth Quarter 2019	190,000		12,266,000		64.56	1.1%
	Total 2019	627,000		41,116,000		65.58	3.6%
	2020	1,240,000		86,369,000		69.65	7.6%
	2021	1,188,000		92,419,000		77.79	8.0%
	2022	709,000		47,069,000		66.39	4.1%
	2023	1,971,000		159,774,000		81.06	13.9%
	2024	1,391,000		109,744,000		78.90	9.5%
	2025	804,000		60,228,000		74.91	5.2%
	2026	1,236,000		93,992,000		76.05	8.2%
	2027	1,118,000		81,535,000		72.93	7.1%
	2028	1,022,000		72,762,000		71.20	6.4%
	Thereafter	4,535,000		299,380,000		66.02	26.0%
Retail:	Month to Month	71,000	\$	9,355,000	\$	131.76	2.0%
	First Quarter 2019	35,000		8,638,000		246.80	1.9%
	Second Quarter 2019	10,000		1,793,000		179.30	0.4%
	Third Quarter 2019	20,000		9,531,000		476.55	2.1%
	Fourth Quarter 2019	38,000		6,512,000		171.37	1.4%
	Total 2019	103,000		26,474,000		257.03	5.8%
	2020	82,000		16,051,000		195.74	3.5%
	2021	58,000		9,589,000		165.33	2.1%
	2022	29,000		7,207,000		248.52	1.6%
	2023	110,000		44,107,000		400.97	9.6%
	2024	298,000		84,487,000		283.51	18.3%
	2025	42,000		19,220,000		457.62	4.2%
	2026	134,000		44,523,000		332.26	9.6%
	2027	32,000		22,719,000		709.97	4.9%
	2028	45,000		18,457,000		410.16	3.9%
	Thereafter	907,000		159,242,000		175.57	34.5%
		,		, ,			

<sup>(1)</sup> Excludes storage, vacancy and other.



# LEASE EXPIRATIONS theMART

(unaudited)

	Period of Lease	Our Share of Square Feet	Square Feet Rent of Expiring Leases					
	Expiration	of Expiring Leases <sup>(1)</sup>	Total		Pe	er Sq. Ft.	Annualized Escalated Rent	
Office / Showroom / Retail:	Month to Month	2,000	\$ 7	1,000	\$	35.50	0.1%	
	First Quarter 2019	32,000	1,81	0,000		56.56	1.1%	
	Second Quarter 2019	14,000	88	7,000		63.36	0.5%	
	Third Quarter 2019	20,000	1,07	2,000		53.60	0.7%	
	Fourth Quarter 2019	52,000	2,81	5,000		54.13	1.7%	
	Total 2019	118,000	6,58	4,000		55.80	4.0%	
	2020	281,000	13,88	5,000		49.41	8.5%	
	2021	329,000	16,14	0,000		49.06	9.8%	
	2022	649,000	31,05	1,000		47.84	18.9%	
	2023	305,000	15,64	7,000		51.30	9.5%	
	2024	238,000	11,38	3,000		47.83	6.9%	
	2025	337,000	17,40	1,000		51.64	10.6%	
	2026	215,000	10,35	8,000		48.18	6.3%	
	2027	108,000	5,44	4,000		50.41	3.3%	
	2028	642,000	27,87	7,000		43.42	17.0%	
	Thereafter	182,000	8,44	0,000		46.37	5.1%	

<sup>(1)</sup> Excludes storage, vacancy and other.



# LEASE EXPIRATIONS 555 California Street

(unaudited)

(41.14441104)						
	Period of Lease	Our Share of Square Feet of Expiring	Weighted Av Rent of Exp	verage Annual piring Leases	Percentage of Annualized	
	Expiration	of Expiring Leases <sup>(1)</sup>	Total	Per Sq. Ft.	Escalated Rent	
Office / Retail:	Month to Month		\$	\$	<u></u> %	
	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	6,407,000	63.44	6.9%	
	2021	76,000	5,324,000	70.05	5.7%	
	2022	36,000	2,783,000	77.31	3.0%	
	2023	133,000	9,335,000	70.19	10.1%	
	2024	59,000	5,167,000	87.58	5.6%	
	2025	364,000	25,578,000	70.27	27.6%	
	2026	140,000	10,299,000	73.56	11.1%	
	2027	69,000	5,698,000	82.58	6.1%	
	2028	20,000	1,432,000	71.60	1.5%	
	Thereafter	235,000	20,410,000	86.85	22.0%	

<sup>(1)</sup> Excludes storage, vacancy and other.



## COMPONENTS OF NET ASSET VALUE (AT SHARE)

(unaudited and in millions, except square feet, shares and per share amounts)	For the	Year Ended December	31, 2018		
	NOI at Share - Cash Basis	Adjustments	Pro Forma NOI at Share - Cash Basis	Cap Rate	Value <sup>(1)</sup>
Office:					
New York	726	(27)	699		
theMART	94	12 <sup>(3)</sup>	106		
555 California Street	53		53		
Total Office	873	(15)	858	4.50%	19,067
New York - Retail	324	_	324	4.50%	7,200
New York - Residential	22		22	4.00%	550
	\$ 1,219	\$ (15)	\$ 1,204		26,817
Less: Market management fee (28,133,000 square feet in service at share at \$0.50 per square foot) at a 4.50% cap rate					(313)
,				\$	
220 Central Park South - incremental value after repayment of debt and taxes  Cash, restricted cash and marketable securities				\$	1,000 869
• •				\$	,
Alexander's Inc. ("Alexander's") (1,654,068 shares at \$304.74 per share as of December 31, 20	)18)				504
Hotel Pennsylvania					500
BMS (2018 NOI of \$27 at a 7.0x multiple)					189
Urban Edge Properties ("UE") (5,717,184 shares at \$16.62 per share as of December 31, 2018	)				95
Real estate fund investments (VNO's share at fair value)					80
Pennsylvania Real Estate Investment Trust ("PREIT") (6,250,000 shares at \$5.94 per share as	of December 31, 201	8)			37
Other assets					730
Other construction in progress (at 110% of book value)					566
Total of other asset values				\$	4,570
Liabilities (see following page)				<u>\$</u>	(11,300)
NAV				<u>\$</u>	19,774 (1)
NAV per share				_	
(203.5 million shares on an OP basis as of December 31, 2018)				<u>\$</u>	97 (1)

See notes on following page.



## COMPONENTS OF NET ASSET VALUE (AT SHARE)

(unaudited and in millions)

	 Liabilities						
	As of ber 31, 2018	Adjı	ıstments		Net		
Consolidated contractual mortgage notes payable, net of noncontrolling interests' share	\$ 7,598	\$	(737) (4)	\$	6,861		
Non-consolidated real estate debt	2,683		(581) <sup>(5)</sup>		2,102		
Corporate unsecured debt	850		_		850		
Revolver/term loan	830		(750) <sup>(4)</sup>		80		
Other liabilities	482		_		482		
Perpetual preferred units (at redemption value)	925		_		925		
Total liabilities	\$ 13,368	\$	(2,068)	\$	11,300		

<sup>(1)</sup> Capitalization Rate ("Cap Rate") means the rate applied to pro-forma cash basis NOI to determine the fair value of our properties. The Cap Rates reflected in this financial supplement are based on management's estimates, which are inherently uncertain. Other asset values are also estimates made by management, which are inherently uncertain. There can be no assurance that management's estimates accurately reflect the fair value of our assets, and actual value may differ materially.

<sup>2)</sup> Adjustment to deduct BMS NOI for the year ended December 31, 2018.

<sup>(3)</sup> Adjustment to reflect the annual real estate tax increase which will be billed to tenants in 2019.

<sup>(4)</sup> Debt related to 220 Central Park South.

<sup>(5)</sup> Excludes our share of debt of Alexander's, UE, and PREIT as they are presented on an equity basis in other asset values.



## **CAPITAL STRUCTURE**

(unaudited and in thousands, except per share and unit amounts)			As of	
			December 31, 2018	_
Debt (contractual balances) (non-GAAP):  Consolidated debt <sup>(1)</sup> :				
Mortgages payable			\$ 8,215,847	
Senior unsecured notes			850,000	
\$750 Million unsecured term loan			750,000	
\$2.5 Billion unsecured revolving credit facilities			80,000	_
			9,895,847	
Pro rata share of debt of non-consolidated entities <sup>(2)</sup>			2,682,865	
Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas and 555 California Street)			(617,596	<u>)</u>
			11,961,116	(A)
	<b></b>	Liquidation		
	Shares/Units	Preference	_	
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	•	,	
5.40% Series L preferred shares	12,000	25.0	,	
5.25% Series M preferred shares	12,780	25.0		_
			924,928	_ (B)
	Converted Shares	December 31, 2018 Common Share Price	1	
Equity:			_	
Common shares	190,535	\$ 62.0	3 11,818,886	
Class A units	11,813	62.0	3 732,760	
Convertible share equivalents:				
Equity awards - unit equivalents	732	62.0	3 45,406	
D-13 preferred units	753	62.0	3 46,709	
G1-G4 units	61	62.0	3 3,784	
Series A preferred shares	36	62.0	3 2,233	
			12,649,778	(C)
Total Market Capitalization (A+B+C)			\$ 25,535,822	

<sup>(1)</sup> See reconciliation of consolidated debt, net (GAAP) to contractual debt (non-GAAP) on page xiv in the *Appendix*.

(2) As a result of Toys "R" Us ("Toys") filing a voluntary petition under chapter 11 of the United States Bankruptcy Code, we determined the Company no longer has the ability to exercise significant influence over Toys. Accordingly, we have excluded our share of Toys debt.



## 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):

	Fourth Quarter 2018		Third Quarter 2018		Sec	cond Quarter 2018	Fi	irst Quarter 2018
High price	\$	73.06	\$	77.59	\$	74.28	\$	78.31
Low price	\$	59.48	\$	69.50	\$	64.53	\$	64.13
Closing price - end of quarter	\$	62.03	\$	73.00	\$	73.92	\$	67.30
Annualized dividend per share	\$	2.52	\$	2.52	\$	2.52	\$	2.52
Annualized dividend yield - on closing price		4.1%		3.5%	3.4%			3.7%
Outstanding shares, Class A units and convertible preferred units as converted (in thousands)		203,930		203,604		203,577		203,613
Closing market value of outstanding shares, Class A units and convertible preferred units as converted	\$	12.6 Billion	\$	14.9 Billion	\$	15.0 Billion	\$	13.7 Billion



### **DEBT ANALYSIS**

				As of Decem	ber 31, 2018			
	Tot	al	Variable				Fix	ed
(Contractual debt balances) (non-GAAP)	Amount	Weighted Average Interest Rate		Amount	Weighted Average Interest Rate		Amount	Weighted Average Interest Rate
Consolidated debt <sup>(1)</sup>	\$ 9,895,847	3.87%	\$	3,292,382	4.31%	\$	6,603,465	3.65%
Pro rata share of debt of non-consolidated entities (2)	2,682,865	4.12%		1,300,797	4.05%		1,382,068	4.19%
Total	12,578,712	3.92%		4,593,179	4.24%		7,985,533	3.75%
Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas and 555 California Street)	(617,596)			(164,922)			(452,674)	
Company's pro rata share of total debt	\$ 11,961,116	3.91%	\$	4,428,257	4.23%	\$	7,532,859	3.73%

Debt Covenant Ratios: (3)	Sen	nior Unsecured Not	_ Unsecured Revolving Credit Facilities			
					ecured Term Loan	
	Required	Due 2022	Due 2025	Required	Actual	
Total outstanding debt/total assets <sup>(4)</sup>	Less than 65%	51%	48%	Less than 60%	39%	
Secured debt/total assets	Less than 50%	41%	39%	Less than 50%	31%	
Interest coverage ratio (annualized combined EBITDA to annualized interest expense)	Greater than 1.50	2.51	2.51		N/A	
Fixed charge coverage		N/A	N/A	Greater than 1.40	2.33	
Unencumbered assets/unsecured debt	Greater than 150%	387%	410%		N/A	
Unsecured debt/cap value of unencumbered assets		N/A	N/A	Less than 60%	20%	
Unencumbered coverage ratio		N/A	N/A	Greater than 1.50	7.25	

Unencumbered EBITDA (non-GAAP):(3)	Q	4 2018
	Anr	nualized
New York	\$	460,368
Other		33,028
Total	\$	493,396

<sup>(1)</sup> See reconciliation of consolidated debt, net (GAAP) to contractual debt (non-GAAP) on page xiv in the Appendix.

<sup>(2)</sup> As a result of Toys filing a voluntary petition under chapter 11 of the United States Bankruptcy Code, we determined the Company no longer has the ability to exercise significant influence over Toys. Accordingly, we have excluded our share of Toys debt.

<sup>(3)</sup> Our debt covenant ratios are computed in accordance with the terms of our senior unsecured notes, unsecured revolving credit facilities, and unsecured term loan, as applicable. The methodology used for these computations may differ significantly from similarly titled ratios of other companies. For additional information regarding the methodology used to compute these ratios, please see our filings with the SEC of our revolving credit facilities, senior debt indentures and applicable prospectuses and prospectus supplements.

