



April 27, 2015

New Bedford Planning Board  
City Hall  
133 William Street - Room 303  
New Bedford, MA 02740

**RE: 209-211 KEMPTON STREET**

Dear Planning Board members:

Enclosed are revised plan sets (revision date 4/24/2015) which have been modified in accordance with comments received by the Planning staff, Planning Board members and DPI, as follows:

1. We have eliminated one driveway,
2. We present turning movements that indicate a vehicle can back out of the furthest parking space,
3. A handicap space has been added and
4. A 6 inch high curb has been added along Kempton Street rather than have bollards.

Also, enclosed are drainage computations that indicate no increase in the rate of runoff will occur in the 100 year design storm. An 81x plan will be recorded at the Registry of Deeds to merge the four assessors lots prior to construction. We have verified that the elevations and angles of the drain pipes in the Kempton Street manhole will not conflict.

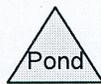
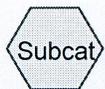
Sincerely,  
**PRIME ENGINEERING, INC.**

Richard J. Rheume, P.E., LSP  
Chief Engineer

**PLANNING**  
**APR 28 2015**  
**DEPARTMENT**



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**Routing Diagram for predevelopment**  
Prepared by Prime Engineering, Inc, Printed 4/24/2015  
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**predevelopment**

Prepared by Prime Engineering, Inc

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Type III 24-hr 100 YEAR Rainfall=7.00"

Printed 4/24/2015

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**Summary for Subcatchment PRE:**

Runoff = 15.91 cfs @ 12.09 hrs, Volume= 1.195 af, Depth> 5.91"

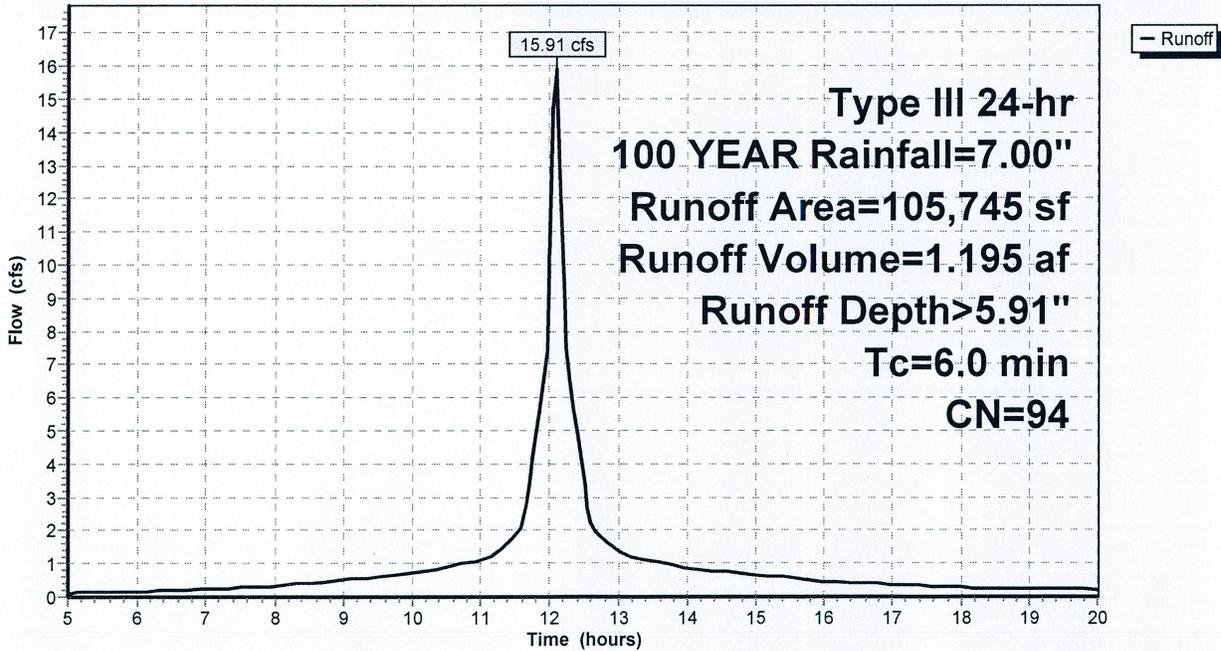
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type III 24-hr 100 YEAR Rainfall=7.00"

	Area (sf)	CN	Description
*	82,359	98	PAVED AREAS
	19,386	74	>75% Grass cover, Good, HSG C
*	4,000	98	2 HOUSES ON LOT
	105,745	94	Weighted Average
	19,386		18.33% Pervious Area
	86,359		81.67% Impervious Area

