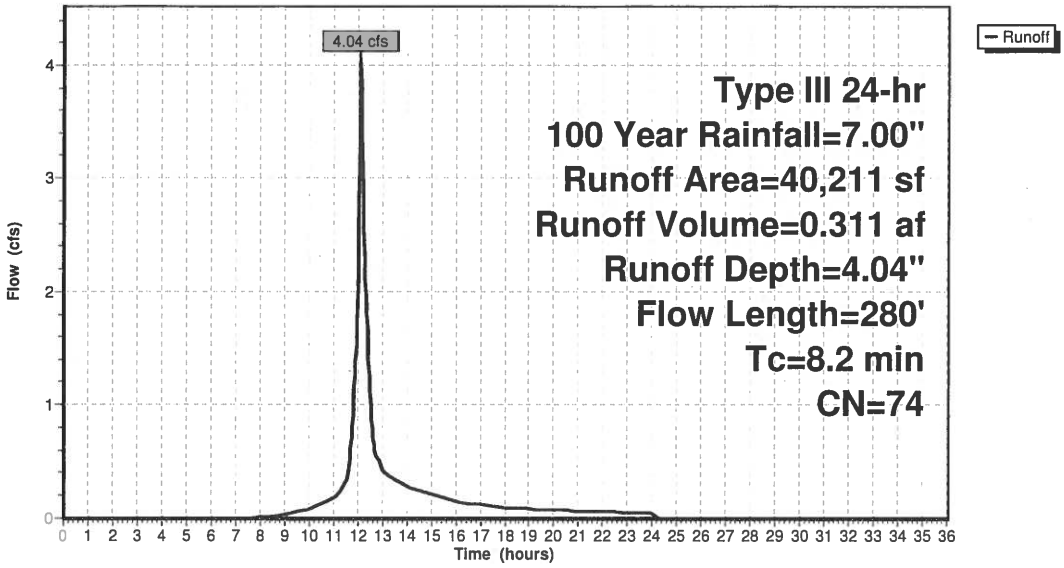
Subcatchment E-1: Exist

Hydrograph



Appendix B

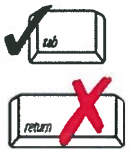
Checklist for Stormwater Report

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

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[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

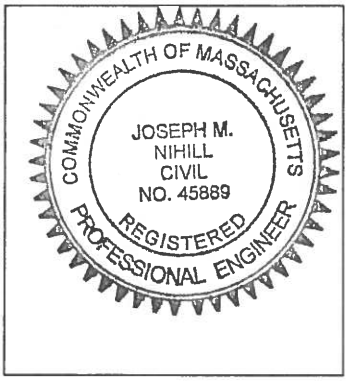
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☒ New development

☐ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☒ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
  - ☐ Credit 1
  - ☐ Credit 2
  - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☐ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.

☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.

☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

☐ Soil Analysis provided.

☒ Required Recharge Volume calculation provided.

☐ Required Recharge volume reduced through use of the LID site Design Credits.

☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.

☐ Static ☐ Simple Dynamic ☐ Dynamic Field[1]

☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.

☒ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.

☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.

☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:

☒ Site is comprised solely of C and D soils and/or bedrock at the land surface

☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000

☐ Solid Waste Landfill pursuant to 310 CMR 19.000

☐ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.

☒ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.

☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☐ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☒ The BMP is sized (and calculations provided) based on:

- ☒ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☒ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

☒ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☐ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☐ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.

☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☐ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☒ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☒ Name of the stormwater management system owners;
- ☒ Party responsible for operation and maintenance;
- ☒ Schedule for implementation of routine and non-routine maintenance tasks;
- ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

☐ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☐ An Illicit Discharge Compliance Statement is attached;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

TOWN OF WESTWOOD
BOARD OF ASSESSORS

580 High St.
Westwood, Ma. 02090

Maureen Bleday
Michael P. Krone
Mark F. Murphy

phone: 781-326-1904
fax: 781-251-2588

April 18, 2017

Anthony F & Joanne C TRS
Delapa Realty Trust
511 Washington St.
Norwood, Ma 02026

Dear Anthony & Joanne,

Attached please find a list of abutters and abutters to abutters within 300' of the locus, 16 Delapa Cir, Westwood known as Assessor's Map 29, Lot 157.

This list reflects owners of record as of January 1, 2017 or current owners, according to our records.

