

Computed _____ Date _____

Checked _____ Date _____

Route _____
 Section _____
 County _____

Station		Length (m)	Drainage Area A (ha)		Runoff Coefficient C	A x C		Flow Time (min)		Rainfall Intensity I (mm/h)	Total Runoff 0.00278CIA = Q (m³/s)	Diameter Pipe (mm)	Capacity Fill (m³/s)	Velocity (m/s)		Inert Elev.		Manhole Invert Drop	Slope of Drain (m/m)
From	To		Increment	Total		Increment	Total	To Upper End	In Section					Flowing Full	Design Flow	Upper End	Lower End		
1	2	7.3	0.05		0.4	0.020													
			0.04	0.09	0.9	0.036	0.056	10		132	0.020	300	0.10	1.7	1.5	100.00	99.93		0.01
2	MH1	1.0	0.05		0.4	0.020													
			0.04	0.18	0.9	0.036	0.112	10.2		132	0.041	300	0.10	1.7	1.5	99.93	99.92		0.01
MH1	MH2	43.0		0.18			0.112	10.2		132	0.041	300	0.12	2.0	1.8	99.92	99.40		0.012
3	MH2	1.0	0.02 0.06	0.08	0.9 0.4	0.018 0.024	0.042	11.2		127	0.015	300	0.10	1.7	1.5	99.48	99.47		0.01
MH2	MH3	22.0		0.26			0.154	11.2		127	0.054	300	0.12	2.0	1.8	99.40	99.14		0.012
4	5	7.3	0.12		0.4	0.048													
			0.05	0.17	0.9	0.045	0.093	10		132	0.034	300	0.08	1.2	1.1	99.24	99.20		0.005
5	MH3	9.0	0.13		0.4	0.052													
			0.05	0.35	0.9	0.045	0.190	10.1		132	0.070	300	0.10	1.4	1.4	99.20	99.14		0.007
MH3	MH4	35.0		0.61			0.437	11.4		127	0.154	375	0.23	2.1	2.0	99.06	98.64		0.012
6	7	7.3	0.04		0.9	0.036				126	0.012	300	0.08	1.2	0.8	98.80	98.76		0.005
7	MH4	1.0	0.02		0.9	0.018													
			0.10	0.12	0.4	0.040	0.058	11.5		126	0.020	300	0.08	1.2	1.0	98.76	98.75		0.005
MH4	Outlet	24.5		0.73			0.495	11.7		126	0.173	450	0.24	1.6	1.5	98.56	98.44		0.005

STORM DRAIN COMPUTATION SHEET

(Example Problem)

Figure 36-16C