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Jefferson Mill
670 North Commercial Street, Suite 201
Manchester, New Hampshire 03101
tel: 603 222-8300
fax: 603 628-7675

April 29, 2008

Mr. Fred Civian
Massachusetts Department of Environmental Protection
One Winter Street - 5th Floor
Boston, MA 02108

Subject: NPDES Permit No. MAR041194
MADEP Transmittal No. W035262
NPDES Phase II Small MS4 General Permit Annual Report
Town of Dracut, Massachusetts

Dear Mr. Civian:

On behalf of the Town of Dracut, we are submitting one signed original of the NPDES Phase II Small MS4 General Permit Annual Report No. 6 for the reporting period of April 1, 2008 through March 31, 2009.

A signed original of this report is also being submitted to the U.S. Environmental Protection Agency, Attn: Ms. Glenda Velez, as instructed.

If you have any questions, or require any additional information, please feel free to contact us at your convenience.

Very truly yours,

Neal W. Campbell, P.E.
Project Manager
Camp Dresser & McKee Inc.

cc: Mr. Dennis E. Piendak - Town Manager
Mr. Glen A. Edwards - Assistant Town Manager/Town Planner
Mr. Michael R. Buxton - Director of Public Works
Mr. Mark Hamel, P.E. - Town Engineer
Mr. Thomas F. Bomil - Health Director
Ms. Lori Cahill - Conservation Agent
Mr. Michael J. Walsh, P.E. - CDM



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670 North Commercial Street, Suite 201
Manchester, New Hampshire 03101
tel: 603 222-8300
fax: 603 628-7675

April 29, 2008

Ms. Glenda Velez
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100 (CIP)
Boston, MA 02114-2023

Subject: NPDES Permit No. MAR041194
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Town of Dracut, Massachusetts

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APR 30 2009

Municipality/Organization: Dracut, MA

EPA NPDES Permit Number: MAR041194

MADEP Transmittal Number: W035262

**Annual Report Number
& Reporting Period:** No. 6: April 1, 2008 – March 31, 2009

NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Glen A. Edwards **Title:** Assistant Town Manager/Town Planner

Telephone #: 978-453-4557 **Email:** atm-planner@dracut-ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Glen Edwards

Printed Name: Glen A. Edwards

Title: Assistant Town Manager/Town Planner

Date: April 28, 2008

Part II. Self-Assessment

The Town of Dracut has completed the required self assessment and has determined that our municipality is in compliance with permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Action Permit Year 6 April 1, 2016
1-1	Make Brochures Available at DPW and Public Libraries	DPW	Assess existing brochures and identify data gaps.	EPA Brochures distributed and available at the following Dracut locations (See Appendix A) : ■ Conservation office. ■ Recreation office. ■ Public library. ■ Public Works office. Maintained stormwater information on the Town's website. Town's future sewer expansion program brochure to educate public was posted on to the Town's website (See Appendix A). The stormwater pollution prevention bookmark continues to be used as a public education piece (See Appendix A). Bookmarks available at the following Dracut locations: ■ Conservation office. ■ Recreation office. ■ Public library. ■ Public Works office.	Continue to provide brochures to the public.

1. Public Education and Outreach (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
1-1a	Public Outreach regarding Pet Waste	DPW	Posting of Signage in Public Places	Pet waste disposal stations where installed at Veterans Memorial Park. Created signs promoting pick-up of pet waste as a public education piece (See Appendix B). Signs have been placed at the following Dracut locations: ■ Town buildings. ■ Public parks. ■ Public recreational areas.	Continue to post signs, and evaluate additional avenues for educating the public.
1-1b	Public Outreach regarding community cleanup.	DPW	Posting of Signage in Public Places and assist with activities promoting community cleanups.	Signs have been placed at town parks and public buildings to remind people to pick up their debris. Assisted Garden Club with planning Earth Day and Arbor Day celebration on 4/18/09 at Veterans Memorial Park. (See Appendix C) Participated in Earth Week Activities During the week of April 18 to 26 including a roadside community cleanup program. (See Appendix C)	Continue to post signs, and evaluate additional avenues for educating the public.
1-2	Annual update of Stormwater Management Plan	DPW	Update of the SWMP in Annual Report and at Selectmen's meeting	An update of the SWMP was included in the 2009 Annual report and presented at the Selectman's meeting on 03/10/09. This meeting was televised live on the Town's local cable access channel, and re-aired on several occasions in the weeks that followed. The Storm Management Report 2009 is included in Appendix D.	A yearly update of the SWMP will be presented at Selectman's meetings and will be made available to the public via the Town's local cable access channel.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
2-1	Comply with State Public Notification Guidelines at MGL Chapter 39 Section 23B	Town Clerk	Notices posted in the Town Hall and current locations throughout permit term.	Notices for Town Meetings have continued to be posted in Town Hall (62 Arlington Street) and at other appropriate locations within the Town.	Notices for Town Meetings will continue to be posted in Town Hall and at other appropriate locations within the Town.
2-2	Hold Annual Household Hazardous Waste Day	DPW and Board of Health	Hazardous waste collection day to be held annually, and communicated to the public in advance.	Two household hazardous waste collection days were held jointly by the Town of Dracut and the City of Methuen. The first event took place in Dracut on 04/20/08; the second event planned in the City of Methuen last Fall was cancelled due to budget challenges. For each event, information was distributed to the public in advance that listed what items were appropriate to bring. In addition to making flyers available at various municipal locations, these events were publicized in local newspapers and on the Town's website. A summary of the Household Hazardous Waste event is included in Appendix E, along with the Dracut's Board of Health hazardous waste information.	The Town plans to continue their future partnering efforts with the City of Methuen to offer household hazardous waste collection days in the Fall and Spring each year.
2-3	Stencil catch basins with "don't dump" message	DPW	Stencil catch basins during years 2 through 5.	The Town continued their catch basin stenciling program by stenciling the words "Don't Dump – Drains to Pond/Lake" next to 128 catch basins tributary to local ponds and lakes.	The annual practice of catch basin stenciling will continue.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
3-1	Map stormwater outfalls and receiving waters.	DPW	A GIS layer was added to the town's Geographic Information System (GIS) showing all outfalls by the end of the first permit year. Bylaw maintained and enforced throughout permit term.	This BMP was completed in Year 1.	This BMP was completed in Year 1.
3-2	Enforce existing storm sewer bylaw	DPW and Board of Health		This bylaw has been maintained and enforced during this period. No illegal discharges were discovered this period. The Board of Health received and investigated no complaint reported as an illegal discharge.	This bylaw will continue to be maintained and enforced.
3-3	Develop and implement a program to identify non-stormwater discharges to the MS4	DPW and Board of Health	Plan developed during first year of permit term and implemented in remainder of permit term.	Stormwater outfall inspection summary by year: ■ Year 1: 118 outfalls inspected. ■ Year 2: 160 outfalls inspected. ■ Year 3: 149 outfalls inspected.	This BMP was completed in Year 3.

3. Illicit Discharge Detection and Elimination (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
3-4	Develop and implement a program to remove illicit discharges to the MS4	DPW and Board of Health	Plan developed during first year of permit term. Plan implemented and maintained during remainder of permit term.	As part of dry weather screening program detailed above, water quality field sampling identified 37 outfall locations that exhibited signs that illicit connections may be tributary to these outfalls. There were 23 outfalls that were designated as high priority. The remaining 14 were designated as low priority. The Town developed and implemented their Illicit Discharge Detection Elimination Program (IDDEP). Thru this program the Stormwater Committee selected five high priority outfalls for further inspection. A memo reporting the drainage inspection findings has been included along with a follow up memo from the Board of Health based on the drainage inspections recommendations. (See Appendix F)	The Town will continue to implement their Illicit Discharge Detection Elimination Program (IDDEP). Due to budget constraints the funding for the IDDEP was cut in half.
3-5	Continue to enforce bylaw requiring inspection of new construction for correct connection to sanitary sewer.	DPW and Board of Health	Bylaw maintained and enforced throughout permit term.	This bylaw has been maintained and enforced through Year 5.	This bylaw will continue to be maintained and enforced.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
4-1	Continue to Apply Standard 8 of the Massachusetts Stormwater Policy to all Construction Projects within the Jurisdiction of the Conservation Commission	Conservation Commission	Standard 8 of the Massachusetts Stormwater Policy applied to all Construction Projects within the Jurisdiction of the Conservation Commission throughout permit term.	A building checklist had been developed previously to accompany the Building Permit, which includes an approval from the Conservation Commission indicating all permits are filed and appropriate erosion controls are proposed.	The Conservation Commission will continue to apply these Standards.

4. Construction Site Stormwater Runoff Control (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
4-2	Develop and Present Bylaw to Require an Erosion and Sediment Control Plan, Waste Management Plan, and Plan Review for Sites Disturbing More Than One Acre	Town Planner, Conservation Agent, DPW Director	Draft bylaw during first year of permit term. Present bylaw in spring 2004, and each spring thereafter until passed.	When the regulations were brought before the Conservation Commission, on two separate occasions, the commission rejected the regulations on the grounds that they exceeded their jurisdiction. It was finally approved on 03/12/08. Since then the Town has been enforcing its new Erosion and Sediment Control regulations. The DPW Director presented a letter to the Town Manager promoting a Stormwater Utility Feasibility Study. He later obtained a proposal for a Stormwater Utility Feasibility Study for review by the Stormwater Committee. A memo was presented to the Town Manager with comments and concerns from the Stormwater Committee. (See Appendix G) The DPW presented a FY2010 budget request to fund the Stormwater Utility Feasibility Study. The Town Manager has tentatively endorsed conducting the study if funding is available in Dracut's FY2010 Budget book. (See Appendix G)	The Planning Board will continue to enforce the new Erosion and Sediment Control regulations as part of their <i>Rules & Regulations Governing the Subdivision of Land in Dracut, MA</i>. The Stormwater Committee will remain in contact with the Town Manager in hopes that funds can be made available this year for the feasibility study. If funding becomes available, we will look to proceed.

