

# CITY OF RICHMOND 457B DEFERRED

## Screens Summary (Data as of 12-31-2023)

🚫 Fund Removed from Approved List    ⚠️ Fund on Watch List

Name	Ticker	Asset Class	Trailing Performance and Risk							Management Style			Expense		ESG Metrics			
			1 Yr	3 Yr	5 Yr	10 Yr	Pass/ Fail	Std Dev 3 Yr %	Beta 3 Yr %	Tenure	Pass/ Fail	Style Box	Pass/ Fail	Exp Ratio	Pass/ Fail	Sustain. Rating	Commit. Level	Carbon Risk
			Updated	Updated	Updated													
<b>US Stock</b>																		
DFA US Core Equity 1 I	DFEOX	Large Blend	22.96	10.05	15.10	10.92	✓	17.53	-	11.85	✓	🏠	✓	0.14	✓	2	-	Medium Risk
percentile rank			56	24	39	47												
# of funds in category			1,591	1,445	1,323	996									11-30-2023	-	12-31-2022	
Vanguard FTSE Social Index Admiral	VFTAX	Large Blend Index	31.79	8.45	-	-	✓	18.56	-	8.03	✓	🏠	✖️	0.14	✓	4	2-Basic	Low Risk
percentile rank			4	64	-	-												
# of funds in category			1,591	1,445	1,323	996									11-30-2023	02-15-2022	12-31-2022	
American Funds Growth Fund of Amer R6	RGAGX	Large Growth	37.65	4.62	15.27	12.20	✓	19.92	-	30.18	✓	🏠	✓	0.30	✓	1	1-Low	Low Risk
percentile rank			51	64	60	50												
# of funds in category			1,294	1,204	1,115	882									11-30-2023	04-07-2022	12-31-2022	
State St Russell Lg Cp Val® Indx NL Cl C		Large Value	11.48	8.81	10.92	8.41	—	16.73	-	24.86	✓	🏠	✓	0.04	✓	3	-	Medium Risk
percentile rank			-	-	-	-												
# of funds in category			1,295	1,209	1,150	888									11-30-2023	-	12-31-2022	
ClearBridge Mid Cap Growth IS	LCMIX	Mid-Cap Growth	29.20	1.93	15.02	9.93	✓	22.45	-	13.34	✓	🏠	✓	0.76	✓	5	-	Low Risk
percentile rank			9	32	14	37												
# of funds in category			603	568	537	434									11-30-2023	-	12-31-2022	
Vanguard Mid-Cap Value Index Admiral	VMVAX	Mid-Cap Value	9.76	9.18	11.31	8.49	✓	18.77	-	2.45	✖️	🏠	✓	0.07	✓	4	1-Low	Medium Risk
percentile rank			77	65	55	27												
# of funds in category			421	407	386	295									11-30-2023	02-15-2022	12-31-2022	
State St Russell Sm Cap® Gr Indx NL Cl C		Small Growth	18.52	-3.63	9.04	7.02	✓	22.07	-	14.33	✓	🏠	✓	0.05	✓	3	-	Medium Risk
percentile rank			40	65	78	75												
# of funds in category			626	592	555	433									11-30-2023	-	12-31-2022	
State St Russell Sm Cp® Val Indx NL Cl C		Small Value	14.61	7.83	10.01	6.74	—	22.06	-	14.33	✓	🏠	✓	0.05	✓	2	-	Medium Risk
percentile rank			-	-	-	-												
# of funds in category			510	475	446	352									11-30-2023	-	12-31-2022	
<b>Non-US Stock</b>																		
American Funds New World R6	RNWGX	Diversified Emerging Mkts	16.22	-1.49	8.93	5.51	✓	16.09	-	24.56	✓	🏠	✓	0.57	✓	3	1-Low	Medium Risk
percentile rank			24	34	9	4												
# of funds in category			847	751	687	428									11-30-2023	02-15-2022	12-31-2022	
American Funds Intl Gr and Inc R6	RIGGX	Foreign Large Blend	15.72	2.64	8.33	4.04	✓	16.69	-	15.26	✓	🏠	✓	0.54	✓	2	1-Low	Low Risk
percentile rank			63	53	31	52												
# of funds in category			837	782	710	467									11-30-2023	02-15-2022	12-31-2022	
Vanguard International Growth Adm	VWILX	Foreign Large Growth	14.81	-7.61	10.62	7.09	✓	22.73	-	14.02	✓	🏠	✓	0.31	✓	3	-	Low Risk
percentile rank			69	92	18	10												
# of funds in category			450	423	365	255									11-30-2023	-	12-31-2022	
DFA International Value I	DFIVX	Foreign Large Value	17.79	10.51	8.84	4.15	✓	18.12	-	13.85	✓	🏠	✓	0.28	✓	1	-	Medium Risk
percentile rank			51	5	23	23												
# of funds in category			403	367	344	223									11-30-2023	-	12-31-2022	
American Funds New Perspective R6	RNPGX	Global Stock	25.01	3.17	13.90	10.10	✓	18.45	-	23.10	✓	—	✓	0.42	✓	3	2-Basic	Low Risk
percentile rank			37	32	15	11												
# of funds in category			372	339	288	197									11-30-2023	02-15-2022	12-31-2022	