Sincerely,

Michael Krone
Assessor

djr

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BOARD OF ASSESSORS

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Michael P. Krone
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ABUTTERS FOR 16 DELAPA CIRCLE

MAP 29, LOT 157

WESTWOOD BOARD OF ASSESSORS

N
W E
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ABUTTERS FOR 16 DELAPA CIRCLE

MAP 29, LOT 157

WESTWOOD BOARD OF ASSESSORS

ABUTTERS FOR 16 DELAPA CIRCLE

MAP 29, LOT 157

WESTWOOD BOARD OF ASSESSORS

N
W E
S

ABUTTERS LIST FOR 16 DELAPA CIRCLE
WESTWOOD, MA

MAP & LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
29087	TOWN OF WESTWOOD	CONSERVATION COMMISSION	580 HIGH ST	WESTWOOD	MA 02090	REAR COACH LN
29088	CONTE PELLEGRINO TRUSTEE	PELCON REALTY TRUST	50 COACH LANE	WESTWOOD	MA 02090	50 COACH LN
29104	kATHLEEN M CAPPUCCINO TRU	CAPPUCCINO 2009 REALTY TR	146 CLAPBOARDTREE STREET	WESTWOOD	MA 02090	68 WINTER ST
29114	C/S WESTVIEW LLC		400 BLUE HILL DRIVE	WESTWOOD	MA 02090	120 THOMPSON AVE
29115	MUNZERT G CLIFFORD ETAL	TRS THE ALLIED INVEST	C/O DIANE GOLCHIN	MENDON	MA 01756	119 THOMPSON AVE
29122	NW LAND LLC	C/O CHESTNUT HILL REALTY	P O BOX 396	CHESTNUT HILL	MA 02467	WINTER ST
29148	HOTRA JASON M	KELLY N HONOHAN	145 DELA PARK RD	WESTWOOD	MA 02090	145 DELA PARK RD
29150	DIVINCENZO AMY S		134 DELA PARK RD	WESTWOOD	MA 02090	134 DELA PARK RD
29151	NGUYEN PHO Q D	VI T	122 DELA PARK RD	WESTWOOD	MA 02090	122 DELA PARK RD
29152	BROOKS LAURIE H		17 DELAPA CIR	WESTWOOD	MA 02090	17 DELAPA CIR
29153	COX DANIEL J	JUDITH L. COX	33 DELPA CIR	WESTWOOD	MA 02090	33 DELAPA CIR
29154	QIAO MING	HUAMEI SHANG	41 DELAPA CIR	WESTWOOD	MA 02090	41 DELAPA CIR
29155	DELAPA CIRCLE REATLY TRUS	MARYANN ARCHAMBO TRUSTEE	42 DELAPA CIR	WESTWOOD	MA 02090	42 DELAPA CIR
29156	VOLPE MICHAEL L	ELIZABETH H	26 DELAPA CIR	WESTWOOD	MA 02090	26 DELAPA CIR
29157	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	16 DELAPA CIR
29158	TOWN OF WESTWOOD		580 HIGH ST	WESTWOOD	MA 02090	DELA PARK RD
29159	SPIEGEL CHARLES T	SPIEGEL SALLY	72 DELA PARK RD	WESTWOOD	MA 02090	72 DELA PARK RD
29160	LUONGO MICHAEL	SAUSON	52 DELA PARK RD	WESTWOOD	MA 02090	52 DELA PARK RD
29161	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	42 DELA PARK RD
29162	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	30 DELA PARK RD
29164	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	DELA PARK RD
29165	LEARY KEVIN	SUZANNE KREINSEN	71 DELA PARK RD	WESTWOOD	MA 02090	71 DELA PARK RD
29166	GAFFIN JONATHAN M	DANIA GAFFIN	81 DELA PARK RD	WESTWOOD	MA 02090	81 DELA PARK RD
29167	THARRETT LOUISE	RICHARD R GRIFFITHS JR	89 DELA PARK RD	WESTWOOD	MA 02090	89 DELA PARK RD
29168	TOWN OF WESTWOOD		580 HIGH ST	WESTWOOD	MA 02090	91 DELA PARK RD
29169	SAWYER RICHARD H	LAURI S T/E	111 DELA PARK RD	WESTWOOD	MA 02090	111 DELA PARK RD
29192	CAPPUCCINO CAROLYN F		70 WINTER ST	WESTWOOD	MA 02090	70 WINTER ST

