TRUSTEES MEETING NOTICE & AGENDA
TUESDAY, JULY 23, 2013 at 6:30 PM
LINCOLN HALL MEETING ROOM, 2 LINCOLN STREET

1. **CALL TO ORDER/PLEDGE OF ALLEGIANCE TO FLAG** [6:30 PM]

2. **AGENDA ADDITIONS/CHANGES** [6:30 PM]

3. **GUESTS, PRESENTATIONS AND PUBLIC HEARINGS** [6:30 PM]
   a. Comments from Public on Items Not on Agenda

4. **OLD BUSINESS** [6:35 PM]
   a. Wastewater Treatment Facility Refurbishment update
   b. See Click Fix reconsideration

5. **NEW BUSINESS** [6:50 PM]
   a. Discussion about flooding in the Village
   b. Set FY 14 tax rate
   c. Bid award for FY 14 paving
   d. Discussion and action on Trustees' Policy Regarding Appointments to Boards, Commissions and Committees

6. **VILLAGE MANAGER'S REPORT** [7:30 PM]
   - Met with library staff
   - Toured WWTF and met with staff
   - Met with Railroad Ave. Recess group
   - Memo format
   - Trustees meeting schedule

7. **TRUSTEES' COMMENTS & CONCERNS/READING FILE** [7:35 PM]
   a. Board Member Comments
   b. Block Party Committee Minutes 6/24/13
   c. Memo on project close-out for high school pump station
   d. Memo Crescent Connector Road update
   e. Notices about Whitcomb Farm Solar Project/VT Public Service Board
   f. Memo about final Chittenden County ECOS Plan

8. **CONSENT AGENDA** [7:40 PM]
   a. Approve Minutes of Previous Meeting 6/25/13
   b. Approve Warrants including check #10047352 through #10047402 totaling $69,053.40.
   c. Approve Warrants including check #10047403 through #10047487 totaling $466,689.49.
   d. Approve Warrants including check #10047488 through #10047551 totaling $1,621,435.20.
   e. Approve FY 13 audit contract
   f. Approve EJFD request to waive bid process for software contract
   g. Approve request from Village resident to hold vigil at Lincoln Hall
   h. Approve VTrans grant application for flow restoration plan development

9. **EXECUTIVE SESSION/PERSONNEL** [7:45 PM]

10. **ADJOURN** [8:00 PM]

Meetings of the Trustees are accessible to people with disabilities. For information on access or this agenda, call the Village Manager's office at 878-6944. Times on the agenda are approximate.

MANAGERS SUMMARY
FOR
JULY 23, 2013
TRUSTEES MEETING

1. **CALL TO ORDER/PLEDGE OF ALLEGIANCE TO FLAG**
2. **AGENDA ADDITIONS/CHANGES**
3. **GUESTS, PRESENTATIONS AND PUBLIC HEARINGS**
   a. Comments from Public on Items Not on Agenda - This time is set aside for anyone in the audience to speak to the Trustees about an item that is not on the agenda.
4. **OLD BUSINESS**
   a. Wastewater Treatment Facility Refurbishment update – Jim Jutras, Water Quality Superintendent, and Brad Aldrich, Aldrich+Elliot, will be updating the board on the status of the Wastewater Treatment Facility Refurbishment. A spreadsheet showing the Total Project Cost Tracking is included with the agenda materials.
   b. See Click Fix reconsideration – At a previous meeting, the Trustees indicated they did not wish to renew this program because of the cost and because it was not included in the budget. Staff is asking if the Trustees want to reconsider, based on a reduced price offer (based on fewer dashboard users) from SeeClickFix. See memo enclosed.
5. **NEW BUSINESS**
   a. Discussion about flooding in the Village – Rick Hamlin, Village Engineer, and Rick Jones, Public Works Superintendent, will be present to discuss flooding in the Village as a result of the storms in May, June and July. Citizens affected by the flooding are expected to be in attendance as well. A memo with background information is included and the Mansfield Avenue Watershed Analysis completed by Hamlin Engineering is also included in your agenda materials.
   b. Set FY14 Tax Rate– See memo from Lauren Morrisseau, Finance Director regarding the calculation for setting the FY14 Village Municipal Tax rate.
   c. Bid Award for FY14 paving – Bids for the FY14 paving projects on Willeys Court, Warner Avenue, Williams Street, Jones Avenue, Grandview Avenue and a section of Beech Street were opened on July 9th. The low bidder was S.T. Paving with a bid of $67.88 per ton. A memo is enclosed listing all bidders and prices.
   d. Discussion and Action on Trustees's Policy Regarding Appointments to Boards and Commsisions – Staff is recommending that the Trustees amend their appointment policy to include annual meetings with each member of appointed boards and commissions. If the Trustees approve this change, staff will be drafting job descriptions for the volunteer boards for consideration at a future meeting.
6. **VILLAGE MANAGER'S REPORT**
   a. Manager's Report/Comments -time set aside for verbal report/comments from manager(s). See memo from Manager regarding suggested new format for memos.
   b. Trustees meeting schedule
7. **TRUSTEES' COMMENTS & CONCERNS/READING FILE**
   a. Board Member Comments - Time set aside for comments/reports.
   b. Block Party Committee Minutes 6/24/13

c. Memo on Project close-out for high school pump station –The high school pump station project has been successfully completed. A memo from Brad Aldrich, P.E. is enclosed with project close-out details.

d. Memo Crescent Connector Road update – Robin Pierce, Development Director, has included a memo detailing the progress and current status of the Crescent Connector Road.

e. Notices about Whitcomb Farm Solar Project/VT Public Service Board –Notice of pre-hearing conference for the Whitcomb Farm Solar Project is enclosed. The Village Managers sent a letter of support for this project to the public service board in June (copy of the letter was in the Trustees 6/25/13 agenda package.)

f. Memo about final Chittenden County ECOS Plan - The final Chittenden County ECOS Plan will take effect on July 24, 2013. The plan is available online at http://www.ecosproject.com/plan and a hard copy should be available at the Brownell Library. The Village has two hard copies in the office.

8. **CONSENT AGENDA**

a. Approve Minutes of Previous Meeting 6/25/13 – Minutes enclosed for review.

b. Approve Warrants including check #10047352 through #10047402 totaling $69,053.40

c. Approve Warrants including check #10047403 through #10047487 totaling $466,689.49 – This is the final bill list for FY13.

d. Approve Warrants including check #10047488 through #10047551 totaling $1,621,435.20 – (Includes a payment to the WWTF upgrade contractor in the amount of $1,407,621.13.) This is the first bill list for FY14.

e. Approve FY13 Audit Contract - Staff recommends that the Trustees approve awarding the FY13 audit contract to Sullivan, Powers & Co. for a fee of $14,200. See memo from Lauren Morriseau enclosed.

f. Approve EJFD request to waive bid process for software contract – See memo from Chris Gaboriault, Fire Chief, regarding recommendation for software contract with Firehouse Software.

g. Approve request from Village resident to hold vigil at Lincoln Hall – See request from resident Ron Russotti, to hold a "purple light" vigil on the front lawn of Lincoln Hall for one hour on the evening of Oct. 27. 2013. The purpose of the vigil will be to honor and remember loved ones affected by pancreatic cancer.

h. Flow Restoration Plan (FRP) Grant VTtrans – Staff is recommending the Trustees support the application for VTrans Local Facilities Grant funds for the Flow Restoration Plan development. See memo from Jim Jutras, Water Quality Superintendent.

EXECUTIVE SESSION

An executive session has been requested to discuss personnel matters.

Agenda Addition
New Business

Village of Essex Junction
The economic engine of Vermont.

MEMORANDUM

TO: Village Trustees and Pat Scheidel, Village Manager
FROM: Susan McNamara-Hill and Lauren Morrisseau, Assistant Managers SMH LM
DATE: July 23, 2013
SUBJECT: Fire Truck Note Renewal

Issue

The issue is that the one year note borrowed last year to help pay for the new fire truck is due July 31, 2013.

Discussion

The Trustees approved a one year note last year in the amount of $250,000 to help pay for the new fire truck. The plan was to pay $50,000 principal each for five years and to renew the note annually. The bill list includes a check for $53,266.03, to pay $50,000 principal and $3,266.03 interest. The Merchants Bank has agreed to issue a new one year note for $200,000. The cost of the fire truck has been paid in full in the amount of $829,736 (the Village saved $30,000 by prepaying for the truck). The funds to purchase the truck came from:

Village Rolling Stock	$529,736 (includes note for $250,000)
Town of Essex contribution	$300,000

Cost

The interest on the $200,000 note is 1.52%, which will result in an interest charge of approximately $3,040.00

Recommendation

The recommendation is that the Trustees adopt the Resolution for Current Expense Borrowing and sign the Current Expense Note and the Resolution.

merchants BANK

Note No. 1 of 1 $200,000.00

Village of Essex Junction
CURRENT EXPENSE NOTE
1160100663

Essex Junction, Vermont July 31, 2013

On the July 30, 2014 for value received, the Village of Essex Junction promises to pay to MERCHANTS BANK, or order, the principal sum of:

TWO HUNDRED THOUSAND AND 00/100DOLLARS ($200,000.00)

with interest at the rate of 1.52% per annum, calculated on an actual 365 day year from the date of original delivery of this note, with principal and interest payable in lawful money of the United States at the Main Office of MERCHANTS BANK, in the City of South Burlington, Vermont. Principal and interest may be prepaid in whole or in part prior to the above maturity date.

This note is issued to defray the cost of current expenses, pursuant to a resolution adopted by the Board of Trustees of said Village of Essex Junction at a meeting thereof duly noticed, called and held on July 23, 2013.

It is hereby certified and recited that all acts, conditions and things required to be done precedent to and in the issuance of this note have been done, have happened, and have been performed in regular and due form as required by law and that the full faith and credit of said Village of Essex Junction are hereby irrevocably pledged for the payment of this note, as well as interest at the above-specified rate, and as may be adjusted.

Village of Essex Junction

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Treasurer

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Board of Trustees Or a Majority Thereof

Village of Essex Junction
RESOLUTION
CURRENT EXPENSE BORROWING

WHEREAS, the Board of Trustees is authorized and empowered to borrow money on the credit of the Village of Essex Junction to defray the cost of paying current expenses, imposed by law; and

WHEREAS, it is hereby found and determined that in order to carry out the responsibilities placed upon the Board of Trustees by law, it is necessary and expedient for the Village of Essex Junction to meet current expenses; and

WHEREAS, the Village of Essex Junction has been and is now providing essential governmental services and funds are needed to meet expenses relating to the delivery of said essential governmental services; and

WHEREAS, current funds are not available to pay in full for said current expenses and it is necessary for the Board of Trustees to borrow money on the credit of the Village of Essex Junction to meet said current expenses; and

WHEREAS, in order to have funds available to meet current expenses as aforesaid, the Board of Trustees has arranged to borrow $200,000.00 from MERCHANTS BANK, with such borrowing evidenced by a promissory note as hereinafter set forth.

THEREFORE, BE IT RESOLVED, that the Board of Trustees and the Treasurer proceed forthwith to complete said transaction and issue said evidence of indebtedness to cover the same; and

BE IT FURTHER RESOLVED, that said evidence of debt when issued and delivered pursuant to this Resolution shall be a valid and binding general obligation of the Village of Essex Junction, payable according to the terms and tenor thereof from unlimited ad valorem taxes duly assessed on the grand list of taxable property in said Village of Essex Junction, as established by law; and

BE IT FURTHER RESOLVED, that all acts and things heretofore done by the lawfully constituted officers of the Village of Essex Junction and its Board of Trustees in, about, or concerning the expenditure of proceeds of the note evidencing the borrowing and the issuance thereof are hereby ratified and confirmed; and

We, the undersigned Board of Trustees and Treasurer, hereby certify that we as such officers have signed a Current Expense Note(s) numbered 1, dated July 31, 2013 and due July 30, 2014 with an interest rate of 1.52% payable as therein set forth and further certify that the note is issued under and pursuant to this Resolution adopted at a duly noticed and warned meeting of the Board of Trustees of the Village of Essex Junction held on July 23, 2013.

We the said Board of Trustees and Treasurer of the Village of Essex Junction, hereby certify that we are the duly chosen, qualified and acting officers as undersigned, that the note is issued pursuant to authority, that no proceeding relating thereto has been taken other than as shown in the foregoing recital, that no such authority or action has been amended or repealed, and that there is no litigation threatened or pending in any state or federal court of competent jurisdiction seeking to enjoin either the issuance of the above-described note or the expenditures being financed by the proceeds of the same.

We also certify that there has been full and timely compliance with all public procurement, solicitation and bidding laws, ordinances and regulations with respect to each of the transactions embodied in this Resolution

We certify also that no litigation is pending or threatened affecting the validity of the note or the apportionment and assessment of taxes if necessary, to pay the same when due, that neither the corporate existence nor the boundaries of the Board of Trustees, nor the title of any of us to our respective offices is being questioned or contested.

Further, we hereby certify to and covenant with MERCHANTS BANK, its successors and assigns, including specifically the transferees, assigns, holders and owners of the above-described note that:

1. The aggregate principal amount of said note does not exceed the maximum cumulative cash flow deficit of the Village of Essex Junction for the term of said note, from date of issue to and including date of maturity, as computed under Sections 148 (f)(4)(iii) of the Internal Revenue Code of 1986, and the Regulations promulgated thereunder.

2. No proceeds of the note (including investment proceeds thereof) will be used (directly or indirectly) in any trade or business carried on by any person other than the 1~ nor used to make or finance loans to any person.

3. During the current calendar year, the Village of Essex Junction will not issue debt of any sort aggregating $10,000,000.00 or more.

4. The Village of Essex Junction will file when and as required with the Treasury Department or Internal Revenue Service information returns relating to the issuance of this note and all other obligations of the Village of Essex Junction.

5. The Village of Essex Junction will comply with, perform, maintain and keep each and every covenant, representation, certification and undertaking in the accompanying Tax Certificate, execution and delivery of which is hereby authorized.

Village of Essex Junction

Treasurer

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ATTEST:

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Clerk

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Board of Trustees Or a Majority Thereof

Village of Essex Junction
TAX CERTIFICATE
CURRENT EXPENSE BORROWING

We the Treasurer and at least a majority of the Board of Trustees of the Village of Essex Junction, Vermont (the "Issuer"), hereby certify and represent as follows with respect to the aggregate $200,000.00 Current Expense Note(s) of the Issuer (the "Note(s)"), which Note(s) is dated July 31, 2013 and is payable as therein set forth:

1. The Issuer is issuing and delivering the Note simultaneously with the delivery of this Certificate.

2. We are the officers of the Issuer charged by law with the responsibility for issuing the Note.

3. The Note is being issued for the purpose of paying certain current expenses required by law to be made, which expenditures shall be made in a timely fashion.

4. The entire amount borrowed by the issuance of the Note, together with all of such, if any, amounts previously raised or borrowed for the same purpose, does not exceed the total costs of such current expenses less all other funds available for the purpose, and all of the proceeds of the Note have been or are expected to be needed and expended for such current expenses within six (6) months from the date of the first borrowing for these expenses.

5. The Note is being issued to a refund note previously issued for the same purpose described in paragraph (3).

6. Any real and personal property, acquisition of which has been financed by the Note has not been and is not expected during the life of the Note to be sold or otherwise disposed of for consideration.

7. It is expected that any earnings or net profit derived from investment or deposit of the proceeds of the Note, including transferred proceeds, any accrued interest received upon sale of the Note and any premium received on the delivery thereof, will be expended for current expense payment purposes within the period stated in paragraph (4) above to the extent such funds are not commingled for accounting purposes in the general funds of the Issuer with tax and other substantial operating revenues.

8. The Issuer has not created and does not expect to create or establish any debt service fund, bond payment reserve, sinking fund, or other similar fund pledged to the payment of the Note or from which it is expected that payment of the Note would be made.

9. To the best of our knowledge, information and belief, the above expectations are reasonable.

10. The Issuer has not been notified of any action by the Commissioner of Internal Revenue to disqualify it as an issuer whose arbitrage certificates may be relied upon.

11. No part of the proceeds derived from the issuance and sale of the Note nor the expenditures financed by the proceeds of the Note shall be:

a. Used, loaned or otherwise made available to any person or other entity, other than the Issuer or a governmental body, so as to cause the Note to be classified as a private activity bond or a arbitrage bond, as those terms are defined under the Internal Revenue Code of 1986.
b. Used directly or indirectly in a trade or business by any person other than the Issuer or another municipal entity;
c. Loaned to any person directly or indirectly other than the Issuer;
d. The subject of any contract, lease or agreement of any sort having a term of one year or more and calling for the payment by the Issuer of consideration other than a flat fee;
e. Expended to finance the construction, alteration or renovation of any improvement the use, occupancy, availability or beneficial enjoyment of which shall be restricted among public users thereof or for which preferential, different or unique fees, rates, assessments or charges shall be levied;
f. Invested in such a manner or for such a period or at a yield to result in the rebate of interest earnings thereon to the United States under any public law now or hereafter in effect;

12. The Issuer shall furnish to the United States, or any agency, department or instrumentality thereof, in a timely fashion, such information as may be required by law with respect to all evidences or debt now or hereafter issued by the Issuer.

13. Neither the proceeds of the Note, nor any earnings derived from the investment thereof, shall be expended for the purpose of paying any costs associated with the issuance of the Note.

14. The Note will not be refunded or otherwise paid, defeased or secured by the proceeds of any form of debt issued by the Issuer, if the manner of such payment, refunding or security, results in the Note being classified as a "private activity bond" or an "arbitrage bond" within the meaning of Sections 103, 141 and 148 of the Internal Revenue Code of 1986.

15. The proceeds of the Note shall not be invested for a period or at a yield so as to render the interest payable on the Note includable in the gross income of the holder(s) thereof.

16. The proceeds of the Note will not be used in a manner that will cause the Note to be "arbitrage bonds" or "private activity bonds" within the meaning of Sections 103(c), 141 and 148 of the Internal Revenue Code of 1986, and the Regulations promulgated thereunder.

17. The aggregate principal amount of the Note is not greater than the maximum anticipated cumulative cash flow deficit which has been computed in accordance with the Regulations identified in paragraph (18) hereof, as shown on the accompanying cash flow certificate dated [9].

18. The Note is declared to be a "qualified" obligation under Section 265(b) of the Internal Revenue Code.

This Certificate is executed and is being delivered pursuant to Sections 1.103-13, 1.103-14, and 1.103-15 of the Treasury Regulations under Section 103(c), 141 and 148 of the Internal Revenue Code of 1986, as amended.

Village of Essex Junction

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Treasurer

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Board of Trustees or a Majority Thereof

Agenda Addition
New Business

The economic engine of Vermont.

MEMORANDUM

TO: Village Trustees and Pat Scheidel, Village Manager
FROM: Lauren Morrisseau, Finance Director, and Susan McNamara-Hill, Clerk/Treasurer, Assistant Managers
DATE: July 23, 2013
SUBJECT: Authorized Agent

Issue

The issue is whether or not the Village Trustees will appoint Patrick Scheidel as authorized agent for the Village of Essex Junction to sign legal and other documents relative to the operation of the village.

Discussion

The Village Manager would sign documents such as the audit contract and grant agreements.

Cost

There is no fixed cost expected.

Recommendation

To appoint Patrick Scheidel as the authorized agent for the Village of Essex Junction to sign legal and other documents relative to the operation of the village.

Agenda Addition

DuBois & King inc.

Memorandum

To: Bryan Davis, CCRPC
From: Lucy Gibson, P.E.
Date: March 3, 2013
Re: Draft Scope for Essex Town and Village Bike Ped Plan

We are very much looking forward to working with you, the Town of Essex, and the Village of Essex Junction on a Bicycle and Pedestrian Plan. From our initial discussion, we understand the goals of the project include the following:

- Prepare a unified Town/Village bicycle-pedestrian plan that connects the entire community.
- Update and assess the existing network, and identify and prioritize future needs. Much work has been done over the past 20 years. This is an opportunity to take stock of the progress and plan ahead.
- This is an opportunity to consider updated design approaches. There have been many recent innovations in bicycle and pedestrian design, many of which may be applicable to the Town and Village and result in a more cost effective and easily implemented network.

The following is a draft outline of our proposed scope of work for this project.

? Kick off mtg – scope, timeline, communications S.C.

1) Prepare a base map. This will be done in ArcGIS, and use the latest available information from the Town, Village and CCRPC. The map will include the following:
   a. transit routes and stops;
   b. designated downtowns, village centers and growth centers;
   c. schools; recreation facilities;
   d. major employers and employment centers;
   e. residential density; and
   f. existing bicycle and pedestrian facilities. planned facilities?
2) Needs assessment. Review planning documents available from the Town and Village, and develop a list of known, unmet needs. Using the base map, identify gaps in the network or lack of good connections between important travel generators.
3) Meeting #1 with the bike-ped planning committee.
   a. Review map, and assure it is accurate and complete.
   b. Review unmet needs list, and update or add to this list as appropriate.
   c. Present potential design options to the committee for discussion, including NACTO (www.nacto.org) design guidelines, and identify any that might be suitable for consideration for some of the unmet needs.

VILLAGE OF ESSEX JCT
WASTEWATER TREATMENT FACILITY REFURBISHMENT
Contract No. 1

TOTAL PROJECT COST TRACKING
July 16, 2013

ITEM DESCRIPTION	TOTAL ESTIMATED COST	COST INCURRED TO-DATE	% COMP.	BALANCE TO FINISH	CWSRF ELIGIBLE	LOCAL SHARE	COGEN SYSTEM[2]
Construction							
WWTF Refurbishment [3]	$ 12,207,072	$ 8,300,138	67.99%	$ 3,906,934	$ 12,207,072	$ -	$ -
Aeration Blowers [3]	$ 250,000	$ -	0.00%	$ 250,000	$ 250,000	$ -	$ -
Cogen System Upgrade [2,3]	$ 700,000	$ -	0.00%	$ 700,000	$ -	$ -	$ 700,000
Small Purchases	$ 300,000	$ -	0.00%	$ 300,000	$ 300,000	$ -	$ -
Construction Subtotal	$ 13,457,072	$ 8,300,138	61.68%	$ 5,156,934	$ 12,757,072	$ -	$ 700,000
Construction Contingency							
Construction Contingency	$ 410,963	$ -	0.00%	$ 410,963	$ 375,963	$ -	$ 35,000
Subtotal	$ 410,963	$ -	0.00%	$ 410,963	$ 375,963	$ -	$ 35,000
Step I - Preliminary Engineering							
Comprehensive Facilitites Plan [1]	38,500	$ 38,500	100.00%	$ -	$ -	$ 38,500	$ -
Preliminary Engineering Study	$ 59,900	$ 59,900	100.00%	$ -	$ 59,900	$ -	$ -
Step I Subtotal	$ 98,400	$ 59,900	60.87%	$ -	$ 59,900	$ 38,500	$ -
Step II - Final Design							
Final Design	$ 703,200	$ 703,200	100.00%	$ -	$ 703,200	$ -	$ -
Permitting	$ 39,100	$ 36,170	92.51%	$ 2,930	$ 39,100	$ -	$ -
Constructability Review - W&S	$ 17,085	$ 17,085	100.00%	$ -	$ 17,085	$ -	$ -
Asbestos/Lead Paint Inspection	$ 4,845	$ 4,845	100.00%	$ -	$ 4,845	$ -	$ -
Cogen System Design [2,3]	$ 45,000	$ 6,480	14.40%	$ 38,520	$ -	$ -	$ 45,000
Additional Design Services	$ 10,000	$ 9,717	97.17%	$ 283	$ 10,000	$ -	$ -
Step II Subtotal	$ 819,230	$ 777,497	94.91%	$ 41,733	$ 774,230	$ -	$ 45,000
Step III - Construction Phase Engineering							
Bid Phase	$ 16,500	$ 16,500	100.00%	$ -	$ 16,500	$ -	$ -
Basic Services	$ 588,500	$ 411,950	70.00%	$ 176,550	$ 588,500	$ -	$ -
Resident Representation	$ 490,400	$ 209,264	42.67%	$ 281,136	$ 490,400	$ -	$ -
Special Services	$ 97,300	$ 28,837	29.64%	$ 68,463	$ 97,300	$ -	$ -
Step III Subtotal	$ 1,192,700	$ 666,551	55.89%	$ 526,149	$ 1,192,700	$ -	$ -
Step III - Engineering Contingency							
Engineering Contingency	$ 59,635	$ 59,635	100.00%	$ -	$ 59,635	$ -	$ -
Subtotal	$ 59,635	$ 59,635	100.00%	$ -	$ 59,635	$ -	$ -
Other Costs							
Administrative	$ 4,000	$ -	0.00%	$ 4,000	$ 4,000	$ -	$ -
Bond Vote Costs	$ 3,500	$ -	0.00%	$ 3,500	$ 3,500	$ -	$ -
Legal	$ 3,000	$ -	0.00%	$ 3,000	$ 3,000	$ -	$ -
Short Term Interest	$ -	$ -	0.00%	$ -	$ -	$ -	$ -
Other Subtotal	$ 10,500	$ -	0.00%	$ 10,500	$ 10,500	$ -	$ -
TOTAL PROJECT COST	**$ 16,048,500**	**$ 9,863,721**		**$ 6,146,279**	**$ 15,230,000**	**$ 38,500**	**$ 780,000**
BOND AUTHORIZATION					**$ 15,230,000**		

Notes:

1. Comprehensive Facilities Plan ($38,500) is not CWSRF eligible because it was paid out of other funds.
2. Co-generation system design and construction are not eligible for reimbursement under the CWSRF loan, but are eligible for reimbursement under the Bradford Bond.
3. Capital Funds Budget of $288,560 is available for funding some of the above improvements.

Village of Essex Junction
The economic engine of Vermont.

MEMORANDUM

TO: Village Trustees
FROM: Pat Scheidel, Village Manager, Susan McNamara-Hill and Lauren Morrisseau, Assistant Managers
DATE: July 19, 2013
SUBJECT: Reconsideration of See Click Fix

Issue

The issue is whether or not the Trustees wish to reconsider the decision to discontinue the SeeClickFix program for this fiscal year.

Discussion

The Village was part of a pilot program for SeeClickFix during 2013 at a reduced rate. SeeClickFix allows citizens to report issues directly from their mobile devices or computers. When an issue is reported, an automatic reply is generated to the person reporting and the issue is published on the Village web site so that others can see that it has been reported. Once the issue is resolved, another reply goes out the person who reported it, and the issue is marked as "closed" in the program. During April through June, there were about 52 issues reported, but use seems to have been increasing recently.
At the June 25th meeting, the consensus of the Trustees was that this program would not be renewed because the cost proposed was too high, and the expense was not budgeted for this year.

Cost

The initial cost to renew the program for another year was $3,600. SeeClickFix has since offered to reduce the number of dashboard users from 5 to 1, which would reduce the cost to $1,200.

Recommendation

If the Trustees wish to reconsider the previous consensus that the Village not renew this program, a motion should be made to authorize the Village Manager to sign the agreement with SeeClickFix for one year at a cost of $1,200.00.

Village of Essex Junction
The economic engine of Vermont.

MEMORANDUM

To: Village of Essex Junction Trustees
From: Pat Scheidel, Village Manager; Lauren Morrisseau, Finance Director and Susan McNamara-Hill, Clerk/Treasurer, Assistant Managers
Date: July 23, 2013
Re: Flooding Issues

Rick Hamlin, Village Engineer, and Rick Jones, Public Works Superintendent, will be at this Trustees Meeting to discuss the flooding that has recently occurred in the Village. Rick Hamlin will be presenting information gathered and recommendations from a modeling study of the watershed that was involved in the May flooding of 33 Mansfield Ave. and 8 Waverly St. (The Mansfield Avenue Watershed Analysis).

Following that flooding, and anticipating more of the same, the Village Managers made a decision to dig up a drainage pipe on the property at 8 Waverly St. where blockage of the drainage system was expected to be found. This was at the juncture of a 4 foot pipe with a 24" pipe that was installed in 2005. The decision to perform this work on private property was made to benefit the entire neighborhood that was in danger of re-flooding. The expectations in this case were fulfilled. The pipe was indeed blocked with a large amount of debris. We ask that the Trustees ratify this decision.

The Mansfield Avenue Watershed Analysis offers three possible ways to mitigate the flooding on Mansfield. **Staff recommends that the Village implement the first two solutions, those being: 1) Confirm the 24" pipe is clear of debris, and 2) Install inlet structure on arch culvert.** The cost estimate for 1) is $800, and Rick Jones has indicated that the public works department can accomplish 2) for about $6,000.

Mansfield Ave. was not the only area in the Village that experienced flooding. Staff also recommends that a comprehensive study of water issues be undertaken. One of the recommendations in the Mansfield Study was to replace the 24" pipe with a larger pipe. Please note this is a private pipe. A study needs to be done in order to determine if this would adversely affect properties downstream. This would be part of a more comprehensive study.

In addition, **staff recommends that the Trustees authorize the Manager to apply for any FEMA or other Emergency Management Grant money that may become available for the purpose of implementing flood mitigation.** It should be understood that the match on this type of grant is 25%, and that the only time we would act without Trustee approval for a grant application is if we were up against a deadline.

Mansfield Avenue Watershed Analysis

Culvert Analysis

July 8, 2013

Prepared By:

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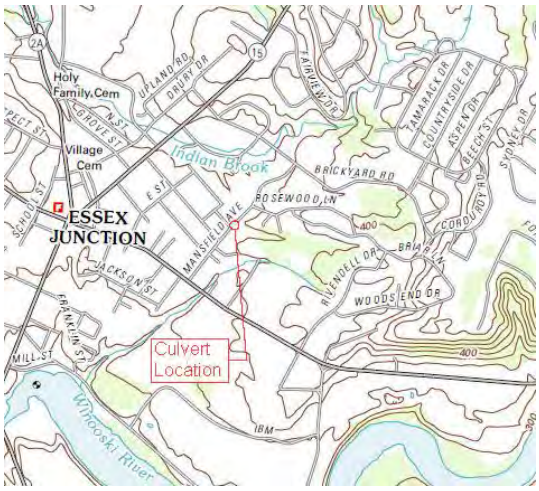
Background

The Village of Essex Junction maintains an existing culvert beneath Mansfield Avenue that is located between Waverly Street and Rosewood Lane. It carries runoff from upland areas to the east and discharges towards the Indian Brook to the north/west. This existing culvert is a 49" x 33" corrugated metal arch pipe approximately 132 feet in length. Historically, this arch culvert discharged into a narrow, deep, open rectangular channel located in the rear yard of the property located at 8 Waverly Street. At the downstream end of this open channel, an existing 24" PVC pipe carried the runoff in a northwesterly direction, beneath a residential driveway, where it discharged into the existing unnamed tributary of the Indian Brook.



In approximately 2005/2006, the property owner at 8 Waverly Street obtained approval to connect the existing 24" pipe with the existing arch culvert, to allow them to fill the open channel in their rear yard for safety and aesthetic purposes. At that point, no documented drainage problems existed and the work was completed by the property owner.

During the afternoon of Wednesday May 22, 2013 an intense line of thunderstorms with heavy rain passed slowly over Essex Junction. With the heavy rainfall in such a short duration of time, it was reported that flooding occurred at 33 Mansfield Avenue as a result of the ponding of water at the inlet to the arch culvert. Based on data reported by the National Weather Service for Burlington, VT, a record 1.43 inches of rainfall was recorded.

On the following day, another line of severe thunderstorms with heavy rain again passed over Essex Junction in the evening. As a result of this storm event, flooding again occurred at 33 Mansfield Avenue due to the ponding of water at the inlet to the arch culvert. However, this time the water rose to an elevation at which it entered into the residence through a doorway to the basement level. The water continued to rise during this storm event until it overtopped Mansfield Avenue. Water overtopping the roadway flowed into the basement of the residence at 8 Waverly Street. Water overtopping the roadway then flowed in a northwesterly direction, generally following the subsurface drainage piping to the existing drainage channel below the outlet to the 24" pipe. A record-matching 2.26 inches of rainfall was recorded on May 23, 2013 for Burlington, VT, according to the National Weather Service.

In response to the flooding that occurred and potential impacts to the public roadway and private properties, the Village of Essex Junction requested that we perform an analysis of the piping system to determine if it is adequately sized in accordance with the Village of Essex Junction Land Development Code.

Additional Flooding

While the study was being performed, additional flooding events occurred during the month of June, 2013. On June 25, 2013, as a result of another short but intense thunderstorm, flooding of the rear lawn area and basement level of the residence at 33 Mansfield Avenue again occurred. Based on field observations at the time of the flooding, it became apparent that the drainage infrastructure was not functioning properly. Additional field studies were performed on 06/26/13 to confirm that the arch culvert and connection of the arch culvert to the 24" pipe (completed by the property owner at 8 Waverly Street) was clear of debris. As a result of these field studies, it was suspected that the piping was restricted in the area of the connection of the arch culvert and the 24" pipe.

While the arch culvert is publicly owned and maintained, the connection of the 24" pipe and the 24" pipe itself downstream of the arch culvert is privately owned. However, as the flooding that had occurred had overtopped the roadway and flooded two adjacent residences, the Village worked in conjunction with the property owners to obtain permission to excavate in the area of the 24"/arch culvert connection to confirm that the pipes were clear. Upon excavating this connection, it was discovered that a significant amount of debris had become clogged at the entrance to the 24" pipe, resulting in significant restriction and reduction in pipe capacity. The debris removed from the pipe

included numerous pieces of firewood, small logs and branches with cut ends, and a 3" x 4" x 8' long landscaping timber. Based on discussions with the property owners at 33 Mansfield Avenue, it was noted that there had been firewood stacked on the lawn area on their property adjacent to the inlet to the arch culvert. It appears as though the ponding of water at the arch culvert inlet resulted in debris being swept down the arch culvert. A new concrete manhole structure with a catch basin grate was installed at the end of the arch culvert and connected to the 24" pipe at the conclusion of this work. This new structure will provide access for inspection and maintenance at the transition between these two pipes.

Despite the repair completed on June 27, 2013, another severe thunderstorm event on June 29, 2013 caused flooding of the property at 33 Mansfield Avenue. Based on discussions with the property owner on this day, the water reached the residence, but did not enter. The property owner at 8 Waverly Street indicated that water had risen in the new manhole structure right to the top of the grate. While we were on-site, we observed the water level in the structures and the lawn area at 33 Mansfield Avenue receding very rapidly once the storm had passed; much faster than previous events prior to the repair on June 27, 2013. With these events in mind, we performed the analysis of the watershed and piping system.

Drainage Area

The first step in the analysis was to determine the drainage area for the existing arch culvert. Utilizing existing digital orthophoto imagery available from the Vermont Center for Geographic Information (VCGI), a base plan was prepared of the area of the Village served by the existing culvert. Existing topography within the area was obtained from the VCGI in the form of a digital terrain model from which existing topography information was extracted. Please refer to the attached Site Location Plan. Using this information, in addition to existing mapping of the municipal storm drainage system, the approximate limits of the drainage area associated with the arch culvert were delineated. The drainage area for the arch culvert was determined to be approximately 52.5 acres in size. The area consists of a mix of residential properties and roadways, as well as undeveloped wooded areas of varying slopes.

A site visit of the area around the arch culvert was also performed. During this visit, field measurements were collected to determine the relative elevations of the culvert inlet, existing ground elevation of the lawn area above the culvert, existing elevation of the basement doorway sill of the residence at 33 Mansfield Avenue, and existing elevations of the public sidewalk and roadway above the culvert. The two existing catch basins in the roadway that collect stormwater runoff from the roadway and limited surrounding areas that are connected directly to the arch culvert were also inspected. Using the base plan described above, the approximate limits of the additional drainage area flowing to these two existing catch basins was also delineated. This area is approximately 1.6 acres in size and similar to above, this area consisted of a mix of residential properties, roadways, and undeveloped wooded areas.

Presented below is a table summarizing the two drainage areas and the land uses associated with the arch culvert. Please refer to the attached Drainage Area plan depicting the approximate limits of the two drainage areas.

Table 1 – Watershed Characteristics / Land Use					
	Hydrologic Soil Group A	Hydrologic Soil Group B	Hydrologic Soil Group C	Hydrologic Soil Group D	Total Area
Drainage Area A					
Roads, Walks, Driveways, Buildings	0.704 ac	6.100 ac	0.000 ac	0.630 ac	7.434 ac
Woods / Grass	5.797 ac	31.705 ac	0.000 ac	7.534 ac	45.036 ac
Drainage Area B					
Roads, Walks, Driveways, Buildings	0.333 ac	0.000 ac	0.000 ac	0.146 ac	0.479 ac
Woods / Grass	0.820 ac	0.000 ac	0.000 ac	0.276 ac	1.096 ac

Soil information within the drainage areas was obtained from the Natural Resources Conservation Service. Soil types varied from loamy sands, to very fine sandy loam, to clay soils. The attached Soils Plan depicts the various soil types with the drainage areas, with corresponding areas for each soil type, and a description of each soil type.

Rainfall Data

The Vermont Stormwater Management Manual (VSWMM) presents information on the rainfall depths associated with various 24-Hour storm events in Chittenden County. These are the design storm events that are typically utilized for the analysis and design of drainage facilities per the VSWMM. This information is presented in Table 2 below.

As a comparison, localized rainfall data for Essex Junction was obtained from the Northeast Regional Climate Center. This data was based on a study to update extreme precipitation statistics in the Northeast US utilizing current data collected within the last 20 years or more. The 24-Hour rainfall depths presented for Essex Junction were similar but slightly less than those presented in the VSWMM, as shown in Table 2.

Table 2 – Rainfall Depths for Chittenden County, VT		
Design Storm Event	Vermont Stormwater Management Manual	Northeast Regional Climate Center
	Inches of Rainfall	Inches of Rainfall
1-Year, 24-Hour	2.1	1.96
2-Year, 24-Hour	2.3	2.22
10-Year, 24-Hour	3.2	3.14
25-Year, 24-Hour	4.2 *	3.81
100-Year, 24-Hour	5.2	5.14

* 25-Year, 24-Hour rainfall estimate based on TR-55 manual as published by the Natural Resources Conservation Service.

In addition, local precipitation data for the months of May and June were obtained from the National Weather Service for Burlington, VT and reviewed as part of this study. As mentioned above, the rainfall total for Burlington, VT for May 22, 2013 was a record setting 1.43 inches and on the following day, May 23, 2013 it was a record tying 2.26 inches of rain. Overall, May 2013 was the wettest May on record for Burlington, VT with 8.74 inches of rain. June, 2013 was another wet month for Burlington, VT with a total of 9.86 inches of rainfall, exceeding the normal June rainfall of 3.69 inches and just missing the previous record of 9.92 inches of rainfall for the month.

During these recent storm events, local observations in Essex Junction suggest rainfall totals even higher than those recorded for Burlington, VT. For example, a severe thunderstorm event with heavy rainfall occurred in Essex Junction

on July 4, 2013. The National Weather Service recorded a record 1.89 inches of rainfall for July 4, 2013. However, a local rain gauge located along Mansfield Avenue recorded approximately 2.25 inches of rainfall during the approximately 2 hour storm event.

Hydrology

Using HydroCAD stormwater modeling software, the estimated runoff volumes and rates from the drainage areas were calculated based on the data collected above, in accordance with the Soil Conservation Service unit hydrograph procedures, commonly referred to as the TR-20 runoff method. The estimated runoff values in cubic feet per second (cfs) flowing to the arch culvert for various 24-Hour design storm events are presented in Table 3 below.

Table 3 – Watershed Hydrology

Design Storm Event	Runoff Rate, cfs	Runoff Volume, ac-ft
25-Year, 24-Hour	28.673	6.518
100-Year, 24-Hour	44.442	9.744

Culvert Analysis

In addition to hydrologic modeling, the HydroCAD software referred to above also performs hydraulic computations for various drainage components, including culverts. Accordingly, the arch culvert and 24" pipe were modeled for various storm events, with the results presented in Table 4.

Table 4 – Culvert Hydraulic Analysis, 'normal' ground moisture conditions

	Arch Culvert only	Arch Culvert + 24" Pipe	
		Arch Culvert	24" Pipe
Design Storm Event	Max Water Elev	Max Water Elev	Max Water Elev
25-Year, 24-Hour	92.13	93.81	92.99
100-Year, 24-Hour	93.05	100.00	98.03
Invert Elevation	89.97	89.97	88.40

As mentioned above, field measurements were made to determine the relative elevations of the culvert inlet, existing ground elevation of the lawn area above the culvert, existing elevation of the basement doorway sill of the residence at 33 Mansfield Avenue, and existing elevations of the public sidewalk above the arch culvert inlet. This information is shown below.

Culverts in the Village of Essex Junction are to be sized for the 25-Year, 24-Hour Design Storm Event in accordance with the Village of Essex Junction Land Development Code and consistent with the Vermont Agency of Transportation (VTRANS) Hydraulics Manual. Another consideration in the design of a culvert is the allowable headwater at the culvert inlet. Allowable headwater is the depth of water that is able to be ponded at the upstream end of the culvert without allowing floodwaters to enter the interior of buildings or other structures. In accordance with the VTrans Hydraulics Manual, the allowable headwater for culverts up to and including 36" in rise is 1.5 times the diameter (HW/D < 1.5).

The results of the hydraulic analysis show that the arch culvert itself handles the 25-Year storm event with a headwater to depth ratio (HW/D) less than 1.0 and when evaluated in conjunction with the 24" pipe, the HW/D ratio is 1.4. With the door sill elevation at 33 Mansfield Avenue of 95.87, the HW/D ratio at the inlet to the arch culvert would need to be 2.15 for the water to reach the door sill elevation. The results of the analysis show that the arch

culvert and 24" pipe comply with the Land Development Code and VTrans guidelines for culverts under normal ground moisture conditions.

With record rainfall during the month of May followed by near record rainfall during the month of June, ground conditions are likely saturated. With saturated ground conditions combined with the very intense, short duration storm events with very heavy rainfall totals, little rainfall is able to infiltrate into the ground, resulting in higher than normal stormwater runoff rates. The HydroCAD software takes into account the Antecedent Moisture Condition (AMC) of the ground to allow for the modeling of dry, normal, or wet conditions. In an effort to evaluate the recent short duration storms with heavy rainfall totals, an additional model run was performed for the July 4, 2013 storm event described above, assuming both 'normal' and 'wet' conditions as a comparison; with the results as presented in Table 5 below.

Table 5 – Culvert Hydraulic Analysis of July 4, 2013 storm event

	Arch Culvert only	Arch Culvert + 24" Pipe	
		Arch Culvert	24" Pipe
07/04/13 Storm Event	Max Water Elev	Max Water Elev	Max Water Elev
'normal' conditions	91.21	91.25	90.02
'wet' conditions	92.45	95.90	94.69
Invert Elevation	89.97	89.97	88.40

The results of the modeling presented in Table 5 above show significantly higher runoff rates with the 'wet' conditions; with significant increases in the headwater at the culvert inlet. These results are consistent with field observations during the recent intense thunderstorm events, where floodwaters have risen to the lawn area and

basement door sill at 33 Mansfield Avenue. Once the storm event has concluded, water levels recede relatively quickly.

Recommendations

This analysis has shown that the arch culvert and related 24" piping system are adequately sized for a 25-year, 24-Hour design storm event during normal ground moisture conditions, which would be considered a typical design condition. However, based on this analysis, we offer the following recommendations presented below.

1) **Confirm 24" pipe is clear of debris** – In consideration of the type and amount of debris (firewood, cut logs and branches, sticks, etc.) that were found to be clogged at the entrance to the 24" pipe, it is possible that pieces of this debris had entered into the 24" pipe. As this 24" pipe has a bend in it, we recommend that an internal video inspection be performed on this pipe to ensure that this pipe is clear of debris.