4. Construction Site Stormwater Runoff Control (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
4-3	Develop Procedure for Receipt and Consideration of Public Comment	Conservation Commission	Procedure developed during first year of permit term and implemented throughout remaining permit term.	Town has provided opportunity for public comment through Town's website, Town Hall posting of public meetings, public participation in public meetings and hearings.	Public comment procedures will be maintained during the coming permit year. If the Town is ultimately successful in creating a separate stormwater utility, a public commenting function could be added to permitting process.
4-4	Check Erosion Control Measures and Construction Material Management on Site Inspection	Conservation Commission	Develop checklist during first year of permit term. Site inspections updated during spring 2004. Updated site inspection procedure implemented throughout remaining permit term.	Conservation Commission staff served as site inspectors to check erosion control measures using the Town's <i>Sediment Control Checklist</i> (See Appendix H). Site inspections continued during this period.	Site inspections will continue to be performed during the coming permit year. Inspection procedures will be updated, as necessary and will be implemented accordingly. If the Town eventually creates a separate stormwater utility, this entity would be responsible for site inspections as part of implementation and enforcement of the Erosion and Sediment Control regulations.

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
5-1	Develop Bylaw to Apply Standards 2, 3, 4, 7 and 9 of the Massachusetts Stormwater Policy (MSP) to Entire Town.	Task Force (DPW, Engineering, and Conservation)	Develop a draft bylaw by the end of the first permit term. Present annually to Town Meeting until passed	Conservation Commission applies Standards of MSP to projects under their jurisdiction.	Conservation Commission will continue this practice during the coming permit year.

5. Post-Construction Stormwater Management in New Development and Redevelopment (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
5-2	Specify a Stormwater BMP Manual	Task Force (DPW, Engineering, and Conservation)	Specify a stormwater BMP manual to be included in a draft bylaw by the end of the first permit year.	Reviewed three existing stormwater BMP manuals. Selected the <i>Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas</i> .	This BMP was completed in Year 1.
5-3	Develop Bylaw to Ensure Long-Term Maintenance of Private Structural BMPs	Task Force (DPW, Engineering, and Conservation)	By the end of the first permit term, include provisions in the bylaw for long-term BMP maintenance. Present the draft bylaw annually to the Town Meeting until passed.	DPW inspected 91 of 96 Town-owned BMPs during this period, and performed routine maintenance. Commercial landowners with privately-owned BMPs are required to post bonds to ensure perpetual maintenance of these BMPs. They are also required to submit annual reports on the condition/maintenance of their BMPs. 21 commercial property owners were notified to file reports on their maintenance activities with DPW.	DPW will continue this practice during the coming permit year.
5-4	Develop Procedures to Ensure Existing Structural BMPs Are Adequately Preventing or Minimizing Impacts to Water Quality	Task Force (DPW, Engineering, and Conservation)	Create BMP inventory and maintenance plan.	Inventory of structural BMPs developed in Year 1 as part of GIS effort (BMP 3-1). DPW annual inspection of BMPs identifies need for necessary improvements. Forwarded to engineering for review.	BMP inventory will be maintained. Improvements to structural BMPs, identified during annual inspections, will be prioritized. DPW would then begin the process of implementing these improvements through their operating budget and capital plan.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
6-1	Identify Sensitive Receptors (such as wetlands, beaches, etc.) within the Town	Conservation Commission	During first year of permit term, develop the list and give select DPW staff a 30-minute training session about the location of sensitive receptors, and why special protection is needed.	List of Sensitive Receptors developed Year 1 and training completed. The Town has prepared a fact sheet entitled, <i>What are Wetlands?</i> (See Appendix I). This fact sheet has been posted to the Town's website.	Staff will continue to be updated on locations of sensitive receptors and the importance of protection.
6-2	Continue Annual Catch Basin Cleaning Program	DPW	Continue current program each spring.	Annual catch basin cleaning program conducted from March to April 2009. A total of 3,500 catch basins were cleaned during this period. The annual effort removed over 1,740 tons of sand and debris. DPW retrofitted 11 existing catch basins with drainage hoods designed to retain floatable materials for removal during maintenance, and prevent them from being discharged to water bodies during surges in flow through the catch basin.	The Town will continue this program during the coming permit year.
6-3	Continue Annual Street Sweeping Program	DPW	Sweep streets in town annually each spring.	Annual street sweeping program conducted from April to July 2008. Street sweeping was performed on 606 Town streets with a combined length of roughly 332 lane-miles. The annual effort removed over 1,600 tons of sand and debris.	The Town will continue this program during the coming permit year.
6-4	Maintain Cover over Salt Storage Area	DPW	Continue program throughout permit term.	The Town continued to maintain their existing, covered salt storage area.	The Town is looking to build a new salt storage shed, and will do so as soon as local funding is appropriated.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
6-5	Develop/Implement Employee Education Program	DPW	Four hours of training for relevant employees each year of the permit	Public works employees attended hazardous materials safety training, which discussed handling, storage, and disposal. The Town implemented a general training for all public works employees focusing on all BMPs of the SWMP.	The Town will continue to train all public works employees on the various BMPs of the SWMP.
6-6	Use Good Housekeeping Practices for Storing Hazardous Materials, Including Training	DPW	Begin inventory by the end of the first year of the permit term.	An inventory of all current hazardous materials used by the DPW was created in Year 1 and updated in Years 2 & 3.	DPW will continue to maintain and update hazardous material inventory.
6-7	Minimizing Chemicals in Park, Public Playing Field, and Landscape Maintenance	DPW	Continue to minimize the use of chemicals throughout permit term.	Maintenance records were kept for the amount of chemicals used throughout the permit term.	DPW will continue to minimize the use of chemicals and maintain records of chemical used.
6-8	Conduct DPW Site Assessment	DPW		Funds were secured in Year 2 to conduct an environmental site assessment of DPW yard to evaluate stormwater run-off and storage and control of materials. The DPW has completed a site assessment for stormwater management and compliance at the DPW yard.	DPW has reviewed the recommendations from the report and has been implementing them through their operating budget and capital plan.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (Cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year Covering: April 1, 2009 to March 31, 2010
6-9	Attend Storm Water Management Training	Planning, Engineering		Town Planner and Town Engineer attended EPA Storm Water Management training on 04/08/05. Town Engineer attended independently-certified, privately-sponsored training on 12/08/05 entitled, <i>Stormwater Management & Financing Seminar</i>. Assistant Town Manager completed EPA Stormwater Program's webcast Series – <i>Assessing the Effectiveness of Your Municipal Stormwater Program</i> on 06/04/08. DPW Director, Town Engineer and Assistant Town Manager attended New England Chapter APWA and NHPWA 2008 Stormwater Workshop.	This BMP was completed in Year 3. This BMP was completed in Year 6.

Part IV. Summary of Information Collected and Analyzed

As required under Article 29 of the Modified Final Judgment (1997), the Town is required to do monthly sampling at 28 catch basins and storm drains and 9 culverts and brooks to identify locations where fecal coliform contamination is present. Last sampling conducted from March 2004 to November 2004. With the Town's release from the Modified Final Judgment, the sampling requirements identified above were replaced with the outfall inspection program described under BMP #3-3.

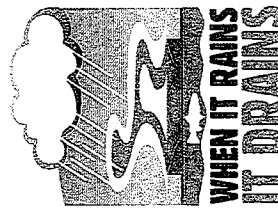
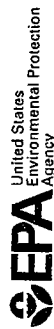
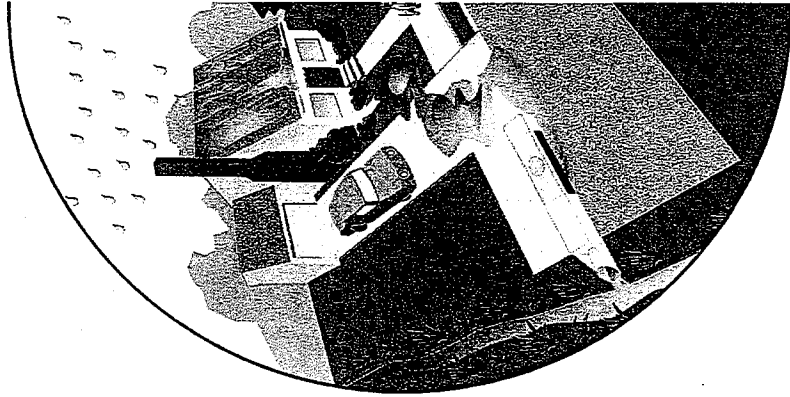
During the summer season, the Board of Health conducts weekly sampling of all beaches around Long Pond, Fleur De Lis Beach, Lake Muscuppic, and Peters Pond.

Make your home

The

SOLUTION TO STORMWATER POLLUTION!

*A homeowner's guide to healthy
habits for clean water*



Remember: Only rain down the drain!