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Name	Ticker	Asset Class	Trailing Performance and Risk				Management			Style		Expense			ESG Metrics			
			1 Yr	3 Yr	5 Yr	10 Yr	Pass/ Fail	Std Dev 3 Yr %	Beta 3 Yr %	Tenure	Pass/ Fail	Style Box	Pass/ Fail	Exp Ratio	Sustain. Rating	Commit. Level	Carbon Risk	
<b>Alternative</b>																		
PIMCO Commodity Real Ret Strat Instl	PCRIX	Commodities Broad Basket	-7.36	10.41	8.78	-0.61	✔	18.05	-	5.17	✔	—	—	0.99	✔	3	-	-
<i>percentile rank</i>			60	63	33	55												
<i># of funds in category</i>			114	109	104	67									06-30-2023	-	-	
Vanguard Real Estate Index Admiral	VGSLX	Real Estate	11.81	5.02	7.33	7.36	✔	21.73	-	27.65	✔	—	✔	0.12	✔	3	1-Low	Low Risk
<i>percentile rank</i>			52	62	43	44												
<i># of funds in category</i>			265	249	227	166									11-30-2023	02-15-2022	12-31-2022	
<b>Fixed Income</b>																		
PIMCO International Bond (USD-Hdg) Instl	PFORX	Global Bond	9.49	-0.99	2.04	3.45	✔	4.97	-	9.27	✔	—	—	0.63	✔	3	-	-
<i>percentile rank</i>			18	4	13	1												
<i># of funds in category</i>			114	107	101	63									11-30-2023	-	-	
🟡 PIMCO High Yield Instl	PHYX	High Yield Bond	12.75	1.53	4.85	4.21	✔	8.62	-	4.44	✔	—	—	0.57	✔	-	-	-
<i>percentile rank</i>			36	60	43	24												
<i># of funds in category</i>			706	652	619	465												
BlackRock Inflation Protected Bond K	BPLBX	Inflation-Protected Bond	3.77	-0.94	3.32	2.27	✔	7.29	-	6.88	✔	—	—	0.51	✔	3	-	-
<i>percentile rank</i>			55	47	20	25												
<i># of funds in category</i>			234	221	214	152									11-30-2023	-	-	
Baird Aggregate Bond Inst	BAGIX	Intermediate-Term Bond	6.43	-3.14	1.56	2.25	✔	7.38	-	23.27	✔	📊	—	0.30	✔	3	1-Low	-
<i>percentile rank</i>			20	31	18	9												
<i># of funds in category</i>			566	510	457	329									11-30-2023	02-15-2022	-	
PIMCO Income Instl	PIMIX	Multisector Bond	9.32	1.12	3.40	4.44	✔	6.26	-	16.77	✔	—	—	0.62	✔	4	-	-
<i>percentile rank</i>			31	25	38	1												
<i># of funds in category</i>			371	335	284	177									11-30-2023	-	-	
Lincoln Stable Value Account -L7NGPA		Stable Value	-	-	-	-	—	-	-	40.69	✔	—	—	-	-	-	-	-
<i>percentile rank</i>			-	-	-	-												
<i># of funds in category</i>			75	-	-	-												
Federated Hermes Govt Ultrashort R6	FGULX	Ultrashort Bond	5.13	1.85	1.82	-	✔	0.86	-	26.49	✔	—	—	0.24	✔	-	-	-
<i>percentile rank</i>			79	65	77	-												
<i># of funds in category</i>			245	216	195	116												
<b>Target Date</b>																		
Vanguard Target Retirement 2020 Fund	VTWNX	Target Date	12.51	1.47	6.61	5.52	✔	10.04	-	10.86	✔	—	✔	0.08	✔	3	1-Low	-
<i>percentile rank</i>			38	48	40	19												
<i># of funds in category</i>			182	158	143	74									11-30-2023	02-15-2022	-	
Vanguard Target Retirement 2025 Fund	VTVX	Target Date	14.55	2.03	7.56	6.10	✔	11.60	-	10.86	✔	—	✔	0.08	✔	3	1-Low	Low Risk
<i>percentile rank</i>			11	31	28	10												
<i># of funds in category</i>			278	248	216	126									11-30-2023	02-15-2022	12-31-2022	
Vanguard Target Retirement 2030 Fund	VTHRX	Target Date	16.03	2.66	8.37	6.58	✔	12.65	-	10.86	✔	—	✔	0.08	✔	3	1-Low	Low Risk
<i>percentile rank</i>			14	36	39	20												
<i># of funds in category</i>			273	247	213	133									11-30-2023	02-15-2022	12-31-2022	