   Estimated Cost = $800

2) **Install inlet structure on arch culvert** – Currently the inlet to the arch culvert is open and unprotected. This existing configuration is susceptible to debris in the upstream channel entering the pipe, resulting in the potential for pipe blockage and subsequent flooding of the nearby residence and overtopping of the public roadway. In addition, this existing configuration presents a safety concern for young children, pets, etc. entering or being carried into the pipe by flowing water. Accordingly, we recommend the installation of an inlet structure at the entrance to the arch culvert. This structure could be equipped with a large opening to allow entrance of water, but protected with bars to prevent entrance by debris or children. Recognizing that the protected opening may still be susceptible to clogging by debris, the inlet structure could be equipped with grated openings in the top of the structure to allow water to enter the arch culvert if the main opening is blocked. These openings in the top could be provided with bee-hive type grates, which are less susceptible to clogging.

   Estimated Cost

Design	$ 1,000
Construction	$ 10,000
Inspection	$ 1,000
Project Total	$ 12,000

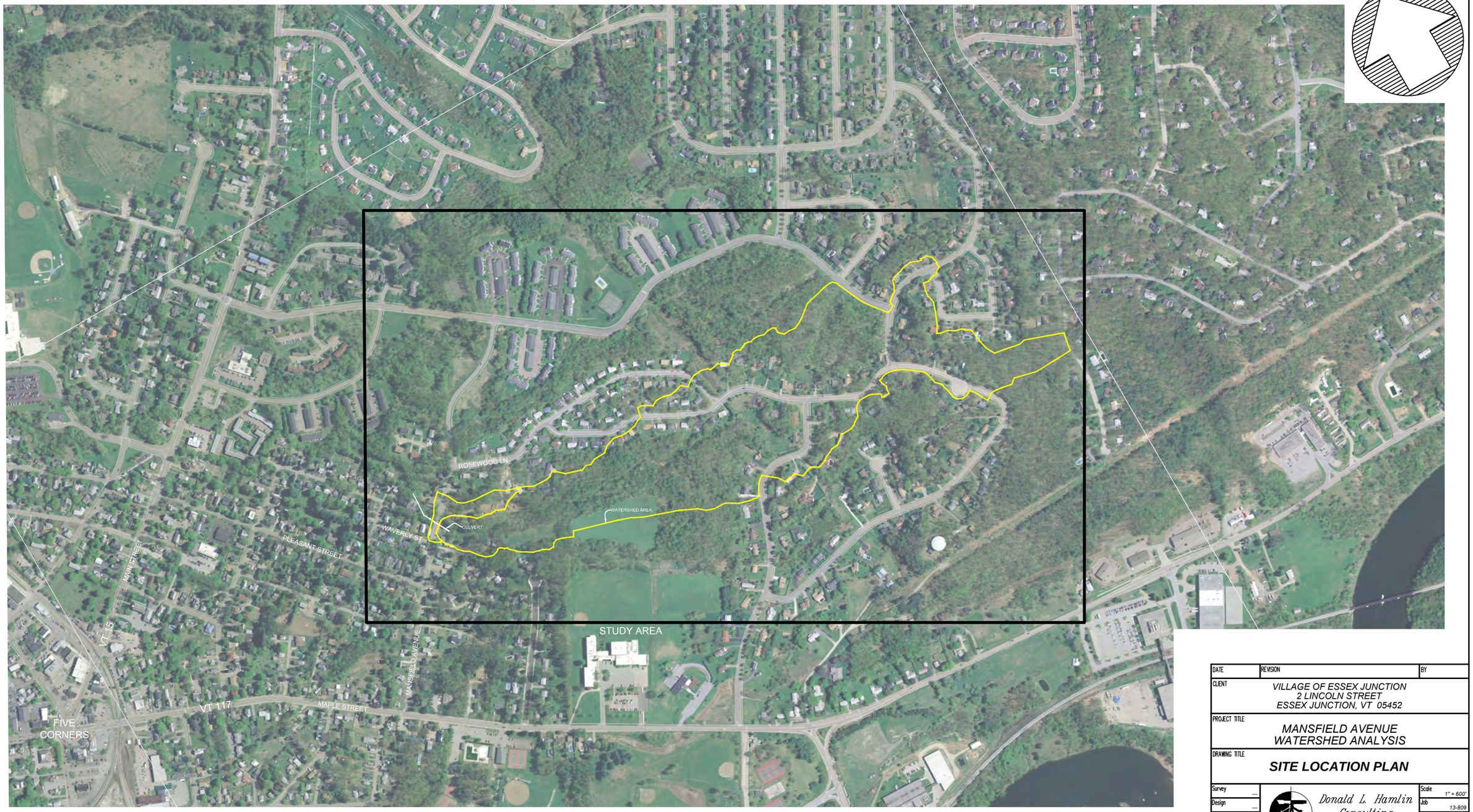
3) **Replace 24" pipe** – With back-to-back record setting and near-record setting rainfall totals during the months of May and June, the ground moisture levels are much higher than normal. These saturated ground conditions combined with short duration, very intense thunderstorm events with heavy rainfall present very high stormwater runoff rates that are resulting in increased ponding at the inlet to the arch culvert due to the direct connection to the 24" pipe. This increased ponding not only results in floodwaters entering the residence, but also presents potential overtopping of the roadway. Accordingly, as the 24" pipe is limiting the capacity of the arch culvert, we recommend that the 24" pipe be replaced with a 42" circular pipe. This will greatly reduce the potential flooding in this area during not only the 25-Year design storm event, but also the 100-Year design storm event. Table 6 below presents the results of the culvert analysis with the arch culvert connected to a new 42" pipe in place of the 24" pipe.

   Estimated Cost

Design	$ 5,000
Construction	$ 50,000
Inspection	$ 5,000
Project Total	$ 60,000

Table 6 – Culvert Hydraulic Analysis with Arch Culvert + New 42" Pipe		
	Arch Culvert + New 42" Pipe	
	Arch Culvert	42" Pipe
Design Storm Event	Max Water Elev	Max Water Elev
25-Year, 24-Hour		
'normal' conditions	92.15	90.46
'wet' conditions	94.70	91.58
100-Year, 24-Hour		
'normal' conditions	93.23	91.10
'wet' conditions	98.45	92.79
Invert Elevation	89.97	88.40

With the current 24" pipe in place, it serves as a 'controlling' or limiting device for the flow of water in the downstream channel. If the 24" pipe is replaced with a larger pipe with additional capacity, the downstream channel is likely to experience increased flows during storm events. Accordingly, any replacement and upsizing of the 24" pipe must be accompanied by an analysis of the downstream drainage channel and infrastructure for any impacts thereto. The above estimated cost figures do not include this downstream analysis.



DATE	REVISION	BY

CLIENT
VILLAGE OF ESSEX JUNCTION
2 LINCOLN STREET
ESSEX JUNCTION, VT 05452

PROJECT TITLE
MANSFIELD AVENUE
WATERSHED ANALYSIS

DRAWING TITLE
SITE LOCATION PLAN

Survey	---
Design	---
Drawn	MLD
Checked	JPK
Date	07/08/2013

Donald L. Hamlin Consulting Engineers, Inc.
136 Pearl Street
Essex Junction, Vermont

Scale	1" = 600'
Job	13-809
File	
Drawing	1

TIME OF CONCENTRATION

ROSEWOOD LN

EXISTING
24" PVC CULVERT

DRAINAGE AREA B
(TO CB'S IN ROAD)

DRAINAGE AREA A
(TO ARCH CULVERT)

WAVERLY ST

EXISTING
49" x 33"
CMP ARCH CULVERT

33 MANSFIELD AVENUE

8 WAVERLY STREET

0 300 600
Feet

DATE	REVISION	BY

CLIENT
VILLAGE OF ESSEX JUNCTION
2 LINCOLN STREET
ESSEX JUNCTION, VT 05452

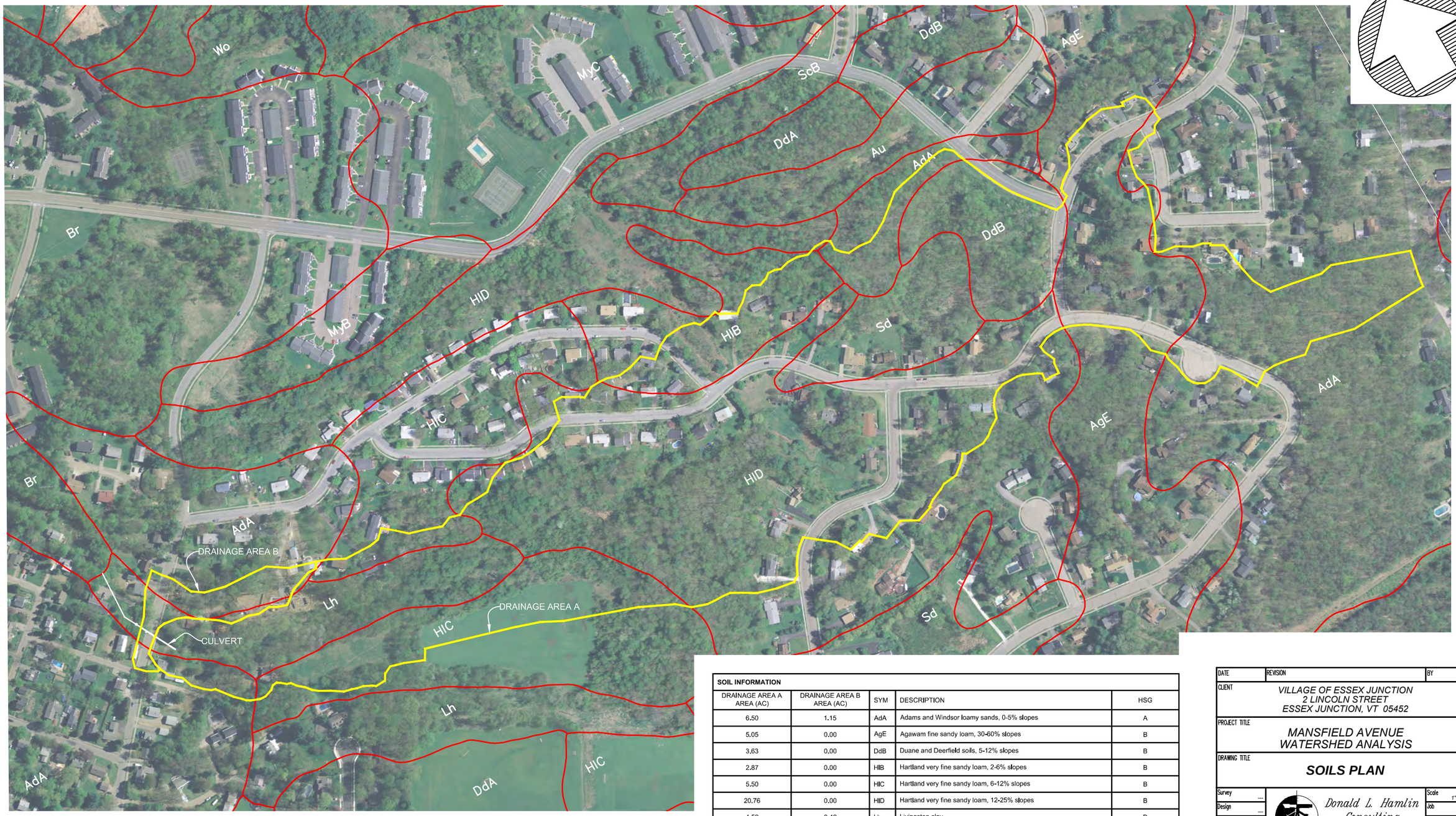
PROJECT TITLE
MANSFIELD AVENUE
WATERSHED ANALYSIS

DRAWING TITLE
DRAINAGE AREA

Survey	---
Design	---
Drawn	MLD
Checked	JPK
Date	07/08/2013

Donald L. Hamlin
Consulting
Engineers, Inc.
136 Pearl Street
Essex Junction, Vermont

Scale	1" = 300'
Job	13-809
File	
Drawing	2



SOIL INFORMATION				
DRAINAGE AREA A AREA (AC)	DRAINAGE AREA B AREA (AC)	SYM	DESCRIPTION	HSG
6.50	1.15	AdA	Adams and Windsor loamy sands, 0-5% slopes	A
5.05	0.00	AgE	Agawam fine sandy loam, 30-60% slopes	B
3.63	0.00	DdB	Duane and Deerfield soils, 5-12% slopes	B
2.87	0.00	HIB	Hartland very fine sandy loam, 2-6% slopes	B
5.50	0.00	HIC	Hartland very fine sandy loam, 6-12% slopes	B
20.76	0.00	HID	Hartland very fine sandy loam, 12-25% slopes	B
4.52	0.42	Lh	Livingston clay	D
3.64	0.00	Sd	Scarboro loam	D

DATE	REVISION	BY

CLIENT
VILLAGE OF ESSEX JUNCTION
2 LINCOLN STREET
ESSEX JUNCTION, VT 05452

PROJECT TITLE
MANSFIELD AVENUE
WATERSHED ANALYSIS

DRAWING TITLE
SOILS PLAN

Survey	---
Design	---
Drawn	MLD
Checked	JPK
Date	07/08/2013

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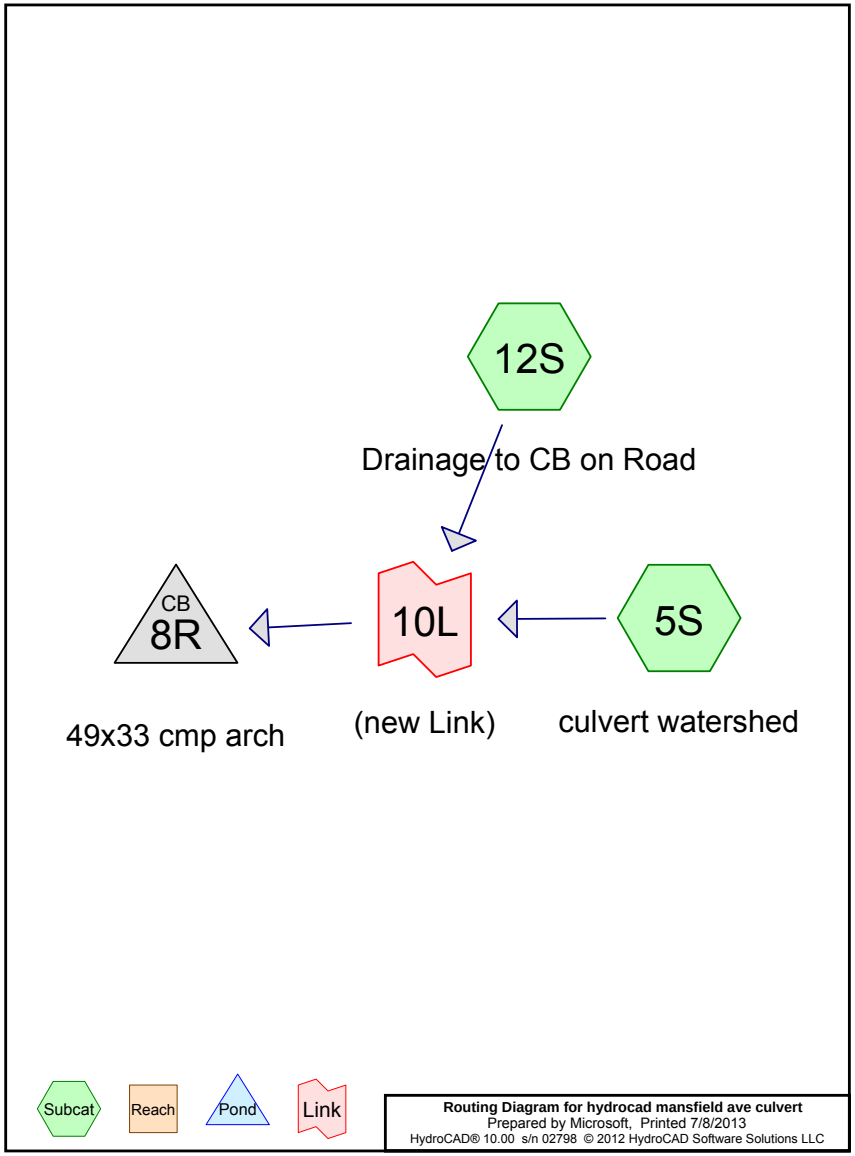
136 Pearl Street
Essex Junction, Vermont

Scale	1" = 300'
Job	13-809
File	
Drawing	3

HydroCAD Modeling Results

Arch Culvert only
Normal ground moisture conditions
25 Year, 24-Hour and 100 Year, 24-Hour Storm Events



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=1.46"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=28.420 cfs 6.405 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.86"
Flow Length=511' Tc=33.4 min CN=60 Runoff=0.866 cfs 0.113 af

Pond 8R: 49x33 cmp arch Peak Elev=92.13' Inflow=28.673 cfs 6.518 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=28.673 cfs 6.518 af

Link 10L: (new Link) Inflow=28.673 cfs 6.518 af
Primary=28.673 cfs 6.518 af

Total Runoff Area = 54.045 ac Runoff Volume = 6.518 af Average Runoff Depth = 1.45"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

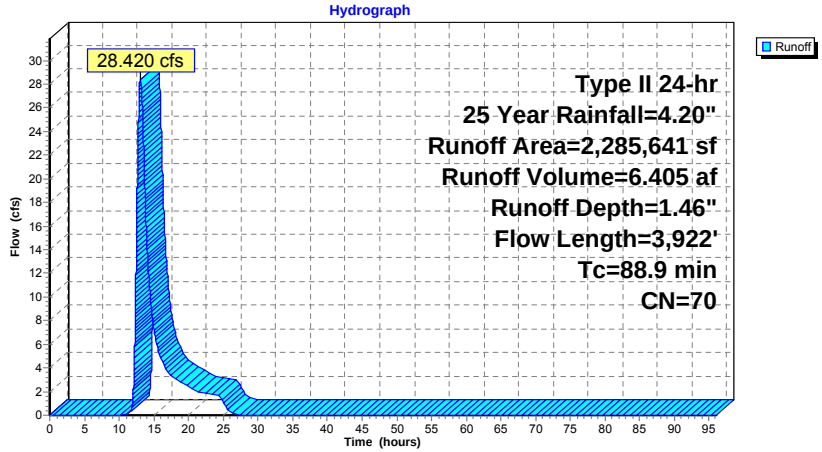
Runoff = 28.420 cfs @ 13.13 hrs, Volume= 6.405 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

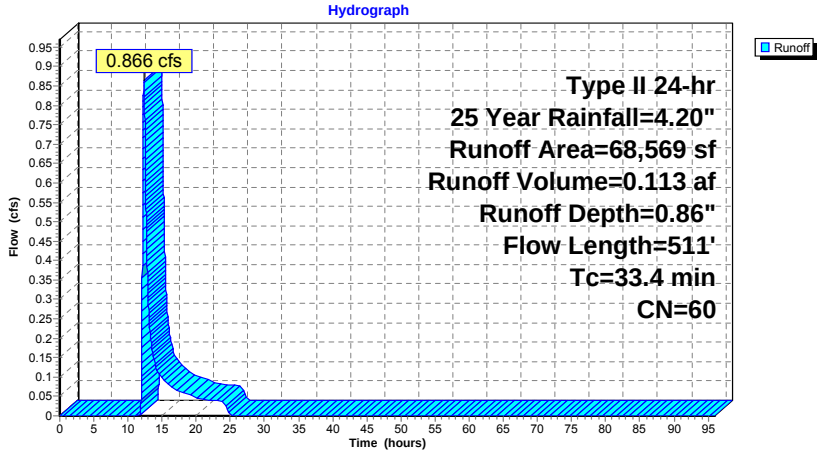
Runoff = 0.866 cfs @ 12.35 hrs, Volume= 0.113 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 2.16' above defined flood level

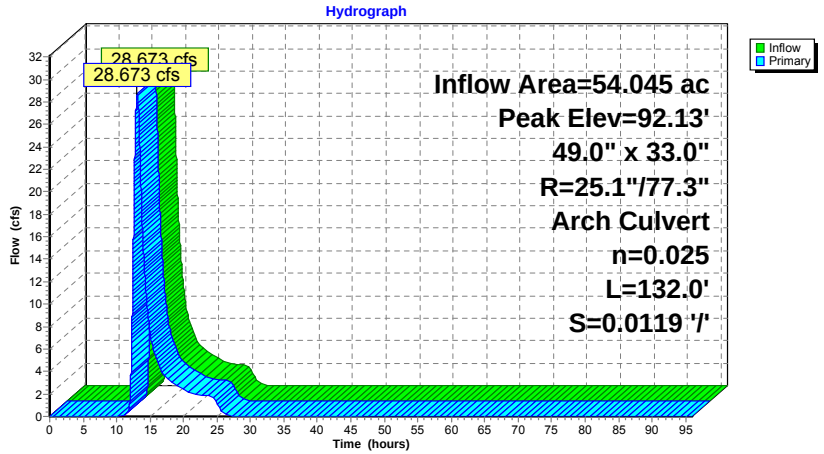
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Outflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 92.13' @ 13.05 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=28.673 cfs @ 13.05 hrs HW=92.13' (Free Discharge)
↳**1=Culvert** (Inlet Controls 28.673 cfs @ 3.71 fps)

Pond 8R: 49x33 cmp arch

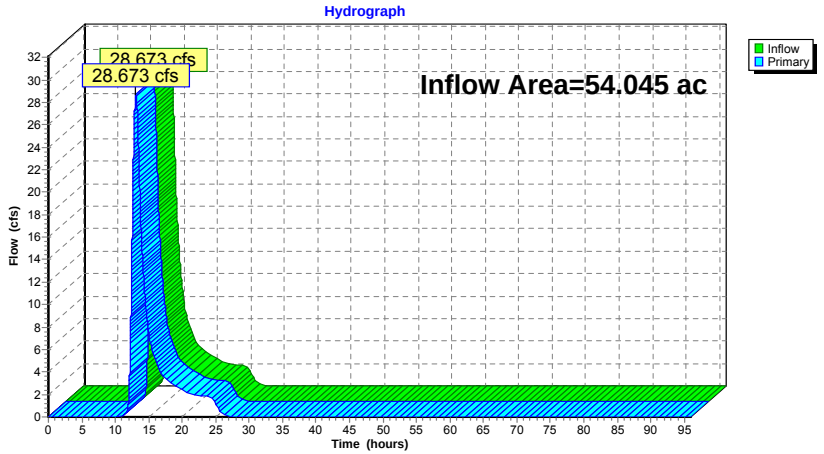


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=2.19"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=44.007 cfs 9.558 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=1.42"
Flow Length=511' Tc=33.4 min CN=60 Runoff=1.593 cfs 0.186 af

Pond 8R: 49x33 cmp arch Peak Elev=93.05' Inflow=44.442 cfs 9.744 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=44.442 cfs 9.744 af

Link 10L: (new Link) Inflow=44.442 cfs 9.744 af
Primary=44.442 cfs 9.744 af

Total Runoff Area = 54.045 ac Runoff Volume = 9.744 af Average Runoff Depth = 2.16"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

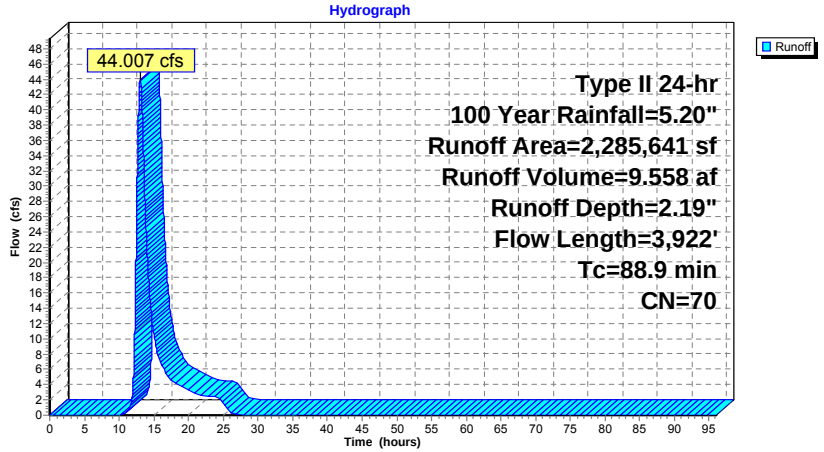
Runoff = 44.007 cfs @ 13.04 hrs, Volume= 9.558 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

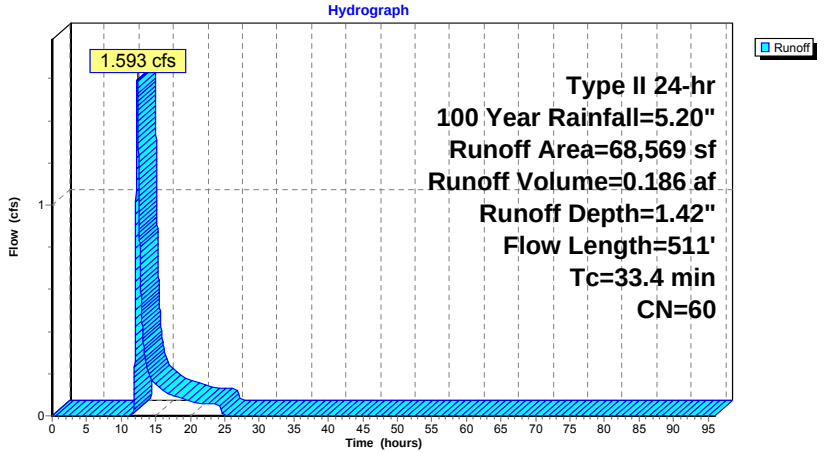
Runoff = 1.593 cfs @ 12.32 hrs, Volume= 0.186 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 3.08' above defined flood level

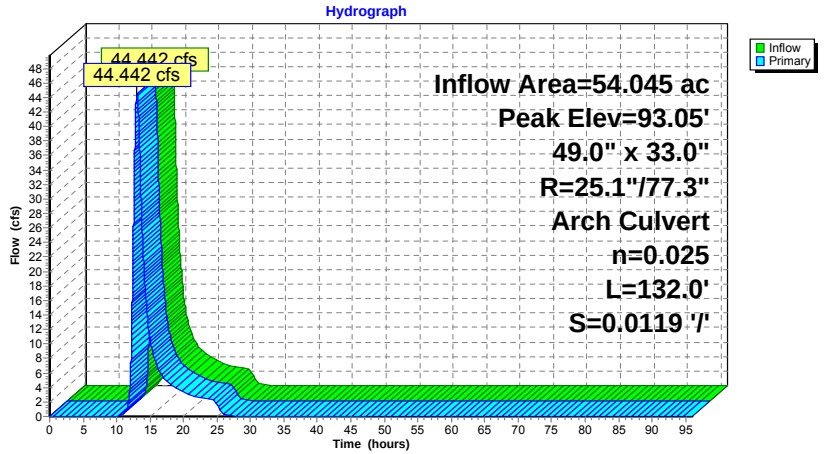
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Outflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 93.05' @ 13.04 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=44.441 cfs @ 13.04 hrs HW=93.05' (Free Discharge)
↳**1=Culvert** (Inlet Controls 44.441 cfs @ 4.99 fps)

Pond 8R: 49x33 cmp arch

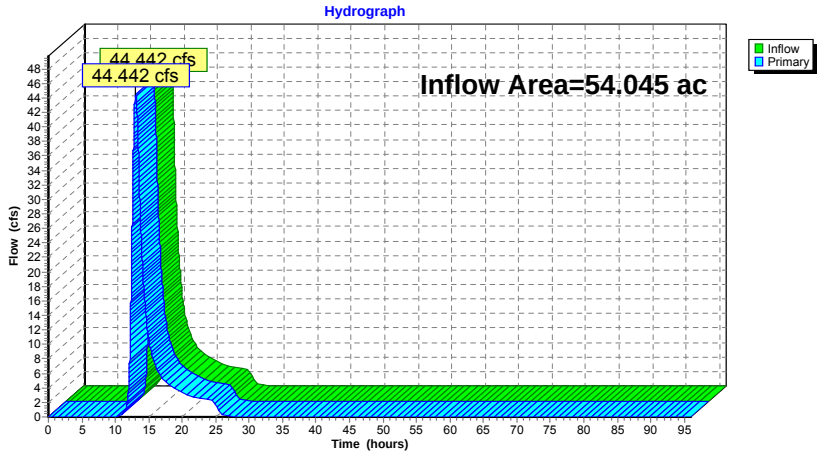


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min

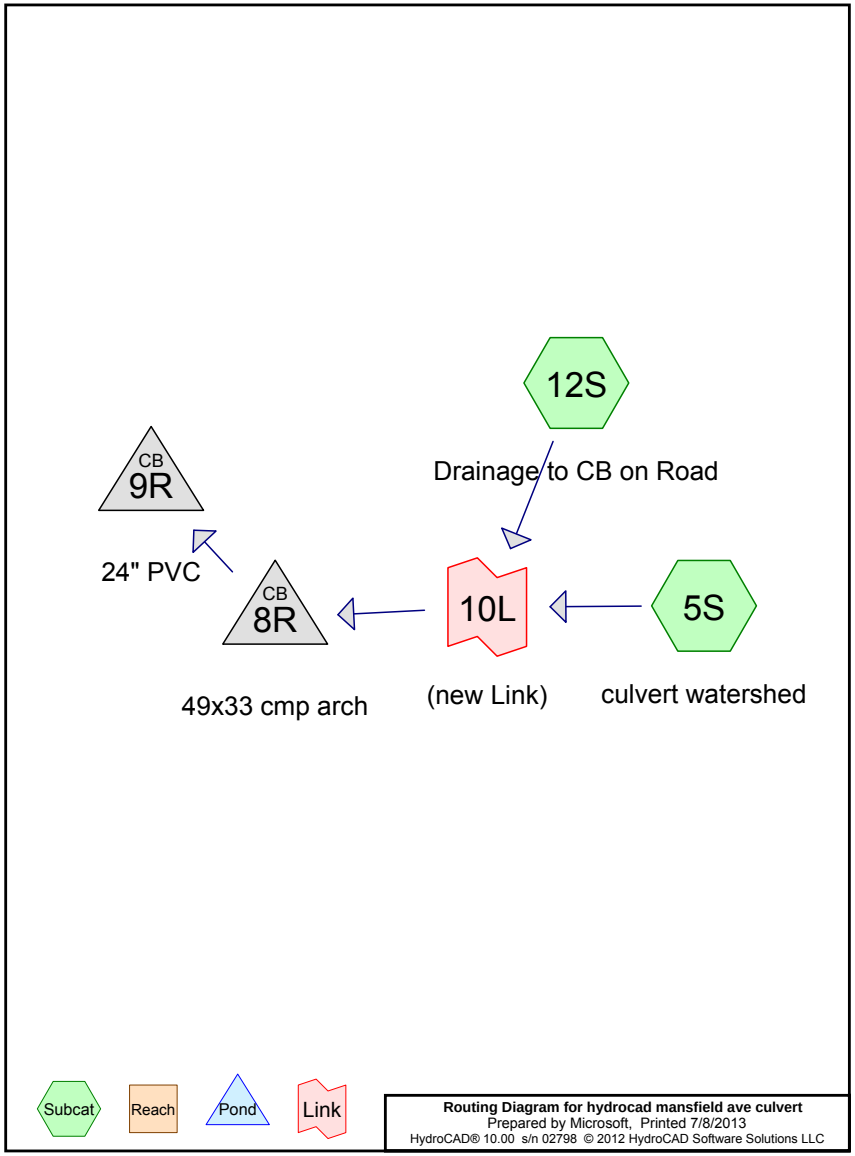
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + 24" Pipe
normal ground moisture conditions
25 Year, 24-Hour and 100 Year, 24-Hour Storm Events



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=1.46"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=28.420 cfs 6.405 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.86"
Flow Length=511' Tc=33.4 min CN=60 Runoff=0.866 cfs 0.113 af

Pond 8R: 49x33 cmp arch Peak Elev=93.81' Inflow=28.673 cfs 6.518 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=28.673 cfs 6.518 af

Pond 9R: 24" PVC Peak Elev=92.99' Inflow=28.673 cfs 6.518 af
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=28.673 cfs 6.518 af

Link 10L: (new Link) Inflow=28.673 cfs 6.518 af
Primary=28.673 cfs 6.518 af

Total Runoff Area = 54.045 ac Runoff Volume = 6.518 af Average Runoff Depth = 1.45"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

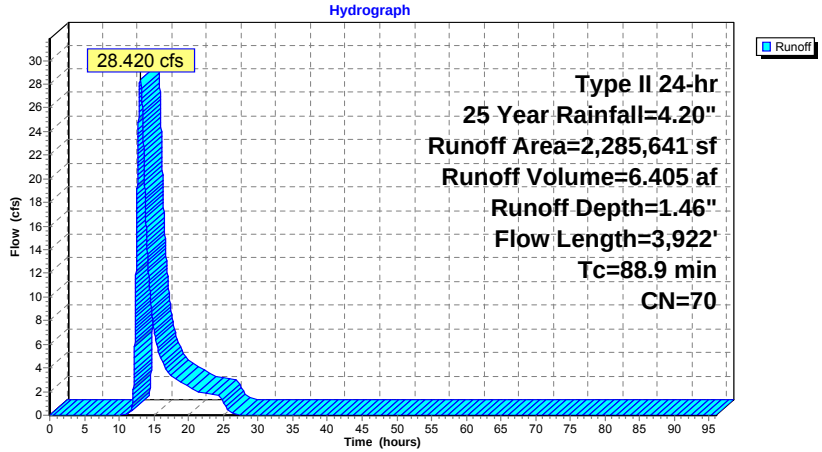
Runoff = 28.420 cfs @ 13.13 hrs, Volume= 6.405 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

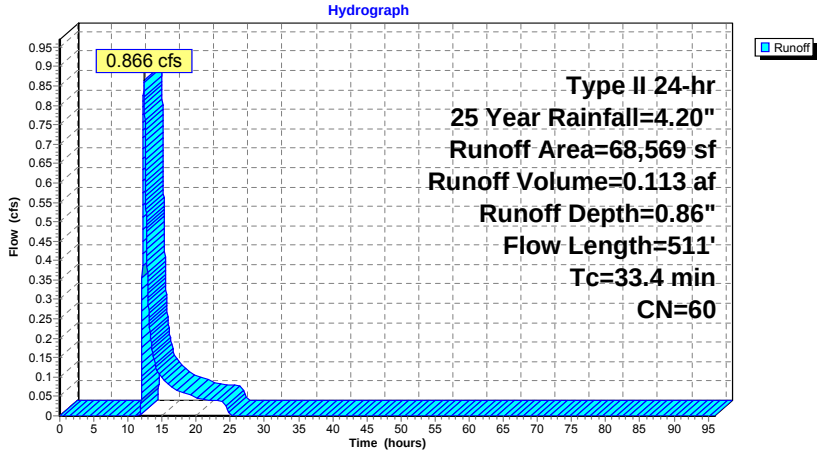
Runoff = 0.866 cfs @ 12.35 hrs, Volume= 0.113 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 3.84' above defined flood level

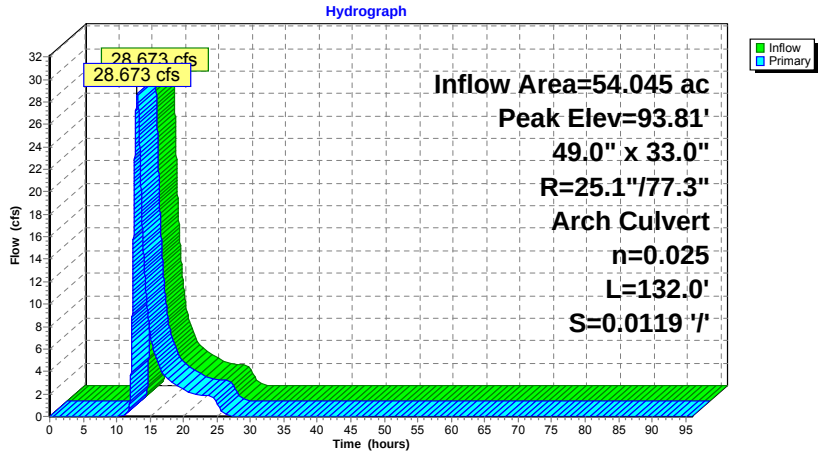
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Outflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 93.81' @ 13.05 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=28.673 cfs @ 13.05 hrs HW=93.81' TW=92.99' (Dynamic Tailwater)
↳**1=Culvert** (Outlet Controls 28.673 cfs @ 3.22 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[58] Hint: Peaked 4.59' above defined flood level

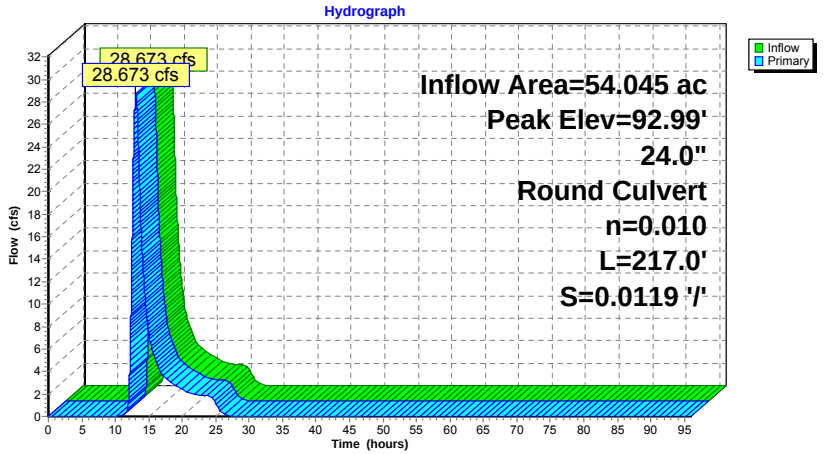
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Outflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 92.99' @ 13.05 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=28.673 cfs @ 13.05 hrs HW=92.99' (Free Discharge)
↳**1=Culvert** (Inlet Controls 28.673 cfs @ 9.13 fps)

Pond 9R: 24" PVC

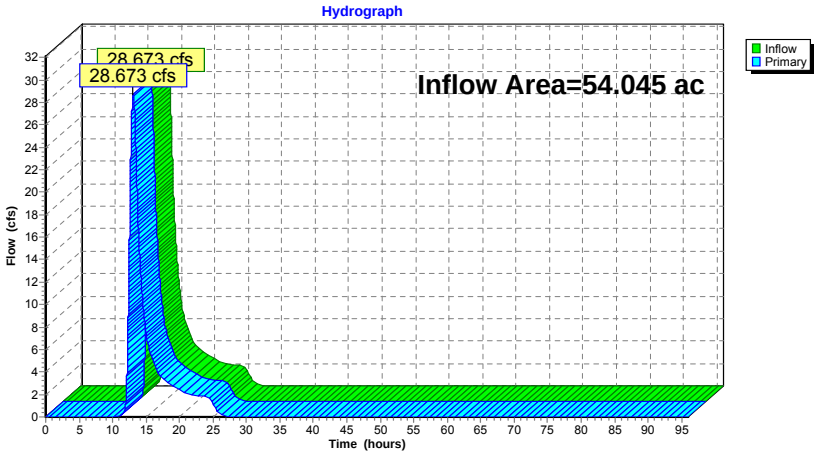


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=2.19"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=44.007 cfs 9.558 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=1.42"
Flow Length=511' Tc=33.4 min CN=60 Runoff=1.593 cfs 0.186 af

Pond 8R: 49x33 cmp arch Peak Elev=100.00' Inflow=44.442 cfs 9.744 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=44.442 cfs 9.744 af

Pond 9R: 24" PVC Peak Elev=98.03' Inflow=44.442 cfs 9.744 af
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=44.442 cfs 9.744 af

Link 10L: (new Link) Inflow=44.442 cfs 9.744 af
Primary=44.442 cfs 9.744 af

Total Runoff Area = 54.045 ac Runoff Volume = 9.744 af Average Runoff Depth = 2.16"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

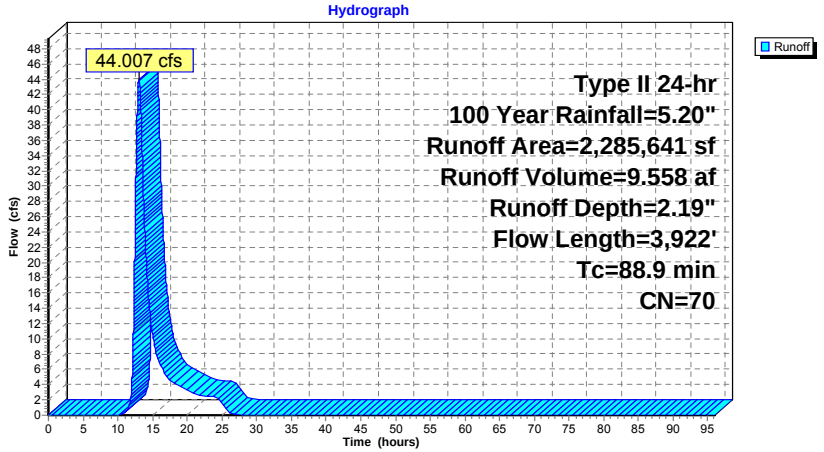
Runoff = 44.007 cfs @ 13.04 hrs, Volume= 9.558 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

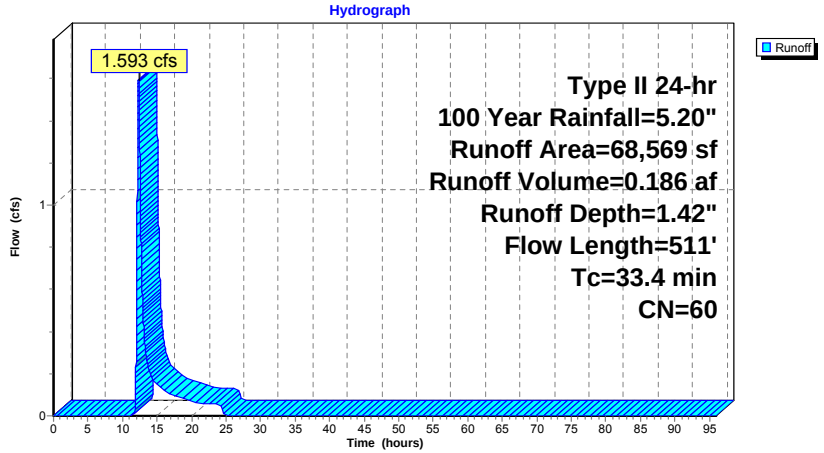
Runoff = 1.593 cfs @ 12.32 hrs, Volume= 0.186 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 10.03' above defined flood level

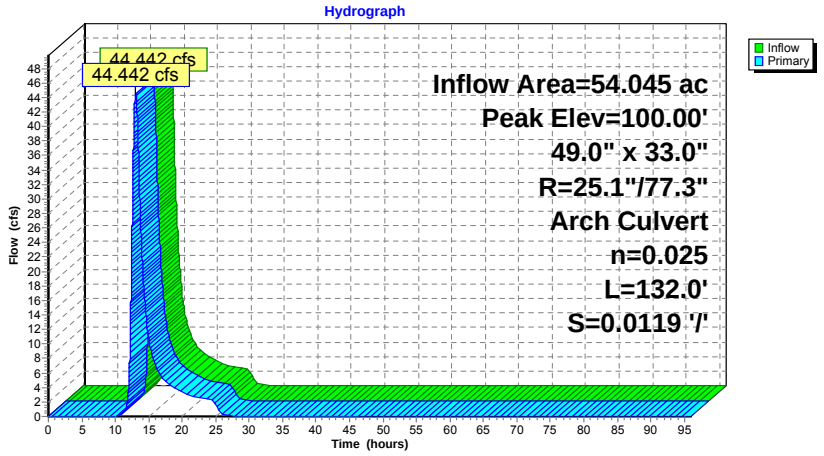
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Outflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 100.00' @ 13.04 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=44.441 cfs @ 13.04 hrs HW=100.00' TW=98.03' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 44.441 cfs @ 4.99 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[58] Hint: Peaked 9.63' above defined flood level

