



GATEWAY

On Call. On Time. On Target.

100 McMorris Road
Pittsburgh, Pennsylvania 15205
Phone: 412-921-4030
Facsimile: 412-921-9960

Date: February 2020
Project: Fountain Sycamore Storm Separation
Job No: C-5709-1801
By: JTD

Design Storm: 25
Rainfall Intensity: 7.0 (Tc = 5 min)
Penn DOT IDF Curve: Region 3

Sub-area Runoff Calculations

Receiving Structure	Drainage Area (AC)	Impervious Area (AC)	Impervious 'C' Value	Impervious Runoff (CFS)	Pervious Area (AC)	Pervious 'C' Value	Pervious Runoff (CFS)	Total Runoff (CFS)
EX Catch Basin (Top of Hill)	8.25	0.63	0.85	3.75	7.62	0.29	15.47	19.22



GATEWAY

On Call. On Time. On Target.

100 McMorris Road
 Pittsburgh, Pennsylvania 15205
 Phone: 412-921-4030
 Facsimile: 412-921-9960

Date: February 2020
 Project: Fountain Sycamore Storm Separation
 Job No: C-5709-1801
 By: JTD

PIPE SIZE WORKSHEET

Structure	Structure	Q (cfs)	Q (cfs), grate	Q (cfs), pipe	Pipe Slope (ft/ft)	Pipe Size (in)	Pipe Type	Q (cfs) capacity	Mannings n	A (sf)	R (ft.)	V (ft./s)	
From	To	in											
EX Catch Basin (Top of Hill)	EX MH 818-1599	0.00	19.22	19.22	0.1094	10	VCP	6.28	0.015	0.545	0.208	35.23	UPSIZE
EX MH 818-1599	Outfall	19.22	0.00	19.22	0.0103	18	SLCPP	11.55	0.012	1.767	0.375	10.87	UPSIZE