

SMMA

1000 Massachusetts Ave.
Cambridge, MA 02138
Phone: 617.547.5400
Fax: 617.507.7885

61 Waverly St, Ashland MA
Residences at Ashland
SMMA Job No. 24142
Last Updated: 2/11/2026
Calc by: KIC
Check by: WWP

Peak Discharge Rate Summary

Design Point	2-year		10-year		100-year	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
DP-1 12" RCP in Waverly St	0.11	0.11	0.23	0.23	0.42	1.57 *
DP-2 Wetland	0.00	0.00	0.01	0.00	0.43	0.41
DP-3 Existing culvert under Nikkie Terrace	0.00	0.00	0.00	0.00	0.04	0.03
DP-4 Sheet flow onto Waverly Street	0.00	0.00	0.08	0.08	2.33	1.20
DP-5 Existing drainage system in Union Street	0.00	0.00	0.00	0.00	0.03	0.04 **

*The 1.15 cfs increase to the peak discharge rate for the DP-1 100-year, 24-hour storm in post-development conditions will not increase the risk of off-site flooding. The post-development peak discharge rate for all on-site and off-site contributing drainage areas to DP-1 is 1.57 cfs, which is 62.3% of the full flow capacity of 2.52 cfs. Additionally, the post-development peak discharge rate does not exceed the pre-development peak rate for the 100-year, 24-hour storm event evaluated for the entire project site (0.07 cfs site -wide reduction).

**The 0.01 cfs increase to the peak discharge rate for the DP-5 100-year, 24-hour storm in post-development conditions will not increase the risk of off-site flooding. There is a 0.001 ac-ft decrease in the volume of runoff that discharges in the DP-5 100-year, 24-hour storm post-development condition. Additionally, the post-development peak discharge rate does not exceed the pre-development peak rate for the 100-year, 24-hour storm event evaluated for the entire project site (0.07 cfs site -wide reduction).

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Runoff Volumes Summary [ac-ft]

Design	Point	2-year (3.34")		10-year (5.23")		100-year (8.22")	
		Existing	Proposed	Existing	Proposed	Existing	Proposed
DP-1		0.008	0.195	0.016	0.410	0.030	0.880
DP-2		0.000	0.000	0.004	0.001	0.127	0.338
DP-3		0.000	0.000	0.000	0.000	0.011	0.009
DP-4		0.000	0.001	0.053	0.035	0.431	0.174
DP-5		0.000	0.000	0.000	0.001	0.009	0.008
Total**		0.008	0.196	0.073	0.447	0.608	1.409