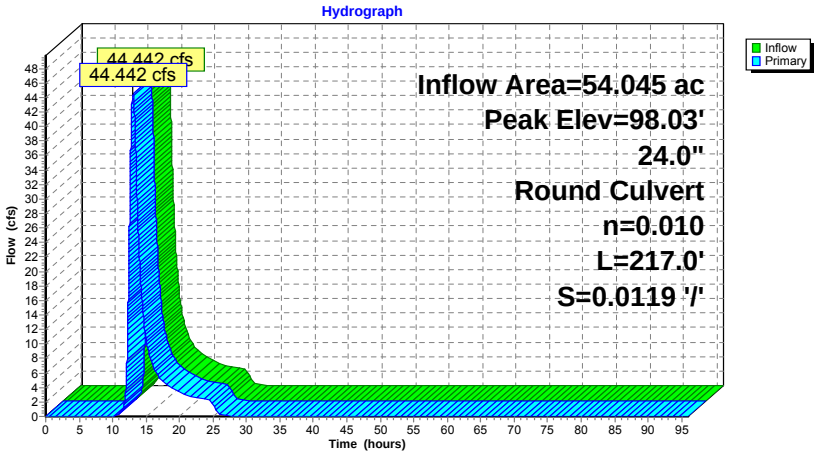
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Outflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 98.03' @ 13.04 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=44.441 cfs @ 13.04 hrs HW=98.03' (Free Discharge)
↳**1=Culvert** (Inlet Controls 44.441 cfs @ 14.15 fps)

Pond 9R: 24" PVC

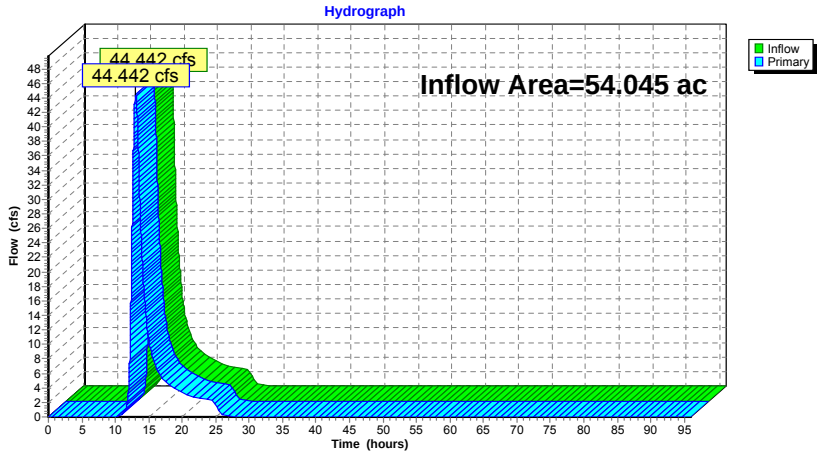


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min

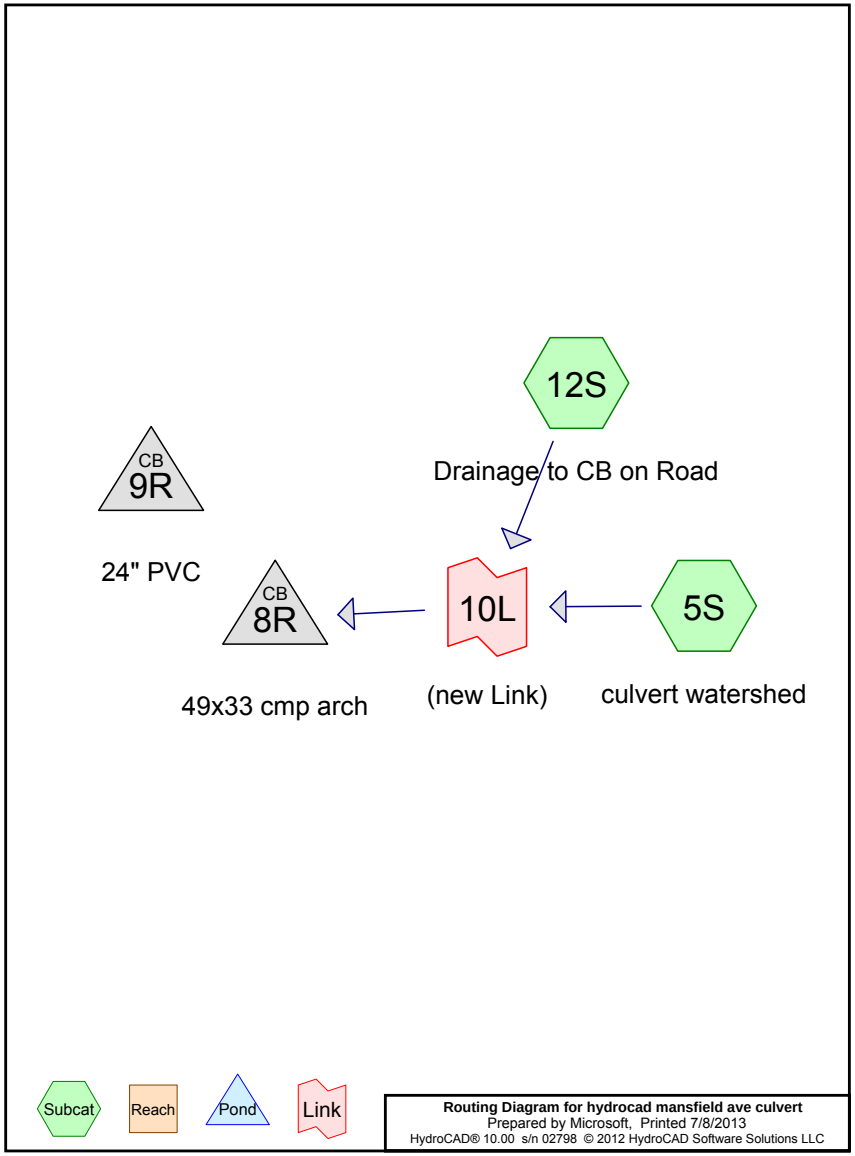
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert only
normal ground moisture conditions
July 4, 2013 Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=0.34"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=11.729 cfs 1.494 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.11"
Flow Length=511' Tc=33.4 min CN=60 Runoff=0.175 cfs 0.015 af

Pond 8R: 49x33 cmp arch Peak Elev=91.21' Inflow=11.814 cfs 1.508 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=11.814 cfs 1.508 af

Pond 9R: 24" PVC Peak Elev=0.00'
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Primary=0.000 cfs 0.000 af

Link 10L: (new Link) Inflow=11.814 cfs 1.508 af
Primary=11.814 cfs 1.508 af

Total Runoff Area = 54.045 ac Runoff Volume = 1.508 af Average Runoff Depth = 0.33"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Arch Culvert only, normal ground moisture conditions, 07/04/13 storm event
hydrocad mansfield ave culvert *Type II 24-hr 2.00 hrs Rainfall=2.25"*
Prepared by Microsoft Printed 7/8/2013

Summary for Subcatchment 5S: culvert watershed

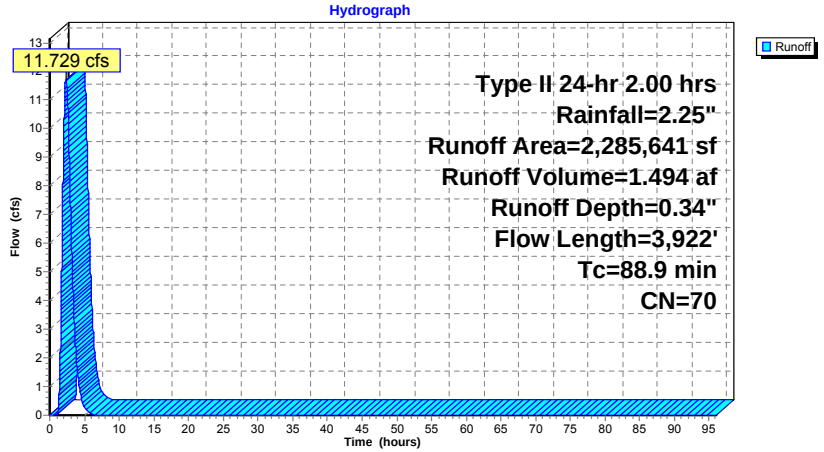
Runoff = 11.729 cfs @ 2.37 hrs, Volume= 1.494 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

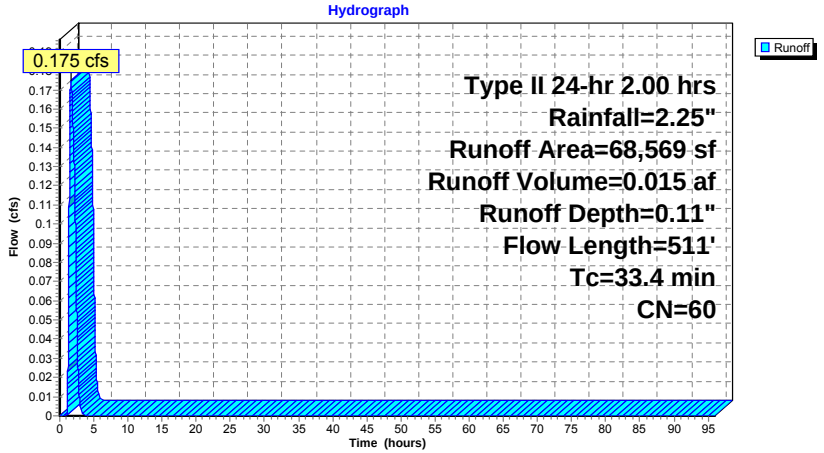
Runoff = 0.175 cfs @ 1.64 hrs, Volume= 0.015 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 1.24' above defined flood level

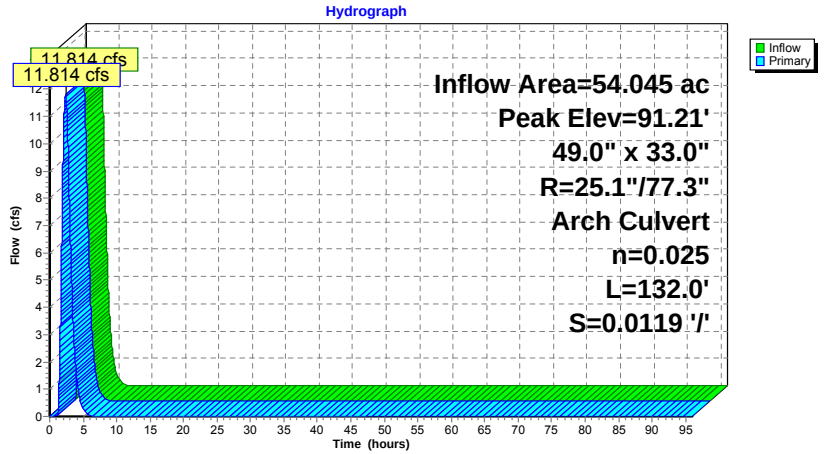
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.33"
Inflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af
Outflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af, Atten= 0%, Lag= 0.0 min
Primary = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 91.21' @ 2.37 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=11.812 cfs @ 2.37 hrs HW=91.21' (Free Discharge)
1=Culvert (Inlet Controls 11.812 cfs @ 2.67 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[43] Hint: Has no inflow (Outflow=Zero)

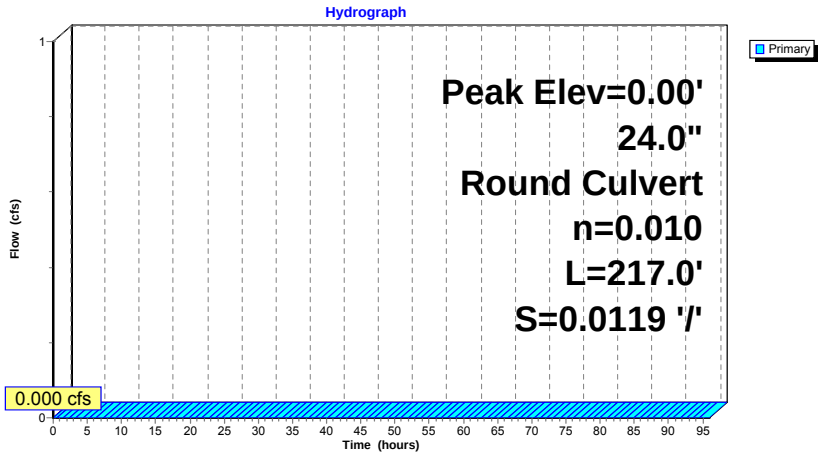
Primary = 0.000 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 0.00' @ 0.00 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.000 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
1=Culvert (Controls 0.000 cfs)

Pond 9R: 24" PVC

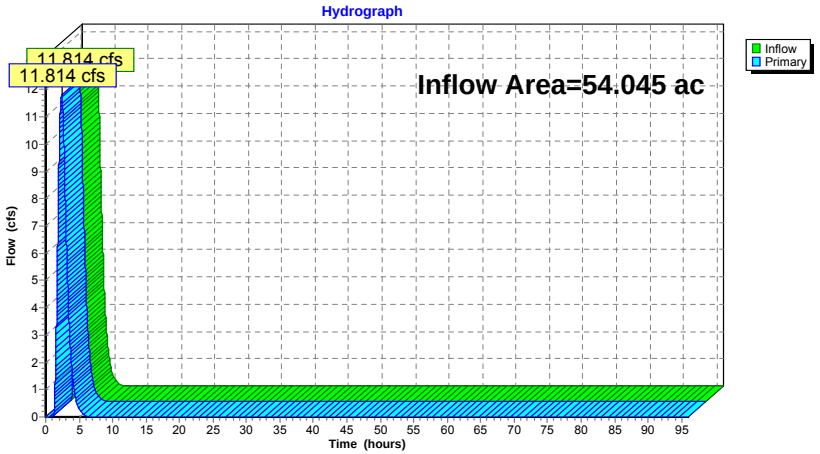


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.33"
Inflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af
Primary = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af, Atten= 0%, Lag= 0.0 min

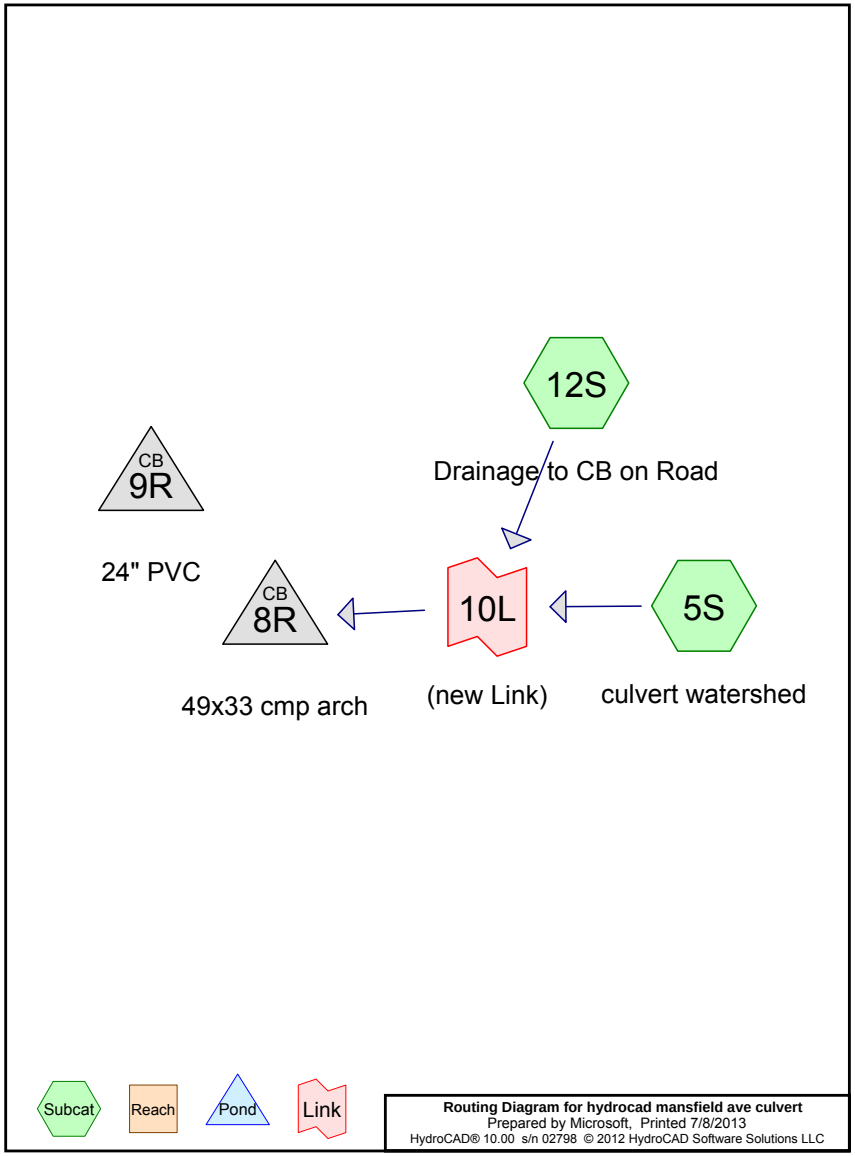
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert only
wet ground moisture conditions
July 4, 2013 Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=0.98"
Flow Length=3,922' Tc=88.9 min AMC Adjusted CN=85 Runoff=34.455 cfs 4.297 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.63"
Flow Length=511' Tc=33.4 min AMC Adjusted CN=78 Runoff=1.350 cfs 0.083 af

Pond 8R: 49x33 cmp arch Peak Elev=92.45' Inflow=34.803 cfs 4.380 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=34.803 cfs 4.380 af

Pond 9R: 24" PVC Peak Elev=0.00'
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Primary=0.000 cfs 0.000 af

Link 10L: (new Link) Inflow=34.803 cfs 4.380 af
Primary=34.803 cfs 4.380 af

Total Runoff Area = 54.045 ac Runoff Volume = 4.380 af Average Runoff Depth = 0.97"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

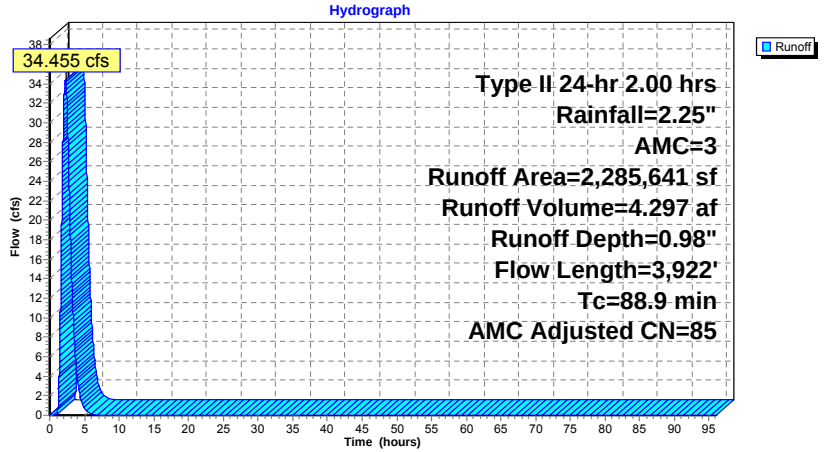
Runoff = 34.455 cfs @ 2.27 hrs, Volume= 4.297 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25", AMC=3

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average, AMC Adjusted CN = 85
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

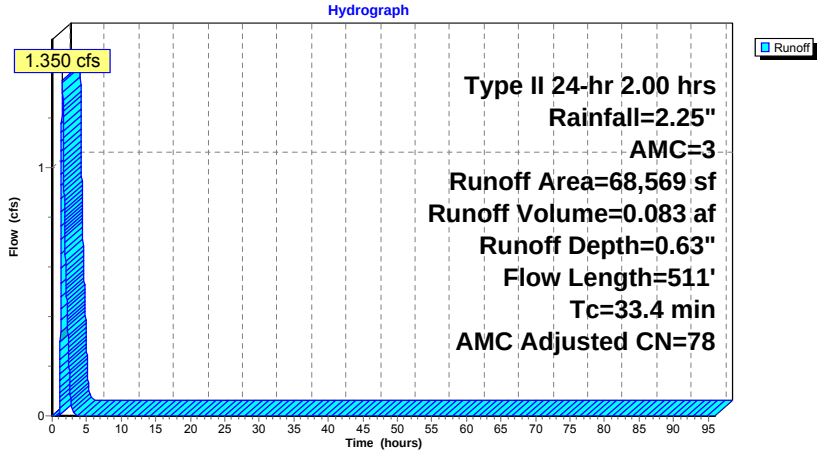
Runoff = 1.350 cfs @ 1.45 hrs, Volume= 0.083 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25", AMC=3

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average, AMC Adjusted CN = 78
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 2.48' above defined flood level

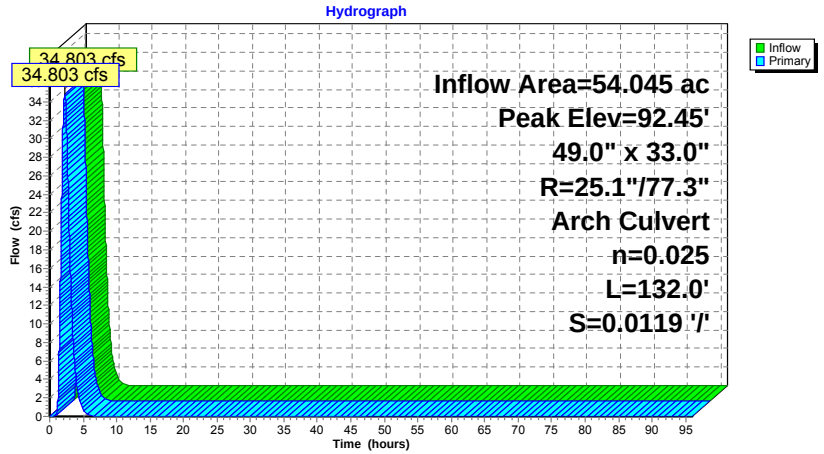
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.97"
Inflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af
Outflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af, Atten= 0%, Lag= 0.0 min
Primary = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 92.45' @ 2.27 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=34.796 cfs @ 2.27 hrs HW=92.45' (Free Discharge)
└**1=Culvert** (Inlet Controls 34.796 cfs @ 4.08 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[43] Hint: Has no inflow (Outflow=Zero)

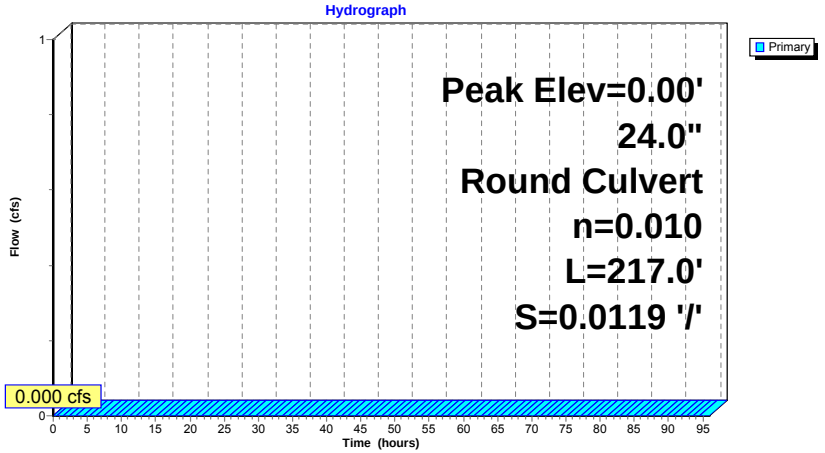
Primary = 0.000 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 0.00' @ 0.00 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.000 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└**1=Culvert** (Controls 0.000 cfs)

Pond 9R: 24" PVC

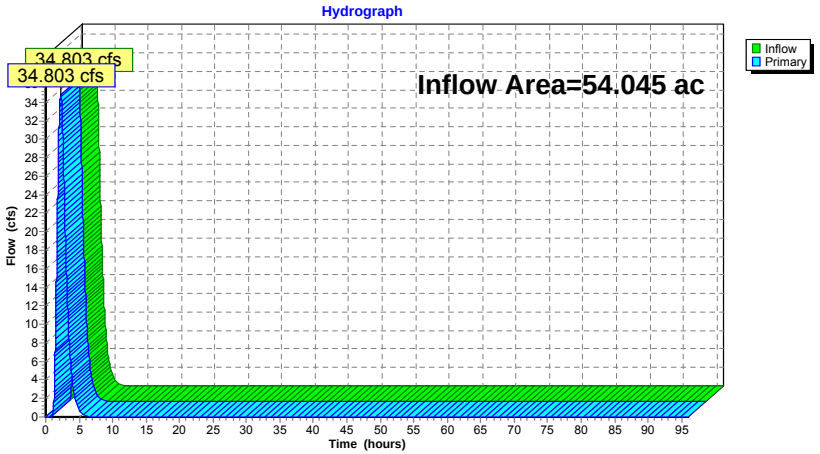


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.97"
Inflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af
Primary = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af, Atten= 0%, Lag= 0.0 min

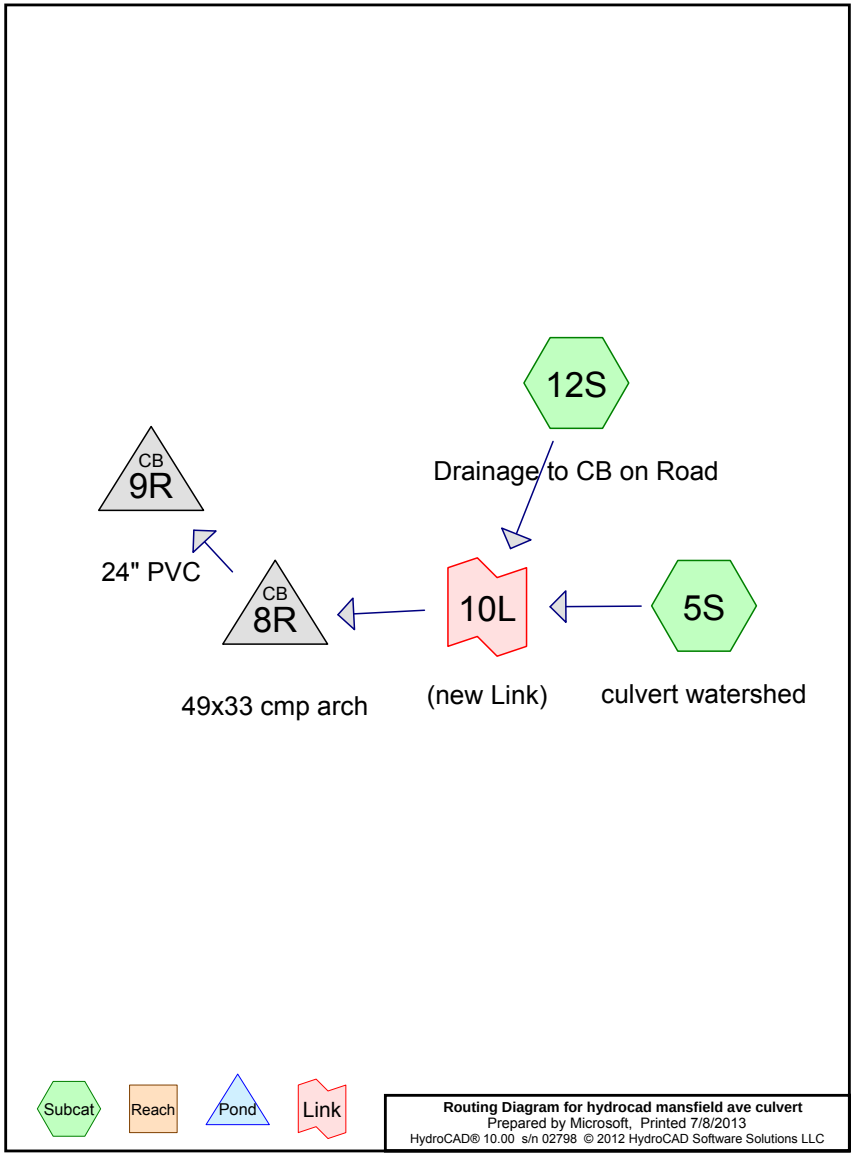
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + 24” Pipe
normal ground moisture conditions
July 4, 2013 Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=0.34"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=11.729 cfs 1.494 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.11"
Flow Length=511' Tc=33.4 min CN=60 Runoff=0.175 cfs 0.015 af

Pond 8R: 49x33 cmp arch Peak Elev=91.25' Inflow=11.814 cfs 1.508 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=11.814 cfs 1.508 af

Pond 9R: 24" PVC Peak Elev=90.02' Inflow=11.814 cfs 1.508 af
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=11.814 cfs 1.508 af

Link 10L: (new Link) Inflow=11.814 cfs 1.508 af
Primary=11.814 cfs 1.508 af

Total Runoff Area = 54.045 ac Runoff Volume = 1.508 af Average Runoff Depth = 0.33"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

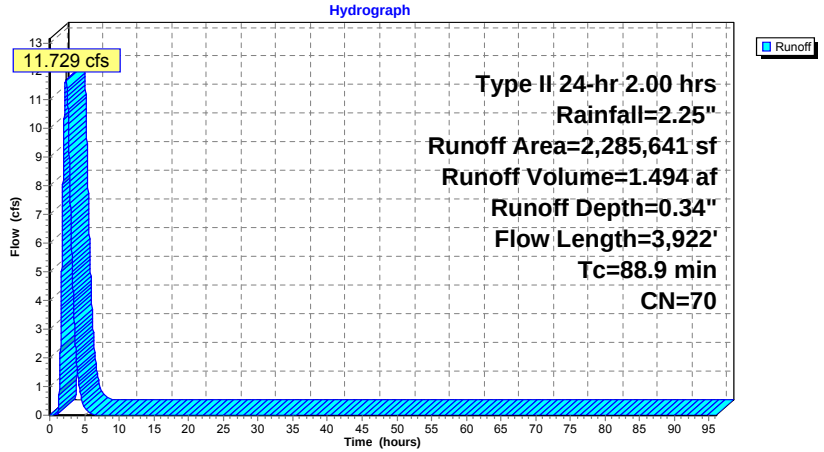
Runoff = 11.729 cfs @ 2.37 hrs, Volume= 1.494 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

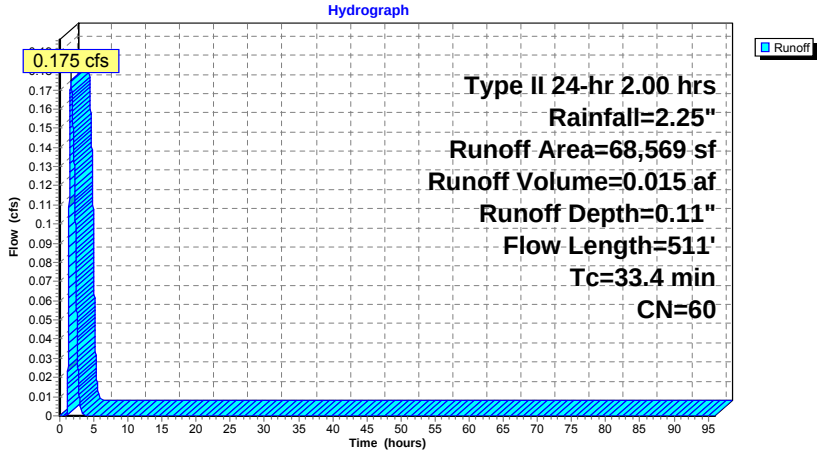
Runoff = 0.175 cfs @ 1.64 hrs, Volume= 0.015 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 1.28' above defined flood level

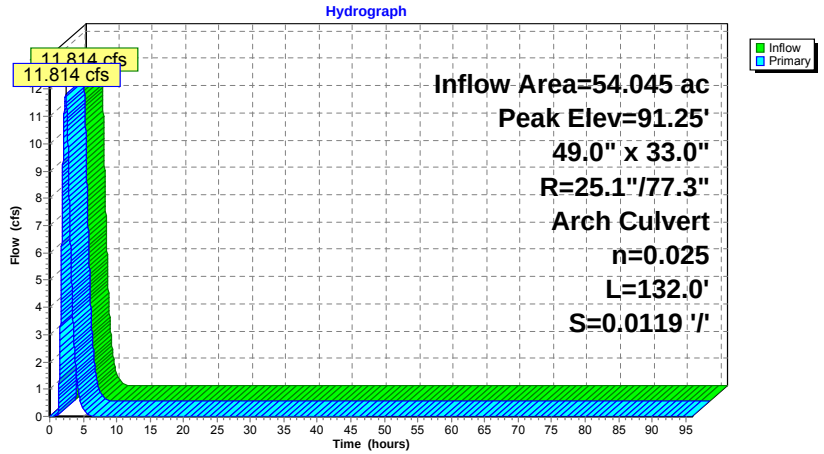
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.33"
Inflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af
Outflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af, Atten= 0%, Lag= 0.0 min
Primary = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 91.25' @ 2.37 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=11.812 cfs @ 2.37 hrs HW=91.25' TW=90.02' (Dynamic Tailwater)
↳**1=Culvert** (Outlet Controls 11.812 cfs @ 3.59 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[58] Hint: Peaked 1.62' above defined flood level

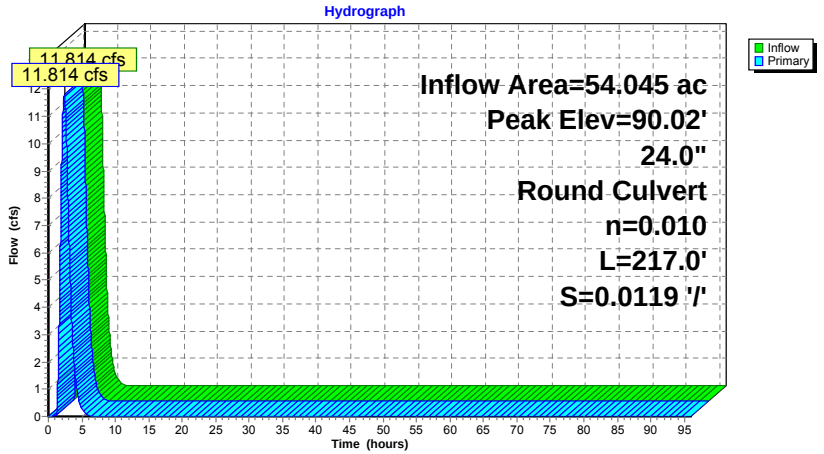
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.33"
Inflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af
Outflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af, Atten= 0%, Lag= 0.0 min
Primary = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 90.02' @ 2.37 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=11.812 cfs @ 2.37 hrs HW=90.02' (Free Discharge)
↳**1=Culvert** (Inlet Controls 11.812 cfs @ 4.33 fps)

Pond 9R: 24" PVC

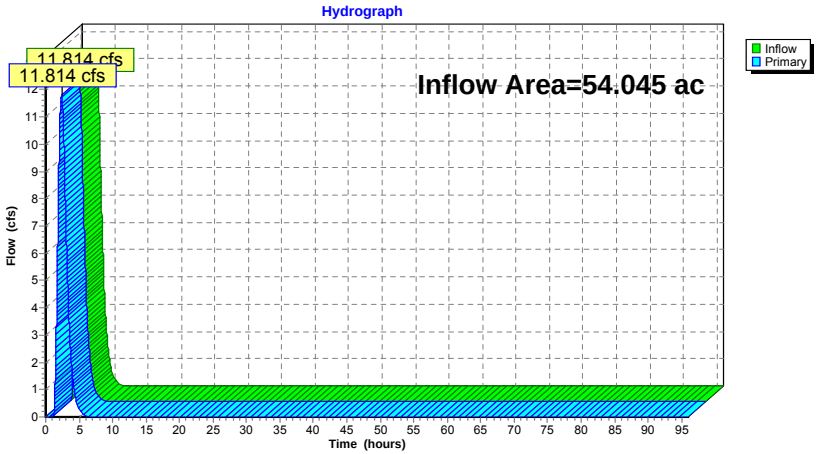


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.33"
Inflow = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af
Primary = 11.814 cfs @ 2.37 hrs, Volume= 1.508 af, Atten= 0%, Lag= 0.0 min

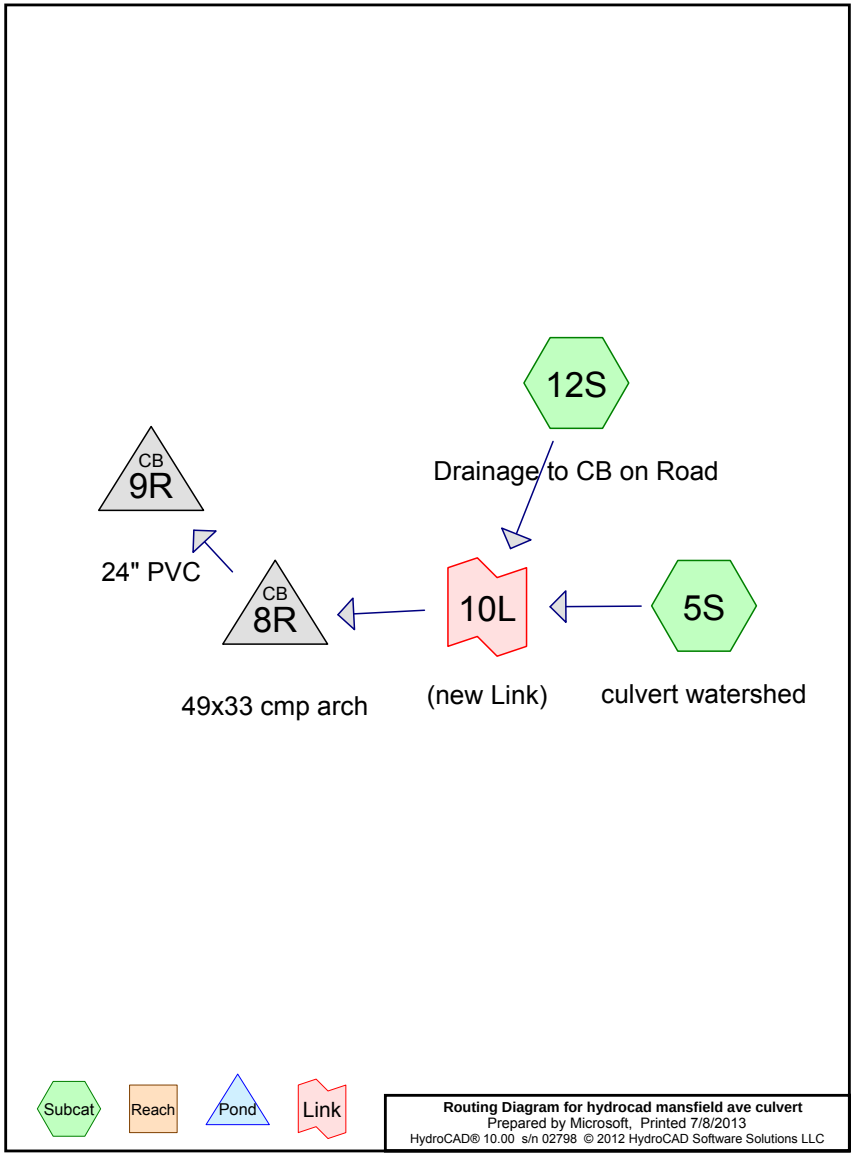
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + 24” Pipe
wet ground moisture conditions
July 4, 2013 Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=0.98"
Flow Length=3,922' Tc=88.9 min AMC Adjusted CN=85 Runoff=34.455 cfs 4.297 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.63"
Flow Length=511' Tc=33.4 min AMC Adjusted CN=78 Runoff=1.350 cfs 0.083 af

Pond 8R: 49x33 cmp arch Peak Elev=95.90' Inflow=34.803 cfs 4.380 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=34.803 cfs 4.380 af

Pond 9R: 24" PVC Peak Elev=94.69' Inflow=34.803 cfs 4.380 af
24.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=34.803 cfs 4.380 af

Link 10L: (new Link) Inflow=34.803 cfs 4.380 af
Primary=34.803 cfs 4.380 af

Total Runoff Area = 54.045 ac Runoff Volume = 4.380 af Average Runoff Depth = 0.97"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Arch Culvert+24" Pipe, wet ground moisture conditions, 07/04/13 storm event
hydrocad mansfield ave culvert *Type II 24-hr 2.00 hrs Rainfall=2.25", AMC=3*
Prepared by Microsoft Printed 7/8/2013
HydroCAD® 10.00 s/n 02798 © 2012 HydroCAD Software Solutions LLC

Summary for Subcatchment 5S: culvert watershed

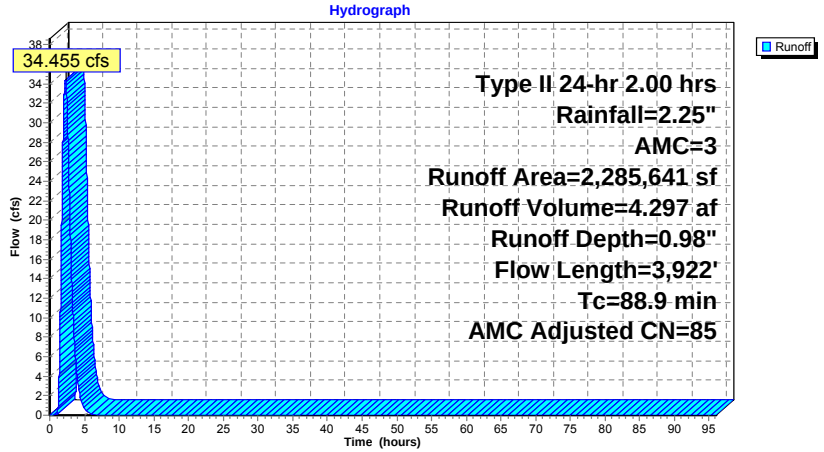
Runoff = 34.455 cfs @ 2.27 hrs, Volume= 4.297 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25", AMC=3

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average, AMC Adjusted CN = 85
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

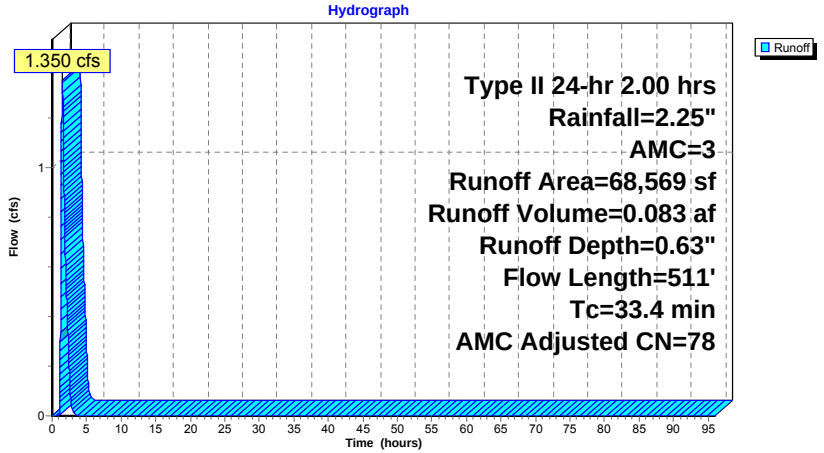
Runoff = 1.350 cfs @ 1.45 hrs, Volume= 0.083 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 2.00 hrs Rainfall=2.25", AMC=3

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average, AMC Adjusted CN = 78
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 5.93' above defined flood level