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			1 Yr	3 Yr	5 Yr	10 Yr	Pass/ Fail	Std Dev 3 Yr %	Beta 3 Yr %	Tenure	Pass/ Fail	Style Box	Pass/ Fail	Exp Ratio	Pass/ Fail	Sustain. Rating	Commit. Level	Carbon Risk		
															Updated	Updated	Updated			
Vanguard Target Retirement 2035 Fund	VTHX	Target Date	17.14	3.33	9.17	7.06	✓	13.48	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			35	45	49	30														
<i># of funds in category</i>			273	236	209	123												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2040 Fund	VFORX	Target Date	18.34	4.02	9.99	7.52	✓	14.30	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			47	57	49	33														
<i># of funds in category</i>			264	236	207	127												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2045 Fund	VTIVX	Target Date	19.48	4.68	10.76	7.91	✓	15.16	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			46	48	39	26														
<i># of funds in category</i>			267	237	211	123												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2050 Fund	VFIFX	Target Date	20.17	4.91	10.93	7.99	✓	15.53	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			45	41	40	23														
<i># of funds in category</i>			266	236	210	129												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2055 Fund	VFFVX	Target Date	20.16	4.92	10.92	7.97	✓	15.53	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			49	40	43	25														
<i># of funds in category</i>			262	232	208	109												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2060 Fund	VTTSX	Target Date	20.18	4.92	10.92	7.97	✓	15.52	—	10.86	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			54	44	49	1														
<i># of funds in category</i>			257	224	190	10												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2065 Fund	VLXVX	Target Date	20.15	4.95	10.91	—	✓	15.52	—	6.47	✓	—	✓	0.08	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			63	45	85	—														
<i># of funds in category</i>			229	152	11	—												11-30-2023	02-15-2022	12-31-2022
Vanguard Target Retirement 2070 Fund	VSVNX	Target Date	20.24	—	—	—	—	—	—	1.51	✗	—	✓	0.08	✓	3	—	Low Risk		
<i>percentile rank</i>			58	—	—	—														
<i># of funds in category</i>			229	152	11	—												11-30-2023	—	12-31-2022
Vanguard Target Retirement Income Fund	VTINX	Target Date	10.74	0.56	4.83	4.09	✓	8.48	—	10.86	✓	—	✓	0.08	✓	3	1-Low	—		
<i>percentile rank</i>			48	42	44	26														
<i># of funds in category</i>			201	183	160	98												11-30-2023	02-15-2022	—
<b>Balanced</b>																				
Vanguard LifeStrategy Cnsvr Gr Inv	VSCGX	Target Risk	12.48	0.46	5.52	4.77	✓	10.09	—	1.85	✗	—	✓	0.12	✓	3	1-Low	—		
<i>percentile rank</i>			11	76	47	21														
<i># of funds in category</i>			528	506	469	346												11-30-2023	07-19-2023	—
Vanguard LifeStrategy Growth Inv	VASGX	Target Risk	18.55	3.97	9.83	7.36	✓	14.41	—	1.85	✗	—	✓	0.14	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			22	55	32	24														
<i># of funds in category</i>			366	350	324	250												11-30-2023	07-19-2023	12-31-2022
Vanguard LifeStrategy Income Inv	VASIX	Target Risk	9.48	-1.34	3.27	3.36	✓	8.18	—	1.85	✗	—	✓	0.11	✓	4	1-Low	—		
<i>percentile rank</i>			24	87	62	37														
<i># of funds in category</i>			179	169	153	117												11-30-2023	07-19-2023	—
Vanguard LifeStrategy Mod Gr Inv Shrs	VSMGX	Target Risk	15.49	2.21	7.68	6.09	✓	12.21	—	1.85	✗	—	✓	0.13	✓	3	1-Low	Low Risk		
<i>percentile rank</i>			30	72	61	47														
<i># of funds in category</i>			905	850	795	591												11-30-2023	07-19-2023	12-31-2022

