

## Investment Adviser and Consultant Contracts

Contracting Party	Investment Style	Total Assets under contract as of 09/30/18	Fiscal Year 2018 Fees Paid	Fiscal Year To Date 2019 Fees Paid <sup>1</sup>	Estimated Fees to be paid in Fiscal Year 2019
<b>Domestic Equity</b>					
AQR CAPITAL MANAGEMENT	Small Core	\$ 241,174,732	\$ 983,149	\$ 229,774	\$ 919,096
CHANNING CAPITAL MANAGEMENT	Small Value	157,100,823	934,937	197,883	791,532
EMERALD ADVISORS	Small Growth	235,075,794	1,198,226	203,323	813,292
LEVIN CAPITAL STRATEGIES	Large Core	439,797,400	1,045,818	207,685	830,740
LSV ASSET MANAGEMENT	Smid Value	371,315,515	1,817,752	441,611	1,766,444
LSV ASSET MANAGEMENT	Large Value	1,142,417,874	2,243,573	565,413	2,261,652
MATARIN CAPITAL MANAGEMENT	Small Core	34,340,893	118,074	34,680	138,720
RHUMBLINE ADVISERS	Smid Core	39,007,760	2,886	751	3,004
RHUMBLINE ADVISERS	Large Core	4,149,813,508	218,729	79,018	316,072
ROBECO BOSTON PARTNERS 130/30	Large Value	689,091,379	1,192,262	307,702	1,230,808
T. ROWE PRICE ASSOCIATES <sup>2</sup>	Large Growth	780,139,950	1,603,292	480,885	1,923,540
<b>International Equity</b>					
ACADIAN INTERNATIONAL	Large Core	984,134,119	2,932,008	742,580	2,970,320
AQR CAPITAL MANAGEMENT	Emerging	702,779,366	4,836,468	1,134,459	4,537,836
ARROWSTREET CAPITAL	Large Cap	767,529,187	530,669	286,062	1,144,248
AXIOM INTERNATIONAL	Emerging	525,478,409	4,080,574	909,782	3,639,128
BROWN CAPITAL MANAGEMENT	Large Core	62,177,153	387,354	101,760	407,040
DIMENSIONAL FUND ADVISORS	Small Cap	434,515,062	2,620,394	541,920	2,167,680
DIMENSIONAL FUND ADVISORS	Emerging Small Cap	291,629,906	2,100,973	489,315	1,957,260
JP MORGAN INTERNATIONAL	Large Core	711,620,711	1,366,362	124,968	499,872
JP MORGAN INVESTMENT MANAGEMENT	Emerging	444,083,878	3,007,017	678,413	2,713,652
LSV ASSET MANAGEMENT	Large Value	1,019,834,928	3,839,873	946,107	3,784,428
MONDRIAN INVESTMENT PARTNERS	Active	631,139,897	2,585,767	545,782	2,183,128
NORTHERN TRUST MSCI EMERGING MARKETS	Emerging	60,399,245	42,036	10,146	40,584
NORTHERN TRUST	Large Core	2,281,667,537	597,467	150,228	600,912
STRATEGIC GLOBAL ADVISORS	All Cap Core	551,087,574	1,837,717	456,958	1,827,832
STRATEGIC GLOBAL ADVISORS	Small Cap	354,653,215	975,169	507,829	2,031,316
WASATCH ADVISORS	Small Cap	478,042,668	3,278,861	789,312	3,157,248
<b>Fixed Income</b>					
ALLIANCE BERNSTEIN	Emerging Market Debt	125,648,188	0	49,019	196,076
DOLAN MCENIRY CAPITAL MANAGEMENT	Core Plus	488,293,809	733,601	209,303	837,212
DOLAN MCENIRY HIGH YIELD	Core Plus	249,159,050	1,008,880	263,024	1,052,096
FRANKLIN ADVISERS	International	817,296,206	2,811,860	668,074	2,672,296
GARCIA HAMILTON & ASSOCIATES	Core Plus	362,982,201	602,509	152,561	610,244
MACKAY SHIELDS, LLC	Core Plus	1,100,869,132	2,406,586	633,552	2,534,208
PACIFIC INVESTMENT MANAGEMENT COMPANY <sup>2</sup>	Core Plus	503,921,765	3,529,703	949,845	3,799,380