ABUTTERS LIST FOR 16 DELAPA CIRCLE
WESTWOOD, MA

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29115	MUNZERT G CLIFFORD ETAL	TRS THE ALLIED INVEST	C/O DIANE GOLCHIN	MENDON	MA	01756	119 THOMPSON AVE
29122	NW LAND LLC	C/O CHESTNUT HILL REALTY	P O BOX 396	CHESTNUT HILL	MA	02467	WINTER ST
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29115	MUNZERT G CLIFFORD ETAL	TRS THE ALLIED INVEST	C/O DIANE GOLCHIN	MENDON	MA 01756	119 THOMPSON AVE
29122	NW LAND LLC	C/O CHESTNUT HILL REALTY	P O BOX 396	CHESTNUT HILL	MA 02467	WINTER ST
29148	HOTRA JASON M	KELLY N HONOHAN	145 DELA PARK RD	WESTWOOD	MA 02090	145 DELA PARK RD
29150	DIVINCENZO AMY S		134 DELA PARK RD	WESTWOOD	MA 02090	134 DELA PARK RD
29151	NGUYEN PHO Q D	VI T	122 DELA PARK RD	WESTWOOD	MA 02090	122 DELA PARK RD
29152	BROOKS LAURIE H		17 DELAPA CIR	WESTWOOD	MA 02090	17 DELAPA CIR
29153	COX DANIEL J	JUDITH L. COX	33 DELPA CIR	WESTWOOD	MA 02090	33 DELAPA CIR
29154	QIAO MING	HUAMEI SHANG	41 DELAPA CIR	WESTWOOD	MA 02090	41 DELAPA CIR
29155	DELAPA CIRCLE REATLY TRUS	MARYANN ARCHAMBO TRUSTEE	42 DELAPA CIR	WESTWOOD	MA 02090	42 DELAPA CIR
29156	VOLPE MICHAEL L	ELIZABETH H	26 DELAPA CIR	WESTWOOD	MA 02090	26 DELAPA CIR
29157	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	16 DELAPA CIR
29158	TOWN OF WESTWOOD		580 HIGH ST	WESTWOOD	MA 02090	DELA PARK RD
29159	SPIEGEL CHARLES T	SPIEGEL SALLY	72 DELA PARK RD	WESTWOOD	MA 02090	72 DELA PARK RD
29160	LUONGO MICHAEL	SAUSON	52 DELA PARK RD	WESTWOOD	MA 02090	52 DELA PARK RD
29161	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	42 DELA PARK RD
29162	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	30 DELA PARK RD
29164	DELAPA ANTHONY F & JOANNE	DELAPA REALTY TRUST	511 WASHINGTON ST	NORWOOD	MA 02062	DELA PARK RD
29165	LEARY KEVIN	SUZANNE KREINSEN	71 DELA PARK RD	WESTWOOD	MA 02090	71 DELA PARK RD
29166	GAFFIN JONATHAN M	DANIA GAFFIN	81 DELA PARK RD	WESTWOOD	MA 02090	81 DELA PARK RD
29167	THARRETT LOUISE	RICHARD R GRIFFITHS JR	89 DELA PARK RD	WESTWOOD	MA 02090	89 DELA PARK RD
29168	TOWN OF WESTWOOD		580 HIGH ST	WESTWOOD	MA 02090	91 DELA PARK RD
29169	SAWYER RICHARD H	LAURI S T/E	111 DELA PARK RD	WESTWOOD	MA 02090	111 DELA PARK RD
29192	CAPPUCCINO CAROLYN F		70 WINTER ST	WESTWOOD	MA 02090	70 WINTER ST

NOTICE TO ABUTTERS
Under the Massachusetts Wetlands Protection Act and Article 18, Westwood Wetland By-law

Notice of Intent

The Westwood Conservation Commission will hold a public hearing, under M.G.L., Chapter 131, Section 40 and Article 18 of the Town of Westwood General Bylaws on

Date: MAY 24, 2017

Time: 7:00 pm

Place: 50 Carby Street, Westwood, MA
Champagne Meeting Room

A permit is requested by DELA CONSTRUCTION CO. INC.
(name of applicant)

511 WASHINGTON ST. NORWOOD, MA.
(address of applicant)

The project is located at 16 DELADA CIRCLE, WESTWOOD, MA.
(Location of project)

A complete copy of this filing is available to the public at the Office of the Town Clerk. Notice of the Conservation Commission meeting is posted in the Town Hall not less than 48 hours in advance as required by Open Meeting Law.