<sup>(4)</sup> Total assets include EBITDA (as defined) capped at 7.5% under the senior unsecured notes due 2022, 7.0% under the senior unsecured notes due 2025 and 6.0% under the unsecured revolving credit facilities and unsecured term loan.



## DEBT MATURITIES (CONTRACTUAL BALANCES) (NON-GAAP)

Property	Maturity Date <sup>(1)</sup>	Spread over LIBOR	Interest Rate		2019	2020	2021	2022	2023	Thereafter	Total
435 Seventh Avenue	08/19	L+225	4.71%	\$	95,782	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 95,782
100 West 33rd Street - office and retail	07/20	L+165	4.03%		· _	580,000	_	_	_	_	580,000
220 Central Park South	09/20	L+200	4.52%		_	737,369	_	_	_	_	737,369
PENN11	12/20		3.95%		_	450,000	_	_	_	_	450,000
888 Seventh Avenue	12/20		3.15%	(2)	_	375,000	_	_	_	_	375,000
Borgata Land	02/21		5.14%		_	_	54,551	_	_	_	54,551
770 Broadway	03/21		2.56%	(3)	_	_	700,000	_	_	_	700,000
909 Third Avenue	05/21		3.91%		_	_	350,000	_	_	_	350,000
606 Broadway	05/21	L+300	5.39%		_	_	51,290	_	_	_	51,290
Farley Office and Retail Building	06/21	L+325	5.63%		_	_	257,941	_	_	_	257,941
555 California Street	09/21		5.10%		_	_	558,914	_	_	_	558,914
theMART	09/21		2.70%		_	_	675,000	_	_	_	675,000
655 Fifth Avenue	10/21	L+140	3.75%		_	_	140,000	_	_	_	140,000
PENN2	12/21	L+165	4.00%		_	_	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	12/22	L+190	4.25%		_	_	_	450,000	_	_	450,000
\$1.25 Billion unsecured revolving credit facility	01/23	L+100	3.46%		_	_	_	_	80,000	_	80,000
666 Fifth Avenue Retail Condominium	03/23		3.61%		_	_	_	_	390,000	_	390,000
Unsecured Term Loan	02/24		3.87%		_	_	_	_	_	750,000	750,000
150 West 34th Street	05/24	L+188	4.26%		_	_	_	_	_	205,000	205,000
33-00 Northern Boulevard	01/25		4.14%	(4)	_	_	_	_	_	100,000	100,000
Senior unsecured notes due 2025	01/25		3.50%		_	_	_	_	_	450,000	450,000
4 Union Square South	08/25	L+140	3.75%		_	_	_	_	_	120,000	120,000
350 Park Avenue	01/27		3.92%	_						400,000	400,000
				\$	95,782	\$2,142,369	\$3,362,696	\$1,800,000	\$ 470,000	\$2,025,000	\$9,895,847
Weighted average rate					4.71%	4.03%	3.77%	3.94%	3.58%	3.84%	3.87%
Fixed rate debt				\$	_	\$ 825,000	\$2,338,465	\$1,350,000	\$ 390,000	\$1,700,000	\$6,603,465
Fixed weighted average rate expiring					—%	3.59%	3.47%	3.83%	3.61%	3.80%	3.65%
Floating rate debt				\$	95,782	\$1,317,369	\$1,024,231	\$ 450,000	\$ 80,000	\$ 325,000	\$3,292,382
Floating weighted average rate expiring					4.71%	4.31%	4.45%	4.25%	3.46%	4.07%	4.31%

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

<sup>(2)</sup> 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% (3.99% as of December 31, 2018).

<sup>(3)</sup> 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% (4.13% as of December 31, 2018).

<sup>(4)</sup> 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% (4.19% as of December 31, 2018).



### **UNCONSOLIDATED JOINT VENTURES**

(unaudited and in thousands)											
Joint Venture Name	Asset Category	Percentage Ownership at December 31, 2018	(	ompany's Carrying Amount		Company's Pro rata are of Debt <sup>(1)</sup>	J	100% of oint Venture Debt <sup>(1)</sup>	Maturity Date	Spread over LIBOR	Interest Rate
Alexander's	Office/Retail	32.4%	\$	107,983	\$	379,256	\$	1,170,544	Various	Various	Various
PREIT	Retail	7.9%		59,491		130,357		1,642,408	Various	Various	Various
UE	Retail	4.5%		45,344		70,332		1,563,375	Various	Various	Various
Partially owned office buildings/land:											
One Park Avenue	Office/Retail	55.0%		133,140		165,000		300,000	03/21	L+175	4.13%
280 Park Avenue	Office/Retail	50.0%		114,873		600,000		1,200,000	09/24	L+173	4.12%
650 Madison Avenue	Office/Retail	20.1%		107,150		161,024		800,000	10/20	N/A	4.39%
512 West 22nd Street	Office	55.0%		60,114		49,388		89,796	11/20	L+265	4.99%
West 57th Street properties	Office/Retail/Land	50.0%		43,656		10,000		20,000	12/22	L+160	3.95%
61 Ninth Avenue	Office/Retail	45.1%		31,678		36,264		80,409	12/21	L+305	5.40%
825 Seventh Avenue	Office/Retail	50.0%		9,779		10,250		20,500	06/19	L+140	3.78%
85 Tenth Avenue	Office/Retail	49.9%		(5,476)		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%		66,343		338,175		675,000	07/25	N/A	4.25%
Rosslyn Plaza	Office/Residential	43.7% to 50.4%		31,261		20,005		39,683	06/19	L+225	4.60%
Other	Various	Various		48,686		99,474		644,023	Various	Various	Various
			\$	858,113	\$	2,398,865	\$	8,920,888			
330 Madison Avenue	Office/Retail	25.0%	\$	(58,117) <sup>(</sup>	<sup>2)</sup> \$	125,000	\$	500,000	08/24	N/A	3.43%
7 West 34th Street	Office/Retail	53.0%		(51,579) <sup>(</sup>	3)	159,000		300,000	06/26	N/A	3.65%
			\$	(109,696)	\$	284,000	\$	800,000			

<sup>(1)</sup> Represents the contractual debt obligations. All amounts are non-recourse to us except the \$300,000 mortgage loan on 7 West 34th Street which we guaranteed in connection with the sale of a 47.0% equity interest in May 2016.

 <sup>(2)</sup> 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.



### **UNCONSOLIDATED JOINT VENTURES**

	Percentage Ownership at		come (Loss) for the Three led December 31,	(non-GA/	re of NOI AP) for the ded December 31,
	December 31, 2018	2018	2017	2018	2017
Joint Venture Name					
New York:					
Alexander's	32.4%	\$ 3,270	<sup>(1)</sup> \$ 5,728	\$ 11,024	\$ 11,656
85 Tenth Avenue	49.9%	(2,217	(499)	4,880	4,738
One Park Avenue	55.0%	1,616	2,208	5,185	5,272
280 Park Avenue	50.0%	(1,581	) (807)	9,529	9,654
650 Madison Avenue	20.1%	(1,156	(962)	2,434	2,581
330 Madison Avenue	25.0%	644	740	2,790	2,818
7 West 34th Street	53.0%	404	985	3,384	3,386
Independence Plaza	50.1%	(276	1,180	6,776	7,010
825 Seventh Avenue	50.0%	176	674	543	832
West 57th Street properties	50.0%	(96	(131)	261	208
Other, net	Various	178	(975)	2,372	545_
		962	8,141	49,178	48,700
Other:					
UE	4.5%	1,226	1,017	3,198	3,014
Alexander's corporate fee income	32.4%	1,182	1,682	537	1,682
PREIT	7.9%	(902	155	4,683	5,046
Suffolk Downs	50.0%	598	(23)	(14)	(23)
Rosslyn Plaza	43.7% to 50.4%	(159	(422)	1,051	851
666 Fifth Avenue Office Condominium (2)	49.5%		(3,042)	_	5,433
Other, net	Various	183	2,114	1,572	4,472
		2,128	1,481	11,027	20,475
Total		\$ 3,090	\$ 9,622	\$ 60,205	\$ 69,175

<sup>(1)</sup> Includes \$2,081 for our share of expense related to the decrease in fair value of marketable securities held by Alexander's.
(2) 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.



### **UNCONSOLIDATED JOINT VENTURES**

	Percentage Ownership at	Our Share of Net Incom		(non-GA	re of NOI AP) for the December 31,
	December 31, 2018	2018	2017	2018	2017
Joint Venture Name					
New York:					
Alexander's	32.4%	\$ 10,485 <sup>(1)</sup>	\$ 25,820	\$ 45,134	\$ 47,302
280 Park Avenue	50.0%	(4,962)	(7,289)	38,545	36,407
650 Madison Avenue	20.1%	(4,048)	(4,774)	10,299	9,511
85 Tenth Avenue	49.9%	(3,589)	(1,290)	18,801	19,153
7 West 34th Street	53.0%	3,238	3,053	13,441	13,543
330 Madison Avenue	25.0%	2,725	4,150	11,127	10,121
825 Seventh Avenue	50.0%	2,224	2,673	3,062	3,325
Independence Plaza	50.1%	1,093	4,345	26,708	27,358
West 57th Street properties	50.0%	(340)	(131)	900	1,086
One Park Avenue	55.0%	(116) <sup>(2)</sup>	5,565	20,364	17,528
Other, net	Various	(566)	(2,563)	7,527	3,993
		6,144	29,559	195,908	189,327
Other:					
666 Fifth Avenue Office Condominium (3)	49.5%	(4,873)	(25,414)	12,145	20,636
Alexander's corporate fee income	32.4%	4,560	6,033	2.833	6,033
UE	4.5%	4,460	27,328 <sup>(4</sup>	11,822	14,479
PREIT	7.9%	(3,015)	(53,325) <sup>(5</sup>	20,032	21,071
Suffolk Downs	50.0%	855	26,360 <sup>- (1</sup>	<sup>6)</sup> (47)	235
Rosslyn Plaza	43.7% to 50.4%	(215)	(774)	4,520	4,187
Other, net	Various	1,233	5,433	6,351	13,196
		3,005	(14,359)	57,656	79,837
Total		\$ 9,149	\$ 15,200	\$ 253,564	\$ 269,164

<sup>(1) 2018</sup> includes (i) our \$7,708 share of Alexander's potential additional Transfer Tax, (ii) our \$3,882 share of expense related to the decrease in fair value of marketable securities held by Alexander's (iii) our \$1,085 share of a non-cash straight-line rent write-off adjustment related to Sears Roebuck and Co. which filed for Chapter 11 bankruptcy relief and (iv) our \$518 share of Alexander's litigation expense due to a settlement.

<sup>(2)</sup> Includes our \$4,978 share of potential additional Transfer Tax related to the March 2011 acquisition of One Park Avenue.

<sup>(3)</sup> 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.

<sup>(4)</sup> Includes a \$21,100 net gain resulting from UE operating partner unit issuances.

<sup>(5)</sup> Includes a \$44,465 non-cash impairment loss.

<sup>(6)</sup> Includes \$26,687 of net gains comprised of \$15,314 for our share of a net gain on the sale of Suffolk Downs and \$11,373 for the net gain on repayment of our debt investments in Suffolk Downs JV.



## DEVELOPMENT/REDEVELOPMENT SUMMARY - AS OF DECEMBER 31, 2018

(unaudited and in thousands, except square feet)

			(At S	hare)				FII
		Property	Excluding I	Land Costs				Full Quarter
Current Projects	Segment	Rentable Sq. Ft.	Incremental Budget	Amount Expended	% Complete	Start	Available for Occupancy	Stabilized Operations
220 Central Park South - residential condominiums	Other	397,000	\$ 1,400,000	\$ 1,199,913 <sup>(1)</sup>	85.7%	Q3 2012	N/A	N/A
Farley Office and Retail Building - (95.0% interest)	New York	850,000	760,000	137,267 <sup>(2)</sup>	18.1%	Q2 2017	Q3 2020	Q2 2022
PENN1 <sup>(3)</sup>	New York	2,545,000	200,000 (	9,725	4.9%	Q4 2018	N/A	N/A
512 West 22nd Street - office (55.0% interest)	New York	173,000	72,000	52,505 <sup>(5)</sup>	72.9%	Q4 2015	Q1 2019	Q3 2020
345 Montgomery Street (555 California Street) (70.0% interest)	Other	78,000	32,000	15,284 <sup>(6)</sup>	47.8%	Q1 2018	Q3 2019	Q3 2020
606 Broadway - office/retail (50.0% interest)	New York	34,000	30,000	25,601 <sup>(7)</sup>	85.3%	Q2 2016	Q4 2018	Q2 2020
825 Seventh Avenue - office (50.0% interest)	New York	165,000	15,000	4,484	29.9%	Q2 2018	Q1 2020	Q1 2021
Total current projects			\$ 2,509,000	\$ 1,444,779				

		Property Zoning
Future Opportunities	Segment	Sq. Ft.
Penn District - multiple opportunities - office/residential/retail	New York	TBD
PENN2 - office/retail	New York	TBD
Hotel Pennsylvania	New York	2,052,000
260 Eleventh Avenue - office <sup>(8)</sup>	New York	280,000
Undeveloped Land		
29, 31, 33 West 57th Street (50.0% interest)	New York	150,000
484, 486 Eighth Avenue and 265, 267 West 34th Street	New York	125,000
527 West Kinzie, Chicago	Other	330,000
Rego Park III (32.4% interest)	Other	TBD
Total undeveloped land		605,000

<sup>(1)</sup> Excludes land and acquisition costs of \$515,426.

