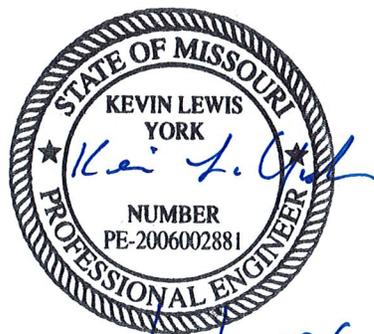


Retreat At Bailey Farms 2nd Plat With Fire Flow At Maximum Day Demand

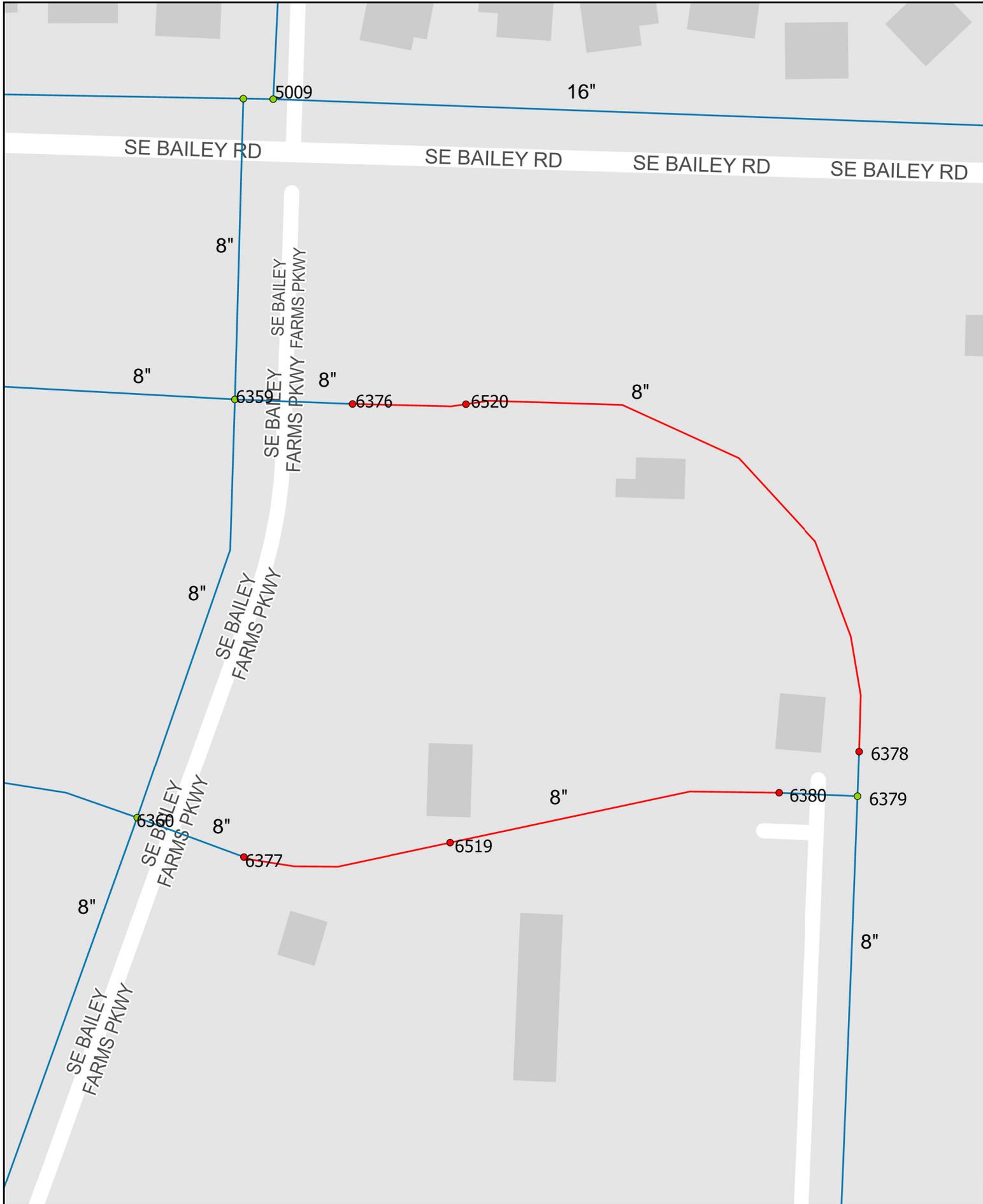
	ID	Static Demand (gpm)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (gpm)	Residual Pressure (psi)
1	<input type="checkbox"/> 6376	0.00	72.62	1,201.61	1,000.00	70.42
2	<input type="checkbox"/> 6377	0.00	74.79	1,201.60	1,000.00	72.22
3	<input type="checkbox"/> 6378	0.00	70.89	1,201.60	1,000.00	68.20
4	<input type="checkbox"/> 6380	0.00	71.76	1,201.60	1,000.00	69.02
5	<input type="checkbox"/> 6519	11.15	73.49	1,201.60	1,000.00	70.69
6	<input type="checkbox"/> 6520	9.02	71.76	1,201.61	1,000.00	69.32



Retreat At Bailey Farms 2nd Plat With No Fire Flow At Peak Hour Demand

		ID	Static Demand (gpm)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (gpm)	Residual Pressure (psi)
1	<input type="checkbox"/>	6376	0.00	65.54	1,185.25	0.00	65.54
2	<input type="checkbox"/>	6377	0.00	67.68	1,185.19	0.00	67.68
3	<input type="checkbox"/>	6378	0.00	63.75	1,185.12	0.00	63.75
4	<input type="checkbox"/>	6380	0.00	64.61	1,185.11	0.00	64.61
5	<input type="checkbox"/>	6519	274.28	66.32	1,185.07	0.00	66.32
6	<input type="checkbox"/>	6520	259.21	64.61	1,185.12	0.00	64.61

Water Demand and Fire Flow Requirements						
Node 6520		9.0	gpm Max Day Demand for 17 houses			
		259.2	gpm Peak Hour Demand for 17 houses			
Node 6519		11.2	gpm Max Day Demand for 21 houses			
		274.3	gpm Peak Hour Demand for 21 houses			
Average day demand (gpm) based on 2.78 people/dwelling unit with 125 gallons/person ÷ 1440						
Maximum day water demand (gpm) = 2.2 X average day demand						
Peak hour demand = 2 X maximum day demand						
Add 12 gpm per house to peak hour demand for lawn sprinklers						
All nodes connected to proposed water mains		1000.0	gpm for fire flow			
Maximum day demand with fire flow and peak hour demand without fire flow were modeled with three pumps running in the South Pressure Zone						



5009

16"

SE BAILEY RD

SE BAILEY RD

SE BAILEY RD

SE BAILEY RD

8"

SE BAILEY FARMS PKWY

8"

8"

8"

6376

6520

8"

8"

SE BAILEY FARMS PKWY

6377

8"

6377

6519

8"

6380

6379

8"

6378

SE BAILEY FARMS PKWY

8"

SE BAILEY FARMS PKWY

8"