

WILLOWBEND NORTH ESTATES

DRAINAGE PLAN CALCULATIONS

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2 in/hr	I100 in/hr	Q2 cfs	Q100 cfs	Inlet Size ft	Pipe Size in	Min Slope %	COMMENTS
A	4.80		0.57	0.79	20	15	3.33	7.37	9.1	27.9	15	30	0.50%	100 yr design, escape route over roadway to RR r/w
B	0.60		0.57	0.79	15	15	3.83	7.37	1.3	3.5	10			
A + B		5.4	0.57	0.79	20	15	3.33	7.37	10.25	31.44		30	0.50%	100 yr design, escape route over roadway to RR r/w
C	4.90		0.57	0.79	20	15	3.33	7.37	9.3	28.5	15	30	0.50%	100 yr design, escape route over roadway to RR r/w
D	0.50		0.57	0.79	15	15	3.83	7.37	1.1	2.9	10			
C + D		5.4	0.57	0.79	20	15	3.33	7.37	10.25	31.44		30	0.50%	100 yr design, escape route over roadway to RR r/w