<sup>(2)</sup> Excludes our share of the upfront contribution of \$230,000 and net of anticipated historic tax credits. The building and land are subject to a lease which expires in 2116.

<sup>(3)</sup> The building is subject to a ground lease which expires in 2098.

<sup>(4)</sup> We expect the final budget will exceed \$200,000 after anticipated scope changes.

<sup>(5)</sup> Excludes land and acquisition costs of \$57,000.

<sup>(6)</sup> Excludes land and building costs of \$31,000.

<sup>(7)</sup> Excludes land and acquisition costs of \$22,703.

<sup>(8)</sup> The building is subject to a ground lease which expires in 2114.



### **CONSOLIDATED**

	Year Ended December 31,						
Amounts paid for capital expenditures:	2018			2017	2016		
Expenditures to maintain assets	\$	92,386	\$	111,629	\$	119,076	
Tenant improvements		100,191		128,287		219,751	
Leasing commissions		33,254		36,447		47,906	
Recurring tenant improvements, leasing commissions and other capital expenditures		225,831		276,363		386,733	
Non-recurring capital expenditures		43,135		35,149		58,693	
Total capital expenditures and leasing commissions	\$	268,966	\$	311,512	\$	445,426 (1)	

	Year Ende	d December 3	1,	
 2018	20	017		2016
		_		
\$ 295,827	\$	265,791	\$	303,974
18,995		_		_
18,187		5,950		434
15,959		15,997		4,234
8,856		1,401		_
8,645		1,982		9,283
1,015		7,523		33,308
199		1,648		46,282
 50,503		55,560	(2)	209,050
\$ 418,186	\$	355,852	\$	606,565
\$	\$ 295,827 18,995 18,187 15,959 8,856 8,645 1,015 199 50,503	\$ 295,827 \$ 18,995 18,187 15,959 8,856 8,645 1,015 199 50,503	2018     2017       \$ 295,827     \$ 265,791       18,995     —       18,187     5,950       15,959     15,997       8,856     1,401       8,645     1,982       1,015     7,523       199     1,648       50,503     55,560	\$ 295,827 \$ 265,791 \$ 18,995 — 18,187 5,950 15,959 15,997 8,856 1,401 8,645 1,982 1,015 7,523 199 1,648 50,503 55,560 (2)

<sup>(1)</sup> Includes \$33,722 and \$105,998 for the years ended December 31, 2017 and 2016, respectively, of capital expenditures and leasing commissions from our former Washington, DC segment which was spun-off on July 17, 2017.

<sup>(2)</sup> Primarily relates to our former Washington, DC segment.



## **NEW YORK SEGMENT**

	Year Ended December 31,					
Amounts paid for capital expenditures:	2018 2017			2016		
Expenditures to maintain assets	\$	70,954	\$	79,567	\$	65,561
Tenant improvements		76,187		83,639		112,687
Leasing commissions		29,435		26,114		38,134
Recurring tenant improvements, leasing commissions and other capital expenditures		176,576		189,320		216,382
Non-recurring capital expenditures		31,381		27,762		47,642
Total capital expenditures and leasing commissions	\$	207,957	\$	217,082	\$	264,024

	Year Ended December 31,					
	2018		2017		2016	
Amounts paid for development and redevelopment expenditures:					_	
Farley Office and Retail Building	\$	18,995	\$ —	\$	_	
606 Broadway		15,959	15,997		4,234	
PENN1		8,856	1,462		_	
1535 Broadway		8,645	1,982		9,283	
90 Park Avenue		1,015	7,523		33,308	
640 Fifth Avenue		199	1,648		46,282	
Other		35,446	14,762		25,096	
	\$	89,115	\$ 43,374	\$	118,203	



### theMART

	 Year Ended December 31,					
Amounts paid for capital expenditures:	 2018	2017			2016	
Expenditures to maintain assets	\$ 13,282	\$	12,772	\$	20,098	
Tenant improvements	15,106		8,730		29,738	
Leasing commissions	 459		1,701		2,070	
Recurring tenant improvements, leasing commissions and other capital expenditures	28,847		23,203		51,906	
Non-recurring capital expenditures	260		_		_	
Total capital expenditures and leasing commissions	\$ 29,107	\$	23,203	\$	51,906	
		· ·				

	Year Ended December 31,						
	2018 2017			2016			
Amounts paid for development and redevelopment expenditures:							
Common area enhancements	\$	51	\$	5,342	\$	24,788	
Other		10,739		799		1,384	
	\$	10,790	\$	6,141	\$	26,172	



### 555 CALIFORNIA STREET

	Year Ended December 31,					
Amounts paid for capital expenditures:		2018	2017			2016
Expenditures to maintain assets	\$	8,150	\$	9,689	\$	9,954
Tenant improvements		8,898		19,327		9,904
Leasing commissions		3,360		1,330		1,486
Recurring tenant improvements, leasing commissions and other capital expenditures		20,408		30,346		21,344
Non-recurring capital expenditures		11,494		7,159		2,154
Total capital expenditures and leasing commissions	\$	31,902	\$	37,505	\$	23,498

	Year Ended December 31,							
	2018 2017				2016			
Amounts paid for development and redevelopment expenditures:								
345 Montgomery Street	\$	18,187	\$	5,950	\$	434		
Other		445		6,465		8,716		
	\$	18,632	\$	12,415	\$	9,150		



## **OTHER**

	 Year Ended December 31,								
	2018		2017		2016				
Amounts paid for development and redevelopment expenditures:					·				
220 Central Park South	\$ 295,827	\$	265,791	\$	303,974				
Other	 3,822		28,131 <sup>(1)</sup>		149,066 (1)				
	\$ 299,649	\$	293,922	\$	453,040				

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



## SQUARE FOOTAGE

(unaudited and square feet in thousands)				At Vornado	'e Sharo		
	•			At vomado	In Se		
	At 100%	Total	Under Development	Office	Retail	Showroom	Other
Segment:							
New York:							
Office	21,495	17,980	1,348	16,449	_	183	_
Retail	2,802	2,557	138	_	2,419	_	_
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			<u> </u>		1,400
	29,667	23,527	1,486	16,737	2,838	183	2,283
Other:							
theMART	3,694	3,685	_	2,043	109	1,533	_
555 California Street (70% interest)	1,821	1,275	55	1,189	31	_	_
Other	2,832	1,333	146	212	864	_	111
	8,347	6,293	201	3,444	1,004	1,533	111
Total square feet at December 31, 2018	38,014	29,820	1,687	20,181	3,842	1,716	2,394
Total square feet at September 30, 2018	37,987	29,424	1,022	20,447	3,846	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 December 31, 2018	2,806	19	8,059				



## **TOP 30 TENANTS**

(unaudited and in thousands, except square feet)

Tenants	Square Footage At Share <sup>(1)</sup>	Annualized Revenues At Share (non-GAAP) <sup>(1)</sup>	% of Annualized Revenues At Share (non-GAAP) <sup>(2)</sup>
Facebook	758,292	\$ 75,749	3.1%
IPG and affiliates	967,552	63,689	2.6%
Swatch Group USA	25,634	47,968	2.0%
Macy's	646,434	38,248	1.6%
Google/Motorola Mobility (guaranteed by Google)	728,483	35,214	1.4%
Bloomberg L.P.	287,898	33,874	1.4%
Forever 21	170,374	33,649	1.4%
Victoria's Secret (guaranteed by L Brands, Inc.)	63,779	33,190	1.4%
AXA Equitable Life Insurance	336,646	32,647	1.3%
Oath (Verizon)	327,138	30,878	1.3%
Ziff Brothers Investments, Inc.	287,030	30,654	1.3%
McGraw-Hill Companies, Inc.	479,557	30,443	1.2%
AMC Networks, Inc.	404,920	27,713	1.1%
The City of New York	563,545	25,554	1.0%
Topshop	94,349	24,414	1.0%
Fast Retailing (Uniqlo)	90,732	23,795	1.0%
Amazon (including its Whole Foods subsidiary)	308,113	23,585	1.0%
Madison Square Garden	344,355	22,852	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	20,367	0.8%
Hollister	21,741	20,252	0.8%
JCPenney	426,370	20,016	0.8%
PwC	243,434	17,430	0.7%
U.S. Government	578,711	14,666	0.6%
Sephora	16,146	14,173	0.6%
Information Builders, Inc.	229,064	13,845	0.6%
Ferragamo	53,171	13,537	0.6%
New York & Company, Inc.	207,585	12,031	0.5%
Cushman & Wakefield	127,314	11,784	0.5%
			34.2%

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



## OCCUPANCY

(unaudited)			_
	New York	theMART	555 California Street
Occupancy rate at:		_	
December 31, 2018	97.0%	94.7%	99.4%
September 30, 2018	97.3%	95.5%	99.4%
December 31, 2017	97.2%	98.6%	94.2%

## RESIDENTIAL STATISTICS in service

(unaudited)		Vo	rnado's Ownership Inter	rest
	Number of Units	Number of Units	Occupancy Rate	Average Monthly Rent Per Unit
New York:				
December 31, 2018	1,999	963	96.6%	\$3,803
September 30, 2018	1,999	963	96.7%	\$3,775
December 31, 2017	2,009	981	96.7%	\$3,722



			Weighted _	Square Feet				
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK:								
Penn District:								
PENN1								
(ground leased through 2098)								Cisco, Lion Resources, WSP USA, Symantec Corporation,
-Office	100.0%	92.5%	\$ 66.64	2,274,000	2,105,000	169,000		United Healthcare Services, Inc., Siemens Mobility
								Bank of America, Kmart Corporation,
-Retail	100.0%	97.9%	137.08	271,000	271,000			Shake Shack, Starbucks
	100.0%	93.1%	74.14	2,545,000	2,376,000	169,000	\$	
NN2								EMC, Information Builders, Inc.,
-Office	100.0%	100.0%	60.64	1,589,000	1,359,000	230,000		Madison Square Garden, McGraw-Hill Companies, Inc.
-Retail	100.0%	100.0%	217.40	45,000	39,000	6,000		Chase Manhattan Bank
	100.0%	100.0%	64.96	1,634,000	1,398,000	236,000	575,000	
NN11								
-Office	100.0%	99.7%	62.24	1,110,000	1,110,000	_		Macy's, Madison Square Garden, AMC Networks, Inc.
				.,,	.,,000			PNC Bank National Association, Starbucks,
-Retail	100.0%	100.0%	145.56	41,000	41,000	_		Madison Square Garden
	100.0%	99.7%	65.21	1,151,000	1,151,000		450,000	
	100.070	00.1 70	00.21	1,101,000	1,101,000		400,000	
0 West 33rd Street								
-Office	100.0%	100.0%	65.71	859,000	859,000	_	398,402	IPG and affiliates
anhattan Mall								
-Retail	100.0%	94.9%	129.07	256,000	256,000	_	181,598	JCPenney, Aeropostale, Express, Starbucks
30 West 34th Street  (ground leased through 2149 -  34.8% ownership interest in the land)  -Office  -Retail	100.0% 100.0%	100.0% 44.3%	62.98 124.70	703,000 19,000	703,000 19,000	=		New York & Company, Inc., Structure Tone, Deutsch, Inc., Web.com, Footlocker, Home Advisor, Inc. Starbucks*, Ballast Point*
	100.0%	98.5%	62.98	722,000	722,000		50,150 <sup>(3)</sup>	
				,	,			
5 Seventh Avenue								
-Retail	100.0%	100.0%	187.82	43,000	43,000	_	95,782	Forever 21*
West 34th Street -Office -Retail	53.0% 53.0% 53.0%	100.0% 89.3% 99.6%	64.86 336.54 75.68	458,000 19,000 477,000	458,000 19,000 477,000		300,000	Amazon Amazon, Lindt*, Naturalizer* (guaranteed by Caleres)
31 Seventh Avenue								
-Retail	100.0%	100.0%	270.94	10,000	10,000	_	_	
				• '	• • • •			
B Eighth Avenue								
-Retail	100.0%	100.0%	89.36	6,000	6,000	_	_	
8-142 West 32nd Street								
	400.004	07.00/	00.04	0.000	0.000			
-Retail	100.0%	67.3%	83.91	8,000	8,000	_	_	
0 West 34th Street								
-Retail	100.0%	100.0%	112.53	78,000	78,000		205.000	Old Navy
-Netali	100.0%	100.0%	112.53	70,000	70,000	_	205,000	Olu Ivavy