For more information, visit
www.epa.gov/npdes/stormwater

or

www.epa.gov/nps

Contact name

Future Sewer Expansion

As part of the MFJ, the Town prepared a Comprehensive Wastewater Management Plan which outlines a plan for providing sewer service to almost all residents of Dracut. While tremendous progress has been made in meeting this goal, several projects remain to be completed. In accordance with the Comprehensive Wastewater Management Plan, the Town intends to design and construct the following projects between 2006 and 2012, subject to available funding:

Contract No. 27
serving the Peters Pond Area
\$7.2 million project cost
Anticipated construction in summer 2007

Contract No. 28
serving the Loon Hill Road Area
\$2.5 million project cost
Anticipated construction in summer 2008

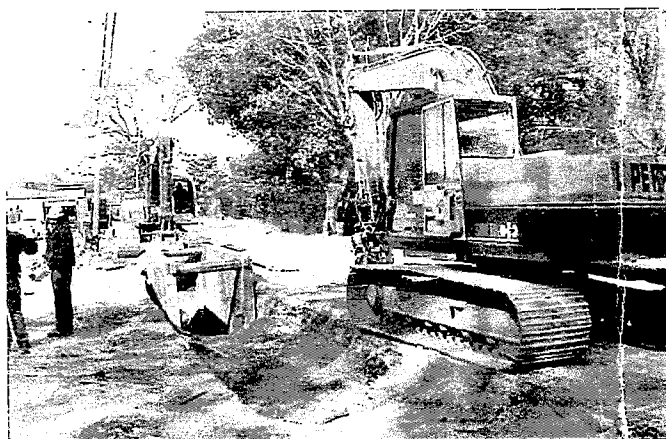
Contract No. 29
serving the Old Marsh Hill Road Area
\$5.1 million project cost
Anticipated construction in summer 2009

Contract No. 30
serving the Methuen Street Area
\$6.7 million project cost
Anticipated construction in summer 2010

Contract No. 31
serving the Wheeler Road Area
\$6.9 million project cost
Anticipated construction in summer 2011

Contract No. 32
serving the Turtle Hill Road Area
\$4.1 million project cost
Anticipated construction in summer 2012

These projects would complete Phase 3 and most of Phase 4 work as outlined in the Comprehensive Wastewater Management Plan. The estimated cost for design and construction of the above projects is approximately \$32.5 million. At the completion of these projects, approximately 90 percent of the Town's population will have sewer service available for connection.



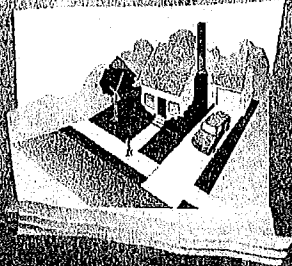
Upper Nashua Road Area

Cap Proj Over

Winter 2006

Town of Dracut
Sewer Department
1196 Lakeview Avenue
Dracut, MA 01827
978-957-0371





10 Things You Can Do to Prevent Stormwater Runoff Pollution

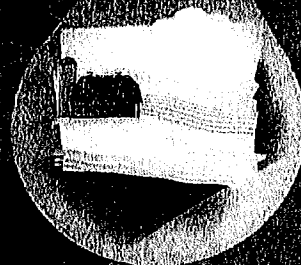
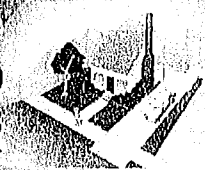
- Use fertilizers sparingly and sweep up driveways, sidewalks, and roads
- Never dump anything down storm drains
- Vegetate bare spots in your yard
- Compost your yard waste
- Avoid pesticides; learn about Integrated Pest Management (IPM)
- Direct downspouts away from paved surfaces
- Take your car to the car wash instead of washing it in the driveway
- Check car for leaks, and recycle motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly



For more information, visit
www.epa.gov/nps or
www.epa.gov/npdes/stormwater

Clean Water

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Everyone's
Business

978-957-0011
clw@dragut.com



Celebrate The Earth

Do something rewarding with your family
Make Dracut a better place to live

Earth Day



Arbor Day

Kick off

Saturday April 18, 2009

10:00 a.m. - 12:00 p.m.

at

Veterans Memorial Park

(behind the Dracut Post Office)

PROGRAM

- * Raffles * Plant Sale * Story Telling * Face Painting * Children's Arts and Crafts*
- * Educational Exhibits "For the Young and Old" * The Dracut Junior Gardeners *
- * **FREE** Mercury Thermometer exchange from The Dracut Board of Health *

* **FREE** Compost and Tree Saplings for ALL * Meet Treeture *

Roadside Trash

- * Sign up to Clean up - *Roadside Trash* (latex free bags and gloves will be provided) *
- * Extra bags and gloves may be obtained at Almos' Garden Center, Dracut Library, Dracut Fire Dept. on Pleasant St., Dracut Hardware
- * Drop off filled bags thru Sunday April 26th at Old Tree Dept. on Lakeview Ave., Hovey Square, Town Hall lower parking lot, Old Kenwood Fire Station on Leavitt St.

For more information please contact Lisa Bourgeois @ 978-957-3922

Sponsored by the Dracut Garden Club



Roadside Trash

COMMUNITY CLEAN UP

**Saturday April 18th
thru
Sunday April 26th**

**BE SAFEHAVE SUPERVISION....
WEAR GLOVES....WATCH FOR POISON IVY....!!!**

Hazardous Items: tires, metals, oil, paint cans & broken glass
FOR YOUR SAFETY please leave at the roadside where found and inform the Dracut Highway Dept. at (978) 957-0411. They will collect and dispose of the waste properly.

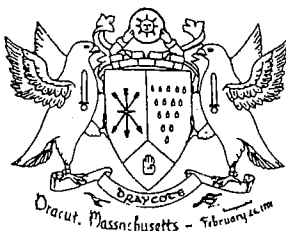
For more information please contact Lisa Bourgeois at (978) 957-3922.

Supported by:

This program is supported in part by a grant from the Dracut Cultural Council, a local agency which is supported by the Massachusetts Cultural Council, a state agency. Town of Dracut, Dracut Health Dept., Dracut Highway Dept., Dracut Water Dept., Dracut Public Schools, Hannaford Brothers and Lowell General Hospital

Also: Almo's Garden Center, Dracut Fire Dept., Dracut Hardware, Dracut Public Library

Sponsored by the Dracut Garden Club



Department of Public Works

833 HILDRETH STREET
DRACUT, MASSACHUSETTS 01826



MICHAEL R. BUXTON
PUBLIC WORKS DIRECTOR

TEL. (978) 957-0411
FAX. (978) 957-9313
email: dpw@dracut-ma.us

STORM WATER MANAGEMENT REPORT 2009

WHAT IS STORM WATER

- STORM WATER IS SURFACE FLOW WATER THAT TRAVELS THROUGH NATURAL OR MAN MADE CONVEYANCE SYSTEM (I.E.) WOODLANDS, GRASS, CATCH BASINS, MANHOLES OR PIPES

- STORM WATER IS CONVEYED TO RIVERS, STREAMS AND CAN SEEP INTO AQUIFERS

- CLEAN WATER ACT OF 1972 INCREASED ACCOUNTABILITY FOR PROTECTING WATER QUALITY ON DISCHARGERS

- TOWN REQUIRED TO FILE FOR PERMIT "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) AND STORMWATER MANAGEMENT PLAN

- TOWN GRANTED ITS PERMIT AND STORMWATER MANAGEMENT PLAN ON SEPTEMBER 26, 2003

TOWNS STORMWATER PLAN

- **STORMWATER COMMITTEE IS MADE UP OF THE FOLLOWING DEPARTMENTS**

TOWN MANAGER / ASSISTANT TOWN MANAGER

**KEPT ABREAST OF THE STORMWATER
MANAGEMENT ACTIVITIES OF THE
VARIOUS DEPARTMENTS**

ADDRESS ANY LEGAL ISSUES

**FUNDING IMPACTS TO THE BUDGET TO
STAY IN COMPLIANCE WITH THE
REQUIREMENTS OF THE STORMWATER
PLAN**

**DEVELOP STORMWATER UTILITY TO FUND
COMPLIANCE REQUIREMENTS OF THE
STORMWATER MANAGEMENT PLAN**

PUBLIC WORKS

MAINTENANCE OF THE PUBLIC WAYS

**3500 CATCH BASINS CLEANED
REMOVING 1740 TONS OF SAND AND
DEBRIS**

**332 LANE MILES SWEPT REMOVED 1600
TONS OF SAND AND DEBRIS FROM
ENTERING OUR WATERWAYS**

**128 CATCH BASINS THAT DISCHARGE
DIRECTLY TO THE LAKES AND PONDS
WHERE STENCILED " DON'T DUMP
DRAINS TO POND / LAKE" TO MAKE THE
PUBLIC AWARE NOT TO DUMP ANY
HAZARDOUS MATERIAL INTO THE BASINS**

ENGINEERING OFFICE

**35 PLANS IE SUB-DIVISION, FORM A,
CONSERVATION FILINGS, WHERE
REVIEWED TO MAKE SURE THEY COMPLY
WITH CURRENT DRAINAGE
REQUIREMENTS**

**CONTINUE GROUND POSTIONING SYSTEM
OF IDENTIFING ALL DRAINAGE
STRUCTURES IN PUBLIC WAYS**

**CONTINUE TO UPDATE AND MAINTAIN THE
TOWNS MAPS FOR THE GEOGRAPHIC
INFORMATION SYSTEM DRAINAGE LAYER**

**NEW EROSION AND SEDIMENT CONTROL
REGULATIONS WHERE ADOPTED BY THE
PLANNING BOARD IN MARCH OF 2008 AND
WILL BE INCLUDED IN THE PLANNING
BOARD RULES AND REGULATIONS.**

BOARD OF HEALTH

**427 DRAINAGE OUTFALLS IDENTIFIED FOR
THE TOWNS DRAINAGE SYSTEM**

**ALL DRAINAGE OUTFALLS WHERE
INSPECTED FOR DRY WEATHER WATER
FLOW**

**5 OUTFALLS TESTED POSITIVE IN OUR
TARGET AREA FOR DRY WEATHER FLOW.
BOH VIDEO INSPECTED DRAIN LINES FOR
ILLICIT CONNECTIONS. ANY
CONNECTIONS FOUND WHERE
INVESTIGATED BY THE BOH AND
ADDRESSED. THE OUTFALLS WILL
CONTINUED TO BE MONITOR**

