

Investment Adviser and Consultant Contracts

Contracting Party	Investment Style	Total Assets under contract as of 12/31/19	Fiscal Year 2019 Fees Paid	Fiscal Year To Date 2020 Fees Paid ¹	Estimated Fees to be paid in Fiscal Year 2020
Domestic Equity					
EMERALD ADVISORS	Small Growth	\$ 215,996,451	\$ 749,795	\$ 361,012	\$ 722,024
LSV ASSET MANAGEMENT	Smid Value	347,984,780	1,566,013	741,397	1,482,794
LSV ASSET MANAGEMENT	Large Value	1,161,194,969	2,191,496	1,098,183	2,196,366
MATARIN CAPITAL MANAGEMENT	Small Core	32,639,308	125,008	62,180	124,360
RHUMBLINE ADVISERS S&P 500	Large Core	3,983,587,872	305,695	143,744	287,488
RHUMBLINE ADVISERS Multi Factor	Large Core	434,124,086	8,554	86,907	173,814
RHUMBLINE ADVISERS Equal Weight	Large Core	270,115,649	7,654	1,071	2,142
RHUMBLINE ADVISERS 1000 Value	Large Value	944,532,789	20,688	19,274	38,548
RHUMBLINE ADVISERS 1000 Smid	Mid Core	328,390,202	0	1,300	3,900
RHUMBLINE ADVISERS Mid Growth	Mid Growth	224,046,480	0	886	2,658
T. ROWE PRICE ASSOCIATES ²	Large Growth	653,533,073	1,900,148	998,862	1,997,724
International Equity					
ACADIAN INTERNATIONAL	Large Core	1,054,930,330	3,080,384	1,695,426	3,390,852
AQR CAPITAL MANAGEMENT	Emerging	655,547,270	4,081,321	1,964,296	3,928,592
ARROWSTREET CAPITAL	Large Cap	1,111,528,961	1,307,326	780,879	1,561,758
AXIOM INTERNATIONAL	Emerging	480,458,185	2,752,031	886,000	1,772,000
BROWN CAPITAL MANAGEMENT	Large Core	65,481,666	385,800	203,160	406,320
DIMENSIONAL FUND ADVISORS	Emerging Small Cap	315,967,697	1,897,888	960,330	1,920,660
GRANDEUR PEAK	Smid Growth	271,849,238	809,344	817,800	1,635,600
JP MORGAN INTERNATIONAL	Large Core	382,979,110	358,457	125,793	251,586
JP MORGAN INVESTMENT MANAGEMENT	Emerging	520,975,296	2,719,954	1,443,589	2,887,178
LSV ASSET MANAGEMENT	Large Value	1,083,010,870	3,443,438	1,766,662	3,533,324
LSV ASSET MANAGEMENT	Small Value	306,943,877	903,045	871,527	1,743,054
MONDRIAN INVESTMENT PARTNERS	Active	567,206,585	1,939,659	925,299	1,850,598
NORTHERN TRUST MSCI EMERGING MARKETS	Emerging	66,500,938	39,908	20,353	40,706
NORTHERN TRUST	Large Core	2,386,149,458	608,138	297,260	594,520
STRATEGIC GLOBAL ADVISORS	Large Cap	633,636,122	1,857,470	994,346	1,988,692
STRATEGIC GLOBAL ADVISORS	Small Cap	360,482,136	1,832,849	926,276	1,852,552
WASATCH ADVISORS	Small Cap	258,891,581	2,180,723	847,735	1,695,470
Fixed Income					
ALLIANCE BERNSTEIN	Emerging Market Debt	833,819,863	939,534	1,051,830	2,103,660
DOLAN MCENIRY CAPITAL MANAGEMENT	Core Plus	503,090,214	836,173	423,715	847,430
DOLAN MCENIRY HIGH YIELD	Core Plus	340,917,942	1,096,734	742,890	1,485,780
FRANKLIN ADVISERS	International	781,637,965	2,375,964	1,101,953	2,203,906
GARCIA HAMILTON & ASSOCIATES	Core Plus	582,480,609	699,094	397,006	794,012
MACKAY SHIELDS, LLC	Core Plus	929,371,353	2,372,958	1,095,348	2,190,696
PACIFIC INVESTMENT MANAGEMENT COMPANY ²	Core Plus	765,915,805	3,907,140	1,027,957	2,055,914