			Malaka d	Square Feet				
Property	% Ownership	% Occupancy	Weighted Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK (Continued):								
Penn District (Continued):								
137 West 33rd Street								
-Retail	100.0%	100.0%	\$ 97.47	3,000	3,000	_	\$	
131-135 West 33rd Street								
-Retail	100.0%	100.0%	55.08	23,000	23,000	_	_	
Total Penn District				7,815,000	7,410,000	405,000	2,255,932	
Midtown East:				7,010,000	7,410,000	400,000	2,200,002	
909 Third Avenue								IPG and affiliates, Forest Laboratories,
(ground leased through 2063)								Geller & Company, Morrison Cohen LLP, Robeco USA Inc.,
-Office	100.0%	98.6%	64.23 <sup>(4)</sup>	1,352,000	1,352,000	_	350,000	United States Post Office,
				,,	,,		,	Thomson Reuters LLC, Sard Verbinnen*
450 Foot 50th Street								
150 East 58th Street								
(ground leased through 2118)	400.007	07.00/	70.00	E40.000	540.000			Coatle Harley Terrescal Dealty LLC (Detect Marine)
-Office	100.0%	97.0%	76.09	540,000	540,000	_		Castle Harlan, Tournesol Realty LLC (Peter Marino)
-Retail	100.0% 100.0%	13.1% 96.5%	17.86 75.77	3,000 543,000	3,000 543,000			
	100.0%	96.5%	75.77	543,000	543,000	_	_	
715 Lexington Avenue								
-Retail	100.0%	92.5%	105.09	23,000	23,000	_	_	New York & Company, Inc., Jonathan Adler
966 Third Avenue								
-Retail	100.0%	100.0%	96.03	7,000	7,000	_	_	McDonald's
968 Third Avenue								
-Retail	50.0%	100.0%	165.23	7,000	7,000	_	_	Wells Fargo*
Total Midtown East				1,932,000	1,932,000		350,000	
Midtown West:								
388 Seventh Avenue								TPG-Axon Capital, Lone Star US Acquisitions LLC,
(ground leased through 2067)								Pershing Square Capital Management,
-Office	100.0%	96.6%	92.27	871,000	871,000	_		Vornado Executive Headquarters
-Retail	100.0%	100.0%	309.08	15,000	15,000			Redeye Grill L.P.
	100.0%	96.7%	95.94	886,000	886,000	_	375,000	
67th Street - 2 buildings								
-Office	50.0%	84.6%	48.81	81,000	81,000	_		Various
-Retail	50.0%	100.0%	136.71	22,000	22,000	_		various
-i Votali	50.0%	87.9%	6758	103,000	103,000		20,000	
	20.070	3070	000				·	
Total Midtown West				989,000	989,000		395,000	
Park Avenue:								
280 Park Avenue								Cohen & Steers Inc., Franklin Templeton Co. LLC,
-Office	50.0%	93.3%	101.12	1,234,000	1,234,000	_		PJT Partners, Investcorp International Inc., GIC Inc., Wells Fargo
-Retail	50.0%	100.0%	102.82	26,000	26,000			Scottrade Inc., Starbucks, The Four Seasons Restaurant
	50.0%	93.5%	101.15	1,260,000	1,260,000	_	1,200,000	



### PROPERTY TABLE

### **NEW YORK SEGMENT**

			Weighted -	hted Square Feet					
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants	
NEW YORK (Continued):									
Park Avenue (Continued):									
350 Park Avenue								Kissinger Associates Inc., Ziff Brothers Investment Inc.,	
-Office	100.0%	97.7%	\$ 108.35	554,000	554,000	_		MFA Financial Inc., M&T Bank	
-Retail	100.0%	100.0%	270.21	17,000	17,000	_		Fidelity Investments, AT&T Wireless, Valley National Bank	
	100.0%	97.8%	113.17	571,000	571,000		\$ 400,000		
Total Park Avenue			•	1,831,000	1,831,000		1,600,000		
Grand Central:									
0 Park Avenue								Alston & Bird, Capital One, PwC,	
-Office	100.0%	94.8%	78.15	938,000	938,000	_		Factset Research Systems Inc., Foley & Lardner	
-Retail	100.0%	100.0%	133.90	24,000	24,000	_		Citibank, Starbucks	
-I \G\all								Ottibaliti, Otalbucks	
	100.0%	94.9%	79.54	962,000	962,000	_	_		
30 Madison Avenue								Guggenheim Partners LLC, HSBC Bank AFS, Glencore Ltd.,	
-Office	25.0%	96.9%	79.04	813,000	813,000	_		Jones Lang LaSalle Inc., Wells Fargo, American Century	
-Retail	25.0%	100.0%	331.56	33,000	33,000			Ann Taylor Retail Inc., Citibank, Starbucks	
	25.0%	97.0%	88.89	846,000	846,000		500,000		
10 Fifth Avenue									
-Retail	100.0%	100.0%	159.31	66,000	66,000	_	_	The North Face, Elie Tahari	
-i (Gtaii	100.070	100.070	100.01	00,000	00,000			The North ace, the fallan	
Total Grand Central				1,874,000	1,874,000		500,000		
ladison/Fifth:									
40 Fifth Avenue								Fidelity Investments, Owl Creek Asset Management LP,	
-Office	100.0%	100.0%	92.87	246,000	246,000	_		Avolon Aerospace*, GCA Savvian Inc.	
-Retail	100.0%	100.0%	940.17	69,000	69,000	_		Victoria's Secret (guaranteed by L Brands, Inc.), Dyson	
. Can	100.0%	100.0%	278.47	315,000	315,000		_	ristoria e eestet (gaaranteed b) 2 brande, me.i, bjeen	
66 Fifth Avenue Retail Condominium									
-Retail	100.0% (5)	100.0%	470.16	114,000	114,000		390,000	Fast Retailing (Uniglo), Hollister, Tissot	
-Retail	100.076	100.0%	470.10	114,000	114,000	_	390,000	Fast Retailing (Oniqio), Hollister, Hissot	
95 Madison Avenue								Beauvais Carpets, Levin Capital Strategies LP,	
-Office	100.0%	96.1%	84.54	301,000	301,000	_		Cosmetech Mably Int'l LLC.	
-Retail	100.0%	39.2%	1,273.21	29,000	29,000			Coach	
	100.0%	91.1%	189.00	330,000	330,000		_		
50 Madison Avenue								Memorial Sloan Kettering Cancer Center, Polo Ralph Lauren,	
								Willett Advisors LLC (Bloomberg Philanthropies), Sotheby's	
-Office	20.1%	97.9%	113.76	564,000	564,000	_		International Realty, Inc.	
-Retail	20.1%	68.6%	1,256.83	40,000	40,000			Moncler USA Inc., Tod's, Celine*	
	20.1%	96.0%	189.46	604,000	604,000	_	800,000		
9 Fifth Avenue									
-Office	100.0%	100.0%	86.36	81,000	81,000	_		Yamaha Artist Services Inc., Brunello Cucinelli USA Inc.	
-Retail	100.0%	100.0%	864.35	17,000	17,000	_		MAC Cosmetics, Massimo Dutti	
	100.0%	100.0%	221.32	98,000	98,000		_		
55 Fifth Avenue									
	22.5%	100.00/	253.79	57,000	F7.000		440,000		
-Retail	92.5%	100.0%	753 /u	57 000	57,000		140,000	Ferragamo	



		,			Square Feet			
Property	% Ownership	% Occupancy	Weighted Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK (Continued): Madison/Fifth (Continued):								
697-703 Fifth Avenue -Retail	74.3%	100.0%	\$ 2,760.34	26,000	26,000	_	\$ 450,000	Swatch Group USA, Harry Winston
Total Madison/Fifth  Midtown South:				1,544,000	1,544,000		1,780,000	
770 Broadway								
-Office -Retail	100.0% 100.0% 100.0%	100.0% 100.0% 100.0%	97.55 66.56 94.80	1,078,000 105,000 1,183,000	1,078,000 105,000 1,183,000		700,000	Facebook, Oath (Verizon) Ann Taylor Retail Inc., Bank of America, Kmart Corporation
One Park Avenue	100.0%	100.0%	94.60	1,163,000	1,163,000	_	700,000	New York University, Clarins USA Inc., BMG Rights Management, Robert A.M. Stern Architect,
-Office	55.0%	100.0%	58.91	865,000	865,000	_		automotiveMastermind
-Retail	55.0%	100.0%	88.52	78,000	78,000	_		Bank of Baroda, Citibank, Equinox, Men's Wearhouse
	55.0%	100.0%	61.36	943,000	943,000		300,000	
4 Union Square South -Retail	100.0%	100.0%	107.88	206,000	206,000	_	120,000	Burlington, Whole Foods Market, DSW, Forever 21
692 Broadway -Retail	100.0%	100.0%	92.96	36,000	36,000	_	_	Equinox, Oath (Verizon)
Total Midtown South	.00.070	100.070	02.00	2,368,000	2,368,000		1,120,000	244
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%	82.41	2,037,000	2,037,000	_		Cella, Harper & Scinto, Columbia University
-Retail	70.0% 70.0%	100.0% 100.0%	181.83 85.98	76,000 2,113,000	76,000 2,113,000		950,000	Duane Reade, JPMorgan Chase Bank, Sovereign Bank, Starbucks
608 Fifth Avenue								
(ground leased through 2033)								
-Office	100.0%	99.8%	72.24	93,000	93,000	_		
-Retail	100.0%	100.0%	486.09	44,000	44,000	_		Topshop
	100.0%	99.9%	205.15	137,000	137,000		_	
Total Rockefeller Center				2,250,000	2,250,000		950,000	
Wall Street/Downtown:								
40 Fulton Street								
-Office	100.0%	77.1%	44.54	246,000	246,000	_		Market News International Inc., Sapient Corp.
-Retail	100.0%	100.0%	108.51	5,000 251,000	5,000 251,000			TD Bank
Sahar	100.0%	77.5%	45.81	251,000	251,000			
Soho: 478-486 Broadway - 2 buildings								
-Retail	100.0%	100.0%	252.41	65,000	65,000	_		Topshop, Madewell, J. Crew
-Residential (10 units)	100.0%	100.0%		20,000	20,000			
,	100.0%	100.0%		85,000	85,000	_	_	



			Weighted		Square Feet			
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK (Continued): Soho (Continued):						TOT Education		
443 Broadway Retail	100.0%	100.0%	\$ 100.00	16,000	16,000	_	\$ _	Necessary Clothing
304 Canal Street -Retail -Residential (4 units)	100.0% 100.0% 100.0%	 100.0% 69.2%	_	4,000 9,000 13,000	4,000 9,000 13,000		_	
334 Canal Street -Retail -Residential (4 units)	100.0% 100.0% 100.0%	100.0% 75.0% 81.7%	100.20	4,000 11,000 15,000	4,000 11.000 15,000		_	
155 Spring Street -Retail	100.0%	93.6%	141.06	50,000	50,000	_	_	Vera Bradley
148 Spring Street -Retail	100.0%	100.0%	196.15	8,000	8,000	_	_	Dr. Martens
150 Spring Street -Retail -Residential (1 unit) Total Soho	100.0% 100.0% 100.0%	63.2% 100.0% 68.5%	427.73	6,000 1,000 7,000	6,000 1,000 7,000			Sandro
				194.000	194.000			
Times Square: 1540 Broadway -Retail	100.0%	100.0%	270.70	161,000	161,000	_	_	Forever 21, Planet Hollywood, Disney, Sunglass Hut, MAC Cosmetics, U.S. Polo
1535 Broadway -Retail -Theatre	100.0% 100.0% 100.0%	95.3% 100.0% 98.0%	1,086.40 13.68 404.70	45,000 62,000 107,000	45,000 62,000 107,000		-	T-Mobile, Invicta, Swatch Group USA, Levi's, Sephora Nederlander-Marquis Theatre
Total Times Square				268,000	268,000			
Upper East Side: 828-850 Madison Avenue -Retail	100.0%	94.8%	456.48	18,000	14,000	4,000	_	Gucci, Cartier, Christofle Silver Inc.
677-679 Madison Avenue -Retail -Residential (8 units)	100.0% 100.0% 100.0%	100.0% 75.0% 90.4%	501.39	8,000 5,000 13,000	8,000 5,000 13,000		_	Berluti
759-771 Madison Avenue (40 East 66th) -Residential (5 units) -Retail	100.0% 100.0% 100.0%	100.0% 66.7% 84.1%	1,108.31	12,000 11,000 23,000	12,000 11.000 23,000		_	John Varvatos, J. Crew
1131 Third Avenue Retail	100.0%	100.0%	161.80	23,000	23,000	-	-	Nike, Crunch LLC, J.Jill