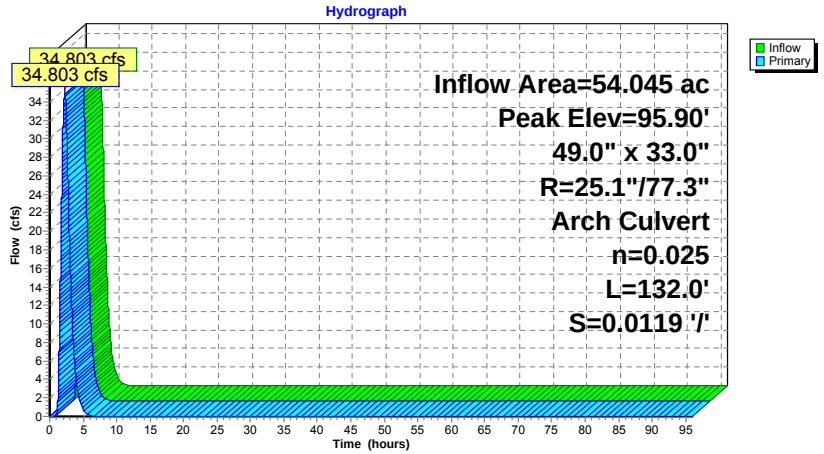
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.97"
Inflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af
Outflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af, Atten= 0%, Lag= 0.0 min
Primary = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 95.90' @ 2.27 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=34.796 cfs @ 2.27 hrs HW=95.90' TW=94.69' (Dynamic Tailwater)
↳**1=Culvert** (Outlet Controls 34.796 cfs @ 3.91 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 9R: 24" PVC

[58] Hint: Peaked 6.29' above defined flood level

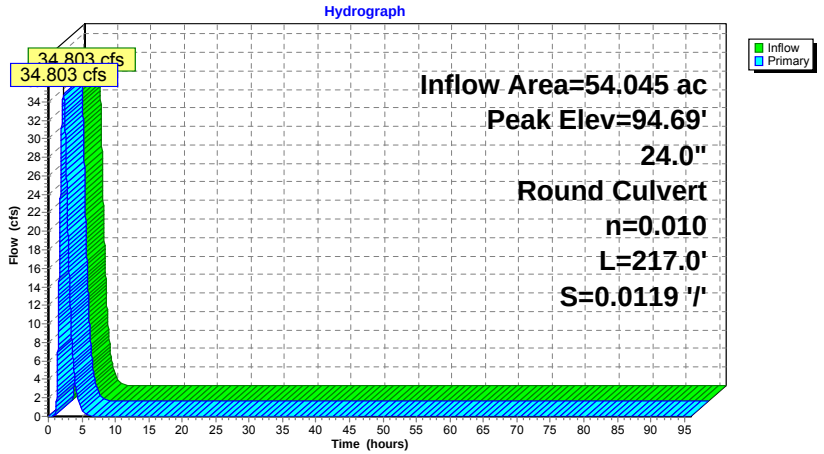
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.97"
Inflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af
Outflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af, Atten= 0%, Lag= 0.0 min
Primary = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 94.69' @ 2.27 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**24.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=34.796 cfs @ 2.27 hrs HW=94.69' (Free Discharge)
↳**1=Culvert** (Inlet Controls 34.796 cfs @ 11.08 fps)

Pond 9R: 24" PVC

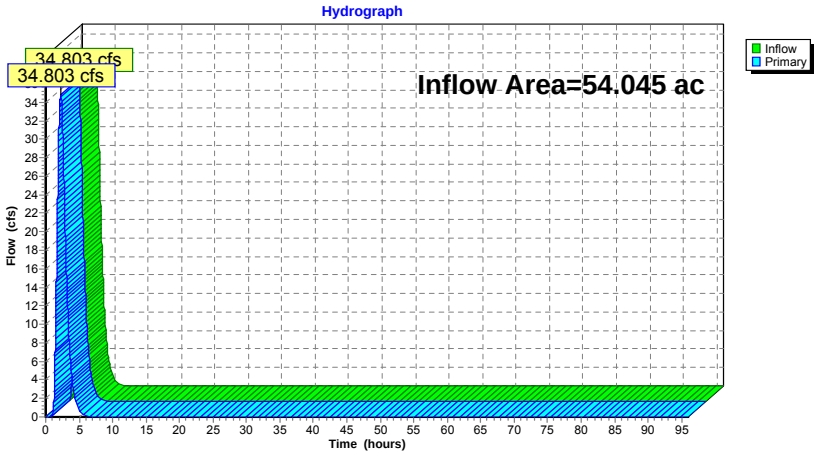


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 0.97"
Inflow = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af
Primary = 34.803 cfs @ 2.27 hrs, Volume= 4.380 af, Atten= 0%, Lag= 0.0 min

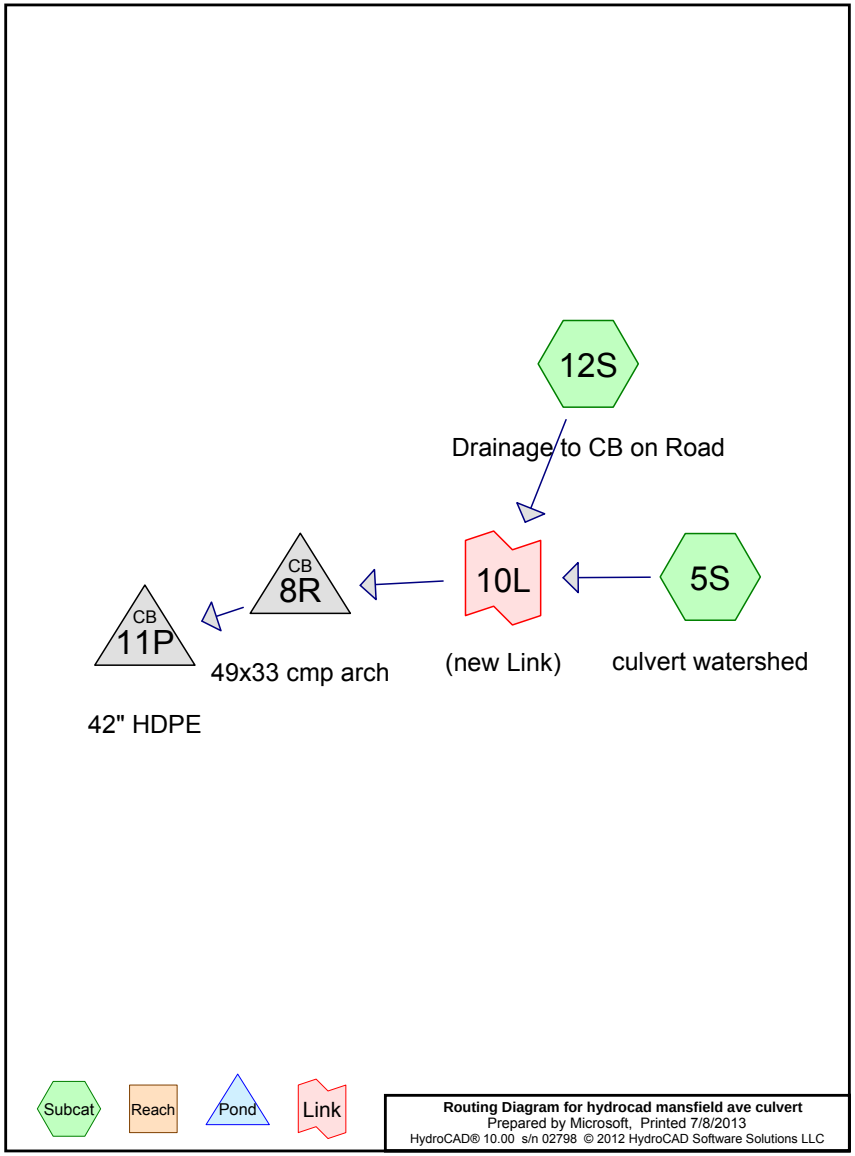
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + New 42” Pipe
normal ground moisture conditions
25 Year, 24-Hour and 100 Year, 24-Hour Storm Events



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=1.46"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=28.420 cfs 6.405 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=0.86"
Flow Length=511' Tc=33.4 min CN=60 Runoff=0.866 cfs 0.113 af

Pond 8R: 49x33 cmp arch Peak Elev=92.15' Inflow=28.673 cfs 6.518 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=28.673 cfs 6.518 af

Pond 11P: 42" HDPE Peak Elev=90.46' Inflow=28.673 cfs 6.518 af
42.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=28.673 cfs 6.518 af

Link 10L: (new Link) Inflow=28.673 cfs 6.518 af
Primary=28.673 cfs 6.518 af

Total Runoff Area = 54.045 ac Runoff Volume = 6.518 af Average Runoff Depth = 1.45"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

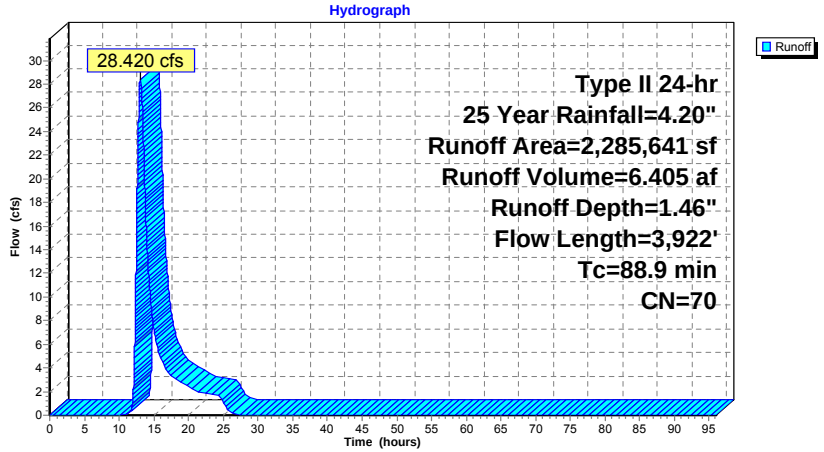
Runoff = 28.420 cfs @ 13.13 hrs, Volume= 6.405 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

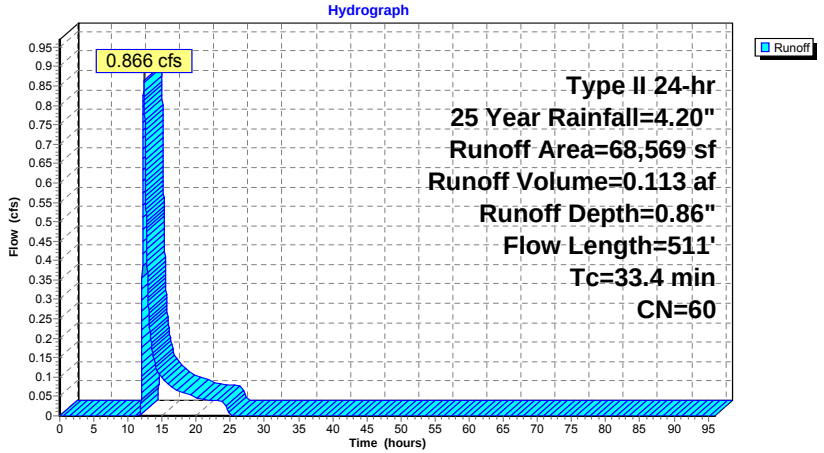
Runoff = 0.866 cfs @ 12.35 hrs, Volume= 0.113 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 Year Rainfall=4.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 2.18' above defined flood level

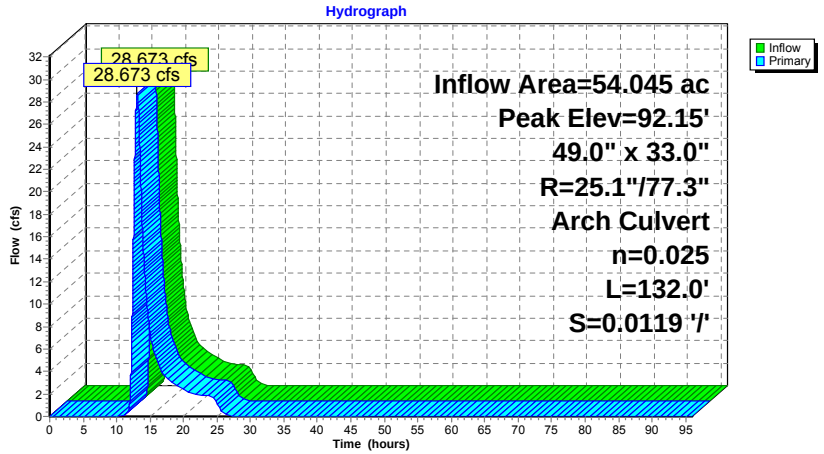
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Outflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 92.15' @ 13.05 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=28.673 cfs @ 13.05 hrs HW=92.15' TW=90.46' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 28.673 cfs @ 3.68 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 11P: 42" HDPE

[58] Hint: Peaked 2.06' above defined flood level

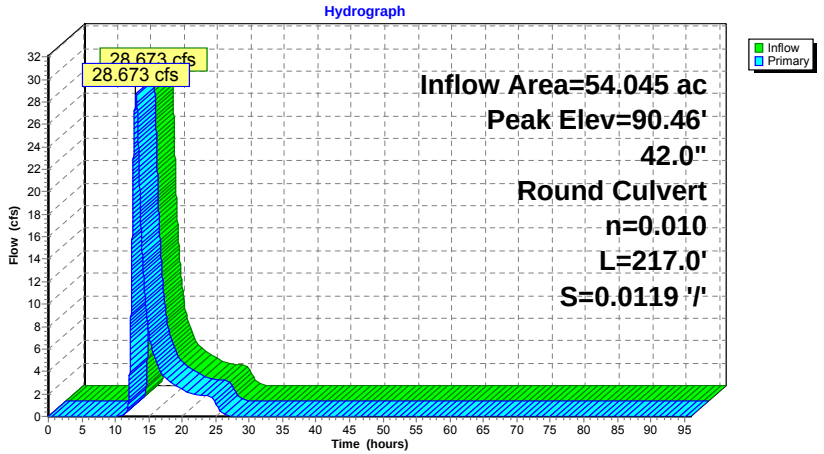
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Outflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 90.46' @ 13.05 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**42.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 9.62 sf

Primary OutFlow Max=28.673 cfs @ 13.05 hrs HW=90.46' (Free Discharge)
└**1=Culvert** (Inlet Controls 28.673 cfs @ 4.88 fps)

Pond 11P: 42" HDPE

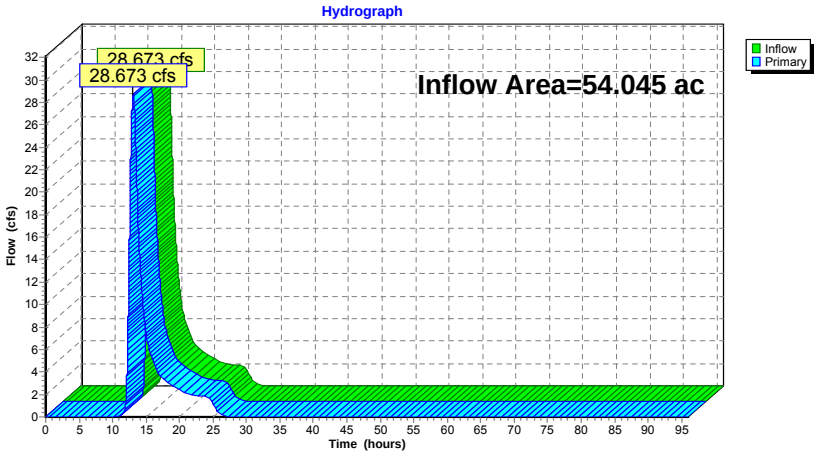


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 1.45" for 25 Year event
Inflow = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af
Primary = 28.673 cfs @ 13.05 hrs, Volume= 6.518 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=2.19"
Flow Length=3,922' Tc=88.9 min CN=70 Runoff=44.007 cfs 9.558 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=1.42"
Flow Length=511' Tc=33.4 min CN=60 Runoff=1.593 cfs 0.186 af

Pond 8R: 49x33 cmp arch Peak Elev=93.23' Inflow=44.442 cfs 9.744 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=44.442 cfs 9.744 af

Pond 11P: 42" HDPE Peak Elev=91.10' Inflow=44.442 cfs 9.744 af
42.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=44.442 cfs 9.744 af

Link 10L: (new Link) Inflow=44.442 cfs 9.744 af
Primary=44.442 cfs 9.744 af

Total Runoff Area = 54.045 ac Runoff Volume = 9.744 af Average Runoff Depth = 2.16"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

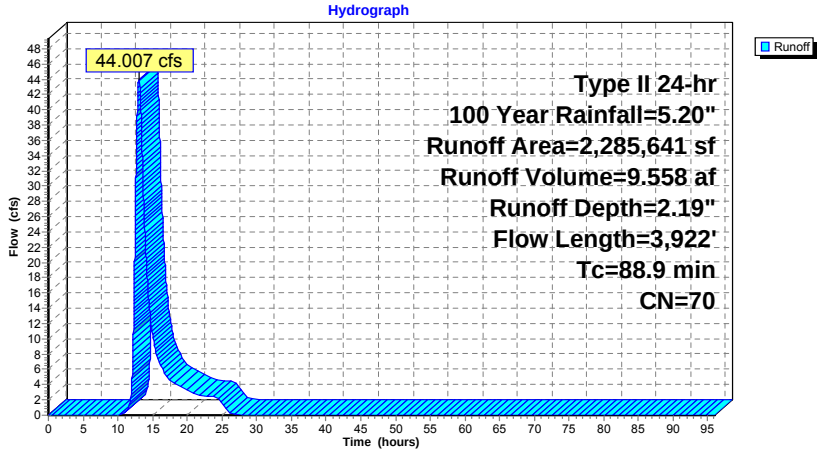
Runoff = 44.007 cfs @ 13.04 hrs, Volume= 9.558 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

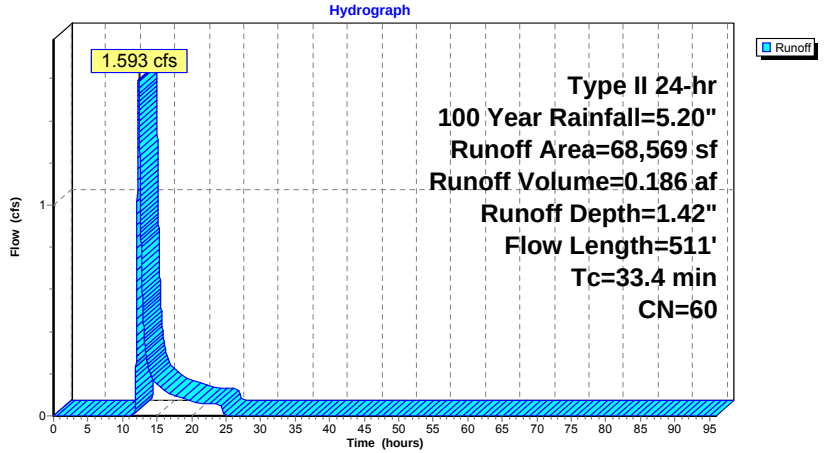
Runoff = 1.593 cfs @ 12.32 hrs, Volume= 0.186 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 Year Rainfall=5.20"

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 3.26' above defined flood level

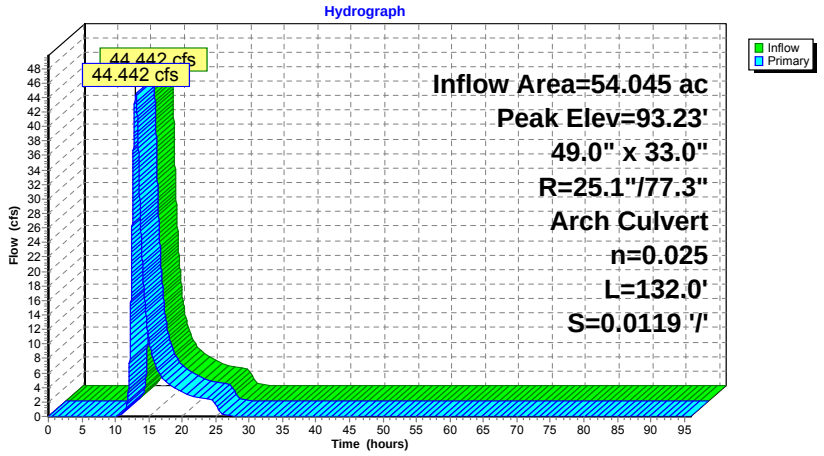
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Outflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 93.23' @ 13.04 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=44.441 cfs @ 13.04 hrs HW=93.23' TW=91.10' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 44.441 cfs @ 4.99 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 11P: 42" HDPE

[58] Hint: Peaked 2.70' above defined flood level

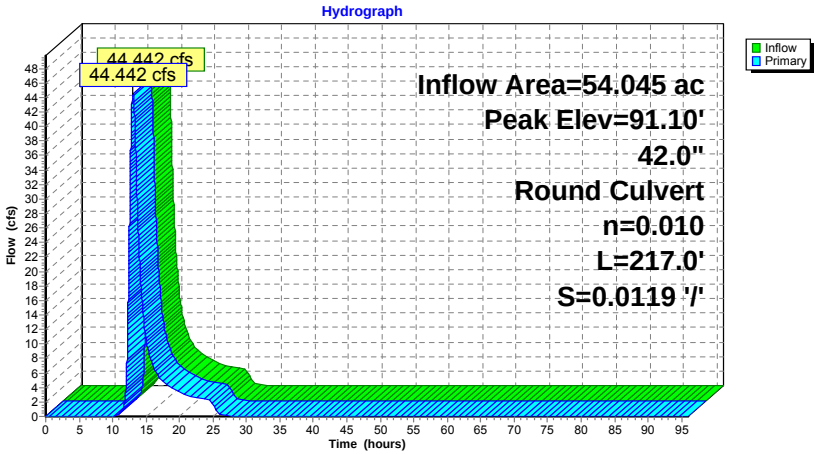
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Outflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 91.10' @ 13.04 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**42.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 9.62 sf

Primary OutFlow Max=44.441 cfs @ 13.04 hrs HW=91.10' (Free Discharge)
↳**1=Culvert** (Inlet Controls 44.441 cfs @ 5.59 fps)

Pond 11P: 42" HDPE

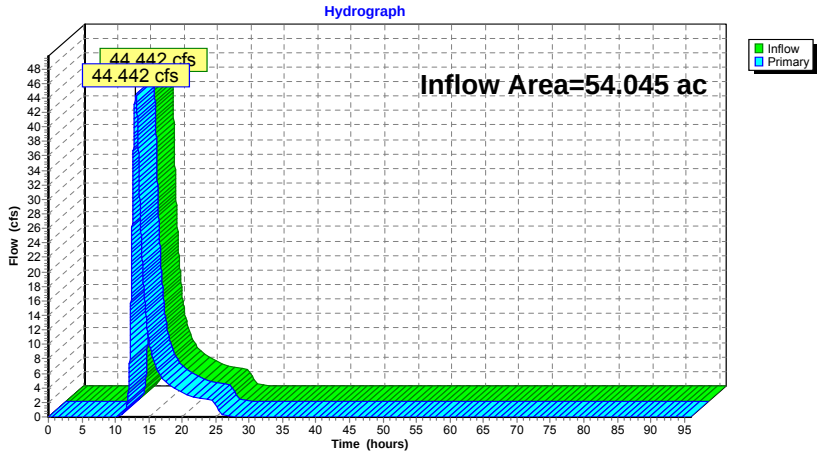


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.16" for 100 Year event
Inflow = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af
Primary = 44.442 cfs @ 13.04 hrs, Volume= 9.744 af, Atten= 0%, Lag= 0.0 min

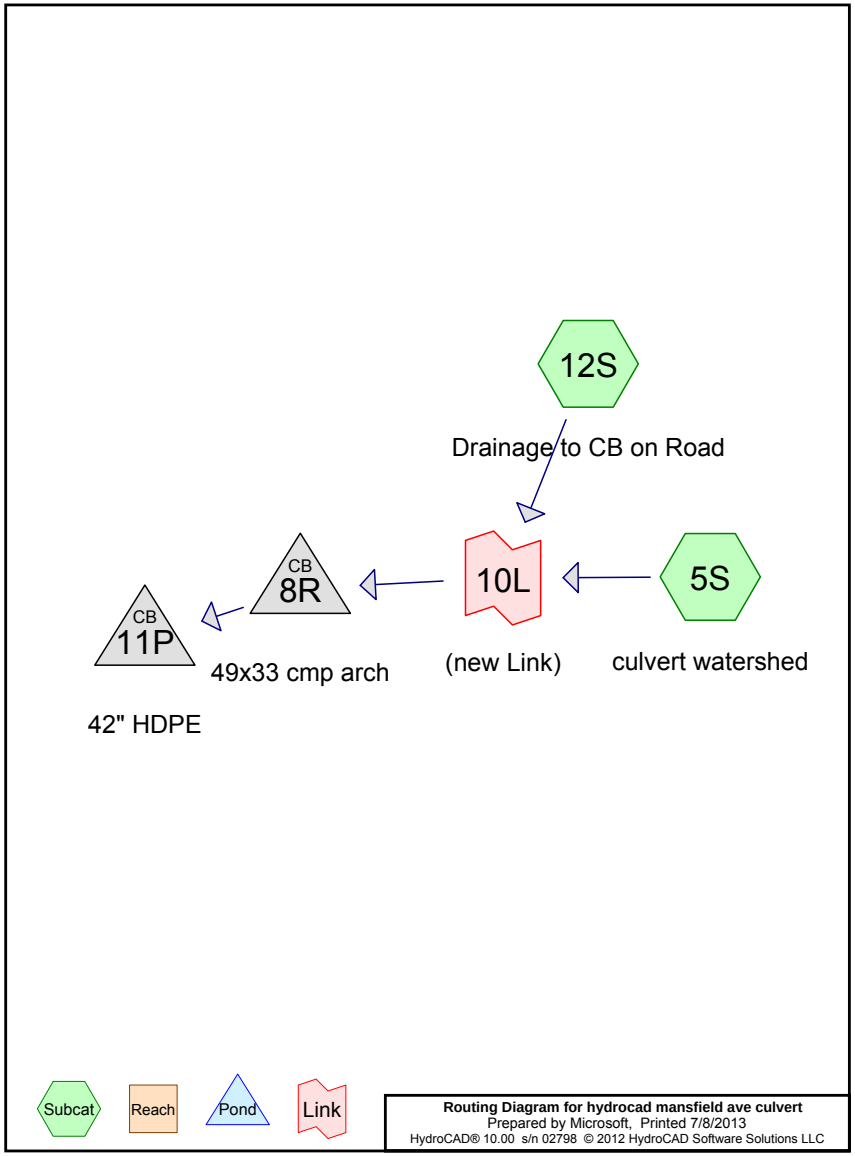
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + New 42” Pipe
wet ground moisture conditions
25 Year, 24-Hour Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=2.64"
Flow Length=3,922' Tc=88.9 min AMC Adjusted CN=85 Runoff=55.157 cfs 11.532 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=2.05"
Flow Length=511' Tc=33.4 min AMC Adjusted CN=78 Runoff=2.584 cfs 0.269 af

Pond 8R: 49x33 cmp arch Peak Elev=94.70' Inflow=55.843 cfs 11.800 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=55.843 cfs 11.800 af

Pond 11P: 42" HDPE Peak Elev=91.58' Inflow=55.843 cfs 11.800 af
42.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=55.843 cfs 11.800 af

Link 10L: (new Link) Inflow=55.843 cfs 11.800 af
Primary=55.843 cfs 11.800 af

Total Runoff Area = 54.045 ac Runoff Volume = 11.800 af Average Runoff Depth = 2.62"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

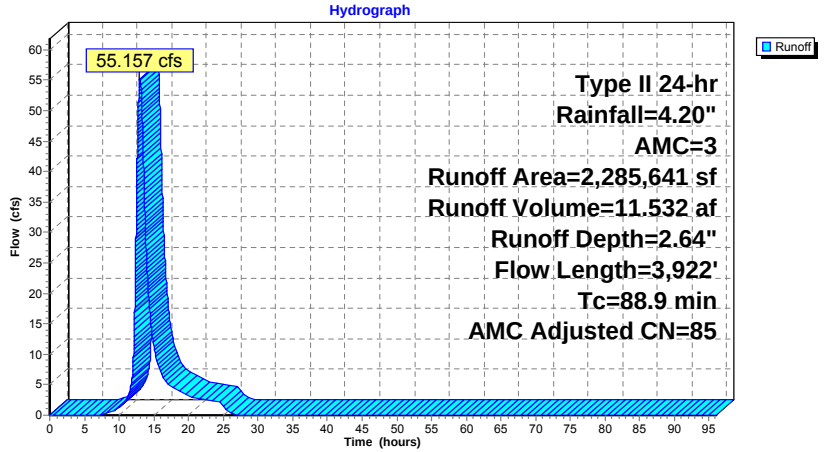
Runoff = 55.157 cfs @ 12.95 hrs, Volume= 11.532 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr Rainfall=4.20", AMC=3

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average, AMC Adjusted CN = 85
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

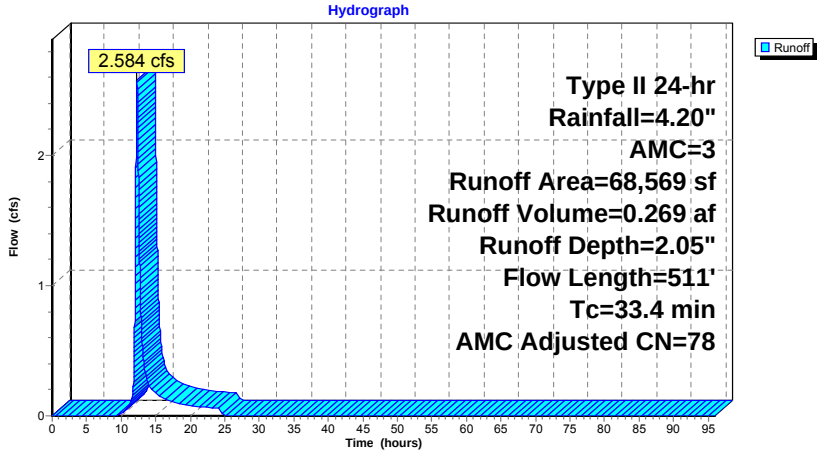
Runoff = 2.584 cfs @ 12.29 hrs, Volume= 0.269 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr Rainfall=4.20", AMC=3

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average, AMC Adjusted CN = 78
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 4.73' above defined flood level

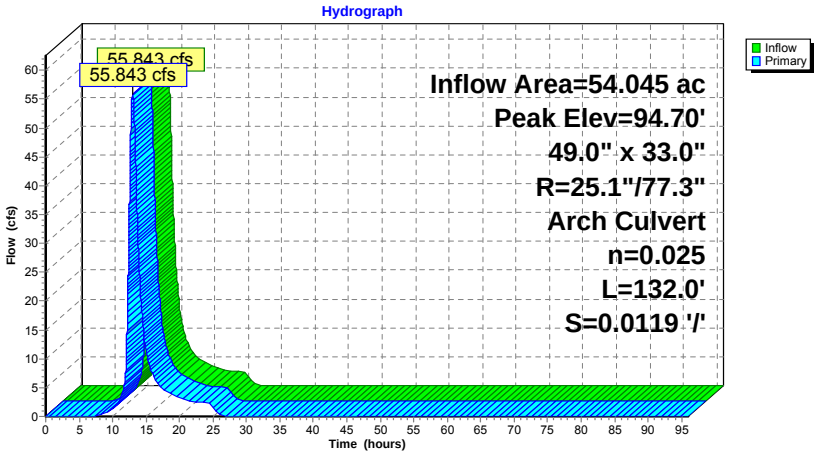
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.62"
Inflow = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af
Outflow = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af, Atten= 0%, Lag= 0.0 min
Primary = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 94.70' @ 12.94 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=55.823 cfs @ 12.94 hrs HW=94.69' TW=91.58' (Dynamic Tailwater)
↳**1=Culvert** (Outlet Controls 55.823 cfs @ 6.27 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 11P: 42" HDPE

[58] Hint: Peaked 3.18' above defined flood level

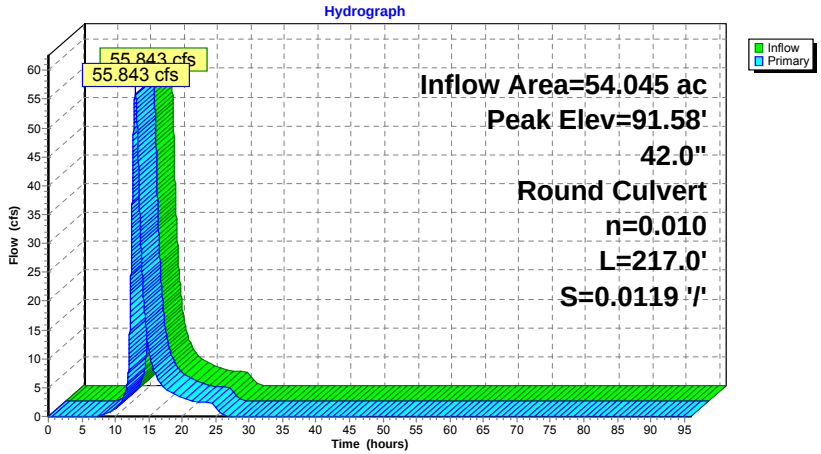
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.62"
Inflow = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af
Outflow = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af, Atten= 0%, Lag= 0.0 min
Primary = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 91.58' @ 12.94 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**42.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 9.62 sf

Primary OutFlow Max=55.823 cfs @ 12.94 hrs HW=91.58' (Free Discharge)
↳**1=Culvert** (Inlet Controls 55.823 cfs @ 6.07 fps)

Pond 11P: 42" HDPE

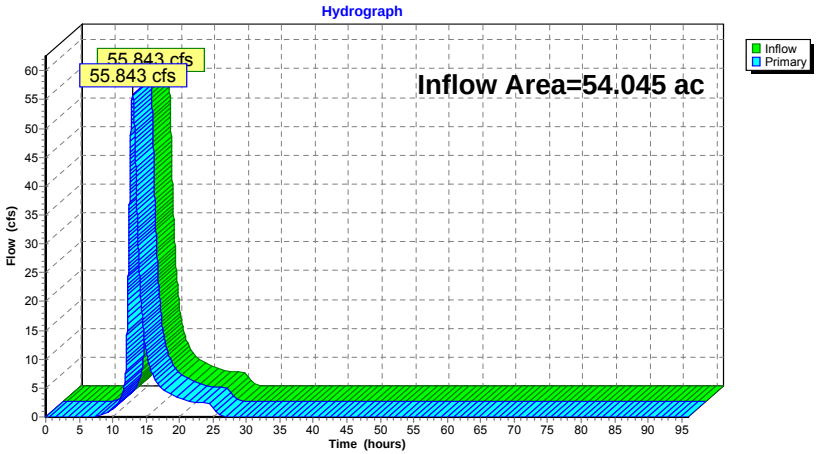


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 2.62"
Inflow = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af
Primary = 55.843 cfs @ 12.94 hrs, Volume= 11.800 af, Atten= 0%, Lag= 0.0 min

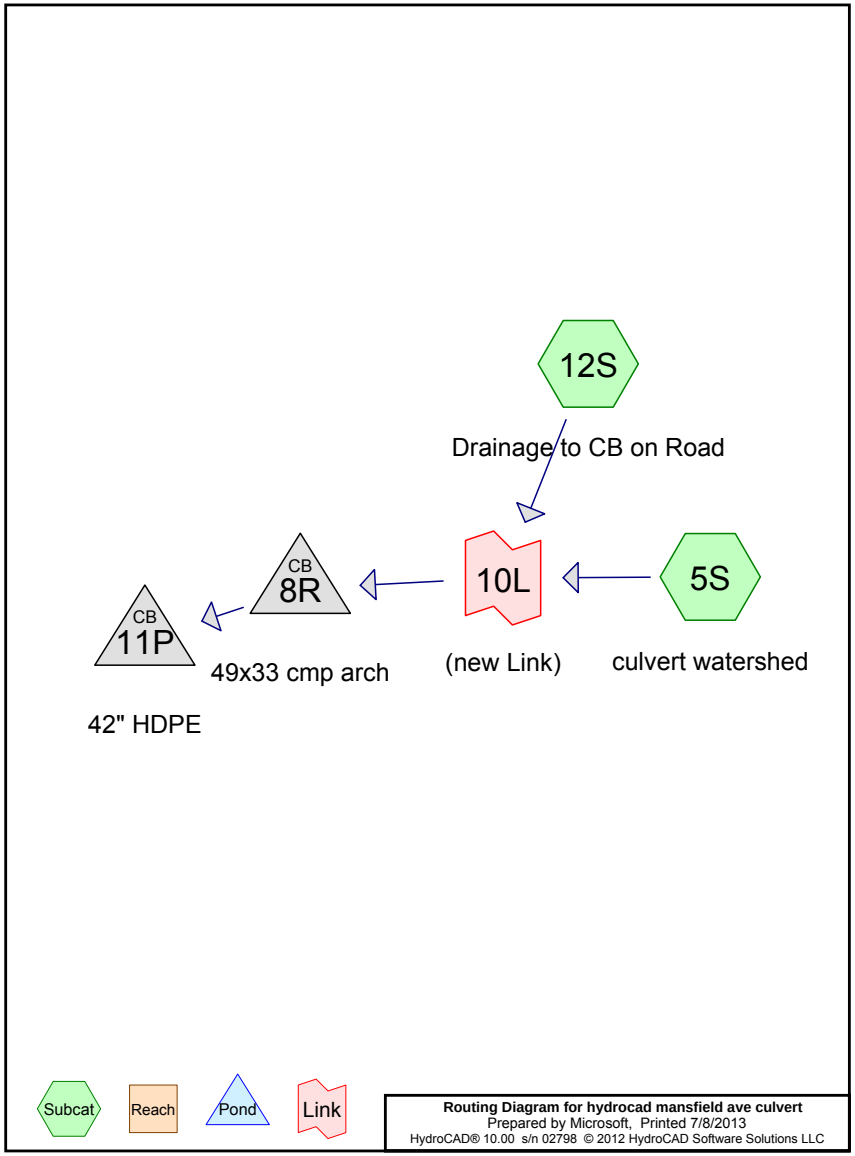
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



HydroCAD Modeling Results

Arch Culvert + New 42” Pipe
wet ground moisture conditions
100 Year, 24-Hour Storm Event



Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
7.435	98	(5S)
0.333	98	Paved parking, HSG A (12S)
0.146	98	Paved parking, HSG D (12S)
5.797	43	Woods/grass comb., Fair, HSG A (5S)
31.705	65	Woods/grass comb., Fair, HSG B (5S)
7.534	82	Woods/grass comb., Fair, HSG D (5S)
0.820	32	Woods/grass comb., Good, HSG A (12S)
0.276	79	Woods/grass comb., Good, HSG D (12S)
54.045	**69**	**TOTAL AREA**

Time span=0.00-96.00 hrs, dt=0.01 hrs, 9601 points x 2
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 5S: culvert watershed Runoff Area=2,285,641 sf 14.17% Impervious Runoff Depth=3.55"
Flow Length=3,922' Tc=88.9 min AMC Adjusted CN=85 Runoff=74.359 cfs 15.537 af

Subcatchment 12S: Drainage to CB on Runoff Area=68,569 sf 30.41% Impervious Runoff Depth=2.88"
Flow Length=511' Tc=33.4 min AMC Adjusted CN=78 Runoff=3.670 cfs 0.378 af

Pond 8R: 49x33 cmp arch Peak Elev=98.45' Inflow=75.276 cfs 15.915 af
49.0" x 33.0", R=25.1"/77.3" Arch Culvert n=0.025 L=132.0' S=0.0119 '/' Outflow=75.276 cfs 15.915 af

Pond 11P: 42" HDPE Peak Elev=92.79' Inflow=75.276 cfs 15.915 af
42.0" Round Culvert n=0.010 L=217.0' S=0.0119 '/' Outflow=75.276 cfs 15.915 af

Link 10L: (new Link) Inflow=75.276 cfs 15.915 af
Primary=75.276 cfs 15.915 af

Total Runoff Area = 54.045 ac Runoff Volume = 15.915 af Average Runoff Depth = 3.53"
85.36% Pervious = 46.132 ac 14.64% Impervious = 7.913 ac

Summary for Subcatchment 5S: culvert watershed

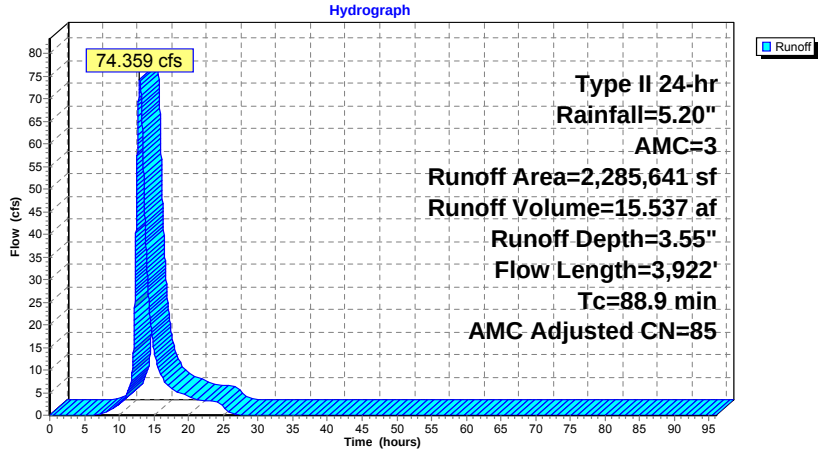
Runoff = 74.359 cfs @ 12.94 hrs, Volume= 15.537 af, Depth= 3.55"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr Rainfall=5.20", AMC=3

	Area (sf)	CN	Description
*	30,682	98	
	252,509	43	Woods/grass comb., Fair, HSG A
*	265,713	98	
	1,381,085	65	Woods/grass comb., Fair, HSG B
*	27,457	98	
	328,195	82	Woods/grass comb., Fair, HSG D
	2,285,641	70	Weighted Average, AMC Adjusted CN = 85
	1,961,789		85.83% Pervious Area
	323,852		14.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.1	200	0.0200	0.08		**Sheet Flow, sheet flow** Woods: Light underbrush n= 0.400 P2= 2.30"
7.8	497	0.0450	1.06		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
0.5	80	0.3000	2.74		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
1.0					**Direct Entry, corduroy road cb to outfall**
2.4	208	0.0870	1.47		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
5.1	242	0.0250	0.79		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
6.7	200	0.0100	0.50		**Shallow Concentrated Flow, shallow, woods** Woodland Kv= 5.0 fps
2.1	380		3.00		**Direct Entry, pipe under briar**
19.2	2,115	0.0150	1.84		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
88.9	3,922	Total			

Subcatchment 5S: culvert watershed



Summary for Subcatchment 12S: Drainage to CB on Road

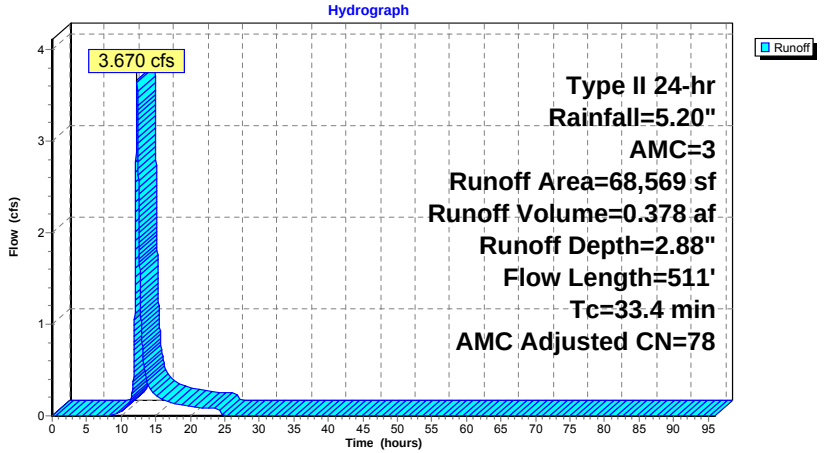
Runoff = 3.670 cfs @ 12.28 hrs, Volume= 0.378 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type II 24-hr Rainfall=5.20", AMC=3

Area (sf)	CN	Description
35,712	32	Woods/grass comb., Good, HSG A
14,484	98	Paved parking, HSG A
12,002	79	Woods/grass comb., Good, HSG D
6,371	98	Paved parking, HSG D
68,569	60	Weighted Average, AMC Adjusted CN = 78
47,714		69.59% Pervious Area
20,855		30.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	150	0.0360	0.09		**Sheet Flow, Woods and Yard** Woods: Light underbrush n= 0.400 P2= 2.30"
4.5	210	0.0240	0.77		**Shallow Concentrated Flow, Woods and Yard** Woodland Kv= 5.0 fps
1.2	151	0.0100	2.03		**Shallow Concentrated Flow, Curb to CB** Paved Kv= 20.3 fps
33.4	511	Total			

Subcatchment 12S: Drainage to CB on Road



Summary for Pond 8R: 49x33 cmp arch

[58] Hint: Peaked 8.48' above defined flood level

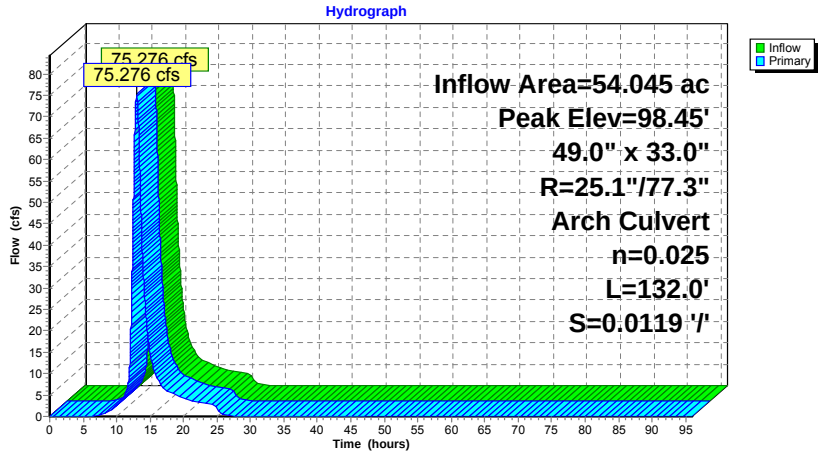
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 3.53"
Inflow = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af
Outflow = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af, Atten= 0%, Lag= 0.0 min
Primary = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 98.45' @ 12.94 hrs
Flood Elev= 89.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	89.97'	**49.0" W x 33.0" H, R=25.1"/77.3" Arch Culvert** L= 132.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 89.97' / 88.40' S= 0.0119 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 8.90 sf

Primary OutFlow Max=75.250 cfs @ 12.94 hrs HW=98.44' TW=92.79' (Dynamic Tailwater)
↳**1=Culvert** (Outlet Controls 75.250 cfs @ 8.45 fps)

Pond 8R: 49x33 cmp arch



Summary for Pond 11P: 42" HDPE

[58] Hint: Peaked 4.39' above defined flood level

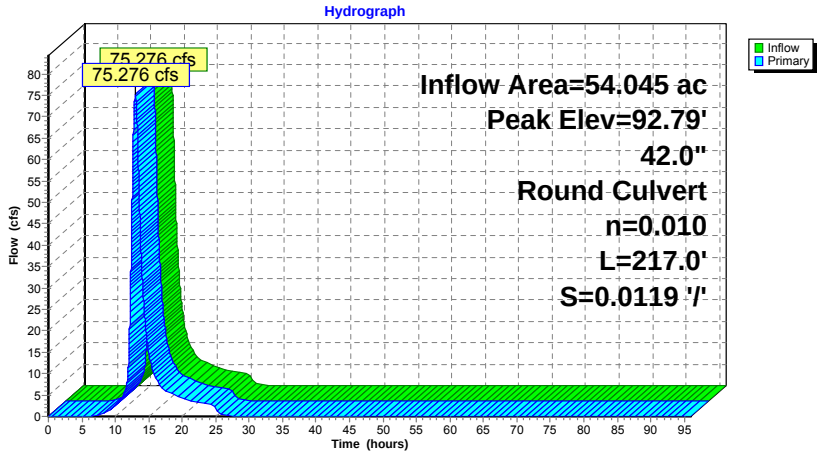
Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 3.53"
Inflow = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af
Outflow = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af, Atten= 0%, Lag= 0.0 min
Primary = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs / 2
Peak Elev= 92.79' @ 12.94 hrs
Flood Elev= 88.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.40'	**42.0" Round Culvert** L= 217.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 88.40' / 85.82' S= 0.0119 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 9.62 sf

Primary OutFlow Max=75.250 cfs @ 12.94 hrs HW=92.79' (Free Discharge)
↳**1=Culvert** (Inlet Controls 75.250 cfs @ 7.82 fps)

Pond 11P: 42" HDPE

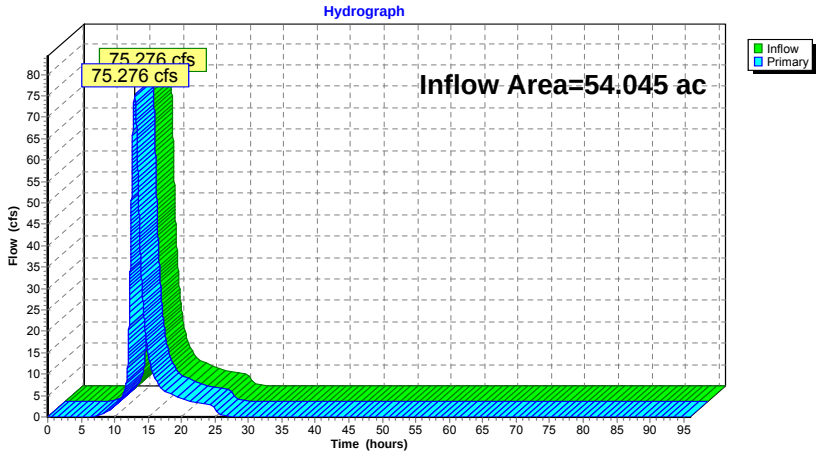


Summary for Link 10L: (new Link)

Inflow Area = 54.045 ac, 14.64% Impervious, Inflow Depth = 3.53"
Inflow = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af
Primary = 75.276 cfs @ 12.94 hrs, Volume= 15.915 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 10L: (new Link)



The economic engine of Vermont.

