

PRELIMINARY PRESSURE SEWER - PIPE SIZING AND BRANCH ANALYSIS

Harrington Industrial Park

Prepared By:
Jason M. Miller / Freemire &
Associates, Inc.

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Zone Number	Connects to Zone	Number of Pumps in Zone	Accum Pumps in Zone	Gals/day per Pump	Max Flow Per Pump (gpm)	Max Sim Ops	Max Flow (GPM)	Pipe Size (inches)	Max Velocity (FPS)	Length of Main this Zone	Friction Loss Factor (ft/100 ft)	Friction Loss This Zone	Accum Fric Loss (feet)	Max Main Elevation	Minimum Pump Elevation	Static Head (feet)	Total Dynamic Head (ft)
This spreadsheet was calculated using pipe diameters for: SDR11HDPE											Friction loss calculations were based on a Constant for inside roughness "C" of: 150						
1.00	2.00	2	2	250	9.46	2	18.93	1.50	3.20	850.00	2.67	22.68	85.51	38.00	0.00	38.00	123.51
2.00	3.00	2	4	250	10.47	3	29.91	2.00	3.24	680.00	2.10	14.28	62.83	38.00	0.00	38.00	100.83
3.00	3.00	3	7	250	11.11	3	31.38	2.00	3.39	2,116.00	2.29	48.55	48.55	38.00	0.00	38.00	86.55