			Weighted		Square Feet				
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants	
NEW YORK (Continued):									
Jpper East Side (Continued):									
Other									
-Retail - 2 buildings	100.0%	100.0%	\$	15,000	15,000	_			
-Residential (8 units)	100.0%	87.5%		7,000	7,000				
	100.0%	96.0%		22,000	22,000		<u> </u>		
Total Upper East Side				99,000	95,000	4,000	<u> </u>		
ong Island City:									
3-00 Northern Boulevard (Center Building)									
-Office	100.0%	95.5%	35.76	471,000	471,000		100,000	The City of New York, NYC Transit Authority	
helsea/Meatpacking District:									
60 Eleventh Avenue									
(ground leased through 2114)									
-Office	100.0%	100.0%	53.21	184,000	184,000	_	_	The City of New York	
85 Tenth Avenue								Google, General Services Administration,	
								Telehouse International Corp., L-3 Communications,	
-Office	49.9%	99.8%	89.39	586,000	586,000	_		Moet Hennessy USA. Inc.	
-Retail	49.9%	96.4%	78.39	43,000	43,000		205.000	IL Posto LLC, Toro NYC Restaurant, L'Atelier	
	49.9%	99.5%	88.65	629,000	629,000	_	625,000		
37 West 26th Street	1000/			14.000	14.000				
-Retail	100%	_	_	14,000	14,000				
Total Chelsea/Meatpacking District				827,000	827,000		625,000		
Ipper West Side:									
0-70 W 93rd Street									
-Residential (325 units)	49.9%	96.0%		283,000	283,000		80,000		
ribeca:									
ndependence Plaza, Tribeca									
-Residential (1,327 units)	50.1%	97.5%		1,185,000	1,185,000	_			
-Residential (1,327 drills)	50.1%	100.0%	53.50	72,000	60,000	12,000		Duane Reade, Food Emporium	
-i (etali	50.1%	97.7%	33.30	1,257,000	1,245,000	12,000	675,000	Duane Neade, 1 oou Empondin	
	30.176	91.176		1,237,000	1,243,000	12,000	073,000		
39 Greenwich Street									
-Retail	100.0%	100.0%	109.91	8,000	8,000			Sarabeth's	
Total Tribeca				1,265,000	1,253,000	12,000	675,000		
ew Jersey:									
Paramus	100.00	07.00	20.05	100.000	100.000			Manus adala Adaptista da di sa	
-Office	100.0%	87.2%	23.28	129,000	129,000			Vornado's Administrative Headquarters	
Vashington D.C.:									
040 M Street									
-Retail	100.0%	100.0%	72.87	44,000	44,000			Nike, Amazon	



			Weighted		Square Feet			
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK (Continued):						IUI Lease		· · · · · · · · · · · · · · · · · · ·
Property under Development:								
512 West 22nd Street -Office	55.0%	_	\$ —	173,000	_	173,000	\$ 89,796	
61 Ninth Avenue (ground leased through 2115)								
-Office	45.1%	_	_	147,000	_	147,000		Aetna Life Insurance Company*
-Retail	45.1% 45.1%	100.0% 100.0%	287.61 <u>287.61</u>	23.000 170,000	23,000 23,000	147,000	80,409	Starbucks
606 Broadway (19 East Houston Street)								
-Office	50.0%	_	_	23,000	_	23,000		
-Retail	50.0% 50.0%	100.0% 100.0%	669.56 669.56	11,000 34,000	3,000 3,000	8,000 31,000	51,290	HSBC*
Farley Office and Retail Building (ground and building leased through 2116)								
-Office	95.0%	_	_	730,000	_	730,000		
-Retail	95.0%	_		120,000	<u>_</u>	120.000	057.044	
	95.0%	_	_	850,000	_	850,000	257,941	
825 Seventh Avenue	50.00/			405.000		405.000		
-Office	50.0%	_	_	165,000 4,000	_	165,000		
-Retail	100.0% 51.2%	_		169,000		4,000 169,000	20,500	
Total Property under Development	31.270			1,396,000	26,000	1,370,000	499,936	
			•					
Properties to be Developed:								
57th Street (3 properties) -Office	50.0%							
-Retail	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		97.3%	\$ 76.04	21,495,000	19.858.000	1,637,000		
Vornado's Ownership Interest		97.2%	\$ 74.04	17,980,000	16,632,000	1,348,000		
New York Retail:								
Total		97.2%	\$ 232.86	2.802.000	2.648.000	154.000		
Vornado's Ownership Interest		97.3%	\$ 228.43	2,557,000	2,419,000	138,000		
New York Residential:								
Total		96.7%		1,533,000	1,533,000	_		
Vornado's Ownership Interest		96.6%		800,000	800,000	_		



			Weighted		Square Feet			
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
NEW YORK (Continued):								
ALEXANDER'S, INC.:								
New York:								
731 Lexington Avenue, Manhattan -Office	32.4%	100.0%	\$ 117.66	889,000	889,000	_	£ 500,000	Diagraphage
			•	•	·			Bloomberg
-Retail	32.4% 32.4%	99.4% 99.9%	193.81 129.04	174,000 1,063,000	174,000		350,000	Hennes & Mauritz, The Home Depot, The Container Store
	32.4%	99.9%	129.04	1,063,000	1,063,000	_	850,000	
								Burlington,
Rego Park I, Queens (4.8 acres)	32.4%	43.1%	46.93	343,000	343,000	_	_	Bed Bath & Beyond, Marshalls
3 , ( ,								
Rego Park II (adjacent to Rego Park I),								
Queens (6.6 acres)	32.4%	99.9%	44.73	609,000	609,000	_	252,544	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	00.40/	05.50/		055.000	055 000			
Residential (312 units)	32.4%	95.5%	_	255,000	255,000	_	_	
New Jersey:								
Paramus, New Jersey								
(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),								
Queens, NY (3.4 acres)	32.4%	_	_	_	_	_	_	
Total Alexander's	32.4%	91.4%	73.83	2,437,000	2,437,000		1,170,544	
Total / Hoxalidol 5	02.470	01.470	70.00	2,401,000	2,407,000		1,170,044	
Hotel Pennsylvania:								
-Hotel (1,700 Rooms)	100.0%			1,400,000	1,400,000			
Total New York		96.7%	\$ 91.27	29,667,000	27,876,000	1,791,000	\$ 12,101,412	
					, , , , , , , , , , , , , , , , , , , ,	, , ,	, ,	
Vornado's Ownership Interest		97.0%	\$ 78.09	23,527,000	22,041,000	1,486,000	\$ 8,142,708	

<sup>\*</sup> Lease not yet commenced.

<sup>(1)</sup> 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.

<sup>(2)</sup> Represents the contractual debt obligations.

Amount represents debt on land which is owned 34.8% by Vornado.

<sup>(4)</sup> Excludes US Post Office leased through 2038 (including three five-year renewal options) for which the annual escalated rent is \$12.99 PSF.

<sup>(5) 75,000</sup> square feet is leased from 666 Fifth Avenue Office Condominium.



### **OTHER**

			Weighted		Square Feet			
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
theMART:								
theMART, Chicago								Motorola Mobility (guaranteed by Google), CCC Information Services, Ogilvy Group (WPP), Publicis Groupe (Razorfish), 1871, Yelp Inc., Paypal, Inc., Allscripts Healthcare, Chicago School of Professional Psychology, Kellog
-Office	100.0%	92.4%	\$ 43.71	2,043,000	2,043,000	_		ConAgra Foods Inc., Allstate Insurance Company Steelcase, Baker, Knapp & Tubbs, Holly Hunt Ltd.,
-Showroom/Trade show	100.0%	98.1%	53.44	1,533,000	1,533,000	_		Allsteel Inc., Herman Miller Inc., Knoll Inc., Teknion LLC
-Retail	100.0%	90.6%	54.87	99,000	99,000			
	100.0%	94.8%	48.18	3,675,000	3,675,000	_	\$ 675,000	
Other (2 properties)	50.0%	89.5%	43.90	19,000	19,000	_	32,227	
Total theMART		94.7%	\$ 48.16	3,694,000	3,694,000		\$ 707,227	
Vornado's Ownership Interest		94.7%	\$ 48.16	3,685,000	3,685,000	_	\$ 691,113	
555 California Street:								
555 California Street	70.0%	99.3%	\$ 76.99	1,508,000	1,508,000	-	\$ 558,914	Bank of America, Dodge & Cox, Goldman Sachs & Co., Jones Day, Kirkland & Ellis LLP, Morgan Stanley & Co. Inc., McKinsey & Company Inc., UBS Financial Services, KKR Financial, Microsoft Corporation, Fenwick & West LLP, Sidley Austin
315 Montgomery Street	70.0%	100.0%	66.70	235,000	235,000	-	-	Bank of America, Regus, Ripple Labs Inc., LendingHome Corporation Blue Shield
345 Montgomery Street	70.0%	-	_	78,000	-	78,000	-	
Total 555 California Street		99.4%	\$ 75.60	1,821,000	1,743,000	78,000	\$ 558,914	
Vornado's Ownership Interest		99.4%	\$ 75.60	1,275,000	1,220,000	55,000	\$ 391,240	

Lease not yet commenced.

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



### **REAL ESTATE FUND**

			Weighted		Square Feet			
Property	Fund % Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	In Service	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(2)</sup>	Major Tenants
VORNADO CAPITAL PARTNERS REAL ESTATE FUND:			_					
New York, NY:								
Lucida, 86th Street and Lexington Avenue (ground leased through 2082)								Barnes & Noble, Hennes & Mauritz,
- Retail	100.0%	100.0%	\$ 243.36	96,000	96,000	_		Sephora, Bank of America
- Residential (39 units)	100.0%	94.9%		59,000	59,000			
	100.0%			155,000	155,000		\$ 144,130	
Crowne Plaza Times Square (0.64 acres owned in fee; 0.18 acres ground leased through 2187 and 0.05 acres ground leased through 2035)								
- Hotel (795 Rooms)								
- Retail - Office	75.3%	87.7% 100.0%	164.29	47,000	47,000	_		New York Sports Club, Krispy Kreme*
- Опісе	75.3%	97.6%	47.25	196,000	196,000		050.050	American Management Association, Open Jar
	75.3%	97.6%	69.89	243,000	243,000	_	256,956	
501 Broadway	100.0%	100.0%	265.08	9,000	9,000	_	22,872	Capital One Financial Corporation
Miami, FL:								
1100 Lincoln Road								
- Retail	100.0%	66.8%	181.48	51,000	51,000	_		Banana Republic
- Theatre	100.0%	100.0%	41.88	79,000	79,000			Regal Cinema
	100.0%	86.9%	83.84	130,000	130,000	_	82,750	
Total Real Estate Fund	88.8%	94.9%		537,000	537,000	_	\$ 506,708	
Vornado's Ownership Interest	28.6%	95.6%		154,000	154,000	<u> </u>	\$ 110,810	

Lease not yet commenced.

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



### **OTHER**

					Square	Feet			
			Weighted		In Serv	ice			
Property	% Ownership	% Occupancy	Average Annual Rent PSF <sup>(1)</sup>	Total Property	Owned by Company	Owned by Tenant <sup>(2)</sup>	Under Development or Not Available for Lease	Encumbrances (non-GAAP) (in thousands) <sup>(3)</sup>	Major Tenants
OTHER:									
Virginia:									
Rosslyn Plaza									
Office - 4 buildings	46.2%	61.6%	\$ 45.74	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	\$ 39,683	
Fashion Centre Mall	7.5%	99.6%	49.06	868,000	868,000	_	-	410,000	Macy's, Nordstrom
Washington Tower	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%	31.22	677,000	228,000	443,000	6,000	_	JCPenney, Costco, Dick's Sporting Goods, Nordstrom Rack, 24 Hour Fitness
Maryland:									
Annapolis (ground and building leased through 2042)	100.0%	100.0%	8.99	128,000	128,000	_	_	-	The Home Depot
Total Other		92.5%	\$ 40.66	2,832,000	2,079,000	443,000	310,000	\$ 489,683	
Vornado's Ownership Interest		92.8%	\$ 31.57	1,333,000	744,000	443,000	146,000	\$ 53,754	

Weighted average annual rent per square foot excludes ground rent, storage rent, garages and residential. Owned by tenant on land leased from the company.

 <sup>(1)</sup> Weighted average annual rent per square for
 (2) Owned by tenant on land leased from the cor
 (3) Represents the contractual debt obligations.



### INVESTOR INFORMATION

**Executive Officers:** 

Steven Roth Chairman of the Board and Chief Executive Officer

David R. Greenbaum President - New York Division

Michael J. Franco Executive Vice President - Chief Investment Officer

Joseph Macnow Executive Vice President - Chief Financial Officer and Chief Administrative Officer

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Research Coverage - Equity and Debt 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 DEFINITIONS AND NON-GAAP RECONCILIATIONS



### 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 depreciable real estate assets, real estate impairment losses, depreciation and amortization expense from real estate assets and other specified 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.