Westwood Conservation Commission

April 28, 2017

To whom it may concern,

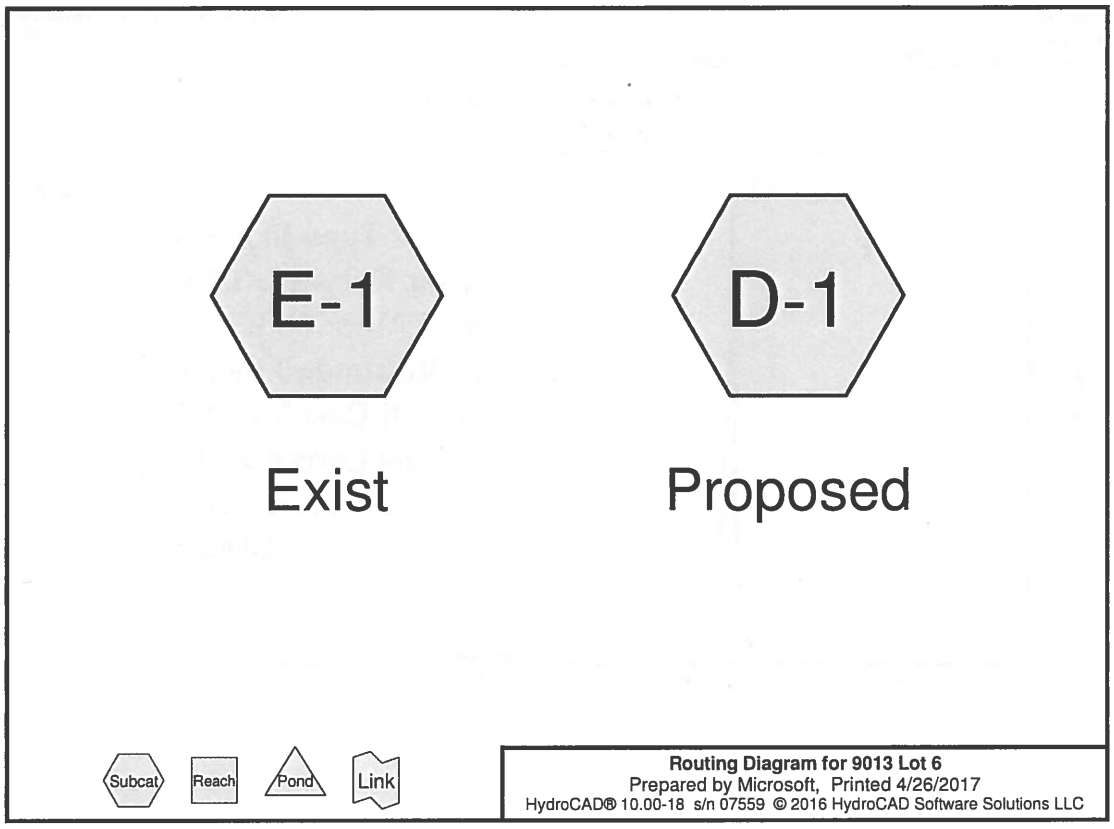
Please be aware that on April 27, 2017, on behalf of Dela Construction Co. Inc., I filed a Land Disturbance Permit Application with the Westwood Conservation Commission for the proposal to develop the property located at 16 Delapa Circle in Westwood, Massachusetts. The applicant is proposing to construct a single family dwelling at 16 Delapa Circle (Lot 6) in Westwood, Massachusetts. The existing site is a 40,211 square foot undeveloped lot located off Delapa Circle at the intersection of Dela Park Road.

The application and related plans are available for examination at the Westwood Conservation Commission office, 50 Carby Street during regular office hours (phone number 781-251-2580) or at GLM Engineering Consultants, Inc by appointment (508-429-1100).

It is the abutter's responsibility to contact the Conservation Office to find out the dates and times of any subsequent hearings related to the above project.

Yours truly,

Robert S. Truax
Project Manager



Summary for Subcatchment D-1: Proposed

Runoff = 1.27 cfs @ 12.12 hrs, Volume= 0.099 af, Depth= 1.40"