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Village Manager
PatS@essexjunction.org

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Fax : (802) 878-6946
Cell : (802) 881-9599

MEMORANDUM

TO: Village Trustees
FROM : Lauren Morrisseau, Finance Director/Assistant Manager LM
THRU: Pat Scheidel, Village Manager
DATE : July 23, 2013
SUBJECT: FY14 Tax Rate

Based on the Grand List value of $10,534,314, received from the Town Assessor on 7-02-13 and as adjusted for the tax stabilization agreement for the Whitcomb Farm property at 315 South St. to a value of $10,528,549, the Village tax rate for FY14 needs to be set at $.2666 in order to raise the $2,806,453 approved at Village meeting. The increase in the tax rate is 4.4% ($.0112) and will increase the taxes on an average ($267,478 assessed value) home by $29.96.

Village tax calculations are attached to this memo.

Village of Essex Junction

FY14 Tax Rate Calculation

Amount to be raised in Taxes					$2,806,463
Grand List before tax stabilization adjustment					$10,534,314
Tax Stabilization calculation					
Property	Actual Grand List Value	Taxable %	Taxable Value	Reduction to Grand List	
Whitcomb Farm #1005001000	$ 5,765	0		$ (5,765)	
Total Reduction in grand list due to tax stabilization				$ (5,765)	
Grand List after tax stabilization adjustment					$10,528,549
Tax Rate ($2,806,463/$10,528,549)					**$0.2666**

Rick Jones
Public Works Superintendent
Rick@essexjunction.org

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Fax: (802) 878-6946

MEMO

TO: Village Trustees
FROM: Rick Jones, Public Works Superintendent
THROUGH: Pat Scheidel, Village Manager
DATE: July 23, 2013
SUBJECT: Paving Bid Award for FY 14

The Public Works Department opened the FY 14 paving bids on 7/9/13. The results are listed below:

Company	Price Per Ton
S.T. Paving	$ 67.88
S.D. Ireland	$ 69.75
Engineers Construction	$ 70.95
Pike Industries	$ 71.28

The FY 14 paving budget is $125,000 for paving Willeys Court, Warner Avenue, Williams Street, Jones Avenue, Grandview Avenue and a section of Beech Street. Any remaining funds in the paving budget will be used as determined by the Public Works Superintendent and Village Manager.

Staff recommends that the Trustees award the paving bid to the lowest bidder, S.T. Paving.

Patrick Scheidel
Village Manager
PatS@essexjunction.org

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www.essexjunction.org

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Fax: (802) 878-6946

MEMORANDUM

TO: Village Trustees
FROM: Pat Scheidel, Village Manager PS
DATE: July 17, 2013
SUBJECT: Appointments to Boards, Commissions and Committees

Issue

The issue is whether or not the Village Trustees will amend the existing policy regarding volunteer appointments to boards, commissions and committees.

Discussion

At a previous Trustees meeting, the idea of interviewing the selection of volunteers was discussed from the standpoint of an exchange of comments as to how the year had transpired. The attached information was submitted as an example.

Given that the Village policy is comprehensive, only one new section is proposed.

Cost

There is no fixed cost expected.

Recommendation

It is recommended that the Village Trustees amend the existing policy as follows:

Section 6. Annual follow-up interviews for members of Boards, Commissions and Committees

a. All volunteer members of Boards, Commissions and Committees shall be given the opportunity to meet with the Trustees at a regularly scheduled meeting or special meeting.

b. The purpose of the follow-up interview will be to discuss how the expectations of each volunteer met the reality of the past year, and to review the mission and focus of the Boards, Commissions and Committees.

c. Per Sections 4 and 5, the annual interviews will be held prior to reappointing current members of the Boards, Commissions and Committees.

DRAFT
New language underlined/highlighted

VILLAGE OF ESSEX JUNCTION
TRUSTEES' POLICY REGARDING
APPOINTMENTS TO BOARDS, COMMISSIONS AND COMMITTEES

PURPOSE: To establish the procedure for Trustees' appointments to the Board, Commissions and Committees.

Section 1. Public Notification of Opening on Boards and Commissions

a. The Village Clerk shall advertise the opening in the Essex Reporter a minimum of thirty (30) days prior to the expiration of existing term(s), or the formation of a new Board or Commission.

b. The Village Clerk shall post the opening in three public places a minimum of thirty (30) days prior to the expiration of existing term(s), or the creation of a new Board or Commission.

c. In the event of a resignation, the Village Clerk shall advertise the vacancy in the Essex Reporter and post the vacancy in three public places for a minimum of thirty (30) days after receiving notice of a resignation.

Section 2. Public Notification of Opening on Committee(s)

a. The Village Clerk shall advertise the opening(s) in the Essex Reporter a minimum of thirty (30) days prior to the expiration of existing term(s) or the creation of a new committee.

b. The Village Clerk shall post the opening(s) in three public places a minimum of thirty (30) days prior to the expiration of existing term(s) or the creation of a new committee.

c. In the event of a resignation, the Village Clerk shall advertise the vacancy in the Essex Reporter and post the vacancy in three public places for a minimum of thirty (30) days after receiving notice of a resignation.

Section 3. Letters of Interest

a. All interested individuals, including incumbents, shall be required to submit a letter of interest to the Village Manager. The letters of interest shall be forwarded to the Village Trustees for consideration.

Section 4. Interview for appointments to Boards and Commissions

a. All candidates shall be interviewed by the Village Trustees in Executive Session. The Village Manager shall schedule the interviews and notify the candidates of the interview date, time and place.

Section 5. Interview for appointments to Committees

a. All candidates shall be interviewed by the Village Trustees in Executive Session. The Village Manager shall schedule the interviews and notify the candidates of the interview date, time and place.

Section 6. Annual follow-up interviews for members of Boards, Commissions and Committees

a. All volunteer members of Boards, Commissions and Committees shall be given the opportunity to meet with the Trustees at a regularly scheduled meeting or special meeting.

b. The purpose of the follow-up interview will be to discuss how the expectations of each volunteer met the reality of the past year, and to review the mission and focus of the Boards, Commissions and Committees.

c. Per Sections 4 and 5, the annual interviews will be held prior to reappointing current members of the Boards, Commissions and Committees.

Adopted by the Village Trustees on 4-8-97 and revised on 9-23-97.
Revised 12-12-00, 1-28-03 and 7-23-13.

June 21, 2013

To: Village President and Trustees
Fr. Village Manager, Pat Scheidel PCS
Re: Village Volunteer Selection Process

Issue
The issue is whether or not the Trustees will adopt a recruitment, selection and retention process for volunteers who serve the Village.

Discussion
Local governments compete for the most precious of personal assets from its citizens: their free time. And it is safe to say we are not holding our own. On the personal interest continuum, investing time to save the planet or snail darter from extinction and everything in between seems far more attractive to folks than serving on a cemetery or zoning board. . Hence our challenge is to evaluate the missions of our various boards and the skills desired to fulfill those missions in the recruitment of volunteers. Further, it is good to meet with each volunteer each year as a legislative body to provide an opportunity to discuss how the expectations of each party met the reality of the past year. This chat precedes the volunteers'appointment or reappointment. It also serves as an opportunity to better communicate and reinforce the mission of each board to each member.

Attached are samples of mission statements, desired skills or interests and volunteer job descriptions for your consideration.

Cost
The only cost to implement this item is the opportunity cost of not doing so. No financial cost exists.

Recommendation
It is recommended that the Trustees consider and evaluate the attached data for possible adoption either as presented or as modified.

Town of Essex
Boards and Commissions

Board/Commission	Yr. Formed	# of Mbrs Length of Term	Purpose	Desired Skills
Zoning Board	1959	5 3 yrs	Drawing from the goals and objectives established in the Town Plan and implemented via the zoning regulations, the Zoning Board's mission is to ensure that development occurs in a manner approved by voters and local officials. Zoning is in place to protect the individual property owner as well as to ensure the health, safety, and welfare of the citizenry of the Town of Essex. The Zoning Board is tasked with making quasi-judicial decisions in accordance with the adopted zoning regulations and state law in a fair and impartial manner.	Legal; contracting/development, land use planning, engineering, real estate, and at least one at-large citizen member.
Planning Commission	1958	7 4 yrs	Responsible for preparing, maintaining and amending the municipal plan, zoning regulations and subdivision regulations; undertaking reviews under these regulations; participating in the review of applications under Act 250; and authorizing studies and making recommendations on land development and redevelopment, transportation, design, historic and scenic preservation, energy conservation and natural resource protection.	Legal, engineering (civil or environmental), contracting/ development, land use planning/ law, real estate, transportation planning, architecture, historic preservation, and at least one at-large citizen member.
Conservation Committee	1989	5	Mission is to inventory and study the natural, historic, educational, cultural, scientific, architectural, or archaeological resources of the	Natural/environmental sciences and engineering, land use planning/law, historic preserva-

		3 yrs	town in which the public has an interest. Advise the Selectboard and Planning Commission on matters relating to the public understanding of local natural resources and conservation needs, development applications and acquisition of lands involving the above resources.	tion, architecture, archaeology, real estate, grant writing, and at least one at-large citizen member.
Trails Committee	1999	5 3 yrs	Mission is to preserve, develop and maintain a multi-use trail, sidewalk and greenway system in the town which will link residential neighborhoods to natural areas, schools, parks, businesses, recreational facilities, community centers and neighboring towns.	Conservation, recreation management, forestry, trail design and maintenance, land use planning/ law, grant writing, and at least one at-large citizen member.
Industrial Development Commission / Economic Development Commission	1985 / 1987	5 3 yrs	Formed in 1985 as the Industrial Development Commission, changed to Economic Development Commission in 1987; responsible for promoting the quality of life in Essex. The mission is to assist with the retention, expansion and development of existing business; assist with the location and development of new industrial and commercial firms to Essex; plan for development to assure economic diversification and to provide the Selectboard with advice to enhance the commercial and industrial base.	Economics (traditional, ecological), land use planning/law, economic development, marketing/advertising, business, development, and at least one at-large citizen member.
Memorial Hall Committee	1986	5 3 yrs	Purpose is to act on behalf of the Selectboard in the oversight and operation of Memorial Hall located on Towers Road in Essex Center; charged with maintaining the hall for the benefit of the entire community, planning and facilitating the use of the hall to include building improvements, exploring grant availability and executing fundraising efforts and providing annual recommendations to the Selectboard on usage fees.	Historic/cultural preservation, theater arts, grant writing. Committee membership recommended to be reduced from seven to five for consistency with other committees and make attaining a quorum easier
Library Board of	1899	7	Development of long-range plans, evaluating	Information technology, historic/

Trustees		3 yrs	library service and promoting library use throughout the town; assist the Town Manager in the selection of a head librarian and report to the Manager and Selectboard on the status of the library and expenditure monies under their management.	cultural preservation, though specific skills are less important than general affection for the library.
Energy Committee	2008	7 3 yrs	The committee makes recommendations to the Selectboard on targets and actions for decreasing energy use; researches and makes recommendations on renewable energy sources and efficiency improvements; assists staff and other committees and commissions on energy matters; advises on energy matters related to Town buildings; and development of energy efficiency educational programs to ensure that the Town shows leadership in conservation, efficiency, and the conversion to renewable and sustainable sources of energy.	Energy development, green/ sustainable building design or construction, land use planning/ law, environmental engineering, ecological economics, transportation planning/ engineering, architecture, grant writing, and at least one at-large citizen member.
Cemetery Commission	1794	5 3yrs	Members are appointed by the Town Manager with the approval of the Selectboard for 3-year terms. Responsible for the care and management of the town's burial grounds, establish fees, determining rules and regulations for the use of the cemetery and overseeing the income from the cemetery trust expendable fund with assistance from the town administration. (See Rules & Regulations attached)	Historic/cultural preservation, general affection for the particular Town function.

PLANNING COMMISSIONER

Mission/purpose:

As part of the seven-member Essex Planning Commission, the individual would be responsible for preparing, maintaining and amending the municipal plan, zoning regulations and subdivision regulations; undertaking reviews under these regulations; participating in the review of applications under Act 250; and authorizing studies and making recommendations on land development and redevelopment, transportation, design, historic and scenic preservation, energy conservation and natural resource protection.

The Planning Commission may also advise the Selectboard on policy matters related to land use planning.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: legal, engineering (civil or environmental), contracting/development, land use planning/law, real estate, transportation planning, architecture, or historic preservation. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

A Planning Commissioner must be a resident of the Town of Essex.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Four (4) years.

ECONOMIC DEVELOPMENT COMMISSIONER

Mission/purpose:

As part of the five-member Economic Development Commission, an individual would be responsible for promoting the quality of life in Essex; assisting with the retention, expansion and development of existing business; assisting with the location and development of new industrial and commercial firms to Essex; planning for development to assure economic diversification and providing the Selectboard with advice to enhance the commercial and industrial base.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: economics (traditional, ecological), land use planning/law, economic development, marketing/advertising, business, or development. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

An Economic Development Commissioner must be a resident of the Town of Essex.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Three (3) years.

TRAILS COMMITTEE MEMBER

Mission/purpose:

As part of the five-member Trails Committee, an individual is expected to advise the Selectboard, Planning Commission, and Town staff on the preservation, development and maintenance of multi-use trails, sidewalks, and greenway systems in the Town which will link residential neighborhoods to natural areas, schools, parks, businesses, recreational facilities, community centers and neighboring towns.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: conservation, recreation management, forestry, trail design and maintenance, grant writing, or land use planning/law. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Three (3) years.

ZONING BOARD OF ADJUSTMENT MEMBER

Mission/purpose:

As part of the five-member Zoning Board of Adjustment, an individual will be asked to ensure that development occurs in a manner consistent with the Town Plan, zoning regulations, and state law. The individual will make quasi-judicial decisions in accordance with the adopted zoning regulations and state law in a fair and impartial manner.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: legal, contracting/development, land use planning, engineering, or real estate. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

A member of the Zoning Board of Adjustment must be a resident of the Town of Essex.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Three (3) years.

LIBRARY TRUSTEE

Mission/purpose:

As part of the seven-member Library Board of Trustees, an individual would be responsible for the development of long-range plans, evaluating library service and promoting library use throughout the town; assisting the Town Manager in the selection of a head librarian, and reporting to the Manager and Selectboard on the status of the library and expenditure monies under the Board's management.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: information technology, historic/cultural preservation, or library science. Specific skills are less important than general affection for the Essex Free Library. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Three (3) years.

CEMETERY COMMISSIONER

Mission/purpose:

As part of the five-member Cemetery Commission, an individual would be responsible for the care and management of the Town's burial grounds, establishing fees, determining rules and regulations for the use of the cemetery, and overseeing the income from the cemetery trust expendable fund with assistance from the Town administration.

Preferred skills or traits:

A background in or experience with any of the following is helpful but not required: historic/cultural preservation. A general affinity for the particular Town function, along with a sense of civic duty is preferred. Each Board, Committee, or Commission of the Town of Essex shall hold at least one seat open for an "at large" member.

Requirements:

Must be able to attend meetings as scheduled, including occasional meetings with the Essex Selectboard.

Length of Term:

Three (3) years. Members are appointed by the Town Manager with the approval of the Selectboard.

Boards/Committees Mission Statement/Desired Skills Discussion - Pat Scheidel

Mr. Scheidel introduced the issue of developing a list of skills or traits desired for boards and committees. The recommendation was that the SB review and approve the mission changes and list of skills, reduce the Memorial Hall Committee from seven to five members, and schedule interviews for reappointments and vacancies.

Mr. Rogerson, with regards to Mr. Paul Bruso's letter recommending an attorney or someone with legal background on zoning issues be a part of the Zoning Board of Adjustment, wondered if it would be beneficial to identify key disciplines and clearly state those when advertising for positions. He suggested highlighting the disciplines as suggested for the committees and commissions. Mr. Post did not want there to be a checklist that would make people ineligible and feel discouraged. He did not want the "Desired Skills" to be exclusive, but only suggestive. He stated that the SB would have to evaluate if someone fit a discipline as well as evaluate members' performance on the committee. Mr. Scheidel explained to Ms. Wrenner that the value added in keeping a Memorial Hall Committee was to make sure that the building stayed useful, open for public use and as a cultural center. Ms Wrenner saw the Public Works Department and Recreation managing the building well on a day-to-day basis and was not sure if the vision piece would be missed.

Mr. Levy assumed that the practical use of this list was to see what skills were on the committee and what was needed when there was a vacancy. Mr. Scheidel clarified that the intent for this Agenda topic was for the SB to reaffirm the purpose as amended and whether the SB agreed with all the language and purpose of all the current missions, except for the Conservation Committee, which was working on some changes to its mission. Mr. Scheidel reminded the members that volunteers might have other skills that were useful to the Town and that these were people who wanted to help the community. Mr Post suggested dividing the question, but Ms. Myers preferred this issue return in a complete package. Mr. Levy suggested adding the following language to the mission for the Energy Committee: "To advise energy goals for the new Town buildings." Mr. Scheidel encouraged members to get staff any further comments before the next SB meeting.

Appointment of Representative and Alternate to the Merged CCRPC/CCMPO Organization (Jeff Carr and Irene Wrenner) - Trevor Lashua

Mr. Lashua introduced the issue of whether or not to appoint a representative and an alternate to the newly merged CCRPC/CCMPO organization. Ms. Myers requested that a second to the alternate be included.

DAVE ROGERSON MOVED AND BRUCE POST SECONDED A MOTION TO APPOINT JEFF CARR AS THE REPRESENTATIVE AND IRENE WRENNER AS THE ALTERNATE AND MAX LEVY AS THE SECOND ALTERNATE TO THE MERGED CCRPC/CCMPO ORGANIZATION.

THE MOTION PASSED 5-0.

Board Discussion: Heart & Soul Grant

receive the authorization to apply for the funds. Once the authorization has been approved, the next step is for the application to be submitted to the SB and the public for review and comment. The deadline for submission of the application is July 21st, which is different from the date in the June 15 memo to the Town Manager and SB. The 30-day window normally required for public review and comment has been waived due to late notice of the grant award. Mr. Levy asked if there was a match required. Acting Chief LaRose said there is not.

Mr. Post asked if the Acting Chief had any idea what the money would be used for since there is a variety of reasons for which the funds can be spent. Acting Chief LaRose said he does have some thoughts and that information would be available to the SB when the application is submitted next month and will also be available at the public hearing.

MOTION BY IRENE WRENNER SECONDED BY BRUCE POST THAT THE SELECTBOARD AUTHORIZE THE POLICE DEPARTMENT TO APPLY FOR, ACCEPT AND EXPEND BRYNE GRANT FUNDS IN THE AMOUNT OF $11,807.

MOTION PASSED 4-0.

Boards/Committees Discussion – Trevor Lashua

Mr. Lashua said that changes have been made to the Boards/Committees skills and mission table per SB suggestions. The first change is relative to the purpose of the Zoning Board. The language is amended, in part, from the Vermont Land Use Collaborative Zoning Administrator's Handbook. Grant writing has been added to a number of the committees. The job descriptions that the SB has are the amended ones.

Ms. Wrenner had some concern over the use of the word "citizen" as used in the Desired Skills column of the Boards/Commissions Table. She explained that Essex has residents who are not necessarily "citizens" and did not want to use the word too loosely to discourage people from volunteering their time. Mr. Lashua said that that was certainly not the intent.

Mr. Post gave "kudos" on changing the mission statement on zoning. He still has concerns about listing all the "technical" desired traits. He feels it may put someone off from volunteering because they lack the desired traits but have an interest and can learn. Mr. Post does not support the Desired Skills but he does support the Mission. Mr. Lashua explained that the staff has tried to include in the job descriptions, for example, that a background in any of the following is helpful but not required.

Mr. Levy, in regards to the Trails Committee, suggested adding something similar to what the staff did in a former packet under Trails where it says that it can be expected to advise the SB and Town staff. He asked if the Trails Committee also advises the Planning Commission. Mr. Lashua said he believes they have under certain circumstances. Mr. Levy suggested adding the Planning Commission to the Boards that the Trails Committee might be asked to advise.

Mr. Post wanted to divide the question so that the SB could vote separately on the Mission and the Skills. Mr. Levy asked for clarification on what Mr. Post was requesting. Mr. Post said he wants to make a motion that the SB approve the Mission, however, the recommendation of the staff is that the SB approve Skills and Mission Table as the guiding document for its appointments. He would like to vote separately on each because he would like to support the missions but is opposed to the skills.

MOTION BY BRUCE POST AND SECONDED BY IRENE WRENNER TO APPROVE THE MISSIONS AS RECOMMENDED BY THE STAFF.

Ms. Myers asked for clarification on why Mr. Post was asking for two separate motions. Mr. Levy explained that Mr. Post would like to have two separate motions made. One approving the missions/purpose of the committees and commissions and a separate one that would approve or disapprove the preferred skills or traits for each of them. Mr. Levy asked Mr. Post if he was correct in his response to Ms. Myers. Mr. Post said he would make a motion on the missions and if someone else wanted, they could make a motion on the skill sets. Ms. Myers said she is confused because she doesn't understand why the SB would want to divide the question. She doesn't understand Mr. Post's objection to the way the Table was presented. Mr. Post said his objection is that he likes making the missions clear, and second, if all sorts of technical traits are listed, it is off-putting to citizen members who don't think they have all the specific skills but are interested in serving.

MOTION PASSED 3-1 (LINDA MYERS OPPOSED).

IRENE WRENNER MOVED AND LINDA MYERS SECONDED A MOTION THAT THE SELECTBOARD APPROVE THE SKILL SETS AS WRITTEN.

MOTION PASSED 3-1 (BRUCE POST OPPOSED).

Rules & Regulations Discussion – Trevor Lashua

LINDA MYERS MOVED AND MAX LEVY SECONDED A MOTION TO MOVE THE RULES & REGULATIONS DISCUSSION UNTIL AFTER THE MINUTES ON THE AGENDA.

MOTION FAILED (Bruce Post and Irene Wrenner opposed.)

Mr. Lashua stated the SB requested, at their June 6 meeting, that this item be placed on a future agenda. The discussion focuses specifically on Section 10, as requested. The Section was amended to include the use of cell phones or other handheld devices during meetings. The discussion is, how broadly or narrowly is the definition of "handheld devices" and based on the answer, does the language cover the intent.

Mr. Levy said there are a number of things in the policy section of Rules & Regulations for Orderly Conduct of Business besides this one that he feels are ripe for discussion and recommendations, such as the abstentions as written. Mr. Levy's preference would be to have

Patrick Scheidel
Village Manager
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www.essexjunction.org

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MEMORANDUM

TO: Village Trustees
FROM: Pat Scheidel, Village Manager PLS
DATE: July 17, 2013
SUBJECT: Memo format

In an attempt to focus our public discussions on the issues to be decided, a revised memo format to crystalize the topic will appear on agendas. The essential format includes four areas: issue, discussion, cost, recommendation.

The **issue** is always the main topic for a Trustee discussion.

The **discussion** is a synopsis of the topic to clarify it. Often more lengthy background data is necessary and will be attached.

The **cost** section crystalizes the direct or indirect costs associated with the issue. Often a brief discussion will be presented if it is more extensive than stating the location in a budget.

The **recommendation** paragraph is the author's recommendation and it is written in such a way as to be the motion by the Trustees should the proposal be accepted as introduced.

As always, the recommendation may be approved as written, amended, rejected or tabled.

The additional purpose/benefit of this format allows the busy Trustee the luxury of a two page memo that summarizes the issue/agenda item, while balancing a busy non-Trustee life. It also keeps us on topic at the meeting.

MEMORANDUM

TO: Essex Junction Trustees & Department Heads
FROM: Pat Scheidel, Village Manager
DATE: July 23, 2013
SUBJECT: Trustees Meeting Schedule

TRUSTEES MEETING SCHEDULE/*EVENTS*

Aug. 13 at 6:30 – Regular Trustees Meeting

- Discussion with Essex Police Chief Brad LaRose
- Discussion of proposals for new website

Aug. 27 at 6:30 – Regular Trustees Meeting
Sept. 10 at 6:30 – Regular Trustees Meeting
Sept. 24 at 6:30 – Regular Trustees Meeting
Oct. 3 at Killington – VLCT 2013 Town Fair
Oct. 8 at 6:30 – Regular Trustees Meeting

- Approve Design Engineer for Multiuse Safety Path
- Set FY 15 Budget Goals

Oct. 22 at 6:30 – Regular Trustees Meeting
Nov. 12 at 6:30 – Regular Trustees Meeting

- Schedule FY 15 Budget Day

Nov. 26 at 6:30 – Regular Trustees Meeting
Dec. 10 at 6:30 – Regular Trustees Meeting

Village of Essex Junction
2013 Block Party Committee Meeting Minutes
June 24 at 3:30 PM

Present: Sam Jackson, Joanie Maclay, Darby Brazoski and Patty Benoit.

The committee reviewed the draft site plan after getting the current list of participants. There were no issues and we didn't end up moving anyone yet. There is room for additional participants. We're trying to get the Belted Cow Bistro to participate - they're doing very well at the farmer's market and we approached them about the block party.

Railroad Ave. will be closed at 1 p.m. but participants can't set up until 2 p.m. because Public Works has a lot to do in terms of bringing the benches, picnic tables, info booth, chairs, etc. When we send out the site plan to the participants, Sam recommended we highlight the parking restriction that vehicles need to be off the street by 3:30 p.m.

The masseuse from Angelic Touch cancelled and Darby will approach a couple of other ones in the area. There's a new physical therapy business on Main St. and she will reach out to them to invite them. We met with the owner of Fit 2 Excel/Injury to Excellence about their mini boot camp and they were very excited about coming to the block party. They're also planning a raffle.

The group discussed purchasing t-shirts for "dunkees", per the request of the Jr. ROTC. The t-shirts would say, "I was dunked at the block party" and they can use them to change into after getting wet. We have a price from East Coast Printers of $7.50 each and Sam is going to check with Sports Central. Joanie asked about t-shirts for the committee and volunteers so we'll look into that too. There's currently a surplus in the budget even though we haven't reached our budget for sponsors ($1,200 received to date, $1,500 budgeted).

The question of "Up in Smoke" being open during the block party came up and the hope is they wouldn't be open. Darby and Patty will stop in to inquire about it when the shop is open.

We'll ask the Trustees if any of them would like to cover an hour in the info booth and we have another interested person, Nancy Corbin, from previous years. Patty will work on that schedule to include committee members too.

The meeting adjourned at 4:25 p.m. There will be no further meetings before the block party on July 20th.

Respectfully submitted,
Patty Benoit

Memorandum

Aldrich + Elliott
WATER RESOURCE ENGINEERS

Date: June 28, 2013

To: Essex Junction Board of Trustees
David Crawford
Jim Jutras

From: Brad Aldrich, P.E.

RE: **Project Close-Out – High School Pump Station**

We are pleased to report that the High School Pump Station Upgrade project has been successfully completed on schedule and under-budget. The pump station is operating as designed and the operators are pleased with its functionality.

The following is a summary of the pertinent facts concerning this project:

Contractor:	Kingsbury Companies, LLC of Waitsfield, VT
Original Contract Price:	$1,013,656.00
Final Contract Amount:	$1,037,039.00
Contract Start:	April 6, 2012
Substantial Completion:	December 1, 2012 (Pump Station operational)
Final Completion:	May 10, 2012
Total Project Cost:	$1,235,837.00 (refer to Total Project Cost Summary)
Bond Authorization:	$1,257,000.00
Underrun on Bond:	($21,163.00)

It should be pointed out that the construction was difficult in that it required a deep excavation for the new wetwell and dry well adjacent to Indian Brook. The new Pump Station was constructed while keeping the existing adjacent pump station fully operational on a very tight site. The construction was not without challenges, but the entire project team, including Dave Crawford, Jim Jutras and his staff were instrumental in working with A+E and Kingsbury to deliver a successful project.

Attached is a letter of recommendation that Dave Crawford prepared for Kingsbury Companies upon project completion, for your reference.

6 Market Place, Suite 2
Essex Junction, VT 05452
802.879.7733
www.AEengineers.com

VILLAGE OF ESSEX JCT
HIGH SCHOOL PUMP STATION UPGRADE
CONTRACT NO. 2

TOTAL PROJECT COST SUMMARY
As of June 28, 2013

ITEM DESCRIPTION	TOTAL ESTIMATED COST	SRF ELIGIBLE COST	LOCAL SHARE
Construction			
High School Pump Station - Contract 2			
Base Bid (Kingsbury)	$ 1,013,656	$ 1,013,656	$ -
Change Orders (#1 - #7)	$ 23,383	$ 23,383	
Small Purchases	$ 1,398	$ 1,398	$ -
Construction Subtotal	$ 1,038,437	$ 1,038,437	$ -
Construction Contingency			
Construction Contingency	$ -	$ -	$ -
Subtotal	$ -	$ -	$ -
Step I - Preliminary Engineering			
Preliminary Engineering Report	$ -	$ -	$ -
Step I Subtotal	$ -	$ -	$ -
Step II - Final Design			
Final Design and Permitting	$ 65,500	$ 65,500	$ -
Step II Subtotal	$ 65,500	$ 65,500	$ -
Step III - Construction Phase Engineering			
Bid Phase Services	$ 3,700	$ 3,700	$ -
Construction Administration	$ 28,600	$ 28,600	$ -
Resident Representation	$ 75,000	$ 75,000	$ -
Special Services	$ 8,100	$ 8,100	$ -
Additional Services - Time Extension	$ 13,500	$ 13,500	$ -
Step III Subtotal	$ 128,900	$ 128,900	$ -
Other Costs			
Administrative	$ 1,500	$ 1,500	$ -
Bond Vote Assistance	$ -	$ -	$ -
Legal	$ 1,500	$ 1,500	$ -
Land Acquisition	$ -	$ -	$ -
Short Term Interest	$ -	$ -	$ -
Other Subtotal	$ 3,000	$ 3,000	$ -
TOTAL PROJECT COST	**$ 1,235,837**	**$ 1,235,837**	**$ -**
LOCAL SHARE			**$ -**
BOND AMOUNT	**$ (21,163)**	**$ 1,257,000**	

1|001Bne
BAK/JK

Essex Junction

2 Lincoln Street
Essex Junction, VT 05452
www.essexjunction.org

Office: (802) 878-6944
Fax: (802) 878-6946

June 24, 2013

Mr. TJ Kingsbury
Kingsbury Companies, LLC
264 Mad River Park
Waitsfield, VT 05673

RE: Essex Junction Contract #2
High School Pump Station Upgrade
Letter of Recommendation

Dear TJ:

This letter is to acknowledge the satisfactory completion of the above referenced project. Kingsbury Companies delivered a completed project that meets the design intent. The project was completed within budget.

We appreciated that as issues came up we were able to discuss and resolve them to our mutual satisfaction.

Based on the above, I would give Kingsbury and overall favorable rating for their performance on this project. Prospective clients should feel free to contact me as a reference.

Sincerely,

David A. Crawford
Owner's Project Representative

cc Brad Aldrich, P.E. (A+E)
Jim Justas, Water Quality Superintendent

Village of Essex Junction
The economic engine of Vermont.

MEMORANDUM

TO: Village Trustees
FROM: Robin Pierce, Development Director
THROUGH: Pat Scheidel, Village Manager
DATE: July 23, 2013
SUBJECT: Connector Road Update

Traffic modeling is continuing, looking at intersections with and without school traffic.

The model for air and noise has been prepared and the traffic model data will be utilized for the noise and air modeling as soon as it becomes available.

Soil testing is occurring to determine the suitability of the ground along the Connector Road alignment for the proposed use.

Background noise measurements will occur soon. The study will utilize the 2011 Noise Policy guidelines.

The consultant met with Rick Jones to identify any potential or existing stormwater problems.

The proposed Plan alignment was sent to stakeholders and governmental organizations for comment. The only response from the plan distribution has been from the US Army Corps of Engineers stating that the project has no issues that they regulate.

Plans have been completed as far as possible as we await traffic and Environmental Assessment information. XoRail (the railway company's consultant) has presented preliminary crossing plans to NECR. Once NECR comments have been received the Plans will be sent to the Village for review and comment.

Currently there are 31 parking spaces shown in the satellite area between the connector Road and the rail line south of Maple Street.

Archaeological studies will be performed by UVM and the work will start soon.

The current goal is to complete the EA process and have a public update hearing in late summer with the Trustees.

The EA document is being drafted. The current goal is to complete the EA process and have a public update hearing with the Trustees in late summer.

112 State Street
4th Floor
Montpelier, VT 05620-2701
TEL: 802-828-2358

TTY/TDD (VT): 800-253-0191
FAX: 802-828-3351
E-mail: psb.clerk@state.vt.us
Internet: http://www.state.vt.us/psb

State of Vermont

Public Service Board

July 10, 2013

NOTICE OF HEARING

You are hereby notified that a Hearing Officer of the Public Service Board, Mary Jo Krolewski, Utilities Analyst, will hold a **PREHEARING CONFERENCE**, pursuant to 30 V.S.A. Sections 8, 10 and 248, in PSB Docket No. 8076 –

> Petition of ERWR Whitcomb Farm Solar, LLC, for a certificate of public good, pursuant to 30 V.S.A. § 248, authorizing the construction and operation of a 2,200 kW photovoltaic electric generation facility to be located on the Whitcomb Farm off of South Street in Essex Junction, Vermont –

on **Wednesday, July 24, 2013**, commencing at **9:30 A.M.**, at the Public Service Board Hearing Room, Third Floor, People's United Bank Building, 112 State Street, Montpelier, Vermont.

VERMONT PUBLIC SERVICE BOARD

By: Susan M Hudson
Susan M. Hudson
Clerk of the Board

PSB Docket No. 8076 - SERVICE LIST

Parties:

*Megan Ludwig, Esq.
Vermont Department of Public Service
112 State Street
Montpelier, VT 05620-2601

Leslie A. Cadwell, Esq.
Matthew S. Stern, Esq.
Gravel & Shea PC
76 St. Paul Street, 7th Floor - P.O. Box 369
Burlington, VT 05402-0369

(For ERWR Whitcomb Farm Solar, LLC)

Donald J. Einhorn, Esq.
Vermont Agency of Natural Resources
1 National Life Drive, Davis 2
Montpelier, VT 05620-3901

**Diane E. Zamos, Esq.
Assistant Attorney General
Office of the Attorney General
109 State Street
Montpelier, VT 05609-1001

(For Vermont Agency of Agriculture, Food & Markets)

*Notice of appearance to be filed.
**Motion to Intervene to be filed.

Interested Persons:

Mary Jo Krolewski, Hearing Officer
Kevin Fink, David Watts, PSB

JoAnn Q. Carson (Court Reporter)
11 Northshore Drive
Burlington, VT 05408

Kim Sears (Court Reporter)
18 Paddock Lane
Williston, VT 05495

Statutory Interested Persons:

Office of the Vermont Attorney General
c/o Mary-Kay Swanson, Executive Assistant
Pavilion Building - 109 State Street
Montpelier, VT 05609

Harry Chen, M.D., Commissioner
Vermont Department of Health
108 Cherry Street - PO Box 70
Burlington, VT 05402

Devin Coleman
Scott Dillon
Vermont Historic Preservation Division
One National Life Drive - Floor 6
Montpelier, VT 05620-0501

Brian Searles, Secretary
Vermont Agency of Transportation
National Life Building - Drawer 33
Montpelier, VT 05633-5001

Chuck Ross, Secretary
Vermont Agency of Agriculture, Food & Markets
116 State Street - Drawer 20
Montpelier, VT 05620-2901

Chairperson, Village of Essex Junction Board of Trustees
c/o Susan McNamara-Hill, Village Clerk
2 Lincoln Street
Essex Junction, VT 05452

Chairperson, Village of Essex Junction Planning Commission
c/o Susan McNamara-Hill, Village Clerk
2 Lincoln Street
Essex Junction, VT 05452

Charlie Baker, Executive Director
Chittenden County Regional Planning Commission
110 West Canal Street - Suite 202
Winooski, VT 05404

STATE OF VERMONT
PUBLIC SERVICE BOARD

Docket No. 8076

Petition of ERWR Whitcomb Farm Solar, LLC for a Certificate of Public Good pursuant to 30 V.S.A. §248 authorizing the construction of a 2,200 kW photovoltaic electric generation facility to be located on the Whitcomb Farm in Essex Junction, Vermont

NOTICE OF APPEARANCE

Please enter the appearance in the above captioned matter of Megan Ludwig, Special Counsel, for the Vermont Department of Public Service.

Dated at Montpelier, Vermont this 11th day of July, 2013.

VERMONT DEPARTMENT OF PUBLIC SERVICE

By: _____
Megan Ludwig
Special Counsel

cc: Service List

PSB Docket 8076 - SERVICE LIST

Parties:

Megan Ludwig, Esq.
Vermont Department of Public Service
112 State Street
Montpelier, VT 05620-2601

Leslie A. Cadwell, Esq.
Matthew S. Stern, Esq.
Gravel & She PC
76 St. Paul Street – 7th Floor
PO Box 369
Burlington, VT 05402-0369

Donald J. Einhorn, Esq.
Vermont Agency of Natural Resources
1 National Life Drive – Davis 2
Montpelier, VT 05602-3901

Diane E. Zamos, Esq.
Assistant Attorney General\Office of the Attorney General
109 State Street
Montpelier, VT 05609-1001

Statutory Interested Persons:

Office of the Vermont Attorney General
c/o Mary-Kay Swanson, Executive Assistant
Pavilion Building - 109 State Street
Montpelier, VT 05609

Harry Chen, M.D., Commissioner
Vermont Department of Health
108 Cherry Street - PO Box 70
Burlington, VT 05402

Devin Coleman - Scott Dillon
Vermont Historic Preservation Division
One National Life Drive - Floor 6
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Brian Searles, Secretary
Vermont Agency of Transportation
National Life Building - Drawer 33
Montpelier, VT 05633-5001

Chuck Ross, Secretary
Vermont Agency of Agriculture, Food & Markets
116 State Street - Drawer 20
Montpelier, VT 05620-2901

Chairperson, Village of Essex Junction Board of Trustees
Chairperson, Village of Essex Junction Charlie Planning Commission
C/O Susan McNamara-Hill, Village Clerk
2 Lincoln Street
Essex Junction, VT 05452

Charlie Baker, Executive Director
Chittenden County Regional Planning Commission
110 West Canal Street – Suite 202
Winooski, VT 05404

CHITTENDEN COUNTY RPC
Communities Planning Together

110 West Canal Street, Suite 202
Winooski, Vermont 05404-2109
802-846-4490
www.ccrpcvt.org

MEMORANDUM

TO: Chittenden County Municipal Legislative Chair & Municipal Planners
FROM: Charlie Baker, Executive Director
DATE: July 15, 2013
RE: Chittenden County ECOS Plan
CC: Municipal Managers/Administrators & Municipal Clerks

Enclosed you will find two hardcopies of the final *Chittenden County ECOS Plan* – which is both the Regional Plan, Metropolitan Transportation Plan, and the Comprehensive Economic Development Strategy. The ECOS Plan was adopted by the Chittenden County Regional Planning Commission on June 19, 2013, and by the Greater Burlington Industrial Corporation on June 25, 2013.