In accordance with the NAREIT December 2018 restated definition of FFO, we have elected to exclude the mark-to-market adjustments of marketable equity securities from the calculation of FFO. Our FFO for the nine months ended September 30, 2018 has been adjusted to exclude the \$26,602,000, or \$0.13 per share, decrease in fair value of marketable equity securities previously reported.

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.

Net Asset Value ("NAV") - Net Asset Value ("NAV") means the sum of the estimated values of our New York Office, New York Retail, New York Residential, theMART and 555 California Street assets, calculated by dividing pro forma 2018 cash basis NOI by the Cap Rate applicable to each such asset category, plus other estimated asset values minus liabilities as of December 31, 2018. "NAV per share" means NAV divided by the number of Vornado common shares outstanding on an Operating Partnership basis as of December 31, 2018. NAV may not be equivalent to enterprise value, and NAV per share may not be equivalent to an appropriate trading price for Vornado common shares. NAV per share is not a representation or guarantee that our common shares will or should trade at this amount, that a shareholder would be able to realize this amount in selling our common shares, that a third party would offer the estimated NAV per share in an offer to purchase all or substantially all of our common shares, that we would actually receive the estimated NAV for the applicable asset or assets upon a sale of those assets, or that a shareholder would receive distributions per share equal to the estimated NAV per share upon sale or liquidation. Investors should not rely on the NAV per share as being an accurate measure of the fair market value of our common shares.

The terms NAV and NAV per share may not be comparable to similar measures presented by others. We consider NAV and NAV per share to be useful supplemental measures which assist both management and investors in estimating the fair value of Vornado. The calculation of NAV and NAV per share involves significant estimates and can be made using various methods. Each individual investor should review our calculation of NAV and NAV per share and make its own determination as to whether the methodology, assumptions and estimates we used to arrive at NAV and NAV per share are appropriate, or whether such investor should use an alternative methodology to perform its own calculations.



NON-GAAP RECONCILIATIONS
RECONCILIATION OF NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS TO NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS, AS ADJUSTED

				ree Months E	nde	d	For the Ye		
		 Decem	ber 3		Se	eptember 30,	 Decem	ber 3	
		 2018		2017		2018	 2018		2017
Net income attributable to common shareholders	(A)	\$ 100,494	\$	27,319	\$	190,645	\$ 384,832	\$	162,017
Per diluted share		\$ 0.53	\$	0.14	\$	1.00	\$ 2.01	\$	0.85
Certain (income) expense items that impact net income attributable to common shareholders:									
After-tax net gain on sale of 220 Central Park South condominium units		\$ (67,336)	\$	_	\$	_	\$ (67,336)	\$	_
After-tax purchase price fair value adjustment related to the increase in ownership of the Farley joint venture		(27,289)		_		_	(27,289)		_
Our share of loss (income) from real estate fund investments (excluding our \$4,252 share of One Park Avenue potential additional transfer taxes)		24,366		(529)		748	23,749		10,804
Real estate impairment losses (including our share of partially owned entities)		12,000		145		_	12,000		7,692
Decrease in fair value of marketable securities resulting from a new GAAP accounting standard effective January 1, 2018 (including our share of partially owned entities)		3,733		_		7,966	30,335		_
(Income) loss from discontinued operations and sold properties (primarily related to JBG SMITH Properties operating results and transaction costs through July 17, 2017 spin-off and 666 Fifth Avenue Office Condominium operations through August 3, 2018 sale)		(242)		1,664		512	5,727		43,615
Tax expense related to the reduction of our taxable REIT subsidiaries deferred tax assets		_		34,800		_	_		34,800
Net gains on sale of real estate (including our share of partially owned entities)		_		(585)		(3,350)	(28,104)		(21,574
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)		_
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		_
Impairment loss on investment in PREIT		_		_		_	_		44,465
Net gain resulting from UE operating partnership unit issuances		_		_		_	_		(21,100
Net gain on repayment of our Suffolk Downs JV debt investments		_		_		_	_		(11,373
Other		1,996		5,515		2,737	4,046		9,900
		(52,772)		41,010		(132,727)	(150,223)		97,229
Noncontrolling interests' share of above adjustments		3,268		(2,539)		8,242	9,285		(6,382
Total of certain (income) expense items that impact net income attributable to common shareholders	(B)	\$ (49,504)	\$	38,471	\$	(124,485)	\$ (140,938)	\$	90,847
Per diluted share (non-GAAP)		\$ (0.26)	\$	0.20	\$	(0.65)	\$ (0.74)	\$	0.47
Net income attributable to common shareholders, as adjusted (non-GAAP)	(A+B)	\$ 50,990	\$	65,790	\$	66,160	\$ 243,894	\$	252,864
Per diluted share (non-GAAP)		\$ 0.27	\$	0.34	\$	0.35	\$ 1.27	\$	1.32



NON-GAAP RECONCILIATIONS
RECONCILIATION OF NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS TO FFO ATTRIBUTABLE TO COMMON SHAREHOLDERS PLUS ASSUMED CONVERSIONS

(unaudited and in thousands, except per share amounts)									
				ree Months E	nded		For the Ye	ar En	ded
		Decem	ber 3		Se	ptember 30,	 Decemi	ber 31	
		2018		2017		2018	2018		2017
Reconciliation of our net income attributable to common shareholders to FFO attributable to common shareholders plus assumed conversions (non-GAAP):									
Net income attributable to common shareholders	(A) <u>\$</u>	100,494	\$	27,319	\$	190,645	\$ 384,832	\$	162,017
Per diluted share	\$	0.53	\$	0.14	\$	1.00	\$ 2.01	\$	0.85
FFO adjustments:									
Depreciation and amortization of real property	\$	104,067	\$	106,017	\$	105,015	\$ 413,091	\$	467,966
Net gains on sale of real estate		_		_		(133,961)	(158,138)		(3,797)
Real estate impairment losses		12,000		_		_	12,000		_
Decrease in fair value of marketable securities		1,652		_		7,699	26,453		_
After-tax purchase price fair value adjustment on depreciable real estate		(27,289)		_		_	(27,289)		_
Proportionate share of adjustments to equity in net income of partially owned entities to arrive at FFO:									
Depreciation and amortization of real property		24,309		28,247		23,688	101,591		137,000
Net gains on sale of real estate		_		(585)		(3,421)	(3,998)		(17,777)
Real estate impairment losses		_		145		_	_		7,692
Decrease in fair value of marketable securities		2,081		_		267	3,882		_
		116,820		133,824		(713)	367,592		591,084
Noncontrolling interests' share of above adjustments		(7,229)		(8,010)		40	(22,746)		(36,420)
FFO adjustments, net	(B) \$	109,591	\$	125,814	\$	(673)	\$ 344,846	\$	554,664
FFO attributable to common shareholders (non-GAAP)	(A+B) \$	210,085	\$	153,133	\$	189,972	\$ 729,678	\$	716,681
Convertible preferred share dividends		15		18		15	62		77
Earnings allocated to Out-Performance Plan units		_		_		_	_		1,047
FFO attributable to common shareholders plus assumed conversions (non-GAAP)		210,100		153,151		189,987	729,740		717,805
Add back of FFO allocated to noncontrolling interests of the Operating Partnership		13,483		9,839		12,181	46,653		45,184
FFO - OP Basis (non-GAAP)	\$	223,583	\$	162,990	\$	202,168	\$ 776,393	\$	762,989
FFO per diluted share (non-GAAP)	\$	1.10	\$	0.80	\$	0.99	\$ 3.82	\$	3.75



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)									
		For t	ree Months E		For the Ye	ar En	ded		
		Decem	iber 3		Sep	tember 30,	Decem	ber 31	,
		2018		2017		2018	2018		2017
FFO attributable to common shareholders plus assumed conversions (non-GAAP)	(A)	\$ 210,100	\$	153,151	\$	189,987	\$ 729,740	\$	717,805
Per diluted share (non-GAAP)	:	\$ 1.10	\$	0.80	\$	0.99	\$ 3.82	\$	3.75
Certain (income) expense items that impact FFO attributable to common shareholders plus assumed conversions:									
After-tax net gain on sale of 220 Central Park South condominium units		\$ (67,336)	\$	_	\$	_	\$ (67,336)	\$	_
Our share of FFO from real estate fund investments (excluding our \$4,252 share of One Park Avenue potential additional transfer taxes)		24,366		(529)		748	23,749		10,804
FFO from discontinued operations and sold properties (primarily related to JBG SMITH Properties operating results and transaction costs through July 17, 2017 spin-off and 666 Fifth Avenue Office Condominium operations through August 3, 2018 sale)		(242)		(4,006)		(818)	(2,834)		(73,240
Tax expense related to the reduction of our taxable REIT subsidiaries deferred tax assets		_		34,800		_	_		34,800
Net gain on the repayment of our loan investment in 666 Fifth Avenue Office Condominium		_		_		(7,308)	(7,308)		_
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		_
Impairment loss on investment in PREIT		_		_		_	_		44,465
Net gain resulting from UE operating partnership unit issuances		_		_		_	_		(21,100
Net gain on repayment of our Suffolk Downs JV debt investments		_		_		_	_		(11,373
Other		1,987		5,951		2,737	4,033		10,328
		(41,225)		36,216		(4,641)	(11,707)		(5,316
Noncontrolling interests' share of above adjustments		2,552		(2,242)		289	727		534
Total of certain (income) expense items that impact FFO attributable to common shareholders plus assumed conversions, net	(B)	\$ (38,673)	\$	33,974	\$	(4,352)	\$ (10,980)	\$	(4,782
Per diluted share (non-GAAP)		\$ (0.20)	\$	0.18	\$	(0.02)	\$ (0.06)	\$	(0.02
FFO attributable to common shareholders plus assumed conversions, as adjusted (non-GAAP)	(A+B)	\$ 171,427	\$	187,125	\$	185,635	\$ 718,760	\$	713,023
Per diluted share (non-GAAP)		\$ 0.90	\$	0.98	\$	0.97	\$ 3.76	\$	3.73



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

			or the	e Thr	ee Months E	nded		For the Ye	oar Fi	ndad
		De	cemb	er 31	١,	Sei	ptember 30,	 Decem		
		2018			2017		2018	2018		2017
FFO attributable to common shareholders plus assumed conversions (non-GAAP)	(A)	\$ 210,1	00	\$	153,151	\$	189,987	\$ 729,740	\$	717,805
Adjustments to arrive at FAD (non-GAAP):										
Recurring tenant improvements, leasing commissions and other capital expenditures		(64,3	03)		(62,636)		(44,918)	(225,831)		(276,997)
Adjustments to FFO excluding FFO attributable to discontinued operations and sold properties		(40,9	33)		37,986		(3,717)	(8,767)		130,668
Amortization of acquired below-market leases, net		(6,6	56)		(10,908)		(9,937)	(36,826)		(45,043)
Amortization of debt issuance costs		7,4	93		9,236		8,348	31,979		32,790
Stock-based compensation expense		5,5	32		5,510		5,546	31,722		32,829
Straight-line rentals		2,6	74		(8,040)		(157)	(7,605)		(45,792)
Non real estate depreciation		1,4	90		1,630		1,463	6,052		7,334
Noncontrolling interests' share of above adjustments		5,8	30		1,685		2,693	13,226		10,202
FAD adjustments, net	(B)	(88,9	23)		(25,537)		(40,679)	(196,050)		(154,009)
FAD (non-GAAP)	(A+B)	\$ 121,1	77	\$	127,614	\$	149,308	\$ 533,690	\$	563,796
FAD payout ratio (1)	_	100	.0%		89.6%		80.8%	90.3%		88.8%

<sup>(1)</sup> FAD payout ratios on a quarterly basis are not necessarily indicative of amounts for the full year due to fluctuation in timing of cash based expenditures, the commencement of new leases and the seasonality of our operations.