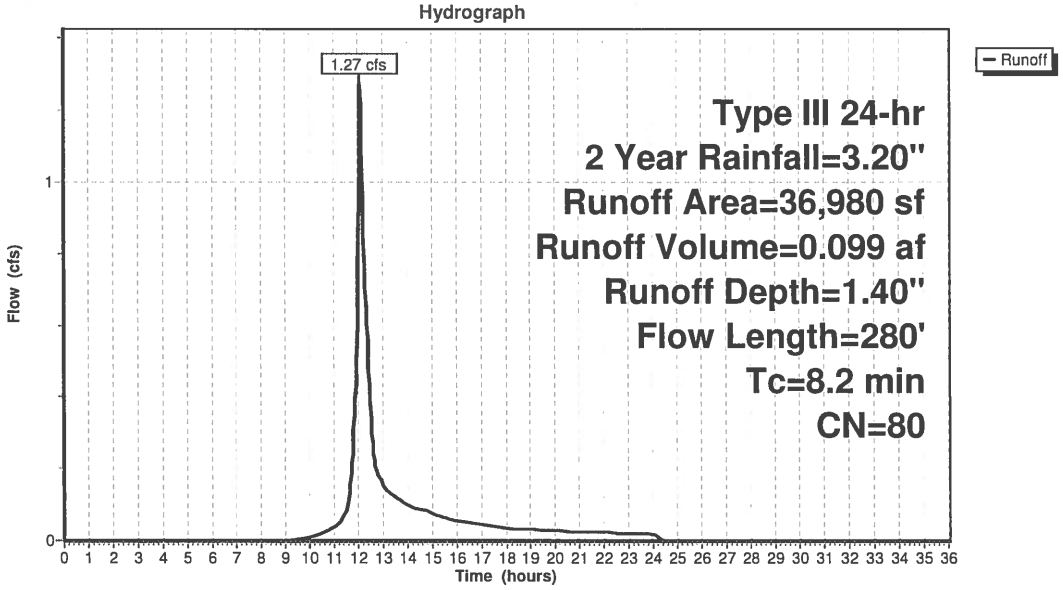
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 2 Year Rainfall=3.20"

Area (sf)	CN	Description
15,693	79	Woods, Fair, HSG D
1,787	98	Paved parking, HSG D
19,500	80	>75% Grass cover, Good, HSG D
36,980	80	Weighted Average
35,193		95.17% Pervious Area
1,787		4.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment D-1: Proposed

Hydrograph



Summary for Subcatchment E-1: Exist

Runoff = 0.98 cfs @ 12.13 hrs, Volume= 0.080 af, Depth= 1.04"

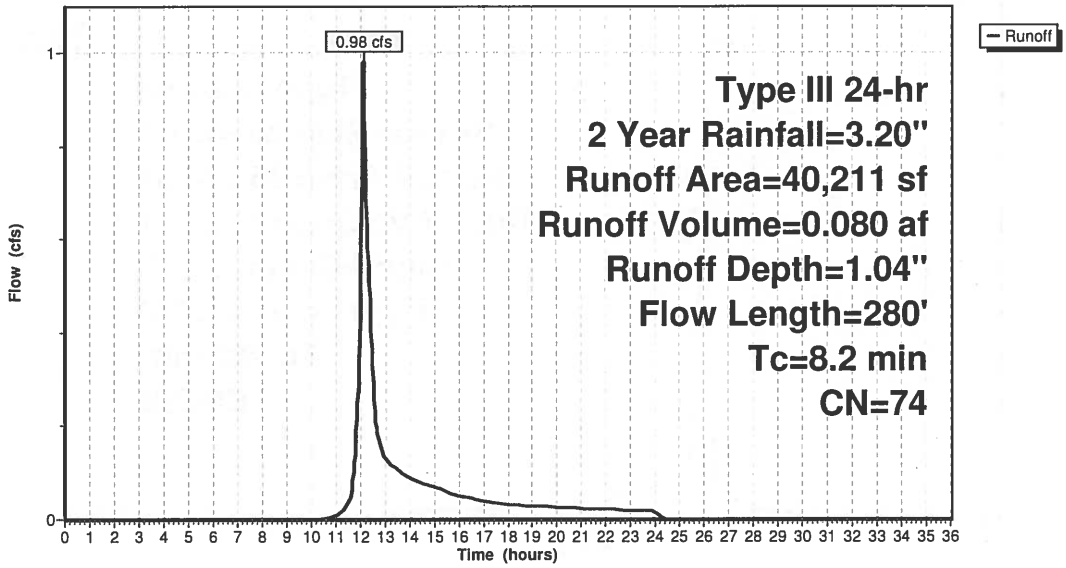
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 2 Year Rainfall=3.20"

Area (sf)	CN	Description
29,350	79	Woods, Fair, HSG D
10,861	60	Woods, Fair, HSG B
40,211	74	Weighted Average
40,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment E-1: Exist

Hydrograph



Summary for Subcatchment D-1: Proposed

Runoff = 2.50 cfs @ 12.12 hrs, Volume= 0.192 af, Depth= 2.72"

