POSTDEVELOPMENT HYDROLOGIC FLOW PATHS

Watershed #	Total Area (Acres)	Roof Top (Acres)	Pavement (Acres)	Lawn Area (Acres) B	Lawn Area (Acres) D	Gravel (Acres)	Forest (Acres)
1	0.287		0.129		0.158		
2	0.402		0.115		0.287		
3	0.523		0.460		0.063		
4	0.356		0.017	0.157		0.182	
5	2.200		0.361	1.418	0.262	0.146	0.013
6	0.438			0.355			0.083
7	0.222			0.222			
8	0.192		0.116	0.076			
9	0.218		0.173		0.045		
10	0.517		0.476		0.041		
13	0.747		0.303		0.444		
14	0.137		0.117		0.020		
15	0.105		0.097		0.008		
16	0.152		0.089		0.063		
17	0.757		0.304	0.352		0.101	
18	0.431		0.050	0.345		0.036	
19	0.452			0.391		0.061	
20	0.571	0.571					
21	0.629	0.629					
22	0.422		0.257	0.151		0.014	
TOTAL	9.758						

(B) DENOTES HYDROLOGIC SOIL TYPE "B" HAPLIC UDARENTS
(D) DENOTES HYDROLOGIC SOIL TYPE "D" LAMOINE

PREDEVELOPMENT WATERSHED LEGEND

- SUBCATCHMENT BOUNDARY
- Ⓒ FLOW PATH
- 111' SF SHEET FLOW
- 43' SCF SHALLOW CONCENTRATED FLOW
- ⑥ SUBCATCHMENT NUMBER

POST DEVELOPMENT LAND COVER

WATERSHED #	TOTAL LENGTH (FEET)	SEGMENT A-B	SEGMENT B-C	SEGMENT C-D
1	264'	125' SF 104.5 - 97.5	70' SCF 97.5 - 94.5	69' SCF 94.0 - 93.0
2	209'	80' SF 106.3 - 102.0	149' SCF 101.5 - 96.7	
3	145'	60' SF 113.9 - 109.9	85' SCF 109.4 - 106.0	
4	75'	75' SF 116.0 - 114.0	175' SCF 114.0 - 111.5	
5	275'	100' SF 121.0 - 120.0	65' SCF 120.0 - 119.0	110' SCF 119.0 - 91.1
6	285'	100' SF 121.0 - 120.0	65' SCF 120.0 - 113.0	320' SCF 113.0 - 97.0
7	259'	85' SF 133.0 - 124.5	174' SCF 124.5 - 120.0	
8	392'	85' SF 134.0 - 129.0	68' SCF 129.0 - 126.0	239' SCF 126.0 - 117.0
9	290'	75' SF 128.5 - 125.5	215' SCF 125.5 - 117.0	
10	614'	41' SF 117.5 - 116.2	573' SCF 116.2 - 93.0	
13	135'	90' SF 106.5 - 96.5	45' SCF 96.9 - 94.2	
14	240'	100' SF 109.5 - 105.8	140' SCF 105.8 - 98.0	
15	175'	95' SF 113.5 - 110.9	80' SCF 110.9 - 109.0	
16	95'	20' SF 113.2 - 111.0	32' SCF 111.0 - 110.0	43' SCF 110.0 - 109.0
17	110'	110' SF 112.9 - 111.7	105' SCF 111.7 - 107.5	
18	265'	100' SF 121.0 - 120.0	55' SCF 120.0 - 119.0	110' SCF 119.0 - 112.0
19	145'	100' SF 121.0 - 120.0	45' SCF 120.0 - 117.0	
20	Direct Entry 3 min.	N/A	N/A	N/A
21	Direct Entry 3 min.	N/A	N/A	N/A
22	180'	100' SF 126.3 - 121.3	80' SCF 121.3 - 119.5	

HIGH INTENSITY SOIL LEGENDS

SYMBOL	HYDROLOGIC SOIL GROUP	SERIES AND PHASE
LaB	D	Lamoine gravelly fine sandy loam, 1 to 8 percent slopes, filled
UbB	N/A	Urban Land
UdB	B	Haplic Udarents, 1 to 8 percent slopes.
UdC	B	Haplic Udarents, 8 to 15 percent slopes.
UdD	B	Haplic Udarents, 15 to 30 percent slopes.
UdE	B	Haplic Udarents, 30 to 50 percent slopes.

400' FROM INLET TO WALNUT STREET.
480' TO TOP OF DRAINAGE DIVIDE.

POINT OF INTEREST #1

POINT OF INTEREST #2

POINT OF INTEREST #3

SUBAREA 5 DISCHARGES AS GUTTER FLOW AND CONTINUES 100 FT. TO A CURB INLET. SUBAREA 5 DEPICTS 2 HYDROLOGIC FLOW PATHS.

APPROXIMATE LIMIT OF SOIL INVESTIGATION

SUBAREA 6 IS BROKEN AT THE DRAINAGE SWALE. IT IS ONLY INTENDED TO ANALYZE FLOWS FROM THE SCHOOL SITE, NOT ALL FLOWS TRIBUTARY TO THE CULVERT.

SUBAREA 7 IS THE FLOW FROM THE BERM AND THE REAR YARD OF A PORTION ON HARBORVIEW.

380' TO INT. 418 TO CB IN OTHER SYSTEM

HOMES & DRIVES

EASTERN PROMENADE

NORTH STREET

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

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STATE OF MAINE
WILLIAM G. HOFFMAN
#4105
REGISTERED PROFESSIONAL ENGINEER
P.E. WILLIAM G. HOFFMAN
LIC. #4105

Revisions:
1 05/05/2004 Revised per Public Works Review
2 05/20/2004 95% SUBMITTAL
3 06/25/2004 Released for Bid

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Elementary School
Portland Public Schools
Portland, Maine

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Mechanical Engineer: Bennett Engineering
Electrical Engineer: Bartlett Design
Kitchen Design: TJM Consulting
Green Consultant: Fore Solutions

Job No.: 2370
Date: February 24, 2004
Scale: 1"=40'
Drawn by: kaw
Checked by: wgh
Drawing Title:
Postdevelopment Watershed Plan

C-29

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