# NON-GAAP RECONCILIATIONS RECONCILIATION OF NET INCOME TO NET OPERATING INCOME AT SHARE AND NET OPERATING INCOME AT SHARE - CASH BASIS

	For	the Three Months Er	nded	For the Ye	ar Endad
	Decem	nber 31,	September 30,	Decemb	
	2018	2017	2018	2018	2017
Net income	\$ 97,821	\$ 53,551	\$ 219,162	\$ 422,603	\$ 264,128
Deduct:					
Income from partially owned entities	(3,090)	(9,622)	(7,206)	(9,149)	(15,200)
Loss (income) from real estate fund investments	51,258	(4,889)	190	89,231	(3,240)
Interest and other investment income, net	(7,656)	(8,294)	(2,893)	(17,057)	(30,861)
Net gains on disposition of wholly owned and partially owned assets	(81,203)	_	(141,269)	(246,031)	(501)
Purchase price fair value adjustment	(44,060)	_	_	(44,060)	_
(Income) loss from discontinued operations	(257)	(1,273)	(61)	(638)	13,228
NOI attributable to noncontrolling interests in consolidated subsidiaries	(19,771)	(16,533)	(16,943)	(71,186)	(65,311)
Add:					
Depreciation and amortization expense	112,869	114,166	113,169	446,570	429,389
General and administrative expense	32,934	34,916	31,977	141,871	150,782
Transaction related costs, impairment loss and other	14,637	703	2,510	31,320	1,776
Our share of NOI from partially owned entities	60,205	69,175	60,094	253,564	269,164
Interest and debt expense	83,175	93,073	88,951	347,949	345,654
Income tax expense	32,669	38,884	1,943	37,633	42,375
NOI at share	329,531	363,857	349,624	1,382,620	1,401,383
Non-cash adjustments for straight-line rents, amortization of acquired below-market leases, net and other	(5,532)	(21,579)	(8,743)	(44,704)	(86,842)
NOI at share - cash basis	\$ 323,999	\$ 342,278	\$ 340,881	\$ 1,337,916	\$ 1,314,541



# 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 December 31,

	Total Re	ver	nues	Operating Expenses NOI No					Non-cash Adjustments <sup>(1)</sup>				NOI - cash basis					
	2018		2017		2018		2017		2018	2017		2018		2017		2018		2017
New York	\$ 466,554	\$	462,597	\$	206,696	\$	195,421	\$	259,858	\$ 267,176	\$	(4,219)	\$	(17,761)	\$	255,639	\$	249,415
Other	76,863		73,629		47,624		29,590		29,239	44,039		1,572		160		30,811		44,199
Consolidated total	543,417		536,226		254,320		225,011	Т	289,097	311,215		(2,647)		(17,601)		286,450		293,614
Noncontrolling interests' share in consolidated subsidiaries	(30,436)		(26,594)		(10,665)		(10,061)		(19,771)	(16,533)		96		315		(19,675)		(16,218)
Our share of partially owned entities	98,363		114,677		38,158		45,502		60,205	69,175		(2,981)		(4,293)		57,224		64,882
Vornado's share	\$ 611,344	\$	624,309	\$	281,813	\$	260,452	\$	329,531	\$ 363,857	\$	(5,532)	\$	(21,579)	\$	323,999	\$	342,278

### For the Three Months Ended September 30, 2018

	Total Revenues	Op	erating Expenses	NOI		Non-cash Adjustments <sup>(1)</sup>	NOI - cash basis
New York	\$ 462,446	\$	200,949	\$	261,497	\$ (8,937)	\$ 252,560
Other	79,602	2	34,626		44,976	429	45,405
Consolidated total	542,048	3	235,575		306,473	(8,508)	297,965
Noncontrolling interests' share in consolidated subsidiaries	(27,403	3)	(10,460)		(16,943)	112	(16,831)
Our share of partially owned entities	97,960	)	37,866		60,094	(347)	59,747
Vornado's share	\$ 612,605	\$	262,981	\$	349,624	\$ (8,743)	\$ 340,881

### For the Year Ended December 31,

Total Re	venues	Operating	Expenses	NO	OI	Non-cash Ac	ljustments <sup>(1)</sup>	NOI - ca	sh basis
2018	2017	2018	2017	2018	2017	2018	2017	2018	2017
\$ 1,836,036	\$ 1,779,307	\$ 806,464	\$ 756,670	\$ 1,029,572	\$ 1,022,637	\$ (38,856)	\$ (71,229)	\$ 990,716	\$ 951,408
327,684	304,819	157,014	129,926	170,670	174,893	1,823	(5,800)	172,493	169,093
2,163,720	2,084,126	963,478	886,596	1,200,242	1,197,530	(37,033)	(77,029)	1,163,209	1,120,501
(111,982)	(104,568)	(40,796)	(39,257)	(71,186)	(65,311)	902	6,117	(70,284)	(59,194)
418,819	444,043	165,255	174,879	253,564	269,164	(8,573)	(15,930)	244,991	253,234
\$ 2,470,557	\$ 2,423,601	\$ 1,087,937	\$ 1,022,218	\$ 1,382,620	\$ 1,401,383	\$ (44,704)	\$ (86,842)	\$ 1,337,916	\$ 1,314,541
	2018 \$ 1,836,036 327,684 2,163,720 (111,982) 418,819	\$ 1,836,036 \$ 1,779,307 327,684 304,819 2,163,720 2,084,126 (111,982) (104,568) 418,819 444,043	2018         2017         2018           \$ 1,836,036         \$ 1,779,307         \$ 806,464           327,684         304,819         157,014           2,163,720         2,084,126         963,478           (111,982)         (104,568)         (40,796)           418,819         444,043         165,255	2018         2017         2018         2017           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670           327,684         304,819         157,014         129,926           2,163,720         2,084,126         963,478         886,596           (111,982)         (104,568)         (40,796)         (39,257)           418,819         444,043         165,255         174,879	2018         2017         2018         2017         2018           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670         \$ 1,029,572           327,684         304,819         157,014         129,926         170,670           2,163,720         2,084,126         963,478         886,596         1,200,242           (111,982)         (104,568)         (40,796)         (39,257)         (71,186)           418,819         444,043         165,255         174,879         253,564	2018         2017         2018         2017         2018         2017           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670         \$ 1,029,572         \$ 1,022,637           \$ 327,684         \$ 304,819         \$ 157,014         \$ 129,926         \$ 170,670         \$ 174,893           \$ 2,163,720         \$ 2,084,126         \$ 963,478         \$ 886,596         \$ 1,200,242         \$ 1,197,530           \$ (111,982)         \$ (104,568)         \$ (40,796)         \$ (39,257)         \$ (71,186)         \$ (65,311)           \$ 418,819         \$ 444,043         \$ 165,255         \$ 174,879         \$ 253,564         \$ 269,164	2018         2017         2018         2017         2018         2017         2018           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670         \$ 1,029,572         \$ 1,022,637         \$ (38,856)           327,684         304,819         157,014         129,926         170,670         174,893         1,823           2,163,720         2,084,126         963,478         886,596         1,200,242         1,197,530         (37,033)           (111,982)         (104,568)         (40,796)         (39,257)         (71,186)         (65,311)         902           418,819         444,043         165,255         174,879         253,564         269,164         (8,573)	2018         2017         2018         2017         2018         2017         2018         2017         2018         2017           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670         \$ 1,029,572         \$ 1,022,637         \$ (38,856)         \$ (71,229)           \$ 327,684         \$ 304,819         \$ 157,014         \$ 129,926         \$ 170,670         \$ 174,893         \$ 1,823         \$ (5,800)           \$ 2,163,720         \$ 2,084,126         \$ 963,478         \$ 886,596         \$ 1,200,242         \$ 1,197,530         \$ (37,033)         \$ (77,029)           \$ (111,982)         \$ (104,568)         \$ (40,796)         \$ (39,257)         \$ (71,186)         \$ (65,311)         \$ 902         \$ 6,117           \$ 418,819         \$ 444,043         \$ 165,255         \$ 174,879         \$ 253,564         \$ 269,164         \$ (8,573)         \$ (15,930)	2018         2017         2018         2017         2018         2017         2018         2017         2018         2017         2018           \$ 1,836,036         \$ 1,779,307         \$ 806,464         \$ 756,670         \$ 1,029,572         \$ 1,022,637         \$ (38,856)         \$ (71,229)         \$ 990,716           327,684         304,819         157,014         129,926         170,670         174,893         1,823         (5,800)         172,493           2,163,720         2,084,126         963,478         886,596         1,200,242         1,197,530         (37,033)         (77,029)         1,163,209           (111,982)         (104,568)         (40,796)         (39,257)         (71,186)         (65,311)         902         6,117         (70,284)           418,819         444,043         165,255         174,879         253,564         269,164         (8,573)         (15,930)         244,991

<sup>(1)</sup> Includes adjustments for straight-line rents, amortization of acquired below-market leases, net and other.



RECONCILIATION OF NOI AT SHARE TO SAME STORE NOI AT SHARE FOR THE THREE MONTHS ENDED DECEMBER 31, 2018 COMPARED TO DECEMBER 31, 2017

NOI at share for the three months ended December 31, 2018 \$  Less NOI at share from:	329,531	\$ 295,199	\$				
Less NOL at share from:	(337)		Ψ	10,981	\$	14,005	\$ 9,346
2000 1101 01 01 01 01 01 01	(337)						
Acquisitions	(001)	(337)		_		_	_
Dispositions	19	19		_		_	_
Development properties	(12,623)	(12,637)		_		14	_
Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net	(96)	368		(464)		_	_
Other non-operating income, net	(10,412)	 (1,066)					 (9,346)
Same store NOI at share for the three months ended December 31, 2018	306,082	\$ 281,546	\$	10,517	\$	14,019	\$ 
NOI at share for the three months ended December 31, 2017 \$	363,857	\$ 304,228	\$	24,249	\$	12,003	\$ 23,377
Less NOI at share from:							
Acquisitions	2	2		_		_	_
Dispositions	(23)	(23)		_		_	_
Development properties	(12,789)	(12,789)		_		_	_
Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net	(984)	(984)		_		_	_
Other non-operating income, net	(23,377)	_		_		_	(23,377)
Same store NOI at share for the three months ended December 31, 2017	326,686	\$ 290,434	\$	24,249	\$	12,003	\$ 
(Decrease) increase in same store NOI at share for the three months ended December 31, 2018 compared to December 31, 2017 \$	(20,604)	\$ (8,888)	\$	(13,732)	\$	2,016	\$ 
% (decrease) increase in same store NOI at share	(6.3)%	(3.1)%		(56.6)%	)	16.8%	

<sup>(1)</sup> Excluding Hotel Pennsylvania, same store NOI at share decreased by 3.0%.
(2) The three months ended December 31, 2018 includes an additional \$12,814 real estate tax expense accrual due to an increase in the tax-assessed value of theMART.



RECONCILIATION OF NOI AT SHARE TO SAME STORE NOI AT SHARE FOR THE YEAR ENDED DECEMBER 31, 2018 COMPARED TO DECEMBER 31, 2017

		Total	New York		heMART			California Street	
NOI at share for the year ended December 31, 2018	\$	1,382,620	\$ 1,176,990	\$	90,929	\$	54,691	\$	60,010
Less NOI at share from:									
Acquisitions		(1,534)	(1,385)		(149)		_		_
Dispositions		(351)	(351)		_		_		_
Development properties		(38,477)	(38,477)		_		_		_
Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net		2,301	3,025		(724)		_		_
Other non-operating income, net		(62,732)	(2,722)						(60,010)
Same store NOI at share for the year ended December 31, 2018	\$	1,281,827	\$ 1,137,080	\$	90,056	\$	54,691	\$	
NOI at share for the year ended December 31, 2017	\$	1,401,383	\$ 1,166,065	\$	102,339	\$	47,588	\$	85,391
Less NOI at share from:									
Acquisitions		36	(164)		200		_		_
Dispositions		(1,532)	(1,532)		_		_		_
Development properties		(37,307)	(37,307)		_		_		_
Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net		(2,976)	(2,957)		(19)		_		_
Other non-operating income, net		(88,017)	(2,626)		_		_		(85,391)
Same store NOI at share for the year ended December 31, 2017	\$	1,271,587	\$ 1,121,479	\$	102,520	\$	47,588	\$	
Increase (decrease) in same store NOI at share for the year ended December 31, 2018 compared to December 31, 2017	\$	10,240	\$ 15,601	\$	(12,464)	\$	7,103	\$	_
% increase (decrease) in same store NOI at share	_	0.8%	1.4%	1)	(12.2)%	2)	14.9%		<u>—%</u>

 <sup>(1)</sup> Excluding Hotel Pennsylvania, same store NOI at share increased by 1.5%.
 (2) The year ended December 31, 2018 includes an additional \$15,148 real estate tax expense accrual due to an increase in the tax-assessed value of theMART.



RECONCILIATION OF NOI AT SHARE TO SAME STORE NOI AT SHARE FOR THE THREE MONTHS ENDED DECEMBER 31, 2018 COMPARED TO SEPTEMBER 30, 2018

	Total		Total		New York		theMART		555 California Street		Other	
NOI at share for the three months ended December 31, 2018	\$	329,531	\$	295,199	\$	10,981	\$	14,005	\$ 9,346			
Less NOI at share from:												
Dispositions		19		19		_		_	_			
Development properties		(12,623)		(12,637)		_		14	_			
Lease termination income, net of write-offs of straight-line receivables and acquired below-market leases, net		(96)		368		(464)		_	_			
Other non-operating income, net		(10,412)		(1,066)		_		_	(9,346)			
Same store NOI at share for the three months ended December 31, 2018	\$	306,419	\$	281,883	\$	10,517	\$	14,019	\$ _			
NOI at share for the three months ended September 30, 2018	\$	349,624	\$	297,328	\$	25,257	\$	13,515	\$ 13,524			
Less NOI at share from:												
Development properties		(13,488)		(13,474)		_		(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		(14,103)		(579)					 (13,524)			
Same store NOI at share for the three months ended September 30, 2018	\$	323,614	\$	285,075	\$	25,038	\$	13,501	\$ 			
(Decrease) increase in same store NOI at share for the three months ended December 31, 2018 compared to September 30, 2018	\$	(17,195)	\$	(3,192)	\$	(14,521)	\$	518	\$ 			
% (decrease) increase in same store NOI at share		(5.3)%		(1.1)% <sup>(</sup>	1)	(58.0)% <sup>(3</sup>	2)	3.8%	—%			

Excluding Hotel Pennsylvania, same store NOI at share decreased by 1.7%.

