

Reunion At Blackwell With Fire Flow At Maximum Day Demand

		ID	Base Demand (gpm)	Base Pressure (psi)	Fire Demand (gpm)	Combined Demand (gpm)	Residual Pressure (psi)
1	☐	8312	50.40	80.44	0.00	50.40	65.78
2	☐	8316	50.40	80.01	0.00	50.40	64.37
3	☐	9570	0.00	80.44	1,250.00	1,250.00	61.96
4	☐	9571	0.00	79.57	1,250.00	1,250.00	61.14
5	☐	8304	0.00	74.41	0.00	0.00	65.07
6	☐	8310	0.00	81.33	0.00	0.00	70.81



08/24/2023

Reunion At Blackwel With No Fire Flow At Peak Hour Demand

		ID	Base Demand (gpm)	Base Pressure (psi)	Fire Demand (gpm)	Combined Demand (gpm)	Residual Pressure (psi)
1	☐	8312	100.80	67.86	0.00	100.80	67.86
2	☐	8316	100.80	67.42	0.00	100.80	67.42
3	☐	9570	0.00	67.86	0.00	0.00	67.86
4	☐	9571	0.00	66.98	0.00	0.00	66.98
5	☐	8304	0.00	61.93	0.00	0.00	61.93
6	☐	8310	0.00	68.81	0.00	0.00	68.81

Water Demand and Fire Flow Requirements										
Nodes										
Demand nodes										
8316, 8312		Each node will supply half of the future demand including 77 houses and 122 multi-family units								
		50.4	gpm max day demand for each node							
		100.8	gpm peak hour demand for each node							
Fire flow nodes										
9570, 9571		Fire flow is 2500 gpm for each building divided between two hydrants or 1250 gpm per hydrant								
		Nodes 9570 and 9571 will be used to calculate fire flow residual pressures at max day demand								