**0 REPORT OF ILLEGAL DISCHARGE TO
STORMWATER BASINS IN 2008**

CATCH BASIN DRAIN SAMPLING
CONTINUES

FUNDING IS IN PLACE TO INVESTIGATE
ANY REPORTS OF ILLEGAL DISCHARGES

CONTINUE TO ENFORCE EXISTING BYLAW
TO REMOVE ANY ILLEGAL DISCHARGES
TO STORM SEWERS

CONTINUE WEEKLY WATER SAMPLING
DURING THE SUMMER OF ALL BEACHES
AROUND LONG POND, LAKE MUSCUPPIC
AND PETERS POND

SCHEDULED ANNUAL HOUSEHOLD
HAZARDOUS WASTE COLLECTION ON
**SATURDAY APRIL 18, 2009 FROM 8:00 AM
TO 1:00 PM**

TOWN OF DRACUT WEB PAGE
www.dracut-ma.us UNDER BOH LINK HAS
MORE INFORMATION OF COMPANIES
THAT WILL RECIEVE HAZARDOUS WASTE

CONSERVATION COMMISSION

32 PUBLIC HEARINGS HELD IN 2008
REVIEWING ACTIVITIES
THAT EFFECT WETLANDS

TOWNS WEB PAGE HAS INFORMATION
SHEET ON WHY WETLANDS ARE
IMPORTANT AND VALUABLE

CLERKS OFFICE

CONTINUE POSTING ALL MEETING FOR
PUBLIC AWARENESS AND PARTICIPATION

REPORTS

ACTIVITIES ARE REPORTED TO THE ASSISTANT TOWN
MANAGER FOR FILING WITH THE TOWNS ANNUAL
REPORT TO THE MASSACHUSETTS DEPARTMENT OF
ENVIRONMENTAL PROTECTION AND U. S.
ENVIRONMENTAL PROTECTION AGENCY, WATER
TECHNICAL UNIT

BENEFITS OF STORM WATER MANAGEMENT

- DECREASED FLOODING PROPERTY DAMAGE
 - IMPROVE SURFACE WATER QUALITY
 - IMPROVE ANIMAL HABITATS
 - LAND PRESERVATION DUE TO EROSION CONTROL
 - INCREASE VIABILITY FOR FISH
 - IMPROVE DRINKING WATER SUPPLY
-

Dracut Household Hazardous Waste

Saturday, April 18, 2009 8:00AM – 1

Clean hazardous items out of your basement, closet and garage

What Do I Bring??

From the Workbench:

- ✓ Oil Based Paints
- ✓ Stains & Varnishes
- ✓ Wood Preservatives
- ✓ Paint Strippers/Thinners
- ✓ Solvent Adhesives
- ✓ Lighter Fluid
- No latex paint (dry & discard with trash)

From the Garage:

- ✓ Fuels/Gasoline/Kerosene
- ✓ Engine Degreaser
- ✓ Brake Fluid/Carburetor Cleaner
- ✓ Transmission Fluid
- ✓ Car Wax, Polishes
- ✓ Tires (limit of 4)
- ✓ Driveway Sealer (No latex based)
- ✓ Roofing Tar
- ✓ Swimming Pool Chemicals
- ✓ Propane Tanks (empty)(limit of 4)
- ✓ Car Batteries (limit of 4)
- No Motor Oil (return to place of purchase)

From the Yard:

- ✓ Poisons, Insecticides, Fungicides
- ✓ Chemical Fertilizers
- ✓ Weed Killers
- ✓ Moth Balls
- ✓ Flea Control Products

From the House:

- ✓ Fiberglass Resins
- ✓ Photo Chemicals
- ✓ Chemistry Sets
- ✓ Floor, Metal & Furniture Polish
- ✓ Oven, Drain & Toilet Cleaner
- ✓ Spot Remover / Rug Cleaner
- ✓ Fluorescent bulbs
- ✓ Hobby Supplies, Artist Supplies
- ✓ Thermometers & thermostats



**PLACE: Public Works
Yard on Hildreth St.**

For More Info: 978 453-8162

- ☞ **\$20 per vehicle entrance fee required (cash or check only)** ☞
- ☞ **Maximum 50 lb. or 50 gallon limit per vehicle** ☞
- ☞ **Proof of residency is required** ☞

What Not To Bring

- Ø Empty Containers
- Ø Latex Paint (cans)
- Ø Motor Oil (return to place of purchase)
- Ø Contractor, Commercial or Industrial Waste
- Ø Radioactive Materials
- Ø Infectious or Biohazardous Materials
- Ø Ammunition, Explosives
- Ø Prescription Medications
- Ø Asbestos
- Ø Fire Extinguishers
- Ø Electronics (TVs, VCRs, etc.)

How Can I Safely Handle These Hazardous Materials?

- Leave materials in original containers
- Tighten caps and lids
- Maximum container weight: 50 lbs. or 50 gallons
- Sort and pack separately by type of material and household use
- Pack containers in a sturdy box or container with padding and newspaper
- NEVER MIX CHEMICALS
- Pack your car or truck properly
- NEVER SMOKE or drink alcohol while handling hazardous material

This is a residential area. Please do not bring commercial materials.

This Collection Event is sponsored by the City of Dracut, Clean Harbors, and the Dracut Fire Department.

MEMORANDUM

To: Dennis / Glen / Tom / Mike / Kathy
From: Matt Z.
Date: April 24, 2008
Re: HHW Day

Another successful Household Hazardous Waste (HHW) event was held on Saturday at the DPW. In general, there was a fairly steady stream of folks bringing their HHW to the event and Tom B., the DPW staff and Clean Harbors' personnel did a good job providing the service. As well, we were able to dispose of hazardous material collected throughout the year by the DPW.

The following is a summary of the Clean Harbors related costs of the event to the Town:

Set Up Fee:	\$ 648
Full Cars	79 full cars x \$45 = \$3,555
½ Cars	122 ½ cars x \$28 = <u>\$3,416</u>
Total	\$7,619

To help offset the high cost of providing the service, we have been collecting a \$20 per vehicle "entrance fee" for participating households. A total of \$3,100 was generated to help offset the cost of the event.

In order to help determine effective outreach methods, I also asked residents how they had heard about the event. Our comprehensive outreach efforts have been paying dividends as people mentioned a variety of things including seeing the date on the tax bill, seeing the ad in the paper, reading

Please note that as part of the reciprocal agreement, we can send residents to the HHW event that will be held this fall in Methuen (October 4, 2008). Our partnership with Methuen allows the Town to participate in the Essex County Regional HHW program which has successfully negotiated lower rates than those received by other communities that use the state Master Services contract. For the third year in a row, no Methuen residents attended our event.

Please let me know if you have any questions and thanks again for the teamwork involved in holding the event.

TOWN OF DRACUT
DRACUT BOARD OF HEALTH
HAZARDOUS WASTE/RECYCLING INFORMATION

Dracut Household Hazardous Waste Day: Held annually in April at the Department of Public Works on a Saturday, (advertised in newspaper and distribution of flyers can be picked up at Town Hall, Town Hall Annex, and Library. with list of hazardous waste items).

Minuteman Hazardous Household Product Regional Facility: The fee is \$35.00 for up to 12 gallons of materials. Fee of \$60.00 from 12 – 25 gallons of materials. Address of the facility: Hartwell Avenue Composite Facility, 60 Hartwell Ave. Lexington, MA. For more information go to web site: <http://ci.lexington.ma.us/OCD/Health/HazWaste.htm>.

Clean Harbors Household Hazardous Waste: Saturdays from March through November from 8:00am to 12:00pm. Cost: \$48.00 full 25 gallons or 25 pounds, \$28.00 half 10 gallons or 10 pounds. Address of the facility: Clean Harbors, Braintree Plant, 1 Hill Ave., Braintree, MA. Telephone: (781) 380-7100.

Additional Options for Household Hazardous Waste:

- Car Batteries also accepted at: Battery Shop, 40 Silva Lane, Dracut (no charge).
- KT Cleanouts, call: 978-957-2900, for free estimates or go to web site: www.ktcleanouts.com. Safe removal of computers, computers/electronics, monitors/TVs, furnaces, hot water heaters, construction/building materials.

Mercury Recovery Programs: Products containing mercury such as thermostats, thermometers, mercury switches, button-cell batteries (including hearing aid battery), fluorescent lights. These items can be brought to the Board of Health, Town Hall Annex.

Waste Oil: Can be brought to the following locations:

- Service Plus, 1601 Lakeview Ave., Dracut (fee of \$1.00 per gal.)
- Advance Auto Parts, 1190 Bridge St. Lowell (no charge)

TVs, Computer Monitors (CRT'S) and White Goods:

- F.W. Russell at 1888-870-8882 to arrange for pickup. Collected curb side fee required. Presently the cost is \$20.00 for appliances and \$15.00 for televisions, computers and air conditioners.

TVs, Computer Monitors:

- R.S.T. Reclaiming Company, Inc. drop off site located at 66 River Road, (continuation of Frost Rd.) Hudson, NH, hours 9:00am – 3:00pm Monday thru Friday. Fee required, call 603-595-8708.

Computers:

- Any Staples Office Supply, computers can be brought for recycling, required fee, \$9.99 each.

Recycling Bins: Can be picked up and/or pick up recycling stickers at Clerk's Office.

Furniture: One piece of furniture can be put out curb side with weekly trash, such as sofa, chair, tables, etc.

Construction and Demolition Debris: Not permitted with curb side trash collection. Residents are responsible for arranging for proper disposal of all construction and demolition debris.

Fees required for the following companies based on material and quantity:

- Agretch, 479 Broadway Rd. Dracut, call: 978-475-8153. Accepts: asphalt, concrete, brick.
- BMC, 1079 South St., Tewksbury, call: 978-667-2171. Accepts: clean wood, stumps, pallets.
- CJ Mabardy, Cambridge, call: 617-354-7580. Accepts: metal, plaster, wallboard, siding.