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PACIFIC INVESTMENT MANAGEMENT COMPANY ²	Global Inflation Linked Bonds	467,393,407	1,843,124	656,002	1,312,004
PRUDENTIAL GLOBAL INVESTMENT MANAGEMENT	Core Plus	1,053,610,481	1,299,109	572,873	1,145,746
PRUDENTIAL GLOBAL INVESTMENT MANAGEMENT	Emerging Market Debt	788,884,980	810,003	1,009,614	2,019,228
RAMIREZ ASSET MANAGEMENT	Core Plus	112,804,700	193,640	117,982	235,964
TAPLIN, CANIDA & HABACHT	Cash	1,430,762,990	904,934	642,121	1,284,242
TCW GROUP	International	944,380,429	3,250,018	1,735,388	3,470,776
Real Estate					
Barings R.E. Advisers LLC ²	Separate Managers	534,372,785	1,471,087	1,026,940	2,053,880
Barings R.E. Advisers II	Separate Managers	521,527	33,709	54,910	109,820
Barings Transition	Separate Managers	184,146,709	2,158,439	296,847	593,694
Heitman Capital Management, LLC ²	Separate Managers	1,687,001,478	5,306,038	2,558,605	5,117,210
Invesco Real Estate ²	Separate Managers	997,525,791	2,889,459	1,842,895	3,685,790
Invesco Transition	Separate Managers	46,966,051	2,889,460	51,235	102,470
Lincoln Property Company Realty Advisors I, Ltd. ²	Separate Managers	669,354,814	1,639,757	964,785	1,929,570
Lincoln Property Company Realty Advisors Ltd. Core	Separate Managers	258,045,839	672,646	310,051	620,102
Lincoln Property Transition	Separate Managers	148,611	23,200	0	0
Principal Real Estate Investors ²	Separate Managers	416,925,732	577,746	525,816	1,051,632
Principal Real Estate Investors Value Add	Separate Managers	7,916,725	255	16,643	33,286
Fund of Funds					
Greenspring	Private Equity	122,585,599	866,100	237,665	475,330
Grosvenor	Absolute Return	338,775,636	2,363,613	1,205,349	2,410,698
Morgan Creek Partners Asia, L.P.	Private Equity	85,341,240	724,751	354,386	708,772
Investment Consultants					
RVK, Inc.	General consultant	NA	465,000	232,500	465,000
Stepstone Group Real Estate, LP	Real Estate consultant	NA	288,370	146,316	290,000
TorreyCove Capital Partners LLC	Private Equity consultant	NA	1,101,250	475,000	900,000
Aksia, LLC	Private Debt consultant	NA	405,427	255,770	500,000
Aksia, LLC	Diversified Strategies consultant	NA	119,726	100,000	200,000
Bard Consulting ³	Co-investment consultant	NA	0	0	NA
Caledon Capital Management, Inc. ³	Co-investment consultant	NA	0	0	NA
ORG Portfolio Management ³	Co-investment consultant	NA	0	0	NA
RCLCO Fund Advisors ³	Co-investment consultant	NA	0	0	NA
Stout Risius Ross, Inc. ³	Co-investment consultant	NA	85,000	137,500	NA
Torrey Cove Capital Partners ³	Co-investment consultant	NA	0	37,500	NA

¹ Fiscal Year To Date amounts represent fees incurred through December 31, 2019

² "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.

³ 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 consistence 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)