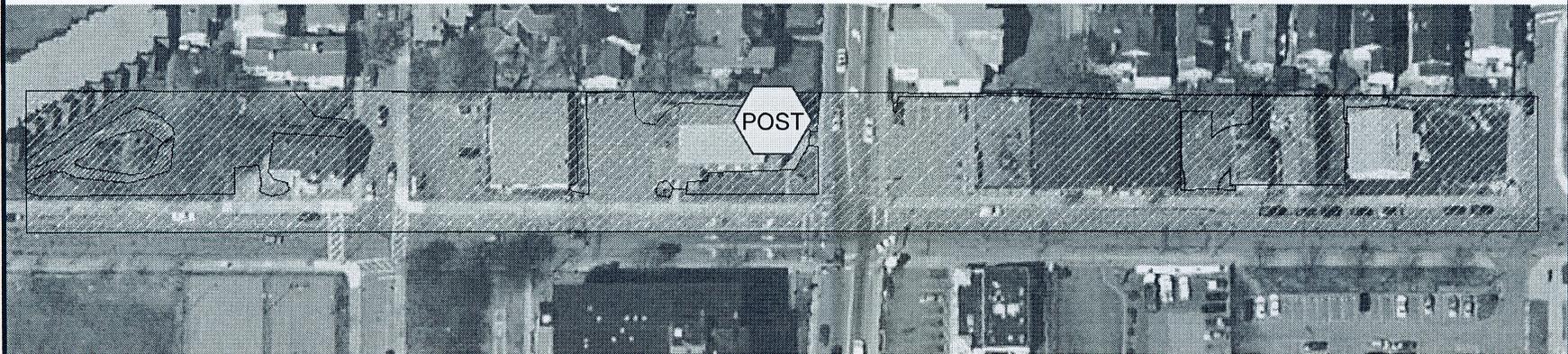
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment PRE:**

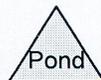
Hydrograph



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APR 20, 2015  
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**Routing Diagram for postdevelopment**  
Prepared by Prime Engineering, Inc, Printed 4/24/2015  
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**postdevelopment**

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Type III 24-hr 100 YEAR Rainfall=7.00"

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**Summary for Subcatchment POST:**

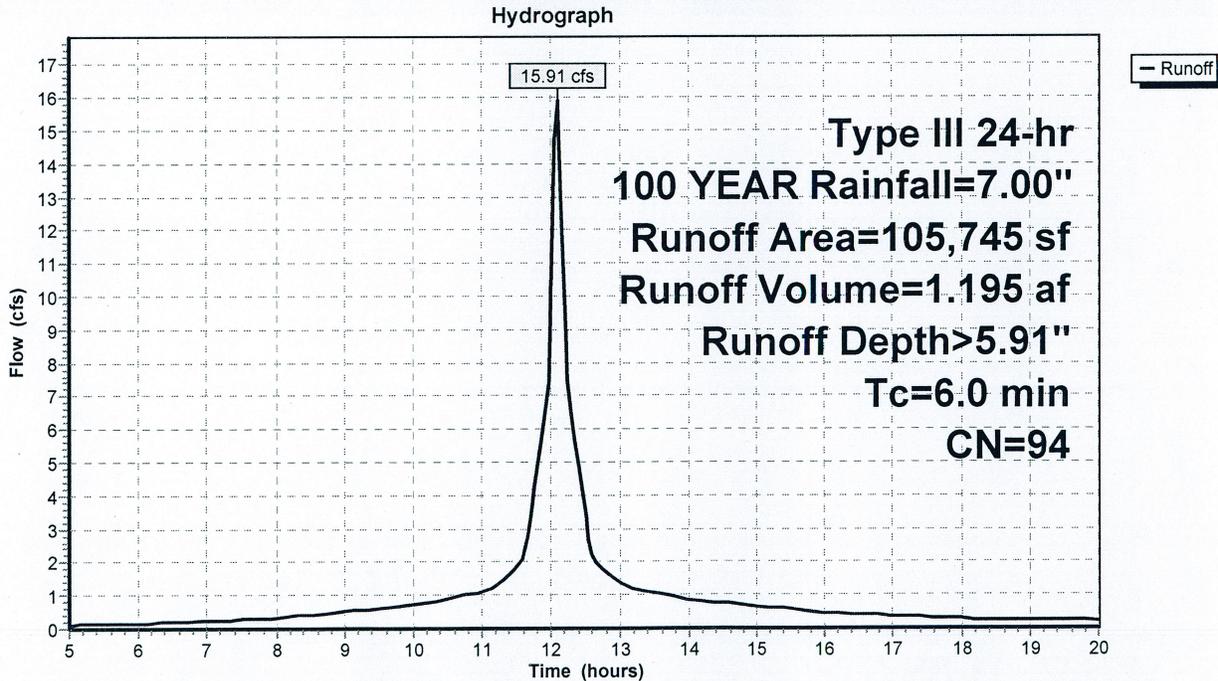
Runoff = 15.91 cfs @ 12.09 hrs, Volume= 1.195 af, Depth> 5.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 100 YEAR Rainfall=7.00"

	Area (sf)	CN	Description
*	82,359	98	PAVED AREAS
	16,768	74	>75% Grass cover, Good, HSG C
*	0	98	2 HOUSES ON LOT
*	6,618	98	NEW PARKING LOT
	105,745	94	Weighted Average
	16,768		15.86% Pervious Area
	88,977		84.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

**Subcatchment POST:**



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