The three months ended December 31, 2018 includes an additional \$12,124 real estate tax expense accrual due to an increase in the tax-assessed value of theMART.



RECONCILIATION OF NOI AT SHARE - CASH BASIS TO SAME STORE NOI AT SHARE - CASH BASIS FOR THE THREE MONTHS ENDED DECEMBER 31, 2018 COMPARED TO DECEMBER 31, 2017

	Total	ı	New York		heMART	555	555 California Street		Other
NOI at share - cash basis for the three months ended December 31, 2018	\$ 323,999	\$	288,933	\$	12,758	\$	13,784	\$	8,524
Less NOI at share - cash basis from:									
Acquisitions	(336)		(336)		_		_		_
Dispositions	19		19		_		_		_
Development properties	(14,628)		(14,642)		_		14		_
Lease termination income	(563)		(43)		(520)		_		_
Other non-operating income, net	 (9,590)		(1,066)				<u> </u>		(8,524)
Same store NOI at share - cash basis for the three months ended December 31, 2018	\$ 298,901	\$	272,865	\$	12,238	\$	13,798	\$	
NOI at share - cash basis for the three months ended December 31, 2017	\$ 342,278	\$	282,787	\$	24,396	\$	11,916	\$	23,179
Less NOI at share - cash basis from:									
Acquisitions	2		2		_		_		_
Dispositions	76		76		_		_		_
Development properties	(13,677)		(13,677)		_		_		_
Lease termination income	(1,393)		(1,393)		_		_		_
Other non-operating income, net	(23,180)		(1)		_		_		(23,179)
Same store NOI at share - cash basis for the three months ended December 31, 2017	\$ 304,106	\$	267,794	\$	24,396	\$	11,916	\$	
(Decrease) increase in same store NOI at share - cash basis for the three months ended December 31, 2018 compared to December 31, 2017	\$ (5,205)	\$	5,071	\$	(12,158)	\$	1,882	\$	
% (decrease) increase in same store NOI at share - cash basis	(1.7)%	_	1.9%	)	(49.8)%	2)	15.8%		<u>—%</u>

<sup>(1)</sup> Excluding Hotel Pennsylvania, same store NOI at share - cash basis increased by 2.1%.

<sup>(2)</sup> The three months ended December 31, 2018 includes an additional \$12,814 real estate tax expense accrual due to an increase in the tax-assessed value of theMART.



RECONCILIATION OF NOI AT SHARE - CASH BASIS TO SAME STORE NOI AT SHARE - CASH BASIS FOR THE YEAR ENDED DECEMBER 31, 2018 COMPARED TO DECEMBER 31, 2017

		Total	New York		heMART	555 California Street		Other	
NOI at share - cash basis for the year ended December 31, 2018	\$	1,337,916	\$ 1,131,563	\$	94,070	\$	53,488	\$	58,795
Less NOI at share - cash basis from:									
Acquisitions		(1,235)	(1,086)		(149)		_		_
Dispositions		(287)	(287)		_		_		_
Development properties		(42,264)	(42,264)		_		_		_
Lease termination income		(2,105)	(1,163)		(942)		_		_
Other non-operating income, net		(61,515)	(2,720)		_		_		(58,795)
Same store NOI at share - cash basis for the year ended December 31, 2018	\$	1,230,510	\$ 1,084,043	\$	92,979	\$	53,488	\$	
NOI at share - cash basis for the year ended December 31, 2017	\$	1,314,541	\$ 1,086,863	\$	99,242	\$	45,281	\$	83,155
Less NOI at share - cash basis from:									
Acquisitions		137	(63)		200		_		_
Dispositions		(1,078)	(1,078)		_		_		_
Development properties		(38,211)	(38,211)		_		_		_
Lease termination income		(4,958)	(4,927)		(31)		_		_
Other non-operating income, net		(86,501)	 (3,346)				<u> </u>		(83,155)
Same store NOI at share - cash basis for the year ended December 31, 2017	\$	1,183,930	\$ 1,039,238	\$	99,411	\$	45,281	\$	
Increase (decrease) in same store NOI at share - cash basis for the year ended December 31, 2018 compared to December 31, 2017	\$	46,580	\$ 44,805	\$	(6,432)	\$	8,207	\$	_
% increase (decrease) in same store NOI at share - cash basis	_	3.9%	 4.3%	1)	(6.5)%	e)	18.1%		<u>—%</u>

<sup>(1)</sup> Excluding Hotel Pennsylvania, same store NOI at share - cash basis increased by 4.5%.

<sup>(2)</sup> The year ended December 31, 2018 includes an additional \$15,148 real estate tax expense accrual due to an increase in the tax-assessed value of theMART.



RECONCILIATION OF NOI AT SHARE - CASH BASIS TO SAME STORE NOI AT SHARE - CASH BASIS FOR THE THREE MONTHS ENDED DECEMBER 31, 2018 COMPARED TO SEPTEMBER 30, 2018

		Total	I	New York		heMART	555 California Street			Other
NOI at share - cash basis for the three months ended December 31, 2018	\$	323,999	\$	288,933	\$	12,758	\$	13,784	\$	8,524
Less NOI at share - cash basis from:										
Dispositions		19		19		_		_		_
Development properties		(14,628)		(14,642)		_		14		_
Lease termination income		(563)		(43)		(520)		_		_
Other non-operating income, net		(9,590)		(1,066)		_		_		(8,524)
Same store NOI at share - cash basis for the three months ended December 31, 2018	\$	299,237	\$	273,201	\$	12,238	\$	13,798	\$	
NOI at share - cash basis for the three months ended September 30, 2018  Less NOI at share - cash basis from:	\$	340,881	\$	288,203	\$	26,234	\$	13,070	\$	13,374
Development properties		(14,342)		(14,328)		_		(14)		_
Lease termination income		(318)		(58)		(260)		_		_
Other non-operating income, net		(13,954)		(580)		_		_		(13,374)
Same store NOI at share - cash basis for the three months ended September 30, 2018	\$	312,267	\$	273,237	\$	25,974	\$	13,056	\$	
(Decrease) increase in same store NOI at share - cash basis for the three months ended December 31, 2018 compared to September 30, 2018	\$	(13,030)	\$	(36)	\$	(13,736)	\$	742	\$	
% (decrease) increase in same store NOI at share - cash basis	_	(4.2)%	_	0.0%	1)	(52.9)%	(2)	5.7%	_	<u>—%</u>

<sup>(1)</sup> Excluding Hotel Pennsylvania, same store NOI at share - cash basis decreased by 0.6%.

<sup>(2)</sup> The three months ended December 31, 2018 includes an additional \$12,124 real estate tax expense accrual due to an increase in the tax-assessed value of the MART.



### RECONCILIATION OF CONSOLIDATED REVENUES TO OUR PRO RATA SHARE OF REVENUES (ANNUALIZED)

(unaudited and in thousands)

	For the Months Ended ember 31, 2018
Consolidated revenues	\$ 543,417
Noncontrolling interest adjustments	 (30,436)
Consolidated revenues at our share (non-GAAP)	512,981
Unconsolidated revenues at our share (non-GAAP)	 98,363
Our pro rata share of revenues (non-GAAP)	\$ 611,344
Our pro rata share of revenues (annualized) (non-GAAP)	\$ 2,445,376

### RECONCILIATION OF CONSOLIDATED DEBT, NET TO CONTRACTUAL DEBT (NON-GAAP)

		As of December 31, 2018									
	C	onsolidated Debt, net	Deferred Financing Costs, Net and Other			Contractual et (non-GAAP)					
Mortgages payable	\$	8,167,798	\$	48,049	\$	8,215,847					
Senior unsecured notes		844,002		5,998		850,000					
\$750 Million unsecured term loan		744,821		5,179		750,000					
\$2.5 Billion unsecured revolving credit facilities		80,000		_		80,000					
	\$	9,836,621	\$	59,226	\$	9,895,847					



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

(unaudited and in thousands)

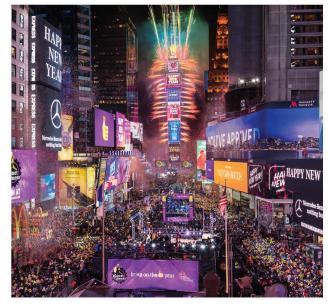
EBITDAre (i.e., EBITDA for real estate companies) is a non-GAAP financial measure established by NAREIT, which may not be comparable to EBITDA reported by other REITs that do not compute EBITDA in accordance with the NAREIT definition. The White Paper on EBITDAre approved by the Board of Governors of 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. The Company has included EBITDAre because it is a performance measure used by other REITs and therefore may provide useful information to investors in comparing Vornado's performance to that of other REITs.

	For the Three Months Ended							For the Ye	ndad		
	December 31,			31,	September 30,		December				
	2018		2017		Ŭ	2018		2018		2017	
Reconciliation of net income to EBITDAre (non-GAAP):											
Net income	\$	97,821	\$	53,551	\$	219,162	\$	422,603	\$	264,128	
Less net loss (income) attributable to noncontrolling interests in consolidated subsidiaries		21,886		(7,366)		(3,312)		53,023		(25,802)	
Net income attributable to the Operating Partnership		119,707		46,185		215,850		475,626		238,326	
EBITDAre adjustments at share:											
Depreciation and amortization (includes \$75,413 related to discontinued operations for the year ended December 31, 2017)		129,866		136,194		130,166		520,791		612,608	
Interest and debt expense (includes \$29,552 related to discontinued operations for the year ended December 31, 2017)		106,267		120,280		112,917		448,290		468,630	
Income tax expense (includes \$524 related to discontinued operations for the year ended December 31, 2017)		32,797		39,047		2,072		38,003		44,289	
Net gains on sale of depreciable real estate		_		(585)		(137,382)		(162,136)		(21,574)	
Real estate impairment losses		12,000		145		_		12,000		7,692	
EBITDAre at share (non-GAAP)		400,637		341,266		323,623		1,332,574		1,349,971	
EBITDAre attributable to noncontrolling interests in consolidated subsidiaries		(8,393)		20,352		16,192		(1,314)		75,674	
EBITDAre (non-GAAP)	\$	392,244	\$	361,618	\$	339,815	\$	1,331,260	\$	1,425,645	



### NON-GAAP RECONCILIATIONS RECONCILIATION OF EBITDARE TO EBITDARE, AS ADJUSTED

(unaudited and in thousands)					
	Fort	he Three Months E	For the Ye	ear Ended	
	Decen	nber 31,	September 30,	Decem	
	2018	2017	2018	2018	2017
EBITDAre (non-GAAP)	\$ 392,244	\$ 361,618	\$ 339,815	\$ 1,331,260	\$ 1,425,645
EBITDAre attributable to noncontrolling interests in consolidated subsidiaries	8,393	(20,352)	(16,192)	1,314	(75,674)
Certain (income) expense items that impact EBITDAre:					
Gain on sale of 220 Central Park South condominium units	(81,224)	_	_	(81,224)	_
After-tax purchase price fair value adjustment related to the increase in ownership of the Farley joint venture	(44,060)	_	_	(44,060)	_
Our share of EBITDAre from real estate fund investments (excluding our \$4,252 share of One Park Avenue potential additional transfer taxes)	24,366	(529)	748	23,749	10,804
Decrease in fair value of marketable securities (including our share of partially owned entities)	3,733	_	7,966	30,335	_
EBITDAre from discontinued operations and sold properties (primarily related to JBG SMITH Properties operating results and transaction costs through July 17, 2017 spin-off and 666 Fifth Avenue Office Condominium operations through August 3, 2018 sale)	(65)	(12,588)	(2,282)	(15,805)	(122,168)
Net gain on the repayment of our loan investment in the 666 Fifth Avenue Office Condominium	_	_	(7,308)	(7,308)	_
Our share of potential additional New York City transfer taxes based on a Tax Tribunal interpretation which Vornado is appealing	_	_	_	23,503	_
Impairment loss on investment in PREIT	_	_	_	_	44,465
Net gain resulting from UE operating partnership unit issuances	_	_	_	_	(21,100)
Net gain on repayment of our Suffolk Downs JV debt investments	_	_	_	_	(11,373)
Other	1,810	1,532	2,233	875	2,090
Total of certain (income) expense items that impact EBITDAre	(95,440)	(11,585)	1,357	(69,935)	(97,282)
EBITDAre, as adjusted (non-GAAP)	\$ 305,197	\$ 329,681	\$ 324,980	\$ 1,262,639	\$ 1,252,689











# VORNADO

REALTY TRUST

SUPPLEMENTAL OPERATING AND FINANCIAL DATA For the Quarter and Year Ended December 31, 2018