With particular regards to the Regional Plan, **the *ECOS Plan* will take effect as the Chittenden County Regional Plan on July 24, 2013** per 24 V.S.A. §4348(f).

We will be providing the municipal libraries with a hardcopy of the plan as well. In addition the plan is available online at http://www.ecosproject.com/plan.

Tremendous thanks to all of you who contributed to creating this shared vision for a healthy, inclusive and prosperous community. We are looking forward to hearing about -- and sharing -- your actions and accomplishments as we continue to realize the vision.

Please let Regina Mahony know if you have any questions. She can be reached at rmahony@ccrpcvt.org, or 802-846-4490 ext. 28.

Enclosures

VILLAGE OF ESSEX JUNCTION
BOARD OF TRUSTEES
MINUTES OF MEETING
June 25, 2013

BOARD OF TRUSTEES: George Tyler (Village President); Dan Kerin, Lori Houghton, Elaine Sopchak. (Andrew Brown was absent.)

ADMINISTRATION: Pat Scheidel, Village Manager; Lauren Morrisseau Co-Assistant Manager & Finance Director; Susan McNamara-Hill, Co-Assistant Manager & Village Clerk/Treasurer; Rick Hamlin, Village Engineer.

OTHERS PRESENT: Dan Manz.

EXECUTIVE SESSION

The Trustees met in Executive Session prior to the regular meeting to interview candidate(s) for a vacancy on the Planning Commission.

1. CALL TO ORDER and PLEDGE OF ALLEGIANCE

Village President, George Tyler, called the meeting to order at 6:30 PM and led the assemblage in the Pledge of Allegiance.

2. AGENDA ADDITIONS/CHANGES

Add to Consent Agenda:

- Banner application, Railroad Ave.

3. GUESTS, PRESENTATIONS, & PUBLIC HEARINGS

a. Comments from Public on Items Not on Agenda

None.

b. Public Hearing: FY14 Water and Sewer Rates

The public hearing opened at 6:32 PM. Lauren Morrisseau reviewed FY14 water and sewer rates as follows:

- Water fixed charge of $21.05/unit/quarter and usage charge of $.014/c.f. of metered water.
- Sewer fixed charge of $24.42/unit/quarter and usage charge of $.0089/c.f. of metered water.
- Sanitation fixed charge of $21.00/unit/quarter and usage charge of $.0047/c.f. of metered water.
- IBM large user rate of $.075 per 1,000 gallons.

The average user paid $397 this year and will pay $427 including bond payment next year. Susan McNamara-Hill noted people like receiving bills four times per year (quarterly) rather than twice a year.

There were no further comments. The public hearing was closed.

c. Presentation by Essex Rescue

Dan Manz with Essex Rescue expressed appreciation for the support provided to Essex Rescue by Essex Junction. Mr. Manz explained the evolution of ambulance service in the area for the past 40 years as part of the EMS system. Essex Rescue has 60 volunteer members and four staff, a board of directors and an executive director. Essex Rescue works with other emergency agencies (fire, police, rescue) and provides mutual aid to surrounding towns. Challenges for the future include maintaining an adequate number of volunteers, facilities, adequate funding to cover costs, and future demands for service. Mr. Manz asked for Essex Junction's continued support of Essex Rescue.

George Tyler mentioned the Vermont Tech College program for student interns with the fire department. Dan Manz said there are specific requirements for rescue, but the VTC program merits further investigation.

There was brief discussion of service areas covered by Essex Rescue and surrounding communities, and strategic planning for the future (especially for facilities).

4. OLD BUSINESS

a. Re-Adopt FY14 WWTF Revenue Budget

Lauren Morrisseau reported the percentage of flow by community has changed from what was presented at the village annual meeting. Staff is recommending the waste water revenues be changed to $692,009 with $434,242 charged to Essex and $567,359 charged to Williston.

MOTION by George Tyler, SECOND by Dan Kerin, to amend the line items in the WWTF budget as recommended in the memo from Jim Jutras, dated 6/25/13. VOTING: unanimous (4-0); motion carried.

b. Set FY14 Water and Sewer Rates

MOTION by George Tyler, SECOND by Lori Houghton, to set the FY14 water and sewer rates as follows:

- **Water fixed charge of $21.05/unit/quarter and usage charge of $.014/c.f. of metered water.**
- **Sewer fixed charge of $24.42/unit/quarter and usage charge of $.0089/c.f. of metered water.**
- **Sanitation fixed charge of $21.00/unit/quarter and usage charge of $.0047/c.f. of metered water.**
- **IBM large user rate of $.075 per 1,000 gallons.**

VOTING: unanimous (4-0); motion carried.

5. NEW BUSINESS

a. Appointments to Boards and Commissions

Planning Commission

MOTION by George Tyler, SECOND by Lori Houghton, to reappoint Diane Clemens and Nick Meyer each to three year terms on the Planning Commission ending June 30, 2016. VOTING: unanimous (4-0); motion carried.

Zoning Board of Adjustment
MOTION by George Tyler, SECOND by Elaine Sopchak, to reappoint Bruce Murdough and Martin Hughes each to three year terms on the Zoning Board of Adjustment ending June 30, 2016. VOTING: unanimous (4-0); motion carried.

Chittenden County Regional Planning Commission
MOTION by George Tyler, SECOND by Lori Houghton, to appoint Dan Kerin as the village representative to CCRPC and Andrew Brown as the alternate. VOTING: unanimous (4-0); motion carried.

CCRPC Transportation Advisory Committee
MOTION by George Tyler, SECOND by Dan Kerin, to appoint Robin Pierce to a two year term ending June 30, 2015 as the village representative to CCRPC TAC. VOTING: unanimous (4-0); motion carried.

Chittenden Solid Waste District
MOTION by Lori Houghton, SECOND by Elaine Sopchak, to appoint George Tyler as the village representative to CSWD and Dan Kerin as the alternate. VOTING: unanimous (4-0); motion carried.

b. Approve Village Manager Annual Appointments
Lauren Morrisseau noted the following appointments:

- Village Attorney – Dave Barra
- Village Fire Chief – Chris Gaboriault
- Village Engineer – Hamlin Consulting Engineers
- Village Clerk/Treasurer/Tax Collector – Susan McNamara-Hill

MOTION by George Tyler, SECOND by Lori Houghton, to approve the annual appointments by the Village Manager to include:

- **Village Attorney – Dave Barra**
- **Village Fire Chief – Chris Gaboriault**
- **Village Engineer – Hamlin Consulting Engineers**
- **Village Clerk/Treasurer/Tax Collector – Susan McNamara-Hill**

DISCUSSION: Elaine Sopchak reiterated her concern about having the same village attorney, engineer, and auditor for many consecutive years and would like the Trustees in the future to look at extending the options.
VOTING: unanimous (4-0); motion carried.

c. Discuss Action List from Trustees Retreat
George Tyler summarized the Trustees retreat where issues needing action and new initiatives/efforts in the upcoming legislative session were discussed including:

- Evaluation of the "shared manager" by the village and town. (Feedback will be gathered from Pat Scheidel on how the arrangement is working and where improvement is needed.)
- Detailing next steps going forward and how the two governing boards act together to fill the manager's position when vacant. (Aug./Sept. timeframe)

- Tobacco licenses in Essex Junction. (Trustee Brown handling this item.)
- Questionable massage parlors in Essex Junction (Trustee Sopchak handling this item.)
- Refurbishment of the village website (staff is investigating this item.)
- Enforcement of the Land Development Code (LDC). (Darby Brazoski will do public education on what can be done per the LDC. The town will also be consulted on their enforcement effort. The enforcement policy previously adopted by the village will be enacted.)
- Village and Town collaboration on the comprehensive plan. (Pat Scheidel did an information packet. During reappointments the town discusses each individual's experience serving on the board.)
- Affordable housing in the village. (An affordable housing professional advocate will address the Trustees.)
- Redevelopment of the bank property at Five Corners and how the village can work with developers on key parcels. (The developer of the bank property will be invited to review the proposal with the Trustees.)
- Trimming vegetation in the public right-of-way. (Public works will handle this.)
- Registry of rental properties in the village. (Fire Department does not have a list as previously thought.)
- Keeping better track of what is happening in the Planning Office.
- Communications policy. (George Tyler will flesh out the draft document.)
- Incorporate Heart & Soul values and definitions into village processes.
- Help IBM market proposed property for development. (Greg Morgan will be contacted for input.)
- Scoping study for traffic rerouting on Main Street from the railroad tracks to Five Corners (Brownell Block) for community public space.

6. VILLAGE MANAGER'S REPORT

a. Meeting Schedule

- July 23 @ 6:30 – Regular Trustees Meeting
- August 13 @ 6:30 – Regular Trustees Meeting
- August 27 @ 6:30 – Regular Trustees Meeting
- September 10 @ 6:30 – Regular Trustees Meeting
- September 24 @ 6:30 – Regular Trustees Meeting
- October 8 @ 6:30 – Regular Trustees Meeting
- October 22 @ 6:30 – Regular Trustees Meeting

Special Meetings/Events:

- July 20 @ 4-9 PM – Village Annual Block Party & Street Dance
- October 3 – VLCT 2013 Town Fair at Killington

2. See-Click-Fix Program

The consensus of the Board is not to renew the See-Click-Fix program.

3. Name Plates

The new name plates are from the Engraving Bench.

4. No Meeting on July 9, 2013
There will not be a Trustees meeting on July 9, 2013 due to renovation work at the village offices. The next regular Trustees meeting is July 23, 2013. The Trustees will set the tax rate on July 23, 2013. Police Chief Brad LaRose will provide an update to the Trustees at the August 13th meeting.

5. Block Party – July 20th
The annual village block party is July 20, 2013. All are invited.

6. VLCT Town Fair
Staff and Trustees will attend.

7. TRUSTEES COMMENTS/ANNOUNCEMENTS

a. Board Member Comments
None.

b. Reading File

- Minutes from Capital Program Committee 6/4/13 & Bike/Walk Advisory Committee 6/11/13
- Letter of Support for Whitcomb Farm Solar Project
- Cover Letter for Certificate of Public Good for Whitcomb Farm Solar Project
- Thank You Letter to Virginia Powers

8. CONSENT AGENDA & READING FILE

MOTION by Dan Kerin, SECOND by Elaine Sopchak, to approve the consent as follows and with the addition of the memo regarding the application for a banner on Railroad Avenue and the request to waive the fee, insurance and liability requirement:

1. **Approve Minutes of Previous Meetings (6/11/13 with correction of name of reporting program to read: "See-Click-Fix" & 6/17/13)**
2. **Approve Warrants including Checks #10047263 through #10047351 totaling $1,391,181.25**
3. **Approve Final SRF Loan Amendment for WWTF**
4. **Approve Grant Application and Local Match for 2013 VTrans Bicycle and Pedestrian Program**

VOTING: unanimous (4-0); motion carried.

9. EXECUTIVE SESSION and/or ADJOURNMENT

MOTION by Dan Kerin, SECOND by Lori Houghton, to adjourn the meeting.
VOTING: unanimous (4-0); motion carried.

The meeting adjourned at 8 PM.

RScty: M.E.Riordan

Check Register Report

BL 6/27/13

Date: 07/02/2013
Time: 3:49 pm
Page: 1

Village of Essex Junction BANK:

C Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
Checks							
10047352	06/25/2013	Printed		05530	COSTCO COLCHESTER #314	SUPPLIES-FIRE	179.80
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10047354	06/27/2013	Printed		0025	ESSEX AGWAY	SUPPLIES-FIRE	39.99
10047355	06/27/2013	Printed		10556	ARTFUL CHIMNEY SWEEP	CHIMNEY LINER-LH	475.00
10047356	06/27/2013	Printed		0173	BEARINGS SPECIALTY CO., INC.	VOLGELSANG COUPLING-WWTF	95.82
10047358	06/27/2013	Printed		0268	BRODART CO.	CIRC MATERIALS-LIBR&FRIENDS	647.57
10047359	06/27/2013	Printed		0315	BURLINGTON TOOL REPAIR	SAW PARTS-WWTF	3.60
10047360	06/27/2013	Printed		9743	CARQUEST AUTO PARTS	SUPPLIES-VARIOUS	101.26
10047361	06/27/2013	Printed		0500	CHAMPLAIN WATER DISTRICT	CONSUMER CONFIDENCE RPTS-WTR	1,311.93
10047362	06/27/2013	Printed		2305	CLARK'S TRUCK CENTER	A/C BELT REPAIR-FIRE	115.39
10047363	06/27/2013	Printed		9788	COMCAST	CABLE-STREET	62.29
10047364	06/27/2013	Printed		0590	CYR LUMBER	BARK MULCH-STREET	84.00
10047365	06/27/2013	Printed		0624	DEMCO, INC.	SUPPLIES-LIBRARY	354.42
10047366	06/27/2013	Printed		9766	ALBERTA DEUTSCH	SUMMER PGM MAT'LS REIMB-LIB	52.94
10047367	06/27/2013	Printed		0710	ENDYNE, INC.	WEEKLY SAMPLES-WWTF	25.00
10047368	06/27/2013	Printed		0780	ESSEX EQUIPMENT SALES	HYDRAULIC OIL-WWTF	46.51
10047369	06/27/2013	Printed		9669	ESSEX FREE LIBRARY	BOOK REIMBURSEMENT-LIBRARY	110.00
10047370	06/27/2013	Printed		10226	G & K SERVICES	SHOP TOWELS-STREET	59.80
10047372	06/27/2013	Printed		0965	GREEN MOUNTAIN POWER CORP.	ELECTRICITY-VARIOUS DEPARTS	5,297.96
10047373	06/27/2013	Printed		1035	DONALD L. HAMLIN	ENG SERV- VARIOUS	3,904.32
10047374	06/27/2013	Printed		1031	HANNAFORD BROTHERS CO.	SUPPLIES-WWTF	25.16
10047375	06/27/2013	Printed		9673	INTERSTATE BATTERY OF CV	BATTERY-STREET	54.00
1[illegible]76	06/27/2013	Printed		2041	S. D. IRELAND CONCRETE	CONCRETE-STREET	514.00
10047377	06/27/2013	Printed		1204	WENDY L. JOHNSON	MILEAGE REIMB-LIBRARY	215.83
10047378	06/27/2013	Printed		1210	JAMES JUTRAS	MILEAGE&SUPPLIES REIMBURSE-WWT	163.57
10047379	06/27/2013	Printed		10456	KINGSBURY COMPANIES, LLC	FINAL PAYMENT HSPS-SANI	25,151.90
10047380	06/27/2013	Printed		10045	KME FIRE APPARATUS	WINDOW SWITCH-FIRE	55.21
10047381	06/27/2013	Printed		10245	MAILFINANCE	POSTAGE MTR LEASE-ADM	254.91
10047382	06/27/2013	Printed		10173	SUSAN MCCORMACK	STRATEGIC PLANNING MTG-LIB	300.00
10047383	06/27/2013	Printed		1000	SUSAN J. MCNAMARA-HILL	REIMBURSE EXPENSE-ADMIN	82.99
10047384	06/27/2013	Printed		1516	MILTON RENTAL & SALES INC	MOWER PARTS-STREET	132.86
10047385	06/27/2013	Printed		1661	NORTH CENTRAL LABORATORIES	SAMPLE CONTAINERS-WWTF	147.10
10047386	06/27/2013	Printed		1663	NORTH COUNTRY FIRE PROTECTION	SPRINKLER SYS TEST/INSP-LIB	105.00
10047387	06/27/2013	Printed		1789	PIKE INDUSTRIES, INC.	ASPHALT-STREET	278.76
10047388	06/27/2013	Printed		10235	PRATT & SMITH INC	CATWALK MOTOR REPAIR-WWTF	97.50
10047389	06/27/2013	Printed		9230	RONNIE PREAVY	WELDING- VARIOUS DEPTS	60.00
10047390	06/27/2013	Printed		1780	EVERETT J. PRESCOTT, INC.	SUPPLIES-WATER	641.59
10047391	06/27/2013	Printed		20732	THE SHERWIN-WILLIAMS CO.	PAINT-STREET	89.25
10047392	06/27/2013	Printed		10463	SHRED-EX	DOCUMENT SHREDDING-ADMIN	10.00
10047393	06/27/2013	Printed		9627	THE SMALL ENGINE CO., INC	FILTER/SPARK PLUGS-STREET	67.42
10047394	06/27/2013	Printed		21153	SOVERNET COMMUNICATIONS	PH/INTERNET-STREET/FIRE	250.47
10047395	06/27/2013	Printed		2312	UI INSURANCE SERVICES, INC.	INS PREMIUM-FIRE	3,600.00
10047396	06/27/2013	Printed		9900	VERMONT STATE TREASURER'S OFF	2008 KME PUMPER LOAN-CAP R	22,440.00
10047397	06/27/2013	Printed		9968	VISION SERVICE PLAN-CONNECTICU	INS PREMIUM-VARIOUS DEPT	410.49
10047398	06/27/2013	Printed		2385	VT LEAGUE OF CITIES AND TOWNS	WORKSHOP-ADMIN	130.00
10047399	06/27/2013	Printed		2485	WESCO DISTRIBUTION, INC.	BATTERIES-LH	41.76
10047400	06/27/2013	Printed		2510	FRANK WHITCOMB CONSTRUCTION	GRAVEL-STREET	351.64
10[illegible]01	06/27/2013	Printed		9356	WILLIAMSON ELECTRICAL, INC	SERVICE CALL-LIBRARY	114.80
10047402	06/27/2013	Printed		10555	AMY WOLF	REFUND OVRPD WATER/SEWER	183.09

Total Checks: 49 **Checks Total (excluding void checks): 69,053.40**

Check Register Report

BL 6/27/13

Village of Essex Junction

BANK:

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				Total Payments: 49		**Grand Total (excluding void checks):**	**69,053.40**

Check Register Report

BL 7/23 FINAL FY 13

Date: 07/18/2013
Time: 3:56 pm
Page: 1

Village of Essex Junction

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10047403	06/30/2013	Printed		1935	FERGUSON WATERWORKS #590	MANHOLE COVER LIFTER-WWTF	700.45
10047404	06/30/2013	Printed		23415	VERIZON WIRELESS	CELL PHONES-VARIOUS	293.00
10047405	07/23/2013	Printed		10508	ADVANCED DISPOSAL	GRIT REMOVEL-WWTF	297.06
10047406	07/23/2013	Printed		10290	ALDRICH + ELLIOT, PC	ENGINEERING-VARIOUS	59,559.17
10047408	07/23/2013	Printed		00382	AMAZON.COM CREDIT	CIRC MATER&SUPPLIES-LIBRARY	1,135.95
10047409	07/23/2013	Printed		10033	AQUA SOLUTIONS INC	LOB KIT SEC PUMP-WWTF	508.19
10047410	07/23/2013	Printed		9976	AVONDA AIR SYSTEMS, INC	AC MAINT-LIBRARY	285.94
10047411	07/23/2013	Printed		10301	DAVID A. BARRA, PLC	LEGAL SERVICES-VARIOUS	2,609.00
10047412	07/23/2013	Printed		9963	BENOURE PLUMBING & HEATING INC	PLUMBING REPAIR-LIBRARY	287.78
10047413	07/23/2013	Printed		0210	BLACKSTONE AUDIOBOOKS	CIRC MATERIALS-LIBRARY REPL	10.00
10047414	07/23/2013	Printed		10249	BLUETARP FINANCIAL INC.	SUPPLIES-VARIOUS	85.19
10047416	07/23/2013	Printed		0268	BRODART CO.	CIRCULATION MATERIALS-LIBRARY	662.56
10047418	07/23/2013	Printed		9941	BUSINESSCARD SERVICES	SEE ATTACHED SPREADSHEET	2,142.68
10047419	07/23/2013	Printed		0455	CANON SOLUTIONS AMERICA	COPIES-ADMIN	75.24
10047420	07/23/2013	Printed		9743	CARQUEST AUTO PARTS	SUPPLIES-STREET	2.06
10047421	07/23/2013	Printed		0461	CENTRAL BEVERAGE	NEWSPAPERS-LIBRARY	82.50
10047422	07/23/2013	Printed		0503	CHAMPLAIN OIL COMPANY, INC.	VEHICLE GAS-VARIOUS	3,583.28
10047423	07/23/2013	Printed		0500	CHAMPLAIN WATER DISTRICT	WATER USAGE-WATER	205,637.01
10047424	07/23/2013	Printed		0508	CHAMPLIN ASSOCIATES INC.	HSPS STATION ALARM-SANI	660.00
10047425	07/23/2013	Printed		10505	DAVE A. CRAWFORD	VILLAGE OWNERS REP-WW/SANI	875.00
10047426	07/23/2013	Printed		05898	CRYSTAL ROCK BOTTLED WATER	BOTTLED WATER-STREET	33.75
10047427	07/23/2013	Printed		10559	DEPT OF TREASURY	IRS FORM 720 PCORT FEE-ADMIN	22.00
10047428	07/23/2013	Printed		0636	DESORCIE EMERGENCY PRODUCTS	GS2+5 REPLACEMENT KIT-FIRE	156.47
10047429	07/23/2013	Printed		0644	DUBOIS & KING INC.	CRESC CONN PROJ DESIG-CAP R	34,244.61
10047430	07/23/2013	Printed		9738	EATON ELECTRICAL INC	MAIN UPS BATTERY-WWTF	311.38
10047431	07/23/2013	Printed		0710	ENDYNE, INC.	LAB TESTS-WWTF	664.00
10047432	07/23/2013	Printed		0795	TOWN OF ESSEX	RECORDINGS-PLAN	240.00
10047433	07/23/2013	Printed		10011	FAIR POINT COMMUNICATIONS,INC.	TELE-FIRE	28.58
10047434	07/23/2013	Printed		1935	FERGUSON WATERWORKS #590	VALV REPAIR&SUPPLIES-WATER/STR	5,244.02
10047435	07/23/2013	Printed		10452	FREE PRESS MEDIA	PAVING BID ADS-STREET	120.50
10047436	07/23/2013	Printed		10226	G & K SERVICES	SUPPLIES-STREET	21.35
10047437	07/23/2013	Printed		0899	GAUTHIER TRUCKING CO., INC	TRASH/DIGST CLEAN-LH/ST/WW	4,751.08
10047438	07/23/2013	Printed		0943	MARY L. GRAF	EXPENSES REIMB-LIBRARY	152.88
10047439	07/23/2013	Printed		24511	GRAINGER	UPS BATTERY-WWTF	215.30
10047440	07/23/2013	Printed		10147	GREEN MOUNT. PIPELINE SERV.INC	SEWER WORK-SANI	1,820.00
10047442	07/23/2013	Printed		0965	GREEN MOUNTAIN POWER CORP.	ELECTRICITY- VARIOUS	26,343.20
10047444	07/23/2013	Printed		1035	DONALD L. HAMLIN	ENGINEERING -VARIOUS	32,223.37
10047445	07/23/2013	Printed		1089	HOME DEPOT CREDIT SERVICES	FARMERS MKT SUPPLIES-EC DEV	27.94
10047446	07/23/2013	Printed		1175	INDUSTRIAL SCIENTIFIC CORP	SENSOR& ASSMBLY CASE-WWTF	425.00
10047447	07/23/2013	Printed		9625	INGRAM LIBRARY SERVICES	CIRCULATION MATERIALS-LIBRARY	108.44
10047448	07/23/2013	Printed		11631	INTEGRITY COMMUNICATIONS	PHONE LINE TROUBLESHOOTING-WWT	168.75
10047449	07/23/2013	Printed		2041	S. D. IRELAND CONCRETE	CONCRETE-STREET	595.00
10047451	07/23/2013	Printed		9769	KEMIRA WATER SOLUTIONS	FERRIS CHLORIDE-WWTF	3,880.80
10047452	07/23/2013	Printed		1292	LAMOUREUX, & DICKINSON	ENG-LNCS SIDEWALK-CAP R	204.98
10047453	07/23/2013	Printed		10130	LOWE'S BUSINESS ACCOUNT	AIR COND&SUPPLIES-LH/ST/WW	540.94
10047454	07/23/2013	Printed		13631	LYNN PUBLICATIONS	LEGAL/MTG/GRAD-ADMIN/PLAN	426.25
10047455	07/23/2013	Printed		1000	SUSAN J. MCNAMARA-HILL	MILEAGE REIMB-ADMIN	5.76
10047456	07/23/2013	Printed		01581	BRIDGET MEYER	FARMERS MKT T SHIRTS-EC DEV	374.25
10047457	07/23/2013	Printed		10176	NEOFUNDS BY NEOPOST	POSTAGE METER POSTAGE-AD	600.00
10047458	07/23/2013	Printed		10132	NOCO DISTRIBUTION LLC	HYDRAULIC OIL-WWTF	226.08
10047459	07/23/2013	Printed		1661	NORTH CENTRAL LABORATORIES	PROCESS TEST EQUIPMENT-WWTF	1,350.97

Check Register Report

BL 7/23 FINAL FY 13

Date: 07/18/2013
Time: 3:56 pm
Page: 2

Village of Essex Junction

BANK:

C N er	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
Checks							
10047460	07/23/2013	Printed		1755	P & H SENESAC, INC.	DEWATERING- WWTF	15,012.45
10047461	07/23/2013	Printed		1756	PATTON FACILITY MGMNT DBA	JANITORIAL SERV-LH/LIB	3,052.10
10047462	07/23/2013	Printed		1174	PERMA-LINE CORP OF NEW ENGLAND	ROAD MARKING SUPPLIES-STREET	231.88
10047463	07/23/2013	Printed		1775	PETTY CASH VILLAGE	POSTAGE-ADMIN	4.25
10047464	07/23/2013	Printed		10059	ROBERT PIERCE	MEALS REIMB-PLAN	37.00
10047465	07/23/2013	Printed		1789	PIKE INDUSTRIES, INC.	ASPHALT-WATER	397.98
10047466	07/23/2013	Printed		10235	PRATT & SMITH INC	FLOW METER/LEVEL-WWTF	4,261.05
10047467	07/23/2013	Printed		1843	PROFESSIONAL WRITING SVCS	MEETING MINUTES-ADMIN	290.00
10047468	07/23/2013	Printed		10557	RECYCLE AWAY	FARMER'S MKT RECYCLE BIN-ECDEV	539.16
10047469	07/23/2013	Printed		1955	REYNOLDS & SON, INC.	EQUIPMENT-FIRE	404.30
10047470	07/23/2013	Printed		9245	ROUSE TIRE SALES	SERVICE CALL-FIRE	213.50
10047471	07/23/2013	Printed		2047	SCOTT + PARTNERS	OFFICE CONSTRUC ADMIN -LH	1,854.00
10047472	07/23/2013	Printed		10399	SERVPRO WINOOSKI STOWE	WATER DAMAGE RESTORATION-LIB	3,018.31
10047473	07/23/2013	Printed		20732	THE SHERWIN-WILLIAMS CO.	PAINT-STREET	387.68
10047474	07/23/2013	Printed		0482	SIGNALS RYG, INC.	TRAFFIC/STR LITE WORK-STR/FIRE	785.05
10047475	07/23/2013	Printed		10558	SMALL DOG (WAITSFIELD)	IPAD-ADMIN	698.74
10047476	07/23/2013	Printed		21153	SOVERNET COMMUNICATIONS	WS PS ALARM-SANI	16.62
10047477	07/23/2013	Printed		2124	STAPLES ADVANTAGE	SUPPLIES-VARIOUS	696.70
10047478	07/23/2013	Printed		2134	STEWART CONSTRUCTION, INC.	VILLAGE OFFICE PROJ-LH	31,448.00
10047479	07/23/2013	Printed		0545	THE TECH GROUP	HP DESKTOP/4 GB MEM-LIBRARY	1,425.00
10047480	07/23/2013	Printed		2227	TI-SALES, INC.	METER-SANI/WATER	170.80
1 81	07/23/2013	Printed		23415	VERIZON WIRELESS	CELL PHONES-STREET	74.59
10047482	07/23/2013	Printed		2366	VERMONT GAS SYSTEMS, INC.	NATURAL GAS-VARIOUS	4,295.84
10047483	07/23/2013	Printed		2343	VILLAGE COPY & PRINT	BUS. CARDS-ADMIN	154.00
10047484	07/23/2013	Printed		10238	DAVID M. WECHSLER	NOISE MONITOR-CVE	460.00
10047485	07/23/2013	Printed		2510	FRANK WHITCOMB CONSTRUCTION	SHUR PAC&GRAVEL-STREET	1,460.58
10047486	07/23/2013	Printed		2505	DAVID WHITCOMB	SIDEWALK PLOW MAINT-STREET	122.00
10047487	07/23/2013	Printed		3081	ZEE MEDICAL, INC.	FIRST AID SUPPLIES-WWTF	158.20

Total Checks: 79 **Checks Total (excluding void checks): 466,689.49**

Total Payments: 79 **Bank Total (excluding void checks): 466,689.49**

Total Payments: 79 **Grand Total (excluding void checks): 466,689.49**

CK# 10047418 BL FINAL FY 13 people' united bank --Master card statement 7/05/13 FY 13 $ 2,142.68

FY13 PURCHASES

tran date	MC company	acct	dept	descrip	$$$	
6/6/2013	AJ KITCHEN	100 900 000 724 000	PLAN	BUS LUNCH MTG	$ 25.00	A
6/7/2013	GAN*BURLINGTON FREE PRESS	100 100 000 723 000	ADMIN	NEWSPAPER	$ 22.00	B
6/11/2013	MAC'S	100 100 000 749 000	TRUSTEES	MEETING SUPPLIES	$ 11.37	C1
6/11/2013	MAC'S	100 200 000 723 000	LH	SUPPLIES	$ 7.96	C2
6/17/2013	NOONIE DELI	100 100 000 749 000	TRUSTEES	MTG SUPPLIES	$ 42.27	D
6/21/2013	VZWRLSS	100 700 000 723 000	Street	BROADBAND	$ 15.86	E1
6/21/2013	VZWRLSS	100 000 000 070 000	Street	BROADBAND	$ 4.14	E2
6/25/2013	VZWRLSS	100 100 000 725 000	ADMIN	BROADBAND	$ 15.86	F1
6/25/2013	VZWRLSS	100 000 000 070 000	ADMIN	BROADBAND	$ 4.14	F2
6/25/2013	USPS POSTAL	100 800 000 723 001	LIBRARY	STAMPS	$ 185.75	G
6/25/2013	TATTOOS TM	100 910 000 745 040	EC DEV RR AVE RECESS	HISTORY HIKE TATTOOS	$ 186.09	H
6/25/2013	MAC'S	100 100 000 749 000	TRUSTEES	MEETING SUPPLIES	$ 8.66	I 1
6/25/2013	MAC'S	100 200 000 723 000	LH	SUPPLIES	$ 5.27	I 2
6/26/2013	BEST BUY	100 100 000 723 000	ADMIN	IPAD KEYBOARD/STYLUS	$ 103.62	J1
6/26/2013	BEST BUY	100 900 000 723 000	PLAN	IPAD KEYBOARD/STYLUS	$ 86.35	J2
6/26/2013	DOMINO'S	100 300 000 724 000	FIRE	MTG SUPPLIES	$ 38.35	K
6/26/2013	DINO'S	100 900 000 724 000	PLAN	MTG SUPPLIES	$ 60.00	L
6/27/2013	VENMILL INDUSTRIES	100 800 000 723 000	LIBRARY	SUPPLY	$ 69.99	M
6/28/2013	SAMMEL SIGNS	100 910 000 745 040	EC DEV RR AVE RECESS	ESSEX HISTORY HIKE BANNERS	$ 1,250.00	N
				ck # 10047418	TOTAL	$ 2,142.68

Check Register Report

BL 7/23 1ST FY 14

Date: 07/19/2013
Time: 11:29 am
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Village of Essex Junction

BANK:

Check Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
Checks							
10047488	07/18/2013	Printed		9924	SHEARER CHEVROLET	CHEVROLET SILVERADO-ROLL STK	27,409.00
10047489	07/23/2013	Printed		00382	AMAZON.COM CREDIT	CIRCULATION MATERIALS-LIBR	316.30
10047490	07/23/2013	Printed		9429	AQUARIUS LANDSCAPE INC.	SPRINKLER MAINT-STREET/LH	160.27
10047491	07/23/2013	Printed		9847	AUTOZONE, INC	SUPPLY-FIRE	6.99
10047492	07/23/2013	Printed		10408	BAY STATE ELEVATOR COMPANY	SERVICE MAINT-LIBR	245.45
10047493	07/23/2013	Printed		9963	BENOURE PLUMBING & HEATING INC	PLUMBING MAINT-LIBRARY	191.50
10047494	07/23/2013	Printed		1655	BLUE CROSS BLUE SHIELD OF VT	INS PREM TVHP-VARIOUS	9,385.56
10047495	07/23/2013	Printed		1655	BLUE CROSS BLUE SHIELD OF VT	INS PREM COMP HSA-VARIOUS	15,047.40
10047496	07/23/2013	Printed		0268	BRODART CO.	CIRCULATION MATER-LIBRARY	1,029.89
10047497	07/23/2013	Printed		0305	BURLINGTON FREE PRESS	NEWSPAPERS-LIBRARY	22.00
10047498	07/23/2013	Printed		0315	BURLINGTON TOOL REPAIR	REPAIR SAWZALL-STREET	42.70
10047499	07/23/2013	Printed		9941	BUSINESSCARD SERVICES	SEE ATTACHED SPREADSHEET	121.32
10047500	07/23/2013	Printed		9743	CARQUEST AUTO PARTS	SUPPLIES-STREET	101.06
10047501	07/23/2013	Printed		10283	CATAMOUNT WEB SOLUTIONS,LLC	3 MONTH WEB HOSTING-ADMIN	407.50
10047502	07/23/2013	Printed		0523	CCRPC	ANNUAL DUES FY14-EC DEV	6,185.00
10047503	07/23/2013	Printed		0490	CENTRAL VERMONT PROPERTIES	ROW LEASE-SANIT	130.00
10047504	07/23/2013	Printed		05070	CHARLEBOIS TRUCK PARTS INC.	TRUCK STARTER-STREET	270.95
10047505	07/23/2013	Printed		10207	CHOICE CARE CARD	MONTHY FEE-VARIOUS	207.00
10047506	07/23/2013	Printed		9788	COMCAST	CABLE-FIRE	13.50
1[illegible]07	07/23/2013	Printed		10560	JAY COOK	LIBRARY PERFORMANCES-LIBRARY	130.00
10047508	07/23/2013	Printed		10401	DE LAGE LANDEN FINANCIAL INC	COPIER LEASE-ADMIN	249.52
10047509	07/23/2013	Printed		0780	ESSEX EQUIPMENT SALES	SMALL EQUIP&UNIFORMS-STREET	111.91
10047510	07/23/2013	Printed		9885	ESSEX RESCUE, INC.	ANNUAL DONATION-EC DEV	1,500.00
10047511	07/23/2013	Printed		0795	TOWN OF ESSEX	MGR CONTRACT FEE-ADMIN	4,486.73
10047512	07/23/2013	Printed		1935	FERGUSON WATERWORKS #590	SUPPLIES-WATER/STREET	221.13
10047513	07/23/2013	Printed		0751	FISHER AUTO PARTS	SUPPLIES-STREET	117.35
10047514	07/23/2013	Printed		10561	ELIZABETH FOX	POETRY PROGRAM-LIBRARY	100.00
10047515	07/23/2013	Printed		0943	MARY L. GRAF	PROGRAM SUPPLIES REIMB-LIBRARY	9.87
10047516	07/23/2013	Printed		09502	GRAYBAR COMPANY INC.	LIGHTS & ELEC TAPE-STREET	384.34
10047517	07/23/2013	Printed		9958	GREEN MTN LIBRARY CONSORTIUM	VOKAL MEMBERSHIP-LIBRARY	2,344.92
10047518	07/23/2013	Printed		1031	HANNAFORD BROTHERS CO.	SUPPLIES-WWTF	31.45
10047519	07/23/2013	Printed		0018	A. H. HARRIS & SONS, INC.	WATERPLUG PARTS-STREET	186.00
10047520	07/23/2013	Printed		1110	HYDRON INCORPORATED	CVE VALVE REPAIR-WATER	1,167.68
10047521	07/23/2013	Printed		11631	INTEGRITY COMMUNICATIONS	NETWORK WIRING-LH	1,024.49
10047522	07/23/2013	Printed		23656	INVEST EAP	Q1 SERVICES-FIRE	216.00
10047523	07/23/2013	Printed		2041	S. D. IRELAND CONCRETE	CONCRETE PRODUCTS-ST	729.20
10047524	07/23/2013	Printed		1208	RICK JONES	EXPENSE REIMB-STREET	12.99
10047525	07/23/2013	Printed		9454	LENNY'S SHOE & APP	UNIFORMS -SANI/WWTF	290.00
10047526	07/23/2013	Printed		10130	LOWE'S BUSINESS ACCOUNT	SUPPLIES-LH	14.20
10047527	07/23/2013	Printed		1460	MAPLEHURST FLORIST	ARRANGEMENT-ADMIN	51.89
10047528	07/23/2013	Printed		1415	MCLURE MOVING & STORAGE	OFFICE MOVES-LH	688.75
10047529	07/23/2013	Printed		1000	SUSAN J. MCNAMARA-HILL	MEALS/MILEAGE REIMB-ADMIN	32.59
10047530	07/23/2013	Printed		1491	MERCHANTS BANK	FIRE TRUCK LOAN PYMNT-ROLL STK	53,266.03
10[illegible]31	07/23/2013	Printed		1507	MICROFLEX	LAB GLOVES-WWTF	234.80
10[illegible]32	07/23/2013	Printed		1516	MILTON RENTAL & SALES INC	MOWER PARTS-STREET	115.45
10047533	07/23/2013	Printed		1636	NEW ENGLAND MUNICIPAL	3 WAY MANIFOLD-VARIOUS	132.94
10047534	07/23/2013	Printed		10132	NOCO DISTRIBUTION LLC	OIL-FIRE	234.31
10047535	07/23/2013	Printed		1755	P & H SENESAC, INC.	DEWATERING-WWTF	6,405.75
10047536	07/23/2013	Printed		1789	PIKE INDUSTRIES, INC.	ASPHALT-STREET	393.45
10047537	07/23/2013	Printed		9972	KATHERINE REDNISS	SUPPLIES REIMB-LIBRARY	20.21

Check Register Report

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Date: 07/19/2013
Time: 11:29 am
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Village of Essex Junction

BANK:

Check Number	Check Date	Status	Void/Stop Date	Vendor Number	Vendor Name	Check Description	Amount
Checks							
10047538	07/23/2013	Printed		1955	REYNOLDS & SON, INC.	UNIFORM-FIRE	44.00
10047539	07/23/2013	Printed		21153	SOVERNET COMMUNICATIONS	PH/INTERNET-VARIOUS	590.57
10047540	07/23/2013	Printed		2124	STAPLES ADVANTAGE	OFFICE SUPPLIES-ADM/LH/PLAN	763.91
10047541	07/23/2013	Printed		0545	THE TECH GROUP	MANAGED SVCS-ADMIN	682.00
10047542	07/23/2013	Printed		2227	TI-SALES, INC.	WATER METRS &SUPPLIES-WAT/SANI	6,137.44
10047543	07/23/2013	Printed		10481	TRUMBULL-NELSON CONST. CO.	WWTF REFURB CONSTR-WWTF	1,407,621.13
10047544	07/23/2013	Printed		10562	UNIVERSAL LICENSING SERVICE	FCC LICENSE SUPPORT-FIRE	95.00
10047545	07/23/2013	Printed		9727	UNUM LIFE INSURANCE CO OF AMER	INS PREMIUM-VARIOUS DEPTS	766.00
10047546	07/23/2013	Printed		2366	VERMONT GAS SYSTEMS, INC.	SW PS GENERATOR-SANI	35.36
10047547	07/23/2013	Printed		23545	VERMONT PET & SUPPLY	KITTY LITTER ABSORBANT-FIRE	287.60
10047548	07/23/2013	Printed		2380	VLCT PACIF, INC.	INS PREM-VARIOUS	67,521.00
10047549	07/23/2013	Printed		9856	SANDY WILLEY	CURRIER PLANTER &PLANTS-STREET	79.80
10047550	07/23/2013	Printed		25261	MATTHEW WITTEN	TEDDY BEAR PICNIC PERF-LIBRARY	500.00
10047551	07/23/2013	Printed		3081	ZEE MEDICAL, INC.	MED CABINET SUPPLIES-STREET	114.05

Total Checks: 64 **Checks Total (excluding void checks): 1,621,435.20**

Total Payments: 64 **Bank Total (excluding void checks): 1,621,435.20**

Total Payments: 64 **Grand Total (excluding void checks): 1,621,435.20**

CK# 10047 499 BL 7/23 1ST FY 14 people' united bank --Master card statement 7/05/13 FY 14 $ 121.32

FY13 PURCHASES

tran date	MC company	acct	dept	descrip	$$$	
7/2/2013	VZWRLSS	100 100 000 725 000	ADMIN	BROADBAND	$ 20.00	O
7/2/2013	VERMONT GOV SERV	100 800 000 735 000	LIBRARY	BACKGROUND CHECK	$ 30.00	
7/2/2013	VERMONT GOV SERV	100 800 000 735 000	LIBRARY	BACKGROUND CHECK	$ 30.00	
7/2/2013	THE WEB RESTAURANT STORE	100 800 000 723 000	LIBRARY	VINYL LETTERS	$ 41.32	
				ck # 10047499	TOTAL	$ 121.32

Village of Essex Junction
The economic engine of Vermont.

MEMORANDUM

To: Village of Essex Junction Trustees; Pat Scheidel, Village Manager
From: Lauren Morrisseau, Finance Director/Assistant Manager LM
Date: July 23, 2013
Re: Preliminary Final Revenue/Expenditure Report

Issue
Financial results of FY13 budget year.

Discussion
Attached is the Revenue/Expenditure report produced after processing the final bill list of FY13. Please note that this is a preliminary report. There are quite a few accruals, adjustments and reconciliations that are not completed yet. However, as you can see, in the General Fund, the Admin, Street, Planning and Economic Development budgets have surpluses while the Lincoln Hall and Fire Department budgets are over spent.

Cost
This is informational only and there is no cost.

Recommendation
The audited financials will contain the final results of FY13. They will be available in October following the annual audit.