Memorandum

To: Tom Bomil – Health Director, Dracut Board of Health

From: Milagros Puello, Neal Campbell, P.E.

Date: October 3, 2008

Subject: Drainage Inspections

Background

A Town-wide storm water outfall inspection program was performed on 427 drainage outfalls in Dracut from 2002 thru 2006. As part of the outfall inspection process, dry weather screening revealed that 37 outfalls had fecal coliform readings over 200 col/100 ml. These single sample fecal coliform limits are considered a health risk for humans and aquatic life in surface waters by Massachusetts DEP, where no single sample shall exceed 235 col/100 ml (314 CMR 4.05). There were 23 outfalls that tested greater than 1,000 col/100 ml for fecal coliform, which were designated as high priority. The remaining 14 outfalls tested between 200 and 1000 col/100 ml and were designated as a lower priority.

Purpose

The purpose of this investigation was to locate possible illicit sewer connections in five drainage pipe networks that were determined to be high priority. The five drain networks selected for possible illicit sewer connections were chosen by the Town of Dracut and CDM because they were on the high priority list and were adjacent to existing sewers. A subconsultant, ADS Environmental Services, was hired to perform the TV inspections, while CDM performed visual inspection of the outfalls.

Nottingham Road – Outfall 6-17

Outfall 6-17 was thought to discharge storm water from Nottingham Road and Patricia Lane, however no outfall was located in the field (see Figure 1). Instead of an outfall, there was a small 8-inch drain inlet collecting overland flow near the location outfall 6-17 was thought to exist. This inlet and the drainage flowing from Nottingham Road entered a 36-inch drain pipe running cross country, parallel to Nottingham Road. The drain pipe extends to Oxford Road before discharging to Beaver Brook through outfall 6-4. The 36-inch drain pipe was not television inspected.

There were no illicit connections found on the drain sections based on the television inspections. The drain network investigated includes three pipe sections on Nottingham Road starting from CB-3 on Patricia Lane to the cross country manhole between houses #28 & #38 on Nottingham Road. There were no signs of solids or other sewer material visible in the pipe or the manhole.

Since no illicit connection was found, we recommend that the Town periodically monitor fecal coliform counts from Outfall 6-4 and perform further inspection of the downstream pipes, not inspected under the investigation.

Christy Avenue - Outfall 12-4

Outfall 12-4 discharges storm water from Stephen Avenue, Christy Avenue and Psoinas Avenue (see Figure 2). There was no evidence of sewerage material visible at the outfall. The television inspection did, however, identify two unknown connections. The unknown connections were found on the cross country drain section between Stephen Avenue and Christy Avenue.

The first unknown connection was a 2-inch pipe aligned towards house #27 on Stephen Avenue. The television inspection revealed that no flow was exiting the pipe and there were no visible indications of an illicit sewer discharge. Upon speaking with the home owner, he was sure his sewer service was pumped to the existing sewer pipe on Stephen Avenue, but did mention the existence of a garage drain. To test the connectivity of the garage drain, water was sent down the pipe to see if it would come out in the cross country drain pipe. After several minutes of running water down the garage drain, no water exited the unknown 2-inch pipe and it was determined that it wasn't the connected to the cross country drain.

The second unknown connection was a 6-inch pipe located downstream from the previously mentioned connection. This connection was aligned towards house #41 on Christy Avenue. Again, the owner was unaware of the connection and did not have any idea where it could be coming from. The home owner did note that his backyard had a high groundwater table. The television camera revealed that the pipe was flowing with clear water and had some accumulation of mineral deposits. Mineral deposits are generally a sign that ground water is present.

The origin of the two pipes was undetermined, but neither indicated an illicit sewer discharge. Also, there was an excrement odor within the three catch basing on Christy Avenue. It is recommended that the Town periodically monitor fecal coliform counts from Outfall 12-4 and the catch basins on Stephen Avenue and Christy Avenue.

Newton Avenue - Outfall 10-6

Outfall 10-6 discharges storm water from Newton Avenue into Peppermint Brook (see Figure 3). There was no evidence of sewerage material around the outfall. The television inspection

did, however, identify a 2-inch connection in the pipe from CB-31 to the outfall. The 2-inch pipe connects approximately 76 feet southeast of CB-31. It was not flowing at the time of inspection. The pipe was aligned towards house #21 on Newton Avenue. The home owner was not home during the time of inspection, but a business card was left at the residence. The home owner phoned the next day and was not aware of any drain connection. The owner mentioned that there is a drain in the laundry room in the basement, but she was not sure where it drains to.

It is recommended that further investigation, such as dye testing, be performed in the home owner's basement drain to determine its connectivity. Also, the Town should periodically monitor fecal coliform counts from Outfall 10-6.

Genest Street - Outfall 13-6

Outfall 13-6 discharges storm water from Genest Street, Thissell Street, Malwood Avenue, Iona Avenue and Infield Avenue (see Figure 4) into Peppermint Brook. The television inspection in this area ranged from furthest upstream CB-51 on Infield Avenue to outfall 13-6 off Genest Street. There was no sign of illicit sewer discharges around the outfall, however, three unknown connections were located during the television investigation.

The first unknown connection was a 6-inch pipe with a small amount of clear flow entering CB-51. The alignment of the pipe into the catch basin appeared to be coming from around house #21 on Iona Avenue. The clear flow entering the catch basin could be yard drainage and/or groundwater, but the homeowner was not home to ask further questions.

The second unknown connection was a 10-inch drain inlet that appears to receive runoff from the properties between Iona Avenue and Malwood Avenue. This connection enters the pipe approximately 98 feet west of CB-50 and was not active during the inspection. Daylight was observed upon viewing the 10-inch drain penetration from the television inspection and grading of the lawn into a swale confirmed the unknown connection was yard drainage.

The third unknown connection was a 12-inch drain inlet into a buried manhole between CB-50 and CB-49. The pipe was active during the television inspection. A resident of the neighborhood said the pipe drains the properties between Infield Avenue and Thissell Street. A fence around the backyard of the two properties did not allow access to confirm the information from the resident and the homeowners were not home.

The drain inspection from DMH-4 to outfall 13-6 was incomplete due to a blockage in the pipe. When trying to clean out this pipe section with a high pressure water spray, the nozzle would not go beyond the blockage. During the television inspection, at approximately 8 feet, the camera went underwater confirming that a blockage was present. It is recommended to remove the blockage in the pipe.

It is also recommended to speak with the homeowner of #21 Iona Avenue about the 6-inch pipe aligned towards their home. If necessary, perform a dye test on any drain the homeowner may suspect could be connected to CB-51. In addition, speak with homeowners on Infield Avenue about the unknown 12-inch drain aligned towards their properties. Confirm that this flow is yard drainage. Finally, it is recommended that the Town periodically monitor fecal coliform counts from Outfall 13-6.

Also note that another buried manhole was located on Genest Street between CB-41 and DMH-4.

Betty Ann Lane – Outfall 14-21

Outfall 14-21 discharges storm water from Betty Ann Lane (see Figure 5). The outfall is made up of three separate pipe penetrations through a concrete headwall. The three drainage branches from this outfall location were inspected and no illicit connections were found on any of the drain sections inspected. No sign of solids or other sewer material were visible at the outfall. This neighborhood appeared to be built recently as each catch basin discharge pipe was fitted with a hood. This is typical practice for newer drainage installations.

It is recommended that the Town periodically monitor fecal coliform counts from Outfall 14-21.

Summary and Recommendations

Three of the five high priority drainage networks (12-4, 10-6 and 13-6) contained illicit or unknown connections; however none of the unknown connections showed signs of having an illicit sewer source. The connections had no flow or a small clear flow entering the mainline drain. Storm water sources referred to as non-point could potentially be causing the high fecal coliform readings at the outfall. Non-point sources contribute adversely to drainage networks when runoff carries lawn fertilizer, herbicides, insecticides, pet wastes and other bacteria and nutrients into the drainage system. An example is the excrement odor identified in the catch basins on Christy Avenue. Unwarranted dumping of pet wastes into a catch basin ultimately travels to the outfall.

The following items are a summary of the recommendations for the five drainage areas:

- Periodically monitor fecal coliform counts from all five outfalls
- Perform further inspection of the downstream pipes from Outfall 6-17
- Periodically monitor fecal coliform counts at Outfall 6-4
- Periodically monitor fecal coliform counts from the catch basins on Stephen Avenue and Christy Avenue