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PACIFIC INVESTMENT MANAGEMENT COMPANY <sup>2</sup>	Global Inflation Linked Bonds	788,547,634	2,348,316	557,960	2,231,840
PRUDENTIAL GLOBAL INVESTMENT MANAGEMENT	Enhanced Passive	838,410,765	1,112,471	310,208	1,240,832
PRUDENTIAL GLOBAL INVESTMENT MANAGEMENT	Emerging Market Debt	113,319,219	1,112,472	35,784	143,136
RAMIREZ ASSET MANAGEMENT	Core Plus	100,088,964	103,658	27,151	108,604
TAPLIN, CANIDA & HABACHT	Cash	1,374,391,669	720,147	223,672	894,688
TCW GROUP	International	873,198,775	2,644,316	821,364	3,285,456
<b>Real Estate</b>					
Barings R.E. Advisers LLC <sup>2</sup>	Separate Managers	427,707,240	1,619,711	396,672	1,586,688
Barings R.E. Advisers II	Separate Managers	10,151,444	28,423	19,018	76,072
Capri Capital Partners, LLC <sup>2</sup>	Separate Managers	1,029,378,175	2,508,015	511,718	2,046,872
Heitman Capital Management, LLC <sup>2</sup>	Separate Managers	1,634,653,632	5,332,116	1,199,331	4,797,324
Invesco Real Estate <sup>2</sup>	Separate Managers	744,838,945	2,362,171	636,382	2,545,528
Lincoln Property Company Realty Advisors I, Ltd. <sup>2</sup>	Separate Managers	545,543,035	2,128,003	383,527	1,534,108
Lincoln Property Company Realty Advisors Ltd. Core	Separate Managers	311,403,848	437,807	53,755	215,020
Lincoln Property Transition	Separate Managers	1,297,965	145,057	28,468	113,872
Principal Real Estate Investors <sup>2</sup>	Separate Managers	190,340,929	665,787	153,525	614,100
<b>Fund of Funds</b>					
Greenspring	Private Equity	25,060,648	0	0	0
Grosvenor	Absolute Return	331,951,199	2,296,125	594,570	2,378,280
Morgan Creek Venture Access I	Private Equity	113,220,811	284,403	0	0
Morgan Creek Partners Asia, L.P.	Private Equity	95,274,899	802,220	189,030	756,120
Union Grove Partners Access II	Private Equity	12,157,972	284,108	0	0
<b>Investment Consultants</b>					
RVK, Inc.	General consultant	NA	457,643	116,250	465,000
Stepstone Group Real Estate, LP	Real Estate consultant	NA	279,971	71,027	290,000
TorreyCove Capital Partners LLC	Private Equity consultant	NA	997,500	225,000	900,000
Albourne Partners	Absolute Return consultant	NA	415,000	100,000	400,000
Aksia, LLC	Private Debt consultant	NA	0	0	500,000
Bard Consulting <sup>3</sup>	Co-investment consultant	NA	0	0	NA
Caledon Capital Management, Inc. <sup>3</sup>	Co-investment consultant	NA	0	0	NA
ORG Portfolio Management <sup>3</sup>	Co-investment consultant	NA	0	0	NA
RCLCO Fund Advisors <sup>3</sup>	Co-investment consultant	NA	0	0	NA
Stout Risius Ross, Inc. <sup>3</sup>	Co-investment consultant	NA	0	0	NA
Torrey Cove Capital Partners <sup>3</sup>	Co-investment consultant	NA	0	98,750	NA

<sup>1</sup> Fiscal Year To Date amounts represent fees incurred through September 30, 2018

<sup>2</sup> "Estimated fees to be paid" data includes base fee estimates only. A few managers have incentive fees which are based upon performance against benchmarks. Incentive fees are calculated on a quarterly or annual basis and excluded for this estimate.

<sup>3</sup> No estimate as fees are paid on a case by case basis.

Factors that contributed to the selection of investment advisers and consultants included the experience and high quality of the firm's investment professionals, the soundness of the firm's investment philosophy and process, the strength and consistency of historical investment performance, the stability of the organization, and the strength of focus on risk management.

Disclosure in accordance with 40 ILCS 5/1-113.14(g)