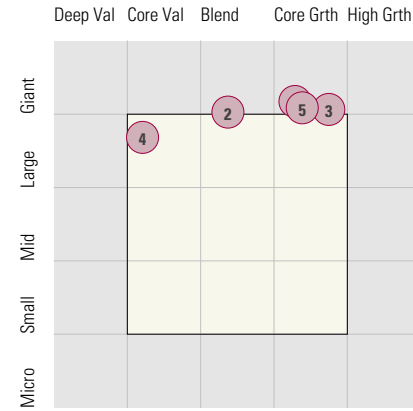
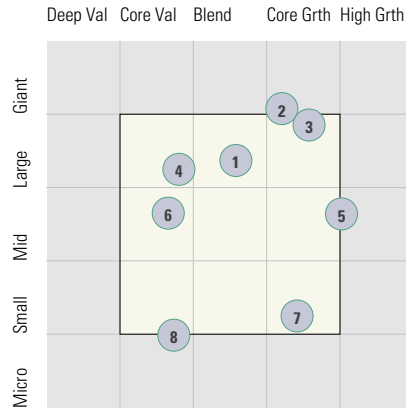
# CITY OF RICHMOND 457B DEFERRED

## Style Analysis (Data as of 12-31-2023)

### Style Analysis

Morningstar Style Box US Stock

Morningstar Style Box Non-US Stock



● US Stock Funds			Super Sectors %			Asset Allocation %			
	Category		Cyclical	Defensive	Sensitive	Cash	US Stock	Foreign	Avg Mkt Cap M\$
1	DFA US Core Equity 1 I	Large Blend	29.01	19.39	51.59	0.56	98.51	0.93	84.52
2	Vanguard FTSE Social Index Admiral	Large Blend Index	29.84	19.66	50.49	0.57	98.28	1.15	261.21
3	American Funds Growth Fund of Amer R6	Large Growth	28.69	16.71	54.61	6.31	82.96	10.21	136.67
4	State St Russell Lg Cp Val® Indx NL CI C	Large Value	35.74	27.21	37.05	0.31	98.68	1.00	69.75
5	ClearBridge Mid Cap Growth IS	Mid-Cap Growth	25.66	20.35	53.99	2.60	94.30	3.10	21.39
6	Vanguard Mid-Cap Value Index Admiral	Mid-Cap Value	42.70	26.97	30.33	0.16	98.41	1.43	25.28
7	State St Russell Sm Cap® Gr Indx NL CI C	Small Growth	22.04	28.61	49.35	0.26	97.86	1.88	3.01
8	State St Russell Sm Cp® Val Indx NL CI C	Small Value	53.03	16.01	30.97	0.45	97.61	1.94	2.08