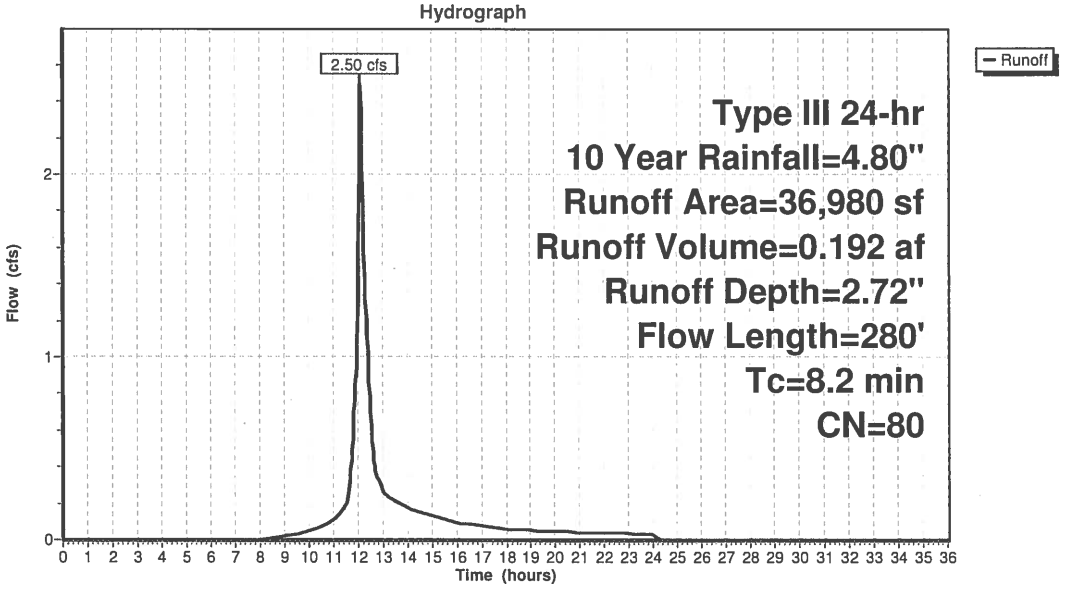
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 10 Year Rainfall=4.80"

Area (sf)	CN	Description
15,693	79	Woods, Fair, HSG D
1,787	98	Paved parking, HSG D
19,500	80	>75% Grass cover, Good, HSG D
36,980	80	Weighted Average
35,193		95.17% Pervious Area
1,787		4.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment D-1: Proposed

Hydrograph



Summary for Subcatchment E-1: Exist

Runoff = 2.19 cfs @ 12.12 hrs, Volume= 0.170 af, Depth= 2.21"

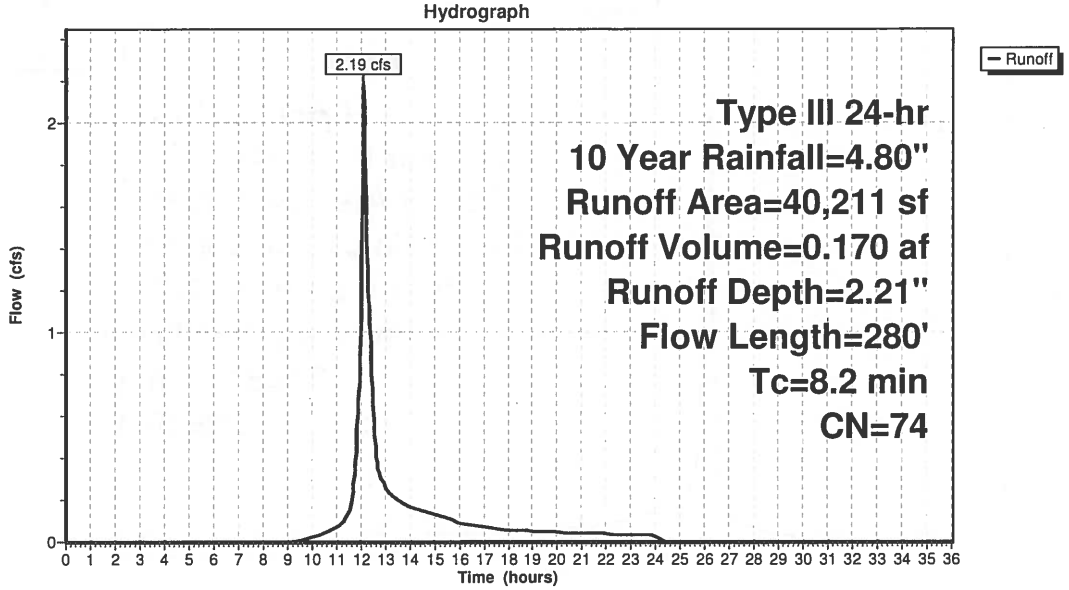
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 10 Year Rainfall=4.80"