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 100 - GENERAL FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
401.000 PROPERTY TAXES-CURRENT	2,666,989.00	2,666,989.00	2,667,251.72	-0.14	0.00	-262.72	100.0
402.000 STATE FOR VT PILOT & CURRENT U	2,000.00	2,000.00	4,078.63	0.00	0.00	-2,078.63	203.9
403.000 PENALTIES/INTEREST DELINQ. TAX	7,000.00	7,000.00	10,854.87	283.79	0.00	-3,854.87	155.1
404.000 IBM SUBSIDY	60,578.00	60,578.00	60,578.00	0.00	0.00	0.00	100.0
410.000 LICENSE AND ZONING FEE	30,000.00	30,000.00	60,198.70	2,065.00	0.00	-30,198.70	200.7
411.010 SERVICE FEE - WATER	110,169.00	110,169.00	110,169.00	27,542.25	0.00	0.00	100.0
411.020 SERVICE FEE - WWTP	55,085.00	55,085.00	55,085.00	13,771.25	0.00	0.00	100.0
411.030 SERVICE FEE - SANITATION	110,169.00	110,169.00	110,169.00	27,542.25	0.00	0.00	100.0
420.010 STATE DISTRICT COURT FINES	2,000.00	2,000.00	3,708.50	212.50	0.00	-1,708.50	185.4
420.020 STATE HIGHWAY AID	100,000.00	100,000.00	113,128.23	0.00	0.00	-13,128.23	113.1
420.030 EJSD TAX COLLECTION FEES	47,000.00	47,000.00	47,955.95	0.00	0.00	-955.95	102.0
432.015 PARKING SPACE FEES	4,800.00	4,800.00	4,400.00	400.00	0.00	400.00	91.7
432.020 LINCOLN HALL RENTALS	0.00	0.00	1.00	1.00	0.00	-1.00	0.0
432.030 MISCELLANEOUS FIRE RECEIPTS	0.00	0.00	1,231.28	0.00	0.00	-1,231.28	0.0
432.051 BLOCK PARTY CONTRIBUTIONS	1,500.00	1,500.00	1,550.00	50.00	0.00	-50.00	103.3
432.070 MISCELLANEOUS STREET RECEIPTS	3,000.00	3,000.00	2,609.60	120.00	0.00	390.40	87.0
432.080 MISCELLANEOUS LIBRARY RECEIPTS	450.00	450.00	708.20	100.00	0.00	-258.20	157.4
434.010 ESSEX TOWN CONTRIB. TO LIBRARY	15,000.00	15,000.00	15,000.00	15,000.00	0.00	0.00	100.0
440.000 INTEREST EARNINGS	1,000.00	1,000.00	1,644.24	119.45	0.00	-644.24	164.4
445.000 MISC. - UNCLASSIFIED RECEIPTS	4,600.00	4,600.00	2,342.86	4.51	0.00	2,257.14	50.9
Revenue	3,221,340.00	3,221,340.00	3,272,664.78	87,211.86	0.00	-51,324.78	101.6
Acct Class: 4900 GRANTS & DONATIONS							
432.032 DONATIONS FOR FORUM	0.00	0.00	1,922.75	0.00	0.00	-1,922.75	0.0
432.033 OTHER DONATIONS	0.00	0.00	5,807.75	0.00	0.00	-5,807.75	0.0
432.034 VLCT EQUIP GRANT	0.00	0.00	1,843.87	0.00	0.00	-1,843.87	0.0
[illegible]1 BROWNELL LIBRARY GRANTS	0.00	0.00	3,365.20	1,502.20	0.00	-3,365.20	0.0
[illegible]33 DONATIONS TO LIBRARY	0.00	0.00	7,129.44	0.00	0.00	-7,129.44	0.0
441.000 MISCELLANEOUS STATE GRANTS	0.00	0.00	8,408.29	0.00	0.00	-8,408.29	0.0
441.012 HOMELND SG 02140-79152-542	0.00	0.00	16,609.00	0.00	0.00	-16,609.00	0.0
441.028 MISC GRANTS	0.00	0.00	215.66	215.66	0.00	-215.66	0.0
441.032 HOMELND SG 02140-70164V-126	0.00	0.00	8,517.00	0.00	0.00	-8,517.00	0.0
GRANTS & DONATIONS	0.00	0.00	53,818.96	1,717.86	0.00	-53,818.96	0.0
Acct Class: 5990 Non Operating Revenues							
410.150 Adult Replacement Receipts	0.00	0.00	2,129.40	239.40	0.00	-2,129.40	0.0
410.151 Juvenile Replacment Receipts	0.00	0.00	1,725.94	198.00	0.00	-1,725.94	0.0
445.100 SALE OF ASSET	0.00	0.00	500.00	0.00	0.00	-500.00	0.0
Non Operating Revenues	0.00	0.00	4,355.34	437.40	0.00	-4,355.34	0.0
Dept: 000.000	3,221,340.00	3,221,340.00	3,330,839.08	89,367.12	0.00	-109,499.08	103.4
Revenues	3,221,340.00	3,221,340.00	3,330,839.08	89,367.12	0.00	-109,499.08	103.4
Expenditures							
Dept: 100.000 ADMINISTRATION							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	334,477.00	334,477.00	315,527.35	19,517.31	0.00	18,949.65	94.3
720.010 SALARIES OVERTIME	1,000.00	1,000.00	1,365.26	71.74	0.00	-365.26	136.5
720.020 SALARIES PART TIME	7,250.00	7,250.00	13,125.58	849.85	0.00	-5,875.58	181.0
720.022 SOCIAL SECURITY	26,923.00	26,923.00	25,612.50	1,646.55	0.00	1,310.50	95.1
720.024 UNEMPLOYMENT INSURANCE	1,186.00	1,186.00	962.01	-75.33	0.00	223.99	81.1
720.026 WORKERS COMP INSURANCE	1,166.00	1,166.00	1,209.99	-304.00	0.00	-43.99	103.8
720.028 HEALTH INS & OTHER BENEFITS	66,340.00	66,340.00	59,435.74	908.64	0.00	6,904.26	89.6
[illegible]0 RETIREMENT	38,506.00	38,506.00	38,877.02	1,848.48	0.00	-371.02	101.0
720.032 LIABILITY & PROPERTY INS.	5,857.00	5,857.00	5,720.35	0.00	0.00	136.65	97.7
720.034 PUBLIC OFFICIALS LIABILITY INS	6,075.00	6,075.00	5,981.25	0.00	0.00	93.75	98.5
720.035 HEALTH IMPROV PROGRAMS	1,600.00	1,600.00	1,694.55	1,298.70	0.00	-94.55	105.9
720.050 BOARD MEMBER FEES	2,500.00	2,500.00	2,500.00	625.00	0.00	0.00	100.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 100 - GENERAL FUND							
[illegible]ditures							
Dept: 100.000 ADMINISTRATION							
Acct Class: 7000 Operating Expenses							
723.000 SUPPLIES	6,700.00	6,700.00	4,624.39	354.06	0.00	2,075.61	69.0
723.001 POSTAGE	4,600.00	4,600.00	3,985.78	-238.57	0.00	614.22	86.6
723.055 COMPUTER EXPENSES	16,915.00	16,915.00	19,305.33	2,750.00	0.00	-2,390.33	114.1
724.000 TRAINING, CONFERENCES, DUES	13,304.00	13,304.00	6,602.42	360.80	0.00	6,701.58	49.6
725.000 TELEPHONE SERVICES	4,392.00	4,392.00	2,621.44	169.57	0.00	1,770.56	59.7
725.025 COMMUNICATIONS	13,700.00	13,700.00	12,202.83	608.37	0.00	1,497.17	89.1
728.030 VEHICLE MAINTENANCE-TRAVEL	3,600.00	3,600.00	900.00	0.00	0.00	2,700.00	25.0
728.035 VILLAGE PROMOTION	1,000.00	1,000.00	267.77	0.00	0.00	732.23	26.8
735.000 INTERVIEW COSTS	0.00	0.00	155.00	0.00	0.00	-155.00	0.0
745.020 LEASED SERVICES	4,540.00	4,540.00	4,297.96	-136.90	0.00	242.04	94.7
745.031 LEGAL SERVICES	15,000.00	15,000.00	14,026.50	528.00	0.00	973.50	93.5
745.039 OTHER PROFESSIONAL SERVICES	2,000.00	2,000.00	0.00	0.00	0.00	2,000.00	0.0
745.041 AUDIT	5,275.00	5,275.00	5,351.50	0.00	0.00	-76.50	101.5
745.050 PRINTING AND ADVERTISING	5,800.00	5,800.00	4,776.67	308.25	0.00	1,023.33	82.4
745.055 PAY & CLASSIFICATION STUDY	200.00	200.00	0.00	0.00	0.00	200.00	0.0
745.057 ELECTIONS	2,200.00	2,200.00	1,578.50	0.00	0.00	621.50	71.8
747.000 HOLIDAY EXPENSE	1,280.00	1,280.00	1,134.78	0.00	0.00	145.22	88.7
749.000 TRUSTEES EXPENDITURES	4,000.00	4,000.00	5,471.57	62.30	0.00	-1,471.57	136.8
755.023 CAPITAL OUTLAY	3,000.00	0.00	4,916.66	4,916.66	0.00	-4,916.66	0.0
Operating Expenses	600,386.00	597,386.00	564,230.70	36,069.48	0.00	33,155.30	94.4
ADMINISTRATION	600,386.00	597,386.00	564,230.70	36,069.48	0.00	33,155.30	94.4
Dept: 175.000 MISC TRANSFERS & EXPENDITUES							
Acct Class: 7000 Operating Expenses							
750.021 ROLLING STOCK FUND CONTRIB	163,624.00	163,624.00	163,624.00	40,906.00	0.00	0.00	100.0
[illegible]2 CAP RESRV FND CONT - BEG 1993	372,788.00	372,788.00	372,788.00	93,197.00	0.00	0.00	100.0
[illegible]26 EMP TERM BENEFITS TRANSFER	10,000.00	10,000.00	10,000.00	2,500.00	0.00	0.00	100.0
750.027 HALF PENNY FOR LDR TRUCK NOTE	50,000.00	50,000.00	50,000.00	12,500.00	0.00	0.00	100.0
Operating Expenses	596,412.00	596,412.00	596,412.00	149,103.00	0.00	0.00	100.0
MISC TRANSFERS & EXPENDITUES	596,412.00	596,412.00	596,412.00	149,103.00	0.00	0.00	100.0
Dept: 200.000 LINCOLN HALL							
Acct Class: 7000 Operating Expenses							
720.032 LIABILITY & PROPERTY INS.	5,510.00	5,510.00	4,468.72	0.00	0.00	1,041.28	81.1
723.000 SUPPLIES	1,800.00	1,800.00	2,475.29	327.22	0.00	-675.29	137.5
723.065 WATER AND SEWER CHARGE	1,000.00	1,000.00	1,786.19	0.00	0.00	-786.19	178.6
725.000 TELEPHONE SERVICES	480.00	480.00	496.34	40.77	0.00	-16.34	103.4
726.000 ELECTRICAL SERVICE	6,510.00	6,510.00	7,161.49	1,208.78	0.00	-651.49	110.0
727.000 HEATING	7,000.00	7,000.00	5,460.76	117.73	0.00	1,539.24	78.0
728.000 MAINT. BUILDINGS/GROUNDS	6,500.00	6,500.00	7,559.13	577.00	0.00	-1,059.13	116.3
745.005 RUBBISH REMOVAL	1,750.00	1,750.00	1,785.00	289.00	0.00	-35.00	102.0
745.014 CONTRACT SERVICES	7,503.00	7,503.00	8,086.93	1,936.61	0.00	-583.93	107.8
755.023 CAPITAL OUTLAY	0.00	0.00	11,754.00	11,754.00	0.00	-11,754.00	0.0
Operating Expenses	38,053.00	38,053.00	51,033.85	16,251.11	0.00	-12,980.85	134.1
LINCOLN HALL	38,053.00	38,053.00	51,033.85	16,251.11	0.00	-12,980.85	134.1
Dept: 300.000 FIRE DEPARTMENT							
Acct Class: 7000 Operating Expenses							
720.021 SALARIES - FIREFIGHTERS	126,000.00	126,000.00	126,296.76	8,656.26	0.00	-296.76	100.2
720.022 SOCIAL SECURITY	9,639.00	9,639.00	9,661.69	662.21	0.00	-22.69	100.2
720.026 WORKERS COMP INSURANCE	12,000.00	12,000.00	24,033.50	12,796.73	0.00	-12,033.50	200.3
7[illegible]9 ACCIDENT & DISABILITY INS.	3,600.00	3,600.00	3,600.00	300.00	0.00	0.00	100.0
[illegible]2 LIABILITY & PROPERTY INS.	8,600.00	8,600.00	7,326.10	0.00	0.00	1,273.90	85.2
723.000 SUPPLIES	2,400.00	2,400.00	1,636.67	231.06	0.00	763.33	68.2
723.016 EMS SUPPLIES	1,800.00	1,800.00	1,060.54	0.00	0.00	739.46	58.9
723.020 GAS,GREASE AND OIL	5,400.00	5,400.00	7,112.07	754.07	0.00	-1,712.07	131.7

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 100 - GENERAL FUND							
Expenditures							
Dept: 300.000 FIRE DEPARTMENT							
Acct Class: 7000 Operating Expenses							
723.065 WATER AND SEWER CHARGE	900.00	900.00	678.10	0.00	0.00	221.90	75.3
724.000 TRAINING, CONFERENCES, DUES	5,000.00	5,000.00	2,899.67	98.35	0.00	2,100.33	58.0
725.000 TELEPHONE SERVICES	4,000.00	4,000.00	3,429.28	135.73	0.00	570.72	85.7
726.000 ELECTRICAL SERVICE	6,600.00	6,600.00	6,282.98	0.00	0.00	317.02	95.2
727.000 HEATING	6,000.00	6,000.00	4,794.70	62.10	0.00	1,205.30	79.9
728.000 MAINT. BUILDINGS/GROUNDS	5,000.00	5,000.00	829.02	0.00	0.00	4,170.98	16.6
728.010 RADIO MAINTENANCE	2,000.00	2,000.00	6,295.25	0.00	0.00	-4,295.25	314.8
728.020 MAINTENANCE OTHER	10,000.00	10,000.00	12,795.49	0.00	0.00	-2,795.49	128.0
728.030 VEHICLE MAINTENANCE-TRAVEL	10,000.00	10,000.00	21,256.56	525.58	0.00	-11,256.56	212.6
728.038 EMERGENCY GENERATOR MAINT	750.00	750.00	375.02	0.00	0.00	374.98	50.0
729.000 UNIFORMS,BOOTS,ETC	18,000.00	18,000.00	16,078.78	0.00	0.00	1,921.22	89.3
729.052 FIRE PREVENTION	1,800.00	1,800.00	1,652.49	0.00	0.00	147.51	91.8
743.051 PHYSICAL EXAMS	6,000.00	6,000.00	4,197.00	0.00	0.00	1,803.00	70.0
743.058 EMPLOYEE ASSISTANCE PROGRAM	900.00	900.00	864.00	0.00	0.00	36.00	96.0
745.013 HYDRANT RENTALS	5,000.00	5,000.00	5,000.00	1,250.00	0.00	0.00	100.0
755.022 NEW EQUIPMENT-RADIOS	4,300.00	4,300.00	0.00	0.00	0.00	4,300.00	0.0
755.025 ROUTINE EQUIPMENT PURCHASES	14,500.00	14,500.00	10,817.15	0.00	0.00	3,682.85	74.6
Operating Expenses	270,189.00	270,189.00	278,972.82	25,472.09	0.00	-8,783.82	103.3
FIRE DEPARTMENT	270,189.00	270,189.00	278,972.82	25,472.09	0.00	-8,783.82	103.3
Dept: 700.000 STREET DEPARTMENT							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	190,875.00	186,875.00	163,023.40	12,686.00	0.00	23,851.60	87.2
720.010 SALARIES OVERTIME	15,000.00	15,000.00	14,383.30	1,178.22	0.00	616.70	95.9
720.020 SALARIES PART TIME	17,018.00	17,018.00	17,367.06	2,060.18	0.00	-349.06	102.1
720.022 SOCIAL SECURITY	17,249.00	17,249.00	14,353.02	1,183.10	0.00	2,895.98	83.2
720.024 UNEMPLOYMENT INSURANCE	1,086.00	1,086.00	864.78	-17.03	0.00	221.22	79.6
720.026 WORKERS COMP INSURANCE	11,628.00	11,628.00	9,798.43	-1,878.53	0.00	1,829.57	84.3
720.028 HEALTH INS & OTHER BENEFITS	77,761.00	77,761.00	63,337.39	646.65	0.00	14,423.61	81.5
720.030 RETIREMENT	19,088.00	19,088.00	16,241.48	1,295.29	0.00	2,846.52	85.1
720.032 LIABILITY & PROPERTY INS.	14,100.00	14,100.00	12,056.88	0.00	0.00	2,043.12	85.5
723.000 SUPPLIES	21,100.00	16,100.00	10,128.47	430.94	0.00	5,971.53	62.9
723.010 WINTER MAINTENANCE	75,000.00	75,000.00	84,636.40	64.13	0.00	-9,636.40	112.8
723.012 PAVEMENT MAINTENANCE	15,000.00	15,000.00	14,804.05	1,136.10	0.00	195.95	98.7
723.014 GRAVEL,TOPSOIL	4,500.00	4,500.00	5,829.65	1,620.51	0.00	-1,329.65	129.5
723.015 SIGNS AND POSTS	5,500.00	5,500.00	2,668.30	0.00	0.00	2,831.70	48.5
723.020 GAS,GREASE AND OIL	20,000.00	20,000.00	31,765.57	1,856.73	0.00	-11,765.57	158.8
723.065 WATER AND SEWER CHARGE	1,500.00	1,500.00	873.47	0.00	0.00	626.53	58.2
724.000 TRAINING, CONFERENCES, DUES	500.00	500.00	249.70	0.00	0.00	250.30	49.9
725.000 TELEPHONE SERVICES	1,800.00	1,800.00	1,725.14	73.36	0.00	74.86	95.8
726.000 ELECTRICAL SERVICE	4,900.00	4,900.00	3,605.87	240.89	0.00	1,294.13	73.6
726.035 STREET LIGHTS	131,840.00	131,840.00	120,917.72	17,382.36	0.00	10,922.28	91.7
726.037 TRAFFIC LIGHTS	5,700.00	5,700.00	5,973.30	499.19	0.00	-273.30	104.8
727.000 HEATING	4,000.00	4,000.00	3,169.83	40.21	0.00	830.17	79.2
728.000 MAINT. BUILDINGS/GROUNDS	2,500.00	2,500.00	3,596.31	1.42	0.00	-1,096.31	143.9
728.010 RADIO MAINTENANCE	200.00	200.00	65.00	0.00	0.00	135.00	32.5
728.020 MAINTENANCE OTHER	1,000.00	1,000.00	1,545.01	202.34	0.00	-545.01	154.5
728.030 VEHICLE MAINTENANCE-TRAVEL	32,000.00	32,000.00	17,715.96	306.14	0.00	14,284.04	55.4
728.033 STREETSCAPE MAINT./IMP	7,500.00	7,500.00	3,677.60	0.00	0.00	3,822.40	49.0
728.036 VILLAGE GARDEN SPOTS	2,500.00	2,500.00	2,343.01	43.98	0.00	156.99	93.7
728.037 TRAFFIC/STREET LIGHT MAINT.	6,500.00	6,500.00	8,997.66	1,027.61	0.00	-2,497.66	138.4
728.041 MEMORIAL PARK	3,000.00	3,000.00	2,714.46	0.00	0.00	285.54	90.5
728.043 STREET MARKINGS	5,000.00	5,000.00	8,204.69	476.93	0.00	-3,204.69	164.1
729.000 UNIFORMS,BOOTS,ETC	4,500.00	4,500.00	2,544.27	63.08	0.00	1,955.73	56.5
740.015 RUBBISH REMOVAL	6,200.00	6,200.00	5,290.44	916.24	0.00	909.56	85.3
745.014 CONTRACT SERVICES	10,000.00	10,000.00	10,726.00	0.00	0.00	-726.00	107.3
745.030 EQUIPMENT RENTALS	3,800.00	3,800.00	3,693.20	0.00	0.00	106.80	97.2
745.044 ENGINEERING SERVICES	15,000.00	15,000.00	32,281.96	15,172.01	0.00	-17,281.96	215.2
755.011 TRAFFIC CALMING	1,000.00	1,000.00	231.88	231.88	0.00	768.12	23.2

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 100 - GENERAL FUND							
ditures							
Dept: 700.000 STREET DEPARTMENT							
Acct Class: 7000 Operating Expenses							
755.023 CAPITAL OUTLAY	2,000.00	2,000.00	1,735.00	0.00	0.00	265.00	86.8
760.032 SIDEWALK AND CURB MAINTENANCE	3,000.00	3,000.00	5,134.62	514.00	0.00	-2,134.62	171.2
760.033 STORM SEWER MAINTENANCE	8,500.00	8,500.00	18,842.15	2,665.00	0.00	-10,342.15	221.7
760.034 STORM SEWER PERMIT FEES	3,000.00	3,000.00	4,697.00	-120.00	0.00	-1,697.00	156.6
760.035 STORM SEWER PUBLIC EDUCATION	10,000.00	10,000.00	7,312.70	0.00	0.00	2,687.30	73.1
Operating Expenses	782,345.00	773,345.00	739,122.13	61,998.93	0.00	34,222.87	95.6
STREET DEPARTMENT	782,345.00	773,345.00	739,122.13	61,998.93	0.00	34,222.87	95.6
Dept: 800.000 BROWNELL LIBRARY							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	292,359.00	292,359.00	292,497.42	22,666.11	0.00	-138.42	100.0
720.020 SALARIES PART TIME	88,282.00	88,282.00	85,886.81	7,320.78	0.00	2,395.19	97.3
720.022 SOCIAL SECURITY	29,551.00	29,551.00	28,766.42	2,333.59	0.00	784.58	97.3
720.024 UNEMPLOYMENT INSURANCE	2,384.00	2,384.00	2,234.58	-90.46	0.00	149.42	93.7
720.026 WORKERS COMP INSURANCE	1,285.00	1,285.00	1,389.46	-139.41	0.00	-104.46	108.1
720.028 HEALTH INS & OTHER BENEFITS	55,586.00	55,586.00	49,092.78	931.54	0.00	6,493.22	88.3
720.030 RETIREMENT	29,236.00	29,236.00	29,074.88	2,264.96	0.00	161.12	99.4
720.032 LIABILITY & PROPERTY INS.	10,269.00	10,269.00	9,389.69	0.00	0.00	879.31	91.4
723.000 SUPPLIES	13,500.00	13,500.00	13,273.94	2,547.64	0.00	226.06	98.3
723.001 POSTAGE	2,500.00	2,500.00	3,452.15	1,051.52	0.00	-952.15	138.1
723.055 COMPUTER EXPENSES	3,500.00	3,500.00	3,640.88	140.99	0.00	-140.88	104.0
723.065 WATER AND SEWER CHARGE	525.00	525.00	684.90	0.00	0.00	-159.90	130.5
724.000 TRAINING, CONFERENCES, DUES	2,000.00	2,000.00	3,361.97	215.83	0.00	-1,361.97	168.1
725.000 TELEPHONE SERVICES	2,000.00	2,000.00	1,091.67	88.01	0.00	908.33	54.6
725.030 TECHNOLOGY ACCESS	5,810.00	5,810.00	5,059.46	69.45	0.00	750.54	87.1
0 ELECTRICAL SERVICE	14,850.00	14,850.00	13,680.30	1,404.20	0.00	1,169.70	92.1
727.000 HEATING	7,500.00	7,500.00	7,316.45	120.46	0.00	183.55	97.6
728.000 MAINT. BUILDINGS/GROUNDS	13,000.00	13,000.00	14,258.52	720.74	0.00	-1,258.52	109.7
728.050 ALARM SYSTEM MAINTENANCE	800.00	800.00	292.07	0.00	0.00	507.93	36.5
735.000 INTERVIEW COSTS	300.00	300.00	249.00	0.00	0.00	51.00	83.0
745.014 CONTRACT SERVICES	22,548.00	22,548.00	22,468.80	3,938.22	0.00	79.20	99.6
745.021 ADULT PROGRAMS	300.00	300.00	322.49	0.00	0.00	-22.49	107.5
745.022 CHILDRENS PROGRAMS	3,000.00	3,000.00	3,060.54	816.30	0.00	-60.54	102.0
755.014 COMPUTER REPLACEMENT	8,000.00	5,200.00	5,196.48	1,425.00	0.00	3.52	99.9
755.020 ADULT COLLECTION-PRINT & ELECT	31,000.00	31,000.00	32,705.67	2,228.46	0.00	-1,705.67	105.5
755.021 JUVEN COLLECTION-PRNT & ELECTR	15,500.00	15,500.00	16,395.92	1,404.49	0.00	-895.92	105.8
Operating Expenses	655,585.00	652,785.00	644,843.25	51,458.42	0.00	7,941.75	98.8
BROWNELL LIBRARY	655,585.00	652,785.00	644,843.25	51,458.42	0.00	7,941.75	98.8
Dept: 900.000 PLANNING AND ZONING DEPT.							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	119,296.00	119,296.00	124,328.01	9,783.20	0.00	-5,032.01	104.2
720.010 SALARIES OVERTIME	2,000.00	2,000.00	217.55	0.00	0.00	1,782.45	10.9
720.022 SOCIAL SECURITY	9,560.00	9,560.00	9,703.31	815.56	0.00	-143.31	101.5
720.024 UNEMPLOYMENT INSURANCE	435.00	435.00	399.15	-36.05	0.00	35.85	91.8
720.026 WORKERS COMP INSURANCE	399.00	399.00	439.54	-1,317.30	0.00	-40.54	110.2
720.028 HEALTH INS & OTHER BENEFITS	40,972.00	40,972.00	25,170.45	-140.16	0.00	15,801.55	61.4
720.030 RETIREMENT	11,930.00	11,930.00	11,976.84	932.32	0.00	-46.84	100.4
720.032 LIABILITY & PROPERTY INS.	2,038.00	2,038.00	2,005.65	0.00	0.00	32.35	98.4
720.034 PUBLIC OFFICIALS LIABILITY INS	6,075.00	6,075.00	5,981.25	0.00	0.00	93.75	98.5
720.050 BOARD MEMBER FEES	3,600.00	3,600.00	3,525.00	825.00	0.00	75.00	97.9
723.000 SUPPLIES	2,000.00	2,000.00	1,340.26	178.09	0.00	659.74	67.0
723.001 POSTAGE	1,000.00	1,000.00	437.80	202.18	0.00	562.20	43.8
5 COMPUTER EXPENSES	4,705.00	4,705.00	1,994.95	0.00	0.00	2,710.05	42.4
724.000 TRAINING, CONFERENCES, DUES	5,450.00	5,450.00	2,394.68	85.00	0.00	3,055.32	43.9
725.000 TELEPHONE SERVICES	1,392.00	1,392.00	1,532.33	46.48	0.00	-140.33	110.1
725.025 COMMUNICATIONS	2,000.00	2,000.00	1,020.00	60.00	0.00	980.00	51.0
728.030 VEHICLE MAINTENANCE-TRAVEL	3,000.00	3,000.00	2,300.00	200.00	0.00	700.00	76.7

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 100 - GENERAL FUND							
Expenditures							
Dept: 900.000 PLANNING AND ZONING DEPT.							
Acct Class: 7000 Operating Expenses							
745.031 LEGAL SERVICES	9,500.00	9,500.00	2,261.00	264.00	0.00	7,239.00	23.8
745.039 OTHER PROFESSIONAL SERVICES	10,000.00	10,000.00	1,968.26	1,674.76	0.00	8,031.74	19.7
745.050 PRINTING AND ADVERTISING	5,000.00	5,000.00	2,045.07	280.14	0.00	2,954.93	40.9
745.051 RECORDING FEES	2,500.00	2,500.00	1,900.00	530.00	0.00	600.00	76.0
755.023 CAPITAL OUTLAY	1,500.00	0.00	0.00	0.00	0.00	0.00	0.0
Operating Expenses	244,352.00	242,852.00	202,941.10	14,383.22	0.00	39,910.90	83.6
PLANNING AND ZONING DEPT.	244,352.00	242,852.00	202,941.10	14,383.22	0.00	39,910.90	83.6
Dept: 910.000 ECONOMIC DEVELOPMENT							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	0.00	32,573.00	28,654.00	2,446.00	0.00	3,919.00	88.0
720.010 SALARIES OVERTIME	0.00	0.00	70.20	0.00	0.00	-70.20	0.0
720.020 SALARIES PART TIME	23,400.00	0.00	3,553.00	0.00	0.00	-3,553.00	0.0
720.022 SOCIAL SECURITY	1,790.00	2,491.00	2,630.59	206.66	0.00	-139.59	105.6
720.024 UNEMPLOYMENT INSURANCE	217.00	250.00	247.30	-2.06	0.00	2.70	98.9
720.026 WORKERS COMP INSURANCE	111.00	120.00	108.03	-28.19	0.00	11.97	90.0
720.028 HEALTH INS & OTHER BENEFITS	0.00	3,127.00	2,858.39	205.32	0.00	268.61	91.4
720.030 RETIREMENT	0.00	3,257.00	2,995.20	249.60	0.00	261.80	92.0
745.025 BLOCK PARTY EXPENSE	7,000.00	7,000.00	7,057.05	118.87	0.00	-57.05	100.8
745.040 COMMUNITY EVENTS & PROGRAMS	7,000.00	7,000.00	8,155.11	2,623.78	0.00	-1,155.11	116.5
745.054 ANNUAL SUPPORT OF ORGNIZATIONS	8,000.00	8,000.00	7,443.00	0.00	0.00	557.00	93.0
745.056 COMMUNITY FORUM	7,500.00	7,500.00	7,500.00	0.00	0.00	0.00	100.0
748.000 NEW PROGRAMS	2,000.00	2,000.00	1,091.43	0.00	0.00	908.57	54.6
748.010 MATCHING GRANT FUNDS	10,000.00	10,000.00	2,273.24	285.74	0.00	7,726.76	22.7
Operating Expenses	67,018.00	83,318.00	74,636.54	6,105.72	0.00	8,681.46	89.6
ECONOMIC DEVELOPMENT	67,018.00	83,318.00	74,636.54	6,105.72	0.00	8,681.46	89.6
Dept: 920.000 GRANT & OTH UNANTC. EXPENDITUR							
Acct Class: 7000 Operating Expenses							
750.011 TAX ABATEMENT	0.00	0.00	2,140.50	0.00	0.00	-2,140.50	0.0
755.020 ADULT COLLECTION-PRINT & ELECT	0.00	0.00	2,699.25	62.57	0.00	-2,699.25	0.0
755.021 JUVEN COLLECTION-PRNT & ELECTR	0.00	0.00	1,318.01	52.17	0.00	-1,318.01	0.0
759.010 Library Grant Expenditures	0.00	0.00	1,563.00	0.00	0.00	-1,563.00	0.0
759.011 LIBRARY DONATION EXPENDITURES	0.00	0.00	5,963.49	927.81	0.00	-5,963.49	0.0
759.013 WB LEARNED GRANT EXPENSES	0.00	0.00	374.20	74.20	0.00	-374.20	0.0
759.023 DONATED MEMORIAL BENCHES	0.00	0.00	4,003.00	0.00	0.00	-4,003.00	0.0
759.024 EXPEND OTHER DONATIONS	0.00	0.00	215.66	215.66	0.00	-215.66	0.0
759.030 FIRE DEPT GRANT EXPENDITURE	0.00	0.00	13,051.50	0.00	0.00	-13,051.50	0.0
759.070 STREET DEPT GRANT EXPENDITURES	0.00	0.00	14,347.74	285.74	0.00	-14,347.74	0.0
759.089 Building Healthy Comm Expenses	0.00	0.00	6,085.07	0.00	0.00	-6,085.07	0.0
759.090 FY 12 DESIGNATED EXPENSE	0.00	0.00	21,533.00	7,424.64	0.00	-21,533.00	0.0
759.091 TERMINATION BENEFITS	0.00	0.00	36,000.00	0.00	0.00	-36,000.00	0.0
Operating Expenses	0.00	0.00	109,294.42	9,042.79	0.00	-109,294.42	0.0
GRANT & OTH UNANTC. EXPENDITUR	0.00	0.00	109,294.42	9,042.79	0.00	-109,294.42	0.0
Expenditures	3,254,340.00	3,254,340.00	3,261,486.81	369,884.76	0.00	-7,146.81	100.2
Net Effect for GENERAL FUND	-33,000.00	-33,000.00	69,352.27	-280,517.64	0.00	-102,352.27	-210.2
Change in Fund Balance:			69,352.27				
Fund: 152 - GEN FUND ROLLING STOCK RESERVE							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	558.38	47.19	0.00	-558.38	0.0
465.054 PROCEEDS OF LONG TERM DEBT	0.00	0.00	250,000.00	0.00	0.00	-250,000.00	0.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 152 - GEN FUND ROLLING STOCK RESERVE							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
599.000 CONTRIB FROM GENERAL FUND	0.00	0.00	213,624.00	53,406.00	0.00	-213,624.00	0.0
Revenue	0.00	0.00	464,182.38	53,453.19	0.00	-464,182.38	0.0
Acct Class: 4900 GRANTS & DONATIONS							
432.095 FROM TOWN FOR LADDER TRUCK	0.00	0.00	100,000.00	0.00	0.00	-100,000.00	0.0
GRANTS & DONATIONS	0.00	0.00	100,000.00	0.00	0.00	-100,000.00	0.0
Acct Class: 5990 Non Operating Revenues							
445.103 SALE OF 1991 PIERCE LADDER	0.00	0.00	80,000.00	0.00	0.00	-80,000.00	0.0
Non Operating Revenues	0.00	0.00	80,000.00	0.00	0.00	-80,000.00	0.0
Dept: 000.000	0.00	0.00	644,182.38	53,453.19	0.00	-644,182.38	0.0
Revenues	0.00	0.00	644,182.38	53,453.19	0.00	-644,182.38	0.0
Expenditures							
Dept: 000.000							
Acct Class: 7000 Operating Expenses							
710.030 FIRE TRUCK LOAN PRINCIPAL	0.00	0.00	22,000.00	22,000.00	0.00	-22,000.00	0.0
720.040 INTEREST EXPENSE	0.00	0.00	440.00	440.00	0.00	-440.00	0.0
745.050 PRINTING AND ADVERTISING	0.00	0.00	300.00	0.00	0.00	-300.00	0.0
Operating Expenses	0.00	0.00	22,740.00	22,440.00	0.00	-22,740.00	0.0
Acct Class: 8000 Capital Projects							
750.719 FIRE LADDER TRUCK (13)	0.00	0.00	829,736.06	0.00	0.00	-829,736.06	0.0
750.720 DIESEL DUMP TRUCK (13)	0.00	0.00	129,072.91	0.00	0.00	-129,072.91	0.0
750.721 SWEEPER (13)	0.00	0.00	104.50	0.00	0.00	-104.50	0.0
Capital Projects	0.00	0.00	958,913.47	0.00	0.00	-958,913.47	0.0
Dept: 000.000	0.00	0.00	981,653.47	22,440.00	0.00	-981,653.47	0.0
Expenditures	0.00	0.00	981,653.47	22,440.00	0.00	-981,653.47	0.0
Net Effect for GEN FUND ROLLING STOCK RESERVE	0.00	0.00	-337,471.09	31,013.19	0.00	337,471.09	0.0
Change in Fund Balance:			-337,471.09				
Fund: 159 - Veterans Memorial Park							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	9.86	0.89	0.00	-9.86	0.0
441.016 Memorial Park Picture Revenue	0.00	0.00	630.00	330.00	0.00	-630.00	0.0
Revenue	0.00	0.00	639.86	330.89	0.00	-639.86	0.0
Dept: 000.000	0.00	0.00	639.86	330.89	0.00	-639.86	0.0
Revenues	0.00	0.00	639.86	330.89	0.00	-639.86	0.0
Net Effect for Veterans Memorial Park	0.00	0.00	639.86	330.89	0.00	-639.86	0.0
Change in Fund Balance:			639.86				
Fund: 200 - GEN FUND CAPITAL RESERVE FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	638.55	76.69	0.00	-638.55	0.0
441.026 PEARL GRNT CA0247 STP 5300 (12	0.00	0.00	7,534.60	0.00	0.00	-7,534.60	0.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 200 - GEN FUND CAPITAL RESERVE FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
441.033 LNCS SDWLK GRNT CA0313INVI	0.00	0.00	33,544.66	0.00	0.00	-33,544.66	0.0
441.034 CRES CNCTR GRANT STP 5300(13)	0.00	0.00	124,208.74	0.00	0.00	-124,208.74	0.0
599.000 CONTRIB FROM GENERAL FUND	0.00	0.00	372,788.00	93,197.00	0.00	-372,788.00	0.0
Revenue	0.00	0.00	538,714.55	93,273.69	0.00	-538,714.55	0.0
Acct Class: 4320 MISCELLANEOUS DEPT. REVENUES							
432.100 CVE CONTRIB FOR ECONOMIC DEV P	0.00	0.00	15,000.00	15,000.00	0.00	-15,000.00	0.0
MISCELLANEOUS DEPT. REVENUES	0.00	0.00	15,000.00	15,000.00	0.00	-15,000.00	0.0
Acct Class: 4900 GRANTS & DONATIONS							
432.094 HANDY DONATION TO LNCST SDWALK	0.00	0.00	12,000.00	0.00	0.00	-12,000.00	0.0
GRANTS & DONATIONS	0.00	0.00	12,000.00	0.00	0.00	-12,000.00	0.0
Dept: 000.000	0.00	0.00	565,714.55	108,273.69	0.00	-565,714.55	0.0
Revenues	0.00	0.00	565,714.55	108,273.69	0.00	-565,714.55	0.0
Expenditures							
Dept: 000.000							
Acct Class: 8000 Capital Projects							
750.155 MULTI-USE PATH NORTH	0.00	0.00	8,189.01	153.00	0.00	-8,189.01	0.0
750.166 ALGONQUIN RDWY RECONST.(12)	0.00	0.00	98,168.46	0.00	0.00	-98,168.46	0.0
750.169 CRESCENT CONNECTOR	0.00	0.00	187,042.12	45,048.48	0.00	-187,042.12	0.0
750.170 TECH UPGRD (12) SERVER (13)	0.00	0.00	14,825.36	14,825.36	0.00	-14,825.36	0.0
750.171 LINCOLN ST. SDWLK EXTENSION	0.00	0.00	45,566.91	6,857.48	0.00	-45,566.91	0.0
750.172 BY WAY SIGN	0.00	0.00	7,612.31	0.00	0.00	-7,612.31	0.0
750.173 CONFERENCE ROOM IMPROVEMENTS	0.00	0.00	16,050.89	0.00	0.00	-16,050.89	0.0
750.174 FENCE-MAIN ST. BIKE PATH	0.00	0.00	8,304.00	0.00	0.00	-8,304.00	0.0
750.700 CAPITAL RES. PAVING	0.00	0.00	96,015.62	-0.02	0.00	-96,015.62	0.0
Capital Projects	0.00	0.00	481,774.68	66,884.30	0.00	-481,774.68	0.0
Dept: 000.000	0.00	0.00	481,774.68	66,884.30	0.00	-481,774.68	0.0
Expenditures	0.00	0.00	481,774.68	66,884.30	0.00	-481,774.68	0.0
Net Effect for GEN FUND CAPITAL RESERVE FUND	0.00	0.00	83,939.87	41,389.39	0.00	-83,939.87	0.0
Change in Fund Balance:			83,939.87				
Fund: 210 - LAND ACQUISTION FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	200.34	17.18	0.00	-200.34	0.0
Revenue	0.00	0.00	200.34	17.18	0.00	-200.34	0.0
Dept: 000.000	0.00	0.00	200.34	17.18	0.00	-200.34	0.0
Revenues	0.00	0.00	200.34	17.18	0.00	-200.34	0.0
Net Effect for LAND ACQUISTION FUND	0.00	0.00	200.34	17.18	0.00	-200.34	0.0
Change in Fund Balance:			200.34				
Fund: 230 - WATER FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	104.15	29.35	0.00	-104.15	0.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 230 - WATER FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
445.000 MISC. - UNCLASSIFIED RECEIPTS	0.00	0.00	365.49	-0.01	0.00	-365.49	0.0
465.010 SALE OF WATER-RESIDENTIAL	761,109.00	761,109.00	781,651.93	-458.97	0.00	-20,542.93	102.7
465.020 WATER SALES - LARGE USERS	73,628.00	73,628.00	70,067.04	7,627.88	0.00	3,560.96	95.2
465.030 RENTAL OF HYDRANTS	5,000.00	5,000.00	5,000.00	1,250.00	0.00	0.00	100.0
465.040 WATER BILLING PENALTIES	3,500.00	3,500.00	4,129.18	1,811.38	0.00	-629.18	118.0
465.045 WATER RECONNECT FEES	0.00	0.00	75.00	0.00	0.00	-75.00	0.0
465.050 MISCELLANEOUS WATER RECEIPTS	15,000.00	15,000.00	18,581.00	550.00	0.00	-3,581.00	123.9
Revenue	858,237.00	858,237.00	879,973.79	10,809.63	0.00	-21,736.79	102.5
Acct Class: 4650 IBM Water Pass Thru Rev							
465.015 SALE OF WATER-IBM	2,081,376.00	2,081,376.00	1,891,810.42	205,952.87	0.00	189,565.58	90.9
465.017 SALE OF WATER - IBM VT TAX	41,931.00	41,931.00	46,605.21	5,073.70	0.00	-4,674.21	111.1
IBM Water Pass Thru Rev	2,123,307.00	2,123,307.00	1,938,415.63	211,026.57	0.00	184,891.37	91.3
Acct Class: 5990 Non Operating Revenues							
440.010 Interest Earned - Capital Res	0.00	0.00	102.03	2.17	0.00	-102.03	0.0
465.055 CURRENT YR CONTRIBUTION INCOME	0.00	0.00	100,000.00	25,000.00	0.00	-100,000.00	0.0
Non Operating Revenues	0.00	0.00	100,102.03	25,002.17	0.00	-100,102.03	0.0
Dept: 000.000	2,981,544.00	2,981,544.00	2,918,491.45	246,838.37	0.00	63,052.55	97.9
Revenues	2,981,544.00	2,981,544.00	2,918,491.45	246,838.37	0.00	63,052.55	97.9
Expenditures							
Dept: 650.000 WATER DEPARTMENT							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	94,843.00	94,843.00	95,194.09	7,234.99	0.00	-351.09	100.4
720.010 SALARIES OVERTIME	13,843.00	13,843.00	13,090.27	1,604.12	0.00	752.73	94.6
720.020 SALARIES PART TIME	6,311.00	6,311.00	4,391.72	239.73	0.00	1,919.28	69.6
720.022 SOCIAL SECURITY	8,843.00	8,843.00	8,398.78	673.73	0.00	444.22	95.0
720.024 UNEMPLOYMENT INSURANCE	564.00	564.00	481.80	-39.10	0.00	82.20	85.4
720.026 WORKERS COMP INSURANCE	4,243.00	4,243.00	4,667.36	-721.24	0.00	-424.36	110.0
720.028 HEALTH INS & OTHER BENEFITS	41,332.00	41,332.00	33,804.55	496.71	0.00	7,527.45	81.8
720.030 RETIREMENT	9,484.00	9,484.00	9,368.64	729.42	0.00	115.36	98.8
720.032 LIABILITY & PROPERTY INS.	2,748.00	2,748.00	2,549.32	0.00	0.00	198.68	92.8
720.040 INTEREST EXPENSE	100.00	100.00	48.57	0.00	0.00	51.43	48.6
723.000 SUPPLIES	6,000.00	6,000.00	2,091.98	88.42	0.00	3,908.02	34.9
723.001 POSTAGE	750.00	750.00	824.32	68.18	0.00	-74.32	109.9
723.020 GAS,GREASE AND OIL	2,800.00	2,800.00	1,776.47	273.94	0.00	1,023.53	63.4
723.041 METERS AND PARTS	3,960.00	3,960.00	41.86	0.00	0.00	3,918.14	1.1
723.042 DISTRIBUTION MATERIALS	8,000.00	8,000.00	889.82	0.00	0.00	7,110.18	11.1
723.055 COMPUTER EXPENSES	600.00	600.00	1,198.33	0.00	0.00	-598.33	199.7
723.065 WATER AND SEWER CHARGE	300.00	300.00	203.44	0.00	0.00	96.56	67.8
724.000 TRAINING, CONFERENCES, DUES	2,000.00	2,000.00	925.70	0.00	0.00	1,074.30	46.3
726.000 ELECTRICAL SERVICE	650.00	650.00	630.49	52.93	0.00	19.51	97.0
727.000 HEATING	3,500.00	3,500.00	2,894.54	104.26	0.00	605.46	82.7
728.020 MAINTENANCE OTHER	1,500.00	1,500.00	1,107.41	3.00	0.00	392.59	73.8
728.034 WATER LINES MAINT-BREAKS	16,000.00	16,000.00	13,897.71	8,145.51	0.00	2,102.29	86.9
729.000 UNIFORMS,BOOTS,ETC	1,000.00	1,000.00	1,113.33	0.00	0.00	-113.33	111.3
745.014 CONTRACT SERVICES	110,169.00	110,169.00	110,169.00	27,542.25	0.00	0.00	100.0
745.039 OTHER PROFESSIONAL SERVICES	1,500.00	1,500.00	704.00	0.00	0.00	796.00	46.9
745.041 AUDIT	3,151.00	3,151.00	3,197.00	0.00	0.00	-46.00	101.5
745.042 CWD WATER PURCHASE	403,909.00	403,909.00	406,954.87	30,301.61	0.00	-3,045.87	100.8
745.050 PRINTING AND ADVERTISING	2,000.00	2,000.00	1,509.22	1,314.29	0.00	490.78	75.5
7[illegible] TRANS TO CAPITAL RESERVE	100,000.00	100,000.00	100,000.00	25,000.00	0.00	0.00	100.0
770.510 STATE WATER TAX	8,137.00	8,137.00	10,025.48	746.49	0.00	-1,888.48	123.2
Operating Expenses	858,237.00	858,237.00	832,150.07	103,859.24	0.00	26,086.93	97.0
Acct Class: 7800 IBM Water Costs							