● Non-US Stock Funds			Super Sectors %			Regional Exposure %			Market Maturity %		
	Category		Cyclical	Defensive	Sensitive	Americas	Greater Asia	Greater Europe	Developed	EM%	Avg Mkt Cap M\$
1	American Funds New World R6	Diversified Emerging Mkts	38.31	22.24	39.44	35.96	39.10	24.94	57.94	42.06	60.60
2	American Funds Intl Gr and Inc R6	Foreign Large Blend	35.54	24.92	39.53	15.01	27.74	57.25	86.52	13.48	48.53
3	Vanguard International Growth Adm	Foreign Large Growth	33.48	23.16	43.35	23.74	29.19	47.08	79.91	20.09	54.71
4	DFA International Value I	Foreign Large Value	55.72	11.76	32.52	11.32	30.04	58.64	99.83	0.17	31.74
5	American Funds New Perspective R6	Global Stock	29.33	24.49	46.18	59.28	10.42	30.29	96.07	3.93	117.31

● Fixed Income Funds			Super Sectors %				Other Stats		Credit Quality %		
	Category		US Govt Debt	Mtg	US Credit	Non US	Avg Eff Duration	Inv Grade	Below Inv Grade	NR/NA	
1	PIMCO International Bond (USD-Hdg) Instl	Global Bond	43.73	6.71	3.44	0.00	5.91	97.21	2.79	0.00	
2	PIMCO High Yield Instl	High Yield Bond	12.13	0.00	75.62	0.00	3.62	19.01	80.99	0.00	
3	BlackRock Inflation Protected Bond K	Inflation-Protected Bond	72.41	4.83	2.88	0.00	6.08	97.25	0.08	2.67	
4	Baird Aggregate Bond Inst	Intermediate-Term Bond	22.55	25.51	45.75	0.00	6.15	99.90	0.10	0.00	
5	PIMCO Income Instl	Multisector Bond	39.78	12.74	8.62	0.00	4.74	82.84	17.16	0.00	
6	Lincoln Stable Value Account -L7NGPA	Stable Value	-	-	-	0.00	-	0.00	0.00	-	
7	Federated Hermes Govt Ultrashort R6	Ultrashort Bond	3.96	68.84	0.00	0.00	0.57	100.00	0.00	0.00	

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## Target Date Analysis (Data as of 12-31-2023)

### Target Date Allocation

● Stocks ● Cash ● Bonds ● Other



### Target Date Portfolio Data

#### Asset Allocation %

	Total Stock	US Stock	Non-US Stock	Total Bond	Infl Prot Bond	HY Bond	Cash	Other	Avg Mkt Cap \$M
Vanguard Target Retirement 2020 Fund	39.11	23.44	15.67	58.49	15.34	0.22	2.35	0.04	79.33
Vanguard Target Retirement 2025 Fund	52.55	31.53	21.02	45.14	8.37	0.19	2.27	0.05	79.42
Vanguard Target Retirement 2030 Fund	61.64	37.24	24.40	36.29	0.00	0.17	2.03	0.04	79.98
Vanguard Target Retirement 2035 Fund	68.96	42.13	26.83	28.84	0.00	0.13	2.15	0.05	80.90
Vanguard Target Retirement 2040 Fund	76.25	46.58	29.67	21.79	0.00	0.10	1.90	0.05	80.91
Vanguard Target Retirement 2045 Fund	83.26	50.88	32.38	14.53	0.00	0.07	2.16	0.06	80.93
Vanguard Target Retirement 2050 Fund	88.46	53.23	35.23	9.48	0.00	0.04	1.99	0.07	79.66
Vanguard Target Retirement 2055 Fund	88.38	53.10	35.28	9.58	0.00	0.04	1.96	0.07	79.53
Vanguard Target Retirement 2060 Fund	88.36	53.05	35.31	9.52	0.00	0.04	2.08	0.07	79.48
Vanguard Target Retirement 2065 Fund	88.23	53.00	35.23	9.47	0.00	0.04	2.23	0.07	79.52
Vanguard Target Retirement 2070 Fund	88.52	53.38	35.14	9.88	0.00	0.04	1.54	0.07	79.83
Vanguard Target Retirement Income Fund	29.21	17.50	11.71	68.26	18.43	0.25	2.49	0.04	79.29