Area (sf)	CN	Description
29,350	79	Woods, Fair, HSG D
10,861	60	Woods, Fair, HSG B
40,211	74	Weighted Average
40,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment E-1: Exist

Hydrograph



Summary for Subcatchment D-1: Proposed

Runoff = 3.06 cfs @ 12.12 hrs, Volume= 0.236 af, Depth= 3.33"

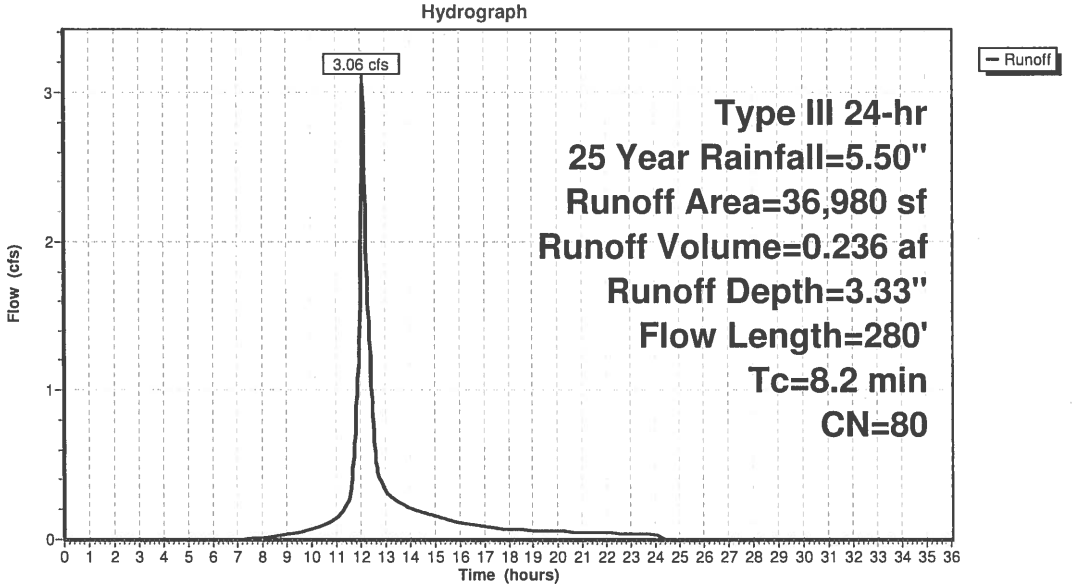
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 25 Year Rainfall=5.50"

Area (sf)	CN	Description
15,693	79	Woods, Fair, HSG D
1,787	98	Paved parking, HSG D
19,500	80	>75% Grass cover, Good, HSG D
36,980	80	Weighted Average
35,193		95.17% Pervious Area
1,787		4.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment D-1: Proposed

Hydrograph



Summary for Subcatchment E-1: Exist

Runoff = 2.76 cfs @ 12.12 hrs, Volume= 0.213 af, Depth= 2.77"

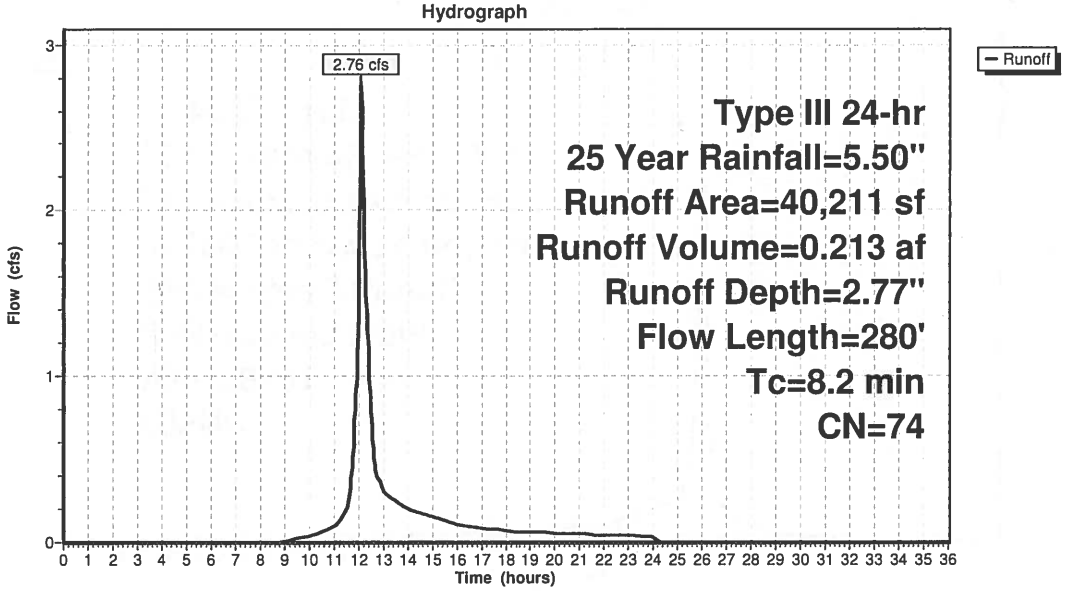
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 25 Year Rainfall=5.50"