Drainage Inspections

October 3, 2008

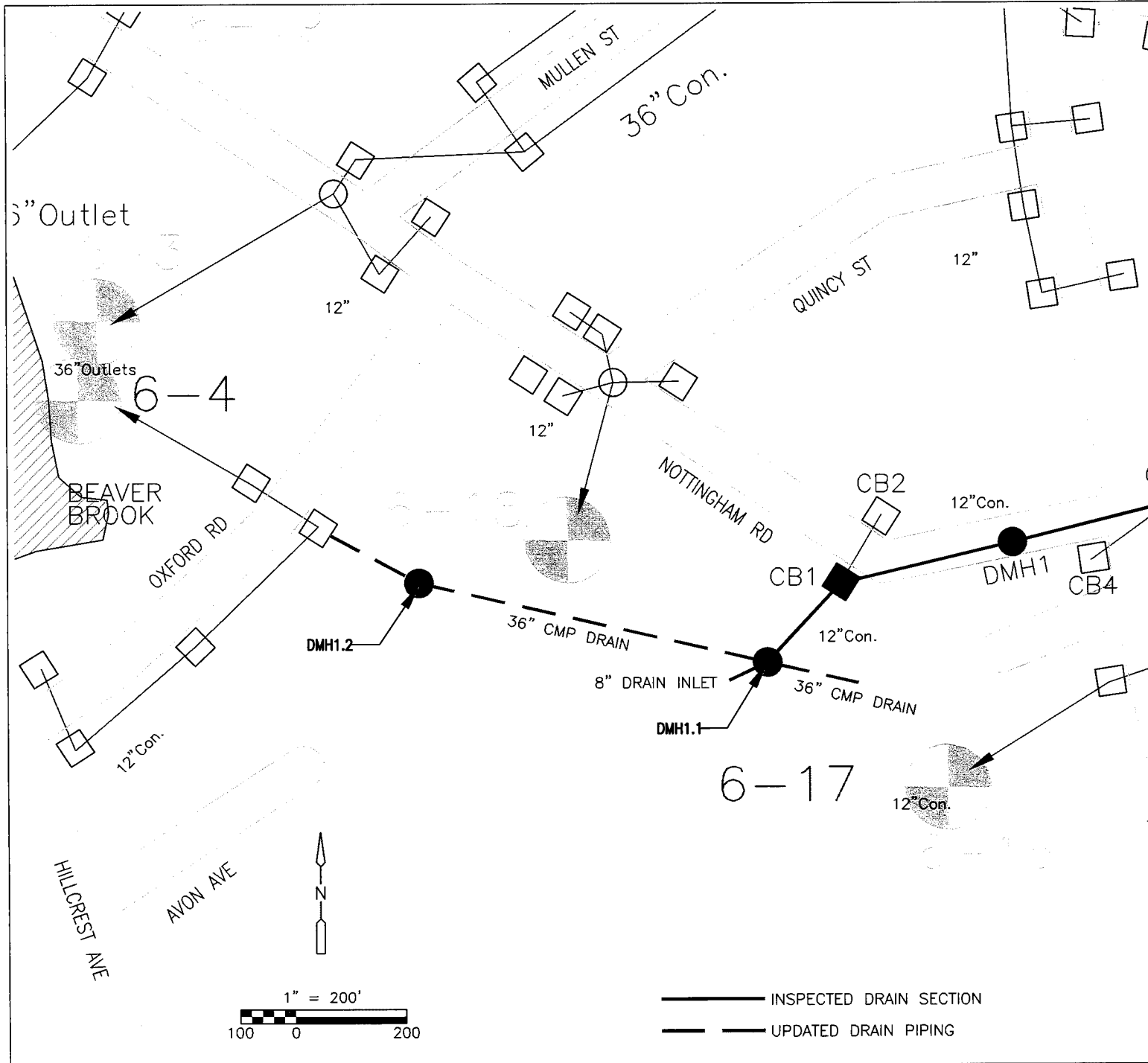
Page 5

- Perform further investigation, such as dye testing, on the basement drain at #21 Newton Avenue to determine its connectivity
- Remove the blockage in the drain pipe from DMH 4 to Outfall 13-6
- Ask the homeowner of #21 Iona Avenue about the 6-inch pipe aligned towards their home. If necessary, perform a dye test on any drain the homeowner may suspect could be connected to CB-51.
- Speak with homeowners on Infield Avenue about the unknown 12-inch drain aligned towards their properties. Confirm that this flow is yard drainage.

Besides the specific recommendations for the five drainage outfalls, we recommend that the Town also consider the following:

- Continue to investigate the high and low priority outfalls
- Implement public education best management practices (BMPs) such as:
 - Flyers
 - Catch basin signs
 - Public Meetings
 - Information on Town's website
 - Public service announcements
 - School presentations
- Further develop the Illicit Discharge Detection Program (IDDE)

cc: Glen Edwards - Assistant Dracut Town Manager
Michael Buxton - Dracut Public Works Director
Michael Walsh - CDM