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 230 - WATER FUND							
Expenditures							
Dept: 650.000 WATER DEPARTMENT							
Acct Class: 7800 IBM Water Costs							
745.043 CWD Water Purchase - IBM	2,081,376.00	2,081,376.00	2,062,201.70	170,391.28	0.00	19,174.30	99.1
770.511 State Water Tax - IBM	41,931.00	41,931.00	50,802.84	4,197.63	0.00	-8,871.84	121.2
IBM Water Costs	2,123,307.00	2,123,307.00	2,113,004.54	174,588.91	0.00	10,302.46	99.5
Acct Class: 8000 Capital Projects							
750.159 ALGONQUIN WATER LOOP EXT	0.00	0.00	41,460.46	0.00	0.00	-41,460.46	0.0
750.207 WATER PICKUP TRUCK	0.00	0.00	35,409.24	0.00	0.00	-35,409.24	0.0
750.211 METER REPLACEMENT PROGRAM	0.00	0.00	14,273.48	0.00	0.00	-14,273.48	0.0
750.213 BACKHOE REPLACEMENT	0.00	0.00	73,865.00	0.00	0.00	-73,865.00	0.0
750.426 UTILITY RATE STUDY	0.00	0.00	7,209.19	675.67	0.00	-7,209.19	0.0
Capital Projects	0.00	0.00	172,217.37	675.67	0.00	-172,217.37	0.0
WATER DEPARTMENT	2,981,544.00	2,981,544.00	3,117,371.98	279,123.82	0.00	-135,827.98	104.6
Expenditures	2,981,544.00	2,981,544.00	3,117,371.98	279,123.82	0.00	-135,827.98	104.6
Net Effect for WATER FUND	0.00	0.00	-198,880.53	-32,285.45	0.00	198,880.53	0.0
Change in Fund Balance:			-198,880.53				
Fund: 400 - SANITATION FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
432.040 MISCELLANEOUS SEWER RECEIPTS	20,000.00	20,000.00	107,000.00	1,000.00	0.00	-87,000.00	535.0
440.000 INTEREST EARNINGS	0.00	0.00	197.19	39.25	0.00	-197.19	0.0
[illegible]0 ESSEX PUMP STATION FEES	25,075.00	25,075.00	13,185.17	0.00	0.00	11,889.83	52.6
[illegible]0 2 PARY AGREEMNT REV	15,000.00	15,000.00	11,250.00	0.00	0.00	3,750.00	75.0
445.000 MISC. - UNCLASSIFIED RECEIPTS	0.00	0.00	731.00	0.00	0.00	-731.00	0.0
500.000 ANNUAL CUSTOMER CHARGE	383,846.00	383,846.00	457,862.42	-414.34	0.00	-74,016.42	119.3
500.001 ANNUAL CUSTOMER CHARGE - PEN	1,800.00	1,800.00	2,350.67	1,120.18	0.00	-550.67	130.6
Revenue	445,721.00	445,721.00	592,576.45	1,745.09	0.00	-146,855.45	132.9
Acct Class: 5990 Non Operating Revenues							
430.012 WWTF CAPACITY SALE REVENUE	0.00	0.00	100,000.00	0.00	0.00	-100,000.00	0.0
430.017 CSWD FOR CONCRETE TANKS	0.00	0.00	3,500.00	0.00	0.00	-3,500.00	0.0
440.010 Interest Earned - Capital Res	0.00	0.00	716.83	88.26	0.00	-716.83	0.0
440.020 INTEREST WWTF RESERV	0.00	0.00	648.98	54.60	0.00	-648.98	0.0
465.055 CURRENT YR CONTRIBUTION INCOME	0.00	0.00	75,000.00	18,750.00	0.00	-75,000.00	0.0
Non Operating Revenues	0.00	0.00	179,865.81	18,892.86	0.00	-179,865.81	0.0
Dept: 000.000	445,721.00	445,721.00	772,442.26	20,637.95	0.00	-326,721.26	173.3
Revenues	445,721.00	445,721.00	772,442.26	20,637.95	0.00	-326,721.26	173.3
Expenditures							
Dept: 400.000 SANITATION DEPARTMENT							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	89,579.00	89,579.00	79,094.72	6,461.84	0.00	10,484.28	88.3
720.010 SALARIES OVERTIME	14,100.00	14,100.00	7,833.99	436.12	0.00	6,266.01	55.6
720.020 SALARIES PART TIME	9,461.00	9,461.00	5,154.70	239.72	0.00	4,306.30	54.5
720.022 SOCIAL SECURITY	8,701.00	8,701.00	6,817.97	527.57	0.00	1,883.03	78.4
720.024 UNEMPLOYMENT INSURANCE	564.00	564.00	539.99	-8.61	0.00	24.01	95.7
720.026 WORKERS COMP INSURANCE	4,047.00	4,047.00	3,827.82	389.58	0.00	219.18	94.6
7[illegible] HEALTH INS & OTHER BENEFITS	25,235.00	25,235.00	32,271.80	360.39	0.00	-7,036.80	127.9
720.030 RETIREMENT	8,958.00	8,958.00	8,284.49	675.73	0.00	673.51	92.5
720.032 LIABILITY & PROPERTY INS.	6,091.00	6,091.00	5,255.39	0.00	0.00	835.61	86.3
723.000 SUPPLIES	500.00	500.00	435.17	0.00	0.00	64.83	87.0
723.001 POSTAGE	1,500.00	1,500.00	1,632.56	136.37	0.00	-132.56	108.8

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 400 - SANITATION FUND							
Expenditures							
Dept: 400.000 SANITATION DEPARTMENT							
Acct Class: 7000 Operating Expenses							
723.020 GAS,GREASE AND OIL	3,000.00	3,000.00	2,817.31	368.90	0.00	182.69	93.9
723.041 METERS AND PARTS	8,040.00	8,040.00	0.00	0.00	0.00	8,040.00	0.0
723.055 COMPUTER EXPENSES	1,000.00	1,000.00	2,396.67	0.00	0.00	-1,396.67	239.7
723.065 WATER AND SEWER CHARGE	1,000.00	1,000.00	76.00	0.00	0.00	924.00	7.6
724.000 TRAINING, CONFERENCES, DUES	500.00	500.00	0.00	0.00	0.00	500.00	0.0
726.000 ELECTRICAL SERVICE	8,200.00	8,200.00	8,976.59	2,308.50	0.00	-776.59	109.5
727.000 HEATING	0.00	0.00	1,715.21	136.26	0.00	-1,715.21	0.0
728.020 MAINTENANCE OTHER	1,500.00	1,500.00	403.63	36.00	0.00	1,096.37	26.9
728.040 PUMP STATION MAINTENANCE	5,500.00	5,500.00	3,222.58	0.00	0.00	2,277.42	58.6
728.060 SANITATION LINES MAINTENANCE	5,000.00	5,000.00	6,710.13	1,820.00	0.00	-1,710.13	134.2
728.063 SUSIE WILSON PS COSTS	8,000.00	8,000.00	5,765.03	517.90	0.00	2,234.97	72.1
728.064 WEST ST PS COSTS	13,500.00	13,500.00	8,110.01	741.24	0.00	5,389.99	60.1
729.000 UNIFORMS,BOOTS,ETC	1,000.00	1,000.00	584.04	0.00	0.00	415.96	58.4
745.014 CONTRACT SERVICES	134,969.00	134,969.00	134,969.00	33,742.25	0.00	0.00	100.0
745.015 RIGHT OF WAY AGREEMENTS	8,200.00	8,200.00	9,085.20	0.00	0.00	-885.20	110.8
745.017 SANIT. LINE BACK-UP CLEANING	0.00	0.00	1,654.00	654.00	0.00	-1,654.00	0.0
745.039 OTHER PROFESSIONAL SERVICES	1,000.00	1,000.00	178.85	79.85	0.00	821.15	17.9
745.041 AUDIT	1,576.00	1,576.00	1,598.50	0.00	0.00	-22.50	101.4
750.020 TRANS TO CAPITAL RESERVE	75,000.00	75,000.00	75,000.00	18,750.00	0.00	0.00	100.0
Operating Expenses	445,721.00	445,721.00	414,411.35	68,373.61	0.00	31,309.65	93.0
Acct Class: 8000 Capital Projects							
750.211 METER REPLACEMENT PROGRAM	0.00	0.00	28,546.95	0.00	0.00	-28,546.95	0.0
750.422 HS PUMP STATION UPGRADE	0.00	0.00	794,738.60	31,503.27	0.00	-794,738.60	0.0
750.425 INFILTRATION & INFLOW STUDY	0.00	0.00	2,711.75	2,494.25	0.00	-2,711.75	0.0
750.426 UTILITY RATE STUDY	0.00	0.00	7,209.16	675.67	0.00	-7,209.16	0.0
7 7 ARRA Loan-AR1-004 Admin Fee	0.00	0.00	4,665.67	0.00	0.00	-4,665.67	0.0
75 . 52 TRANS TO WWTF FOR DEBT PYMNTS	0.00	0.00	40,061.93	0.00	0.00	-40,061.93	0.0
Capital Projects	0.00	0.00	877,934.06	34,673.19	0.00	-877,934.06	0.0
SANITATION DEPARTMENT	445,721.00	445,721.00	1,292,345.41	103,046.80	0.00	-846,624.41	289.9
Expenditures	445,721.00	445,721.00	1,292,345.41	103,046.80	0.00	-846,624.41	289.9
Net Effect for SANITATION FUND	0.00	0.00	-519,903.15	-82,408.85	0.00	519,903.15	0.0
Change in Fund Balance:			-519,903.15				
Fund: 600 - WASTEWATER FUND							
Revenues							
Dept: 000.000							
Acct Class: 4000 Revenue							
440.000 INTEREST EARNINGS	0.00	0.00	47.24	26.31	0.00	-47.24	0.0
445.000 MISC. - UNCLASSIFIED RECEIPTS	0.00	0.00	604.60	0.00	0.00	-604.60	0.0
460.011 VILLAGE USER PENALTIES	2,800.00	2,800.00	3,401.66	1,621.16	0.00	-601.66	121.5
460.012 VILLAGE USER CHARGE	636,542.00	636,542.00	662,769.32	-286.25	0.00	-26,227.32	104.1
460.013 WASTEWATER CHARGE - ESSEX	406,156.00	406,156.00	406,155.96	33,846.33	0.00	0.04	100.0
460.014 WASTEWATER CHARGE - WILLISTON	536,126.00	536,126.00	491,448.76	44,677.16	0.00	44,677.24	91.7
460.016 PUMP STATION MAINT. FEE	24,800.00	24,800.00	24,800.00	6,200.00	0.00	0.00	100.0
460.025 VILL. SEPTAGE DISCHARGE INCOME	25,000.00	25,000.00	54,240.84	2,678.89	0.00	-29,240.84	217.0
460.026 SHARED SEPTAGE REVENUES	14,000.00	14,000.00	0.00	0.00	0.00	14,000.00	0.0
460.027 VILLAGE LEACHATE REVENUES	18,000.00	18,000.00	34,478.01	2,931.27	0.00	-16,478.01	191.5
460.028 SHARED LEACHATE REVENUES	10,125.00	10,125.00	0.00	0.00	0.00	10,125.00	0.0
460.033 VLCT EQUIP GRANT	0.00	0.00	350.22	350.22	0.00	-350.22	0.0
Revenue	1,673,549.00	1,673,549.00	1,678,296.61	92,045.09	0.00	-4,747.61	100.3
Acct Class: 5990 Non Operating Revenues							
430.013 ESSEX - DEBT PAYMENT	0.00	0.00	36,713.34	0.00	0.00	-36,713.34	0.0
430.014 WILLISTON - DEBT PAYMENT	0.00	0.00	33,375.76	0.00	0.00	-33,375.76	0.0
430.015 ESSEX JCT - DEBT PAYMENT	0.00	0.00	40,061.93	0.00	0.00	-40,061.93	0.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 600 - WASTEWATER FUND							
Revenues							
Dept: 000.000							
Acct Class: 5990 Non Operating Revenues							
440.010 Interest Earned - Capital Res	0.00	0.00	719.51	52.65	0.00	-719.51	0.0
440.012 WWTF REFURB INTEREST	0.00	0.00	2,861.63	233.03	0.00	-2,861.63	0.0
441.013 HOMELND SG 02140-79152-542 ENT	0.00	0.00	6,184.00	0.00	0.00	-6,184.00	0.0
465.055 CURRENT YR CONTRIBUTION INCOME	0.00	0.00	150,000.00	37,500.00	0.00	-150,000.00	0.0
Non Operating Revenues	0.00	0.00	269,916.17	37,785.68	0.00	-269,916.17	0.0
Dept: 000.000	1,673,549.00	1,673,549.00	1,948,212.78	129,830.77	0.00	-274,663.78	116.4
Revenues	1,673,549.00	1,673,549.00	1,948,212.78	129,830.77	0.00	-274,663.78	116.4
Expenditures							
Dept: 600.000 WASTEWATER TREATMENT PLANT							
Acct Class: 7000 Operating Expenses							
720.000 SALARIES REGULAR	281,639.00	281,639.00	268,730.90	20,696.02	0.00	12,908.10	95.4
720.010 SALARIES OVERTIME	29,187.00	29,187.00	38,454.03	2,615.93	0.00	-9,267.03	131.8
720.020 SALARIES PART TIME	30,000.00	30,000.00	9,905.16	479.64	0.00	20,094.84	33.0
720.022 SOCIAL SECURITY	26,203.00	26,203.00	23,493.97	1,778.75	0.00	2,709.03	89.7
720.024 UNEMPLOYMENT INSURANCE	1,364.00	1,364.00	1,116.39	-88.55	0.00	247.61	81.8
720.026 WORKERS COMP INSURANCE	12,350.00	12,350.00	11,597.38	4,403.80	0.00	752.62	93.9
720.028 HEALTH INS & OTHER BENEFITS	129,319.00	129,319.00	99,285.55	936.13	0.00	30,033.45	76.8
720.030 RETIREMENT	28,164.00	28,164.00	25,940.61	2,084.44	0.00	2,223.39	92.1
720.032 LIABILITY & PROPERTY INS.	22,174.00	22,174.00	18,933.89	0.00	0.00	3,240.11	85.4
720.040 INTEREST EXPENSE	300.00	300.00	160.19	0.00	0.00	139.81	53.4
723.000 SUPPLIES	15,000.00	15,000.00	19,718.24	2,086.54	0.00	-4,718.24	131.5
723.013 CHEMICALS	185,000.00	185,000.00	176,091.37	7,613.50	0.00	8,908.63	95.2
7[illegible]0 GAS,GREASE AND OIL	6,000.00	6,000.00	5,207.07	602.23	0.00	792.93	86.8
7[illegible]5 WATER AND SEWER CHARGE	4,000.00	4,000.00	3,187.09	0.00	0.00	812.91	79.7
724.000 TRAINING, CONFERENCES, DUES	5,000.00	5,000.00	4,454.55	253.97	0.00	545.45	89.1
725.000 TELEPHONE SERVICES	4,300.00	4,300.00	3,688.57	199.61	0.00	611.43	85.8
726.000 ELECTRICAL SERVICE	144,129.00	144,129.00	178,425.74	16,619.92	0.00	-34,296.74	123.8
727.000 HEATING	6,000.00	6,000.00	10,201.86	3,677.77	0.00	-4,201.86	170.0
728.020 MAINTENANCE OTHER	76,000.00	76,000.00	61,277.34	5,330.87	0.00	14,722.66	80.6
728.030 VEHICLE MAINTENANCE-TRAVEL	3,500.00	3,500.00	1,128.01	503.00	0.00	2,371.99	32.2
729.000 UNIFORMS,BOOTS,ETC	3,500.00	3,500.00	2,916.08	299.00	0.00	583.92	83.3
745.000 CONTRACT LABORATORY SERVICE	8,000.00	8,000.00	4,965.00	689.00	0.00	3,035.00	62.1
745.014 CONTRACT SERVICES	55,085.00	55,085.00	55,085.00	13,771.25	0.00	0.00	100.0
745.031 LEGAL SERVICES	2,000.00	2,000.00	1,006.50	66.00	0.00	993.50	50.3
745.033 GRIT DISPOSAL	7,000.00	7,000.00	9,075.34	2,255.91	0.00	-2,075.34	129.6
745.034 SLUDGE DEWATERING	179,000.00	179,000.00	170,646.74	15,012.45	0.00	8,353.26	95.3
745.035 SLUDGE MANAGEMENT	170,400.00	170,400.00	97,284.79	42,565.61	0.00	73,115.21	57.1
745.039 OTHER PROFESSIONAL SERVICES	5,000.00	5,000.00	264.00	0.00	0.00	4,736.00	5.3
745.041 AUDIT	3,685.00	3,685.00	3,753.00	0.00	0.00	-68.00	101.8
745.052 WWTF ANNUAL PERMIT FEE	7,000.00	7,000.00	5,129.25	0.00	0.00	1,870.75	73.3
750.020 TRANS TO CAPITAL RESERVE	150,000.00	150,000.00	150,000.00	37,500.00	0.00	0.00	100.0
755.013 LOAN PAYMENT	53,250.00	53,250.00	53,259.03	0.00	0.00	-9.03	100.0
755.023 CAPITAL OUTLAY	0.00	0.00	6,381.95	0.00	0.00	-6,381.95	0.0
Operating Expenses	1,653,549.00	1,653,549.00	1,520,764.59	181,952.79	0.00	132,784.41	92.0
Acct Class: 8000 Capital Projects							
750.426 UTILITY RATE STUDY	0.00	0.00	7,209.18	675.66	0.00	-7,209.18	0.0
750.625 WWTF REFURBISH (11)	0.00	0.00	9,410,873.40	2,740,619.39	0.00	-9,410,873.40	0.0
750.626 RZEDB Interest	0.00	0.00	50,150.98	0.00	0.00	-50,150.98	0.0
750.627 ARRA Loan-AR1-004 Admin Fee	0.00	0.00	770.38	0.00	0.00	-770.38	0.0
750.628 2 VS DRIVES FOR BLWRS 1&2	0.00	0.00	15,308.22	0.00	0.00	-15,308.22	0.0
7[illegible]9 CONTROL BLD INSTRUMT UPGRDS	0.00	0.00	12,035.06	4,261.05	0.00	-12,035.06	0.0
750.632 CO-GEN	0.00	0.00	24,557.86	4,320.00	0.00	-24,557.86	0.0
750.633 DIGESTER CLEARNING	0.00	0.00	39,776.49	2,421.56	0.00	-39,776.49	0.0
750.635 RADIOS - HOMELAND SEC GRANT	0.00	0.00	6,184.00	0.00	0.00	-6,184.00	0.0

For the Period: 7/1/2012 to 6/30/2013	Original Bud.	Amended Bud.	YTD Actual	CURR MTH	Encumb. YTD	UnencBal	% Bud
Fund: 600 - WASTEWATER FUND							
Expenditures							
Dept: 600.000 WASTEWATER TREATMENT PLANT							
Capital Projects	0.00	0.00	9,566,865.57	2,752,297.66	0.00	-9,566,865.57	0.0
WASTEWATER TREATMENT PLANT	1,653,549.00	1,653,549.00	11,087,630.16	2,934,250.45	0.00	-9,434,081.16	670.5
Expenditures	1,653,549.00	1,653,549.00	11,087,630.16	2,934,250.45	0.00	-9,434,081.16	670.5
Net Effect for WASTEWATER FUND	20,000.00	20,000.00	-9,139,417.38	-2,804,419.68	0.00	9,159,417.38	-5,697.1
Change in Fund Balance:			-9,139,417.38				
Grand Total Net Effect:	-13,000.00	-13,000.00	-10,041,539.81	-3,126,880.97	0.00	10,028,539.81	

The economic engine of Vermont

Patrick C. Scheidel
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Fax : (802) 878-6946
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MEMORANDUM

TO: Village Trustees
FROM : Lauren Morrisseau, Finance Director/Assistant Manager LM
THRU: Pat Scheidel, Village Manager
DATE : July 23, 2013
SUBJECT: Auditor Recommendation

Attached is a proposed contract for our Annual Audit from Sullivan, Powers & Co. The proposed fee of $14,200 is a 2% increase over the FY12 Audit. They will also perform the Single audit that we are required to have because we have spent over $500,000 in Federal Funds this year.

Staff recommends **the Trustees approve the contract with Sullivan, Powers & Co**. They have been our auditor for many years, they have a thorough understanding of our internal control systems, and they provide excellent reports to our tax payers. It should be noted that we have had a variety of head auditors over the years and each year there is at least one new accountant testing our financial information.

Sullivan,Powers&Co.
CERTIFIED PUBLIC ACCOUNTANTS

A PROFESSIONAL CORPORATION

77 Barre Street
P.O. Box 947
Montpelier, VT 05601
802/223-2352
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Fred Duplessis, CPA
Richard J. Brigham, CPA
Chad A. Hewitt, CPA
Wendy C. Gilwee, CPA
VT Lic. #92-000180

June 20, 2013

RECEIVED
JUN 24 2013
Village of Essex Junction

Board of Trustees
Village of Essex Junction
2 Lincoln Street
Essex Junction, Vermont 05452

This letter is to confirm our understanding of the terms and objectives of our engagement.

SCOPE OF SERVICES

We are prepared to perform an audit of the financial statements of the Village of Essex Junction, Vermont as of and for the year then ended June 30, 2013. We will audit the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information, which collectively comprise the basic financial statements of the Village of Essex Junction, Vermont as of and for the year ended June 30, 2013.

Accounting standards generally accepted in the United States of America provide for certain required supplementary information (RSI), such as management's discussion and analysis (MD&A), to supplement the Village of Essex Junction, Vermont's basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the Village of Essex Junction, Vermont's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The following RSI is required by generally accepted accounting principles and will be subjected to certain limited procedures, but will not be audited.

1. Management's Discussion and Analysis, if presented.

We have also been engaged to report on supplementary information other than RSI that accompanies the Village of Essex Junction, Vermont's financial statements. We will subject the following supplementary information to the auditing procedures applied in our audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America and will provide an opinion on it in relation to the financial statements as a whole.

1. Schedule of Expenditures of Federal Awards

The following other information accompanying the financial statements will not be subjected to the auditing procedures applied in our audit of the financial statements, and for which our auditor's report will not provide an opinion or any assurance.

1. Combining Balance Sheet – Nonmajor Governmental Funds.
2. Combining Statement of Revenues, Expenditures and Changes in Fund Balances – Nonmajor Governmental Funds.
3. Combining Balance Sheet – Special Revenue Funds.
4. Combining Statement of Revenue, Expenditures and Changes in Fund Balances – Special Revenue Funds.
5. Statement of Revenue and Expenses – Budget (Non GAAP Budgetary Basis) and Actual – Water Fund.
6. Statement of Revenue and Expenses – Budget (Non GAAP Budgetary Basis) and Actual – Sanitation Fund.
7. Statement of Revenue and Expenses – Budget (Non GAAP Budgetary Basis) and Actual – Wastewater Fund.

AUDIT OBJECTIVES

The objective of our audit is the expression of opinions as to whether your basic financial statements are fairly presented, in all material respects, in conformity with U.S. generally accepted accounting principles and to report on the fairness of the supplementary information referred to previously when considered in relation to the financial statements as a whole. The objective also includes reporting on:

- Internal control related to the financial statements and compliance with laws, regulations and the provisions of contracts or grant agreements, noncompliance with which could have a material effect on the financial statements in accordance with "Government Auditing Standards".

- Internal control related to major programs and an opinion (or disclaimer of opinion) on compliance with laws, regulations, and the provisions of contracts or grant agreements that could have a direct and material effect on each major program in accordance with the Single Audit Act Amendments of 1996 and OMB Circular A-133, "Audits of States, Local Governments and Non-Profit Organizations".

The reports on internal control and compliance will each include a paragraph that states that the purpose of the report is solely to describe the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance; the scope of testing internal control over compliance for major programs and major program compliance and the result of that testing and to provide an opinion on compliance but not to provide an opinion on the effectiveness of internal control over compliance; and that the report is an integral part of an audit performed in accordance with "Government Auditing Standards" in considering internal control over financial reporting and compliance and OMB Circular A-133 in considering internal control over compliance and major program compliance. The paragraph will also state that the report is not suitable for any other purpose.

Our audit will be conducted in accordance with auditing standards generally accepted in the United States of America; the standards for financial audits contained in "Government Auditing Standards", issued by the Comptroller General of the United States; the Single Audit Act Amendments of 1996; and the provisions of OMB Circular A-133, and will include tests of accounting records, a determination of major program(s) in accordance with OMB Circular A-133, and other procedures we consider necessary to enable us to express such opinions and to render the required reports. We cannot provide assurance that unmodified opinions will be expressed. Circumstances may arise in which it is necessary for us to modify our opinions or add emphasis-of-matter or other-matter paragraphs. If our opinion on the financial statements or the Single Audit compliance opinions are other than unmodified, we will discuss the reasons with you in advance.

If circumstances occur related to the condition of your records, the availability of sufficient, appropriate audit evidence, or the existence of a significant risk of material misstatement of the financial statements caused by error, fraudulent financial reporting, or misappropriation of assets, which in our professional judgment prevent us from completing the audit or forming an opinion on the financial statements, we retain the right to take any course of action permitted by professional standards, including declining to express an opinion or issue a report, or withdrawing from the engagement.

MANAGEMENT RESPONSIBILITITES

Management is responsible for the basic financial statements, Schedule of Expenditures of Federal Awards, and all accompanying information as well as all representations contained therein. Management is also responsible for identifying government award programs and understanding and complying with the compliance requirements, and for preparation of the schedule of expenditures of federal awards in accordance with the requirements of OMB Circular A-133. As part of the audit, we will assist with preparation of your financial statements, schedule of expenditures of federal awards, and related notes. You will be required to acknowledge in the management representation letter our assistance with preparation of the financial statements and schedule of expenditures of federal awards and that you have reviewed and approved the financial statements, schedule of expenditures of federal awards, and related notes prior to their issuance and have accepted responsibility for them. You agree to assume all management responsibilities for any nonaudit services we provide; oversee the services by designating an individual, preferably from senior management, who possesses suitable skill, knowledge, or experience; evaluate the adequacy and results of the services; and accept responsibility for them.

Management is responsible for establishing and maintaining effective internal controls, including internal controls over compliance, and for evaluating and monitoring ongoing activities, to help ensure that appropriate goals and objectives are met and that there is reasonable assurance that government programs are administered in compliance with compliance requirements. You are also responsible for the selection and application of accounting principles; for the preparation and fair presentation of the financial statements in conformity with U.S. generally accepted accounting principles; and for compliance with applicable laws and regulations and the provisions of contracts and grant agreements.

Management is also responsible for making all financial records and related information available to us, and for ensuring that management and financial information is reliable and properly recorded. You are also responsible for providing us with access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, additional information that we may request for the purpose of the audit, and unrestricted access to persons within the government from whom we determine it necessary to obtain audit evidence.

Your responsibilities also include identifying significant vendor relationships in which the vendor has responsibility for program compliance and for the accuracy and completeness of that information. Your responsibilities include adjusting the financial statements to correct material misstatements and confirming to us in the representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements taken as a whole.

You are responsible for the design and implementation of programs and controls to prevent and detect fraud, and for informing us about all known or suspected fraud affecting the government involving management, employees who have significant roles in internal control, and others where the fraud could have a material effect on the financial statements. Your responsibilities include informing us of your knowledge of any allegations of fraud or suspected fraud affecting the government received in communications from employees, former employees, grantors, regulators, or others. In addition, you are responsible for identifying and ensuring that the government complies with applicable laws, regulations, contracts, agreements, and grants. Additionally, as required by OMB Circular A-133, it is management's responsibility to follow up and take corrective action on reported audit findings and to prepare a summary schedule of prior audit findings and a corrective action plan for our review. The summary schedule of prior audit findings should be available for our review when we arrive to begin the audit.

You are responsible for the preparation of the schedule of expenditures of federal awards in conformity with OMB Circular A-133. You agree to include our report on the schedule of expenditures of federal awards in any document that contains and indicates that we have reported on the schedule of expenditures of federal awards. You also agree to include the audited financial statements with any presentation of the schedule of expenditures of federal awards that includes our report thereon or make the audited financial statements readily available to users of the schedule of expenditures of federal awards no later than the date the schedule of expenditures of federal awards is issued with our report thereon. Your responsibilities include acknowledging to us in the written representation letter that you are responsible for the schedule of expenditures of federal awards in accordance with OMB Circular A-133; that you believe the schedule of expenditures of federal awards, including its form and content, is fairly presented in accordance with OMB Circular A-133; that the methods of measurement or presentation have not changed from those used in the prior period (or if they have changed, the reasons for such changes); and you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the schedule of expenditures of federal awards.

You are responsible for the preparation of the supplementary information in conformity with U.S. generally accepted accounting principles. You agree to include our report on the supplementary information in any document that contains and indicates that we have reported on the supplementary information. You also agree to include the audited financial statements with any presentation of the supplementary information that includes our report thereon or make the audited financial statements readily available to users of the supplementary information no later than the date the supplementary information is issued with our report thereon. Your responsibilities include acknowledging to us in the written representation letter that you are responsible for the supplementary information in accordance with GAAP; that you believe the supplementary information, including its form and content, is fairly presented in accordance with GAAP; that the methods of measurement or presentation have not changed from those used in the prior period (or if they have changed, the reasons for such changes); and you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the supplementary information.

With regard to using the auditor's report, you understand that you must obtain our prior written consent to reproduce or use our report in bond offering official statements or other documents. With regard to the electronic dissemination of audited financial statements, including financial statements published electronically on your website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

Management is responsible for establishing and maintaining a process for tracking the status of audit findings and recommendations. Management is also responsible for identifying for us previous financial audits, attestation engagements, performance audits, or other studies related to the objectives discussed in the Audit Objectives section of this letter. This responsibility includes relaying to us corrective actions taken to address significant findings and recommendations resulting from those audits, attestation engagements, performance audits, or studies. You are also responsible for providing management's views on our current findings, conclusions, and recommendations, as well as your planned corrective actions, for the report, and for the timing and format for providing that information.

AUDIT PROCEDURES – GENERAL

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We will plan and perform the audit to obtain reasonable rather than absolute assurance about whether the financial statements are free of material misstatement, whether from errors, fraudulent financial reporting, misappropriation of assets, or violations of laws or governmental regulations that are attributable to the entity or to acts by management or employees acting on behalf of the entity. Because the determination of abuse is subjective, "Government Auditing Standards" do not expect auditors to provide reasonable assurance of detecting abuse.

Because of the inherent limitations of an audit, combined with the inherent limitations of internal control, and because we will not perform a detailed examination of all transactions, there is a risk that material misstatements or noncompliance may exist and not be detected by us, even though the audit is properly planned and performed in accordance with U.S. generally accepted auditing standards and "Government Auditing Standards". In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements or major programs. However, we will inform the appropriate level of management of any material errors and any fraudulent financial reporting or misappropriation of assets that come to our attention. We will also inform the appropriate level of management of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential. We will include such matters in the reports required for a Single Audit. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of the physical existence of inventories, and direct confirmation of receivables and certain other assets and liabilities by correspondence with selected individuals, funding sources, creditors, and financial institutions. We may request written representations from your attorneys as part of the engagement and they may bill you for responding to this inquiry. At the conclusion of our audit, we will require certain written representations from you about the financial statements and related matters.

AUDIT PROCEDURES – INTERNAL CONTROL

Our audit will include obtaining an understanding of the entity and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. Tests of controls may be performed to test the effectiveness of certain controls that we consider relevant to preventing and detecting errors and fraud that are material to the financial statements and to preventing and detecting misstatements resulting from illegal acts and other noncompliance matters that have a direct and material effect on the financial statements. Our tests, if performed, will be less in scope than would be necessary to render an opinion on internal control and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to "Government Auditing Standards".

As required by OMB Circular A-133, we will perform tests of controls over compliance to evaluate the effectiveness of the design and operation of controls that we consider relevant to preventing or detecting material noncompliance with compliance requirements applicable to each major federal award program. However, our tests will be less in scope than would be necessary to render an opinion on those controls and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to OMB Circular A-133.

An audit is not designed to provide assurance on internal control or to identify significant deficiencies or material weaknesses. However, during the audit, we will communicate to management and those charged with governance internal control related matters that are required to be communicated under AICPA professional standards, "Government Auditing Standards" and OMB Circular A-133.

AUDIT PROCEDURES – COMPLIANCE

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the Village of Essex Junction, Vermont's compliance with applicable laws and regulations and the provisions of contracts and agreements, including grant agreements. However, the objective of those procedures will not be to provide an opinion on overall compliance, and we will not express such an opinion in our report on compliance issued pursuant to "Government Auditing Standards".

OMB Circular A-133 requires that we also plan and perform the audit to obtain reasonable assurance about whether the auditee has complied with applicable laws and regulations and the provisions of contracts and grant agreements applicable to major programs. Our procedures will consist of tests of transactions and other applicable procedures described in the "OMB Circular A-133 Compliance Supplement" for the types of compliance requirements that could have a direct and material effect on each of the Village of Essex Junction, Vermont's major programs. The purpose of these procedures will be to express an opinion on the Village of Essex Junction, Vermont's compliance with requirements applicable to each of its major programs in our report on compliance issued pursuant to OMB Circular A-133.

AUDIT ADMINISTRATION

Chad Hewitt, CPA is the engagement partner and is responsible for supervising the engagement and signing the reports or authorizing another individual to sign them.

We understand that your employees will prepare all cash or other confirmations we request and will locate any documents selected by us for testing.

At the conclusion of the engagement, we will complete the appropriate sections of the Data Collection Form that summarizes our audit findings. It is management's responsibility to submit the reporting package (including financial statements, schedule of expenditures of federal awards, summary schedule of prior audit findings, auditor's reports and corrective action plan) along with the Data Collection Form to the federal audit clearinghouse. We will coordinate with you the electronic submission and certification. If applicable, we will provide copies of our report for you to include with the reporting package you will submit to pass-through entries. The Data Collection Form and the reporting package must be submitted within the earlier of 30 days after receipt of the auditor's reports or nine months after the end of the audit period, unless a longer period is agreed to in advance by the cognizant or oversight agency for audits.

The audit documentation for this engagement is our property and constitutes confidential information. However, pursuant to authority given by law or regulation, we may be requested to make certain audit documentation available to a federal agency providing direct or indirect funding, or the U.S. Government Accountability Office for purposes of a quality review of the audit, to resolve audit findings, or to carry out oversight responsibilities. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of our personnel. Furthermore, upon request, we may provide copies of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

We will provide copies of our reports to Village of Essex Junction, Vermont; however, management is responsible for distribution of the reports and the financial statements. Unless restricted by law or regulation, or containing privileged and confidential information, copies of our reports are to be made available for public inspection.

In the event we are required to respond to a subpoena, court order or other legal process for the production of documents and/or testimony relative to information we obtained and/or prepared during the course of this engagement, you agree to compensate us for the time we expend in connection with such response, and to reimburse us for all of our out-of-pocket costs incurred in that regard.

In the event that we are or may be obligated to pay any cost, settlement, judgment, fine, penalty, or similar award or sanction as a result of a claim, investigation, or other proceeding instituted by any third party, then to the extent that such obligation is or may be a direct or indirect result of your intentional or knowing misrepresentation or provision to us of inaccurate or incomplete information in connection with this engagement, and not any failure on our part to comply with professional standards, you agree to indemnify us, defend us, and hold us harmless as against such obligations.

This engagement letter is contractual in nature, and includes all of the relevant terms that will govern the engagement for which it has been prepared. The terms of this letter supersede any prior oral or written representations or commitments by or between the parties. Any material changes or additions to the terms set forth in this letter will only become effective if evidenced by a written amendment to this letter, signed by all of the parties.

Our audit engagement ends on delivery of our audit report. Any follow-up services that might be required will be a separate, new engagement. The terms and conditions of that new engagement will be governed by a new, specific engagement letter for that service.

FEE ARRANGEMENTS

Based upon our knowledge of your accounting system and our understanding of the requirements, we have determined that the audit, services can be performed for a fee of $14,200 provided that the books are closed and reconciled, that the financial statements are prepared by your staff and our to do list is completed prior to our commencing fieldwork.

Our fee for the single audit, if required, will be based on the time of the individuals performing these services at our standard hourly rates plus out-of-pocket- expenses.

Fees for conversion of the governmental funds from the modified accrual to the full accrual basis of accounting and any other accounting services we provide will be billed based on the time of the individuals performing these services at our standard hourly rates plus out-of-pocket expenses.

Our procedure is to bill on a monthly progress basis for work performed to date. Accounts are due and payable upon receipt. A finance charge of one percent (1%) per month will be charged on balances over thirty (30) days.

GENERAL CONDITIONS

We are prepared to commence work as soon as formally engaged. A draft of the audit report will be submitted for your review prior to its issuance. We will issue the final reports within one (1) week of your approval of the draft.

The audit documentation for this engagement will be retained for five (5) years after the report release date or for any additional period requested by a federal awarding agency or pass-through entity. If we are aware that a federal awarding agency, pass-through entity or auditee is contesting an audit finding, we will contact the party contesting the audit finding for guidance prior to destroying the audit documentation.

If the terms are acceptable to you and the services are in accordance with your requirements, please sign in the space provided and return an executed copy of this letter to us.

Respectfully submitted,

Sullivan, Powers & Company
by: Fred Duplessis, CPA
SULLIVAN, POWERS & CO
Certified Public Accountants

We understand that the purpose of this is to clarify the services to be performed by you and the fee arrangements. We hereby confirm to you that we agree to the contents of this letter.

_____

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_____

Dated:_____

Village of Essex Junction
The economic engine of Vermont

TO: **Village Trustees**
FROM: **Chris Gaboriault, Fire Chief**
THROUGH: **Susan McNamara-Hill and Lauren Morrisseau, Assistant Co-Managers**
DATE: **July 23, 2013**
SUBJECT: **Contract for Software**

The Fire Department would like to sign a 5-year contract with Firehouse Software that would move our database to a "Cloud" based system.

Cost:

We currently pay $1,050.00 on a yearly basis for technical support. The yearly cost for the new plan would be $2,167 annually, an additional $1,117 to our budget.

Benefits:

"Cloud" based system would allow us to log into Firehouse from the web.

Software updates would be seamless and we would not have to incorporate on all of our workstations in the fire station.

We could operate via an iPad and eliminate the replacement of a Panasonic Toughbook 8U61 at a cost of $3,000 +.

Reduce our dependency on the Tech Group at $95.00 per hour. The hard drive on our server is approaching 50% capacity and may require replacement in the next year, not required if we move our Firehouse data off the server.

Back-ups would no longer be required and protecting our data locally would be a non-issue.

Other than cost, there are not a lot of downsides and I believe we will make up the cost difference with less reliance on the Tech Group.

Our recommendation is to go forward with the 5-year lease with Firehouse for software maintenance and off-site data storage/back-up.

Recommended motion: The Village Trustees approve the waiving of the bid process and also approve the 5-year lease with Firehouse for software maintenance and back-up for the Essex Junction Fire Department.

Patty Benoit

From: Ron Russotti <rrussotti@pancanvolunteer.org>
Sent: Tuesday, July 02, 2013 11:39 PM
To: pats@essexjunction.org; Patty Benoit
Subject: Asking for permission to hold a Purple Light Event on the Lincoln Hall Green

Dear Mr. Scheidel,

My name is Ron Russotti, a local Essex Junction resident and a Community Representative Volunteer for the Pancreatic Cancer Action Network. My story is that I lost my father and father-in-law to pancreatic cancer.

I'm writing to you, per the recommendation of Patty Benoit, to ask permission if I can host a "Purple Light" Vigil on the Lincoln Hall Green where the Christmas Tree lighting ceremony takes place.

The event date: October 27, 2013
Ceremony TIme : 7pm-8pm.
Number of attendees: 12-25

Total time needed 2.5-3hrs (6pm-9pm) which includes set up, ceremony and take down. I already have reserved the Senior Center for this date and time for setup and in case of in-climate weather through Patty Benoit

What is Purple Light:
A Purple Light Vigil for Hope is a time to honor loved ones fighting pancreatic cancer and those who have lost the fight. Family and friends of those touched by pancreatic cancer come together to gain both comfort and encouragement by illuminating glowsticks as they hear their loved ones' name read aloud, helping to light the night purple. See more: http://www.pancan.org/purplelight/

Thank you for your consideration of this event.

Sincerely,

Ron Russotti
Pancreatic Cancer Action Network, Community Representative Volunteer.

I

James L. Jutras
Water Quality Superintendent
Ph: (802) 878-6943, ext. 201
jim@essexjunction.org

Village Offices
2 Lincoln Street
Essex Junction, VT 05452
Office: (802) 878-6944
Fax: (802) 878-6946
www.essexjunction.org

MEMO

TO: Essex Junction Trustees via Village Manager
FROM: James L. Jutras, Water Quality Superintendent
DATE: July 16, 2013
SUBJECT: Flow Restoration Plan (FRP) Grant VTrans

The MS4 stormwater permit was issued December 5, 2012. The permit has a provision to develop and implement a Flow Restoration Plan (FRP) for both Indian and Sunderland Brooks. The plan identifies capital construction needed to reduce peak instantaneous flows to the streams and to allow the stream ecosystem to return to more natural conditions.

Recently, VTrans has offered grants for FRP development in Chittenden County. Approximately $195,000 is available for even distribution amongst applicants who are awarded. There are nine traditional and three non-traditional MS4 permittees in Chittenden County. There is a 20% match requirement – stipulated as non-federal grant fund matching. The application deadline is July 21, 2013.

After discussion with the Manager and Assistant Managers, I submitted a letter of application to VTrans. We propose the match come out of the operating budget, a new capital plan item or some other funding source to be determined.

Staff requests that the Village Trustees support the application for VTrans LTF (Local Transportation Facilities) grant funds for the Flow Restoration Plan development.

Thank you for your consideration.