Area (sf)	CN	Description
29,350	79	Woods, Fair, HSG D
10,861	60	Woods, Fair, HSG B
40,211	74	Weighted Average
40,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment E-1: Exist

Hydrograph



Summary for Subcatchment D-1: Proposed

Runoff = 4.27 cfs @ 12.12 hrs, Volume= 0.332 af, Depth= 4.69"

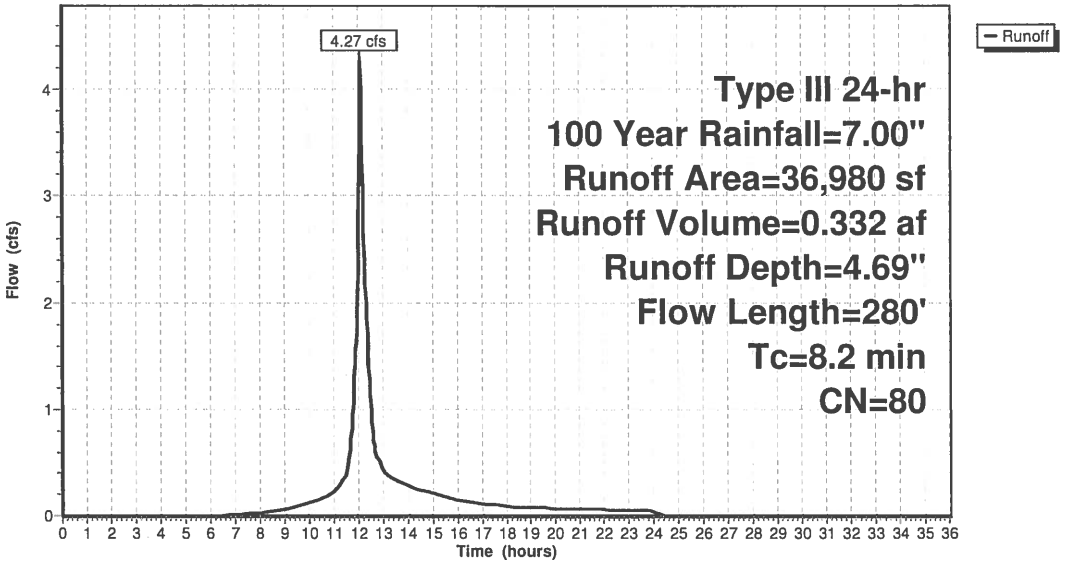
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 100 Year Rainfall=7.00"

Area (sf)	CN	Description
15,693	79	Woods, Fair, HSG D
1,787	98	Paved parking, HSG D
19,500	80	>75% Grass cover, Good, HSG D
36,980	80	Weighted Average
35,193		95.17% Pervious Area
1,787		4.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			

Subcatchment D-1: Proposed

Hydrograph



Summary for Subcatchment E-1: Exist

Runoff = 4.04 cfs @ 12.12 hrs, Volume= 0.311 af, Depth= 4.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.03 hrs
Type III 24-hr 100 Year Rainfall=7.00"

Area (sf)	CN	Description
29,350	79	Woods, Fair, HSG D
10,861	60	Woods, Fair, HSG B
40,211	74	Weighted Average
40,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	50	0.0800	0.12		**Sheet Flow, A-B** Woods: Light underbrush n= 0.400 P2= 3.20"
0.4	105	0.0700	4.26		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
0.7	125	0.0300	2.79		**Shallow Concentrated Flow, B-C** Unpaved Kv= 16.1 fps
8.2	280	Total			