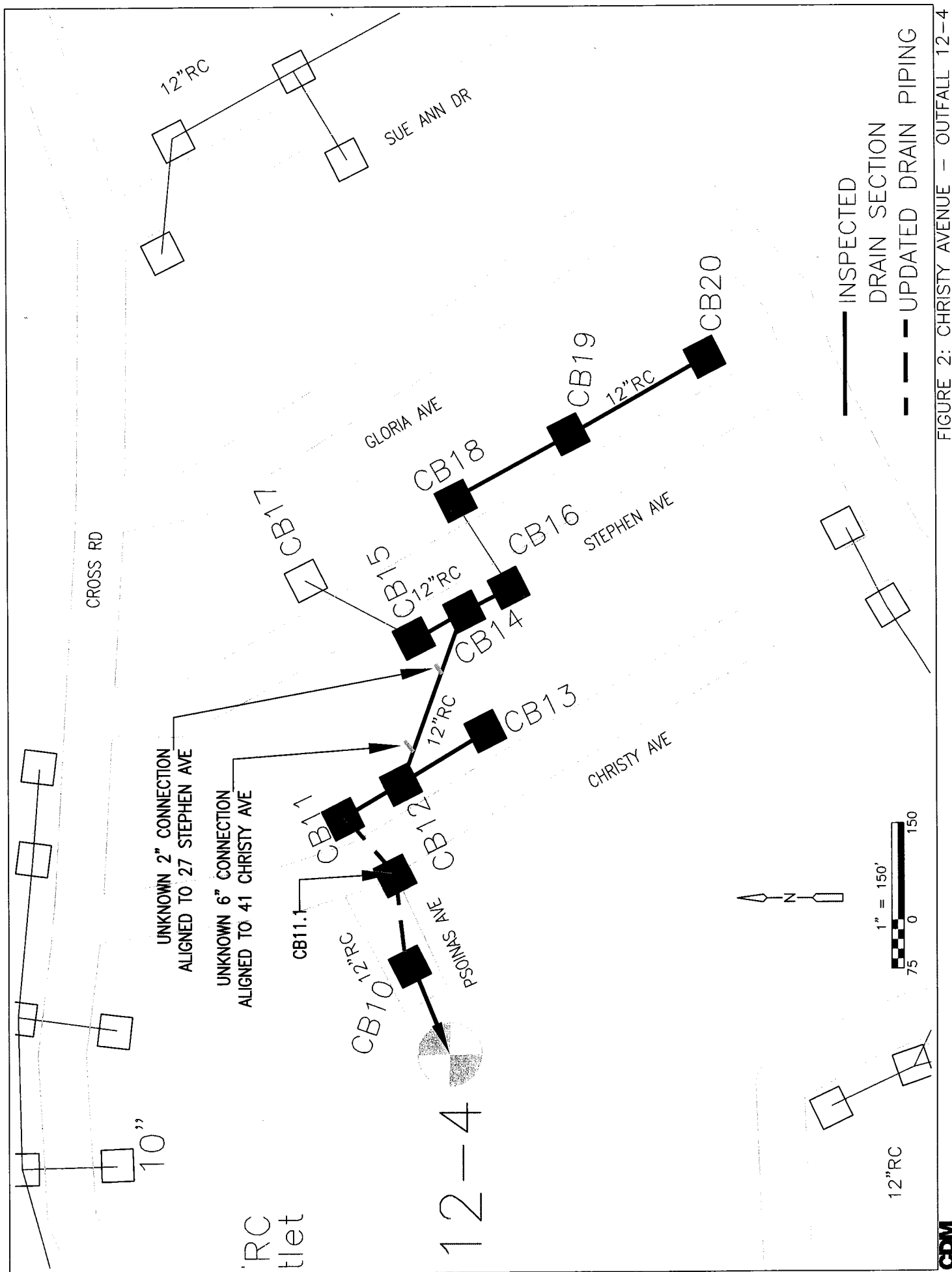


FIGURE 2: CHRISTY AVENUE – OUTFALL 12-4

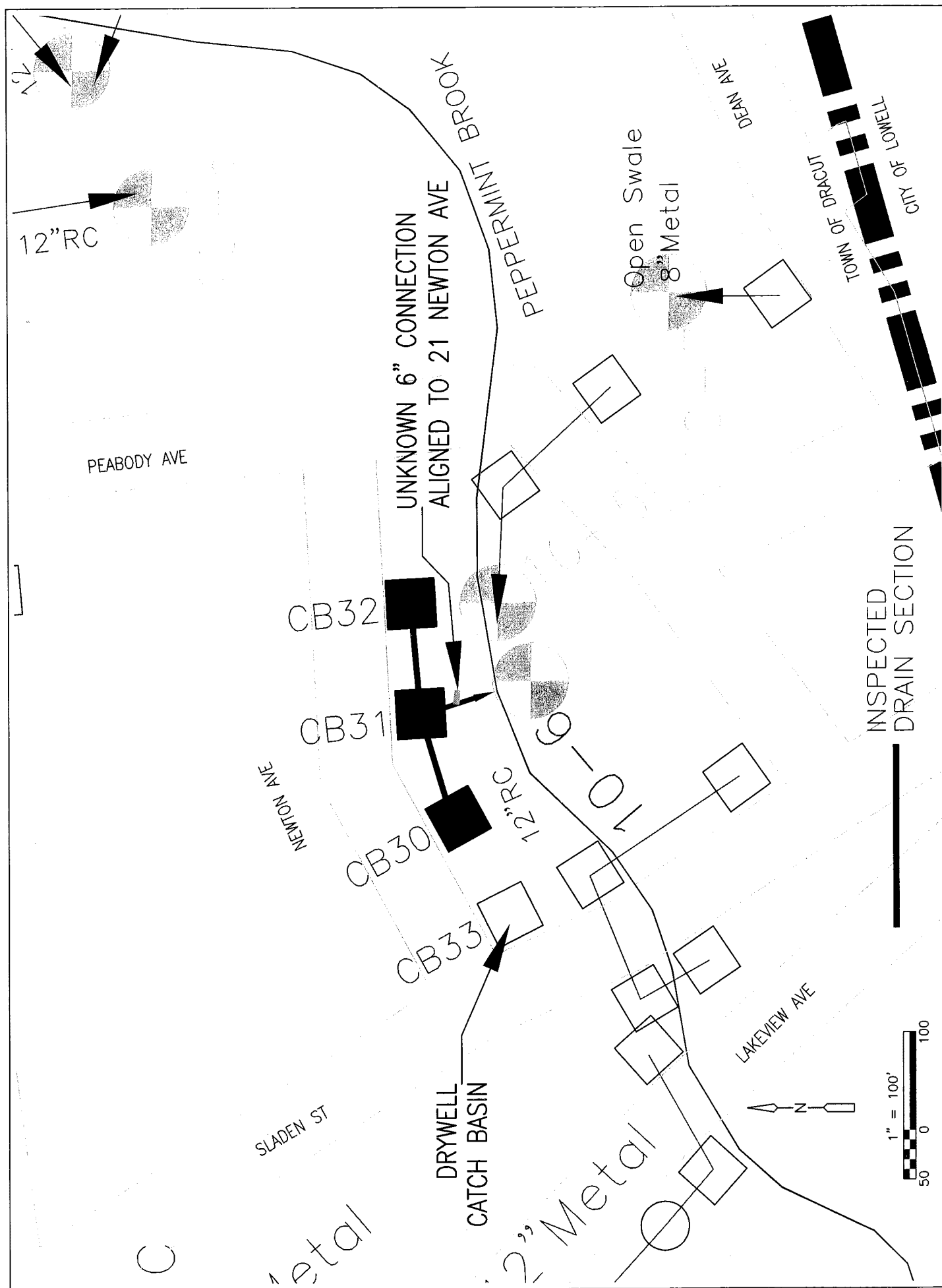


FIGURE 3: NEWTON AVENUE - OUTFALL 10-6

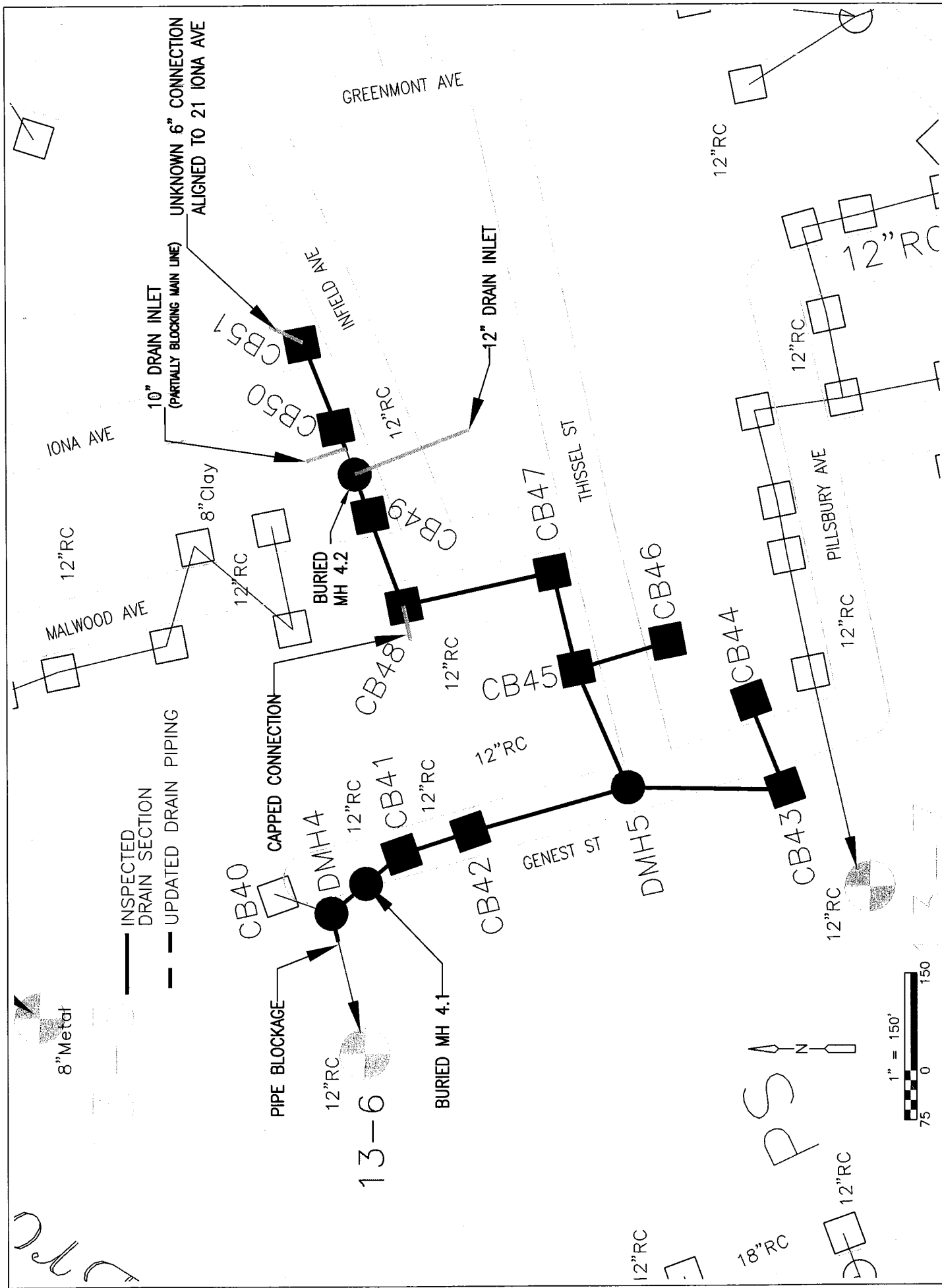
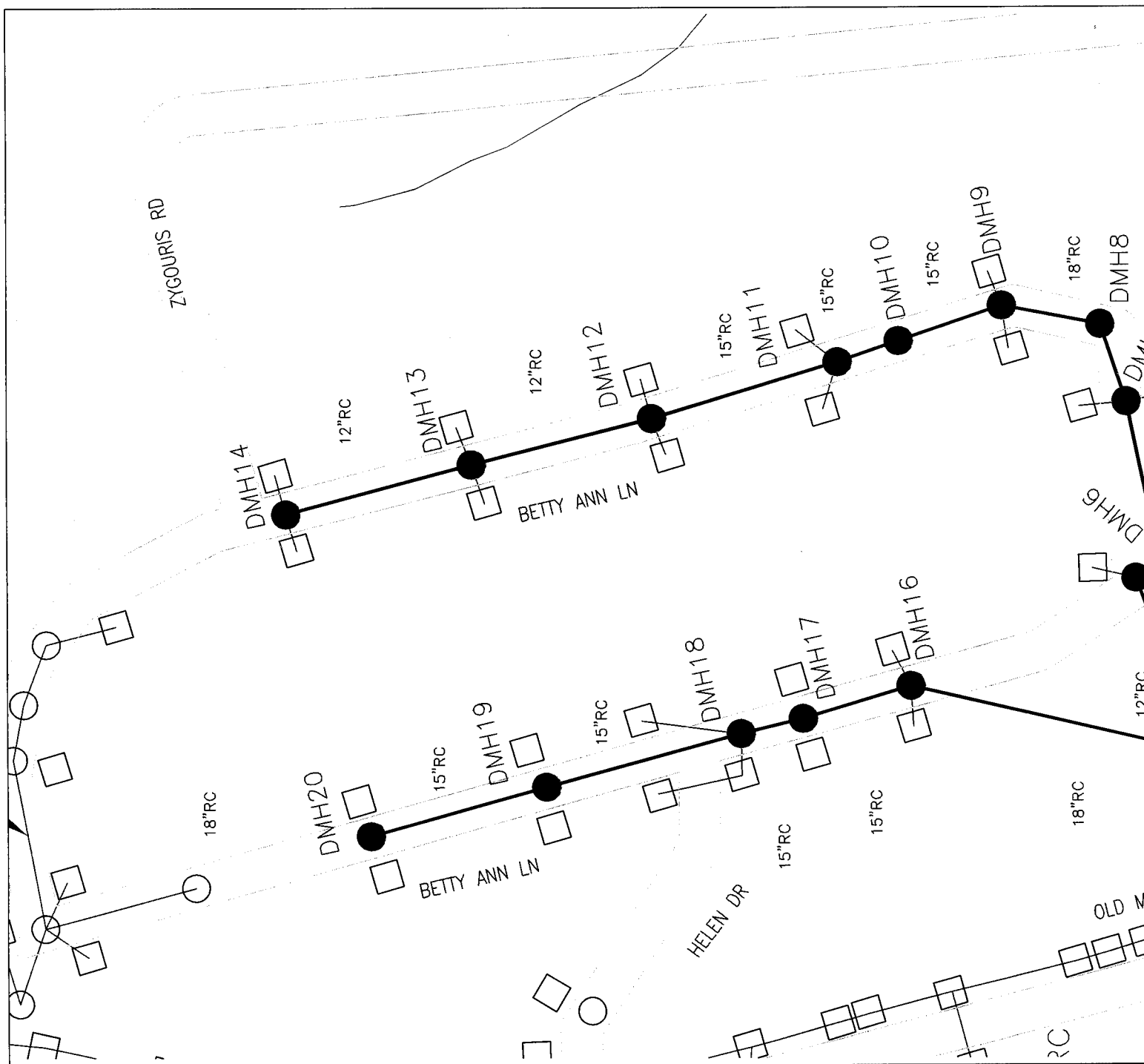


FIGURE 4: GENEST STREET - OUTFALL 13-6



DRACUT BOARD OF HEALTH

Memo

To: Glen Edwards, Assistant Town Manger/Town Planner
From: Tom Bomil, Director of Public Health
Date: March 2, 2009

Re: Drainage Inspections/Illicit Discharges

This report is a follow-up to a report which was submitted to me and copied to you from CDM regarding drainage inspections which were conducted in September of 2008.

I have followed up on all areas inspected by CDM with these findings:

1. Nottingham Road-Outfall 6-17

As stated in CDM'S report, there were no illicit connections found. No signs of solids or other sewer like material. CDM recommends that the Town periodically monitor any possible fecal coliform counts from this outfall. I would suggest that it be tested once a year if funding is available. Whether this is to be done by the Town or CDM will have to be determined. Also inspection of any downstream pipes not inspected by CDM at this time should be done in the future.

2. Genest Street-Outfall 13-6

As stated in CDM'S report there were three unknown connections which need to be investigated. One was at CB-51 located at the corner of Iona and Infield Ave. The second was located at between the properties on Iona and Malwood Ave. and the third was between CB-49 and CB-50. Inspections were made in the homes at 12, 20, 22-24, and 30 Infield Ave. to check for any possible illicit discharges and none were found. Also the home at 7 Iona Ave. for the same reason and nothing was found. All these homes were connected to municipal sewer except 14 Infield Ave. and that septic system seems to be functioning properly. As stated above CDM recommended that we monitor Outfall 13-6.

3. Christy Ave.- Outfall 12-4

Again, as stated in CDM'S report there was no evidence of sewerage material visible at this outfall. They did detect two unknown connections one was a two inch pipe (2") aligned towards 27 Stephen Ave and the other towards 41 Christy Ave. Both pipes were flow tested and neither showed any illicit discharges. Due to odor it was recommended that the Town periodically monitor fecal coliform counts from outfall 12-4 and the catch basins on Stephen Ave. and Christy Ave.

4. Newton Ave.-Outfall 10.6

There was no evidence of sewerage material found around this outfall. The television inspection did identify a two inch (2") pipe which was aligned to 21 Newton Ave. An inspection was conducted by this department at this residence and this pipe was disconnected. It may have been used before for a sump pump but is not in use now.

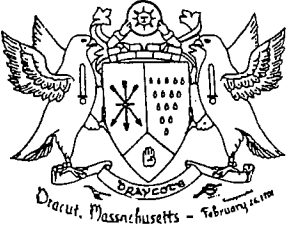
5. Betty Ann Lane-Outfall 14-21

No illicit connections found. This subdivision was built in the late 80's and has had municipal sewer since day one. No signs of sewer material were visible at the outfall.

In summery CDM recommended that all outfalls be periodically tested for fecal coliform and that the catch basins on Stephen Ave. and Christy Ave. be tested also.

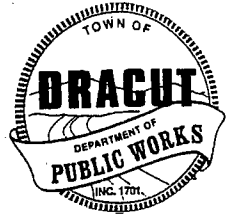
It will have to be determined whether CDM or the Town does this testing, pending if funding is available.

c.c. Mike Buxton



Department of Public Works

833 HILDRETH STREET
DRACUT, MASSACHUSETTS 01826



MICHAEL R. BUXTON
PUBLIC WORKS DIRECTOR

TEL. (978) 957-0411

December 10, 2008

FAX. (978) 957-9313

email: dpw@dracut-ma.us

Dennis Piendak
Town Manager
62 Arlington Street
Dracut, MA 01826

Re: Stormwater Utility Feasibility Study

As previously reported, the Town is required to comply with the Environmental Protection Agency's (EPA) National Pollution Discharge Elimination System (NPDES) and Stormwater Phase II Regulations as part of the Federal Clean Water Act. The Town began implementing the elements within the plan in order to comply with the State and Federal requirements. The Town's Stormwater committee identified a Stormwater Utility as one means of developing a long term funding source for Stormwater management.

With the present downturn in the economy and pending reductions in local aid to the community, creating a new revenue stream to support all direct and indirect costs associated with stormwater activities could reduce present line item expenditures funded from the General Fund.

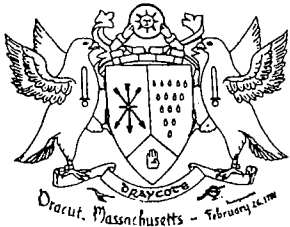
A feasibility study will determine the most equitable and effective framework to develop a funding source to address and meet the funding requirements of the Town's NPDES Permit.

If you have any questions please call me.

Sincerely,

Michael R. Buxton
Public Works Director

cc: Glen Edwards - Assistant Town Manager
Mark Hamel - Town Engineer



Department of Public Works

833 HILDRETH STREET
DRACUT, MASSACHUSETTS 01826



MICHAEL R. BUXTON
PUBLIC WORKS DIRECTOR

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February 17, 2009

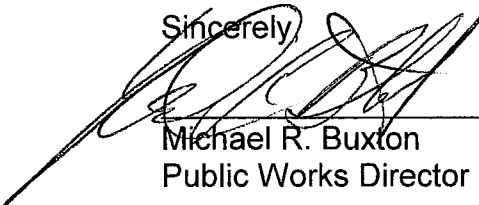
Glen Edwards
Assistant Town Manager
62 Arlington Street
Dracut, MA 01826

Re: Stormwater Feasibility Study

Enclosed is a proposal from Vanasse Hangen Brustlin, Inc. to provide consulting service to the Town for the completion of a Stormwater Feasibility study.

I would like to schedule a meeting with you and Mark Hamel to discuss this proposal.

Sincerely,



Michael R. Buxton
Public Works Director

cc: Mark Hamel - Town Engineer

Memo

To: Dennis Piendak
From: Glen Edwards *G.E.*
Cc: Michael Buxton, Mark Hamel
Date: 3/4/2009
Re: Proceeding with a Feasibility Study Regarding the Creation of a Stormwater Utility

Dracut's 2008 Stormwater Report stated that the Town has been exploring the concept of creating a separate stormwater utility. The DPW had prepared a request under the FY2008 budget to fund a feasibility study to evaluate this concept, but the study was not funded due to the Town's FY2008 financial constraints. The report further stated that this process is likely to continue in future years.

This memo is intended to provide you with additional information as to what such a feasibility study will entail.

Members of the Stormwater Committee met today after having reviewed a proposal (attached) from Vanesse Hangen Brustin, Inc. (VHB) to provide consulting service to the Town for the completion of a Stormwater Feasibility Study.

At the meeting concerns were raised that it might be a waste of funding to perform the study if there is little or no support among town leadership. Although sentiment was also expressed that whatever costs associated with the operation of a sewer utility are costs that are and would be paid for through general fund expenditures. Consolidating these expenses in a single agency will make it easier to track and to account for the true costs of complying with the Federal stormwater mandate.

The proposed contract is for \$27,000.

The Scope of Work for this Amendment is inclusive only of those tasks herein specified. Should work be required in other areas, VHB will prepare an appropriate proposal or amendment, at the Town's request, that contains the Scope of Work, fee, and schedule required to complete the additional work items. The following services are specifically not included in this Scope of Work:

- Any and all services resulting from the change of assumptions used by VHB to develop the scope and fees presented herein.
- Engineering services or any consulting related to the design or implementation of stormwater management systems in the Town.

- Estimation of existing Town Budgets

As an associated cost, there is an assumption that Town Counsel will be "actively involved in the Feasibility Study.

It is the consensus of the stormwater team that a separate utility is a prudent and responsible way to fund the associated activities required by Dracut's National Pollution Discharge Elimination System (NPDES) Permit.

- Continuation of services at the Council on Aging, including an expanded SHINE program, Veteran's Breakfasts, File of Life Program, and Legacies Programs;
- Continuation of Sealer of Weights and Measures Services under contract with NMCOG;
- Continuation of the Senior Volunteer Rebate Program at 50 participants;
- Continuation of semi-annual billing for sewer bills and Kenwood Water bills and associated postage cost increases;
- Continued increased costs for petroleum products – gasoline and oil;
- Continuation of the Mosquito Control Program;
- Execution of a new three year trash collection contract;
- Allowance for a 2.1% increase in trash disposal costs (\$1.50) per ton offset by a decrease in tonnage;
- Following a multi-jurisdiction regional procurement, execution of a trash disposal contract beginning July 1, 2010 at a rate of 9% below current costs;
- Continue the expanded Council-on-Aging bus operating hours;
- Continue the Recreation Department's successful nature camp;
- Initiate, if funding is available, a study to implement a Storm water Utility as called for by EPA and NPDES requirements;
- Continue the successful CERT program;
- Continuation of the continued bus service at the Council on Aging;
- A multi-year program if funding allows to repair/renovate sidewalks along Pleasant Street from Lakeview Avenue to Bridge Street;

In the Stabilization Fund (from Equipment Reserves):

- Maintenance of Equipment Reserve Schedules with specific purchases in FY10;

In the Kenwood Water Fund:

- Initiation of a meter replacement project;

Sediment Control Checklist

Please provide documentation on the following:

LOCATION:

- ☐ EXACT ADDRESS, BOOK, MAP, LOT
- ☐ BUFFER OR NON-BUFFER ZONE WORK
- ☐ STORM SEWER SYSTEMS (DRAINS, GUTTERS, PIPES, ETC)
- ☐ DRAINAGE (EXISTING AND PROPOSED)

SIZE

- ☐ DISTURBING 1+ ACRES
- ☐ DEVELOPMENT OR REDEVELOPMENT
- ☐ INCLUDE ALL TYPES OF CONSTRUCTION
- ☐ NO EXEMPTION FOR SMALL RESIDENTIAL PROJECTS

PROCEDURE

- ☐ PLAN REVIEW

REVIEW BY WHICH BOARDS

INCLUDE IN PLANS:

EXISTING CONDITIONS
PROPOSED CONDITIONS
EROSION CONTROL
STORM WATER MANAGEMENT
LANDSCAPING
DETAILS

- ☐ INSPECTIONS (BY TOWN- APPROVED CONSULTANT)

ALL SITES OVER 1 ACRE
DURING/AFTER RAIN STORMS
PRE-CONSTRUCTION
DURING CONSTRUCTION
POST CONSTRUCTION
SELF INSPECTIONS:

DAILY
WEEKLY REPORTS
WITHIN 24 HOURS OF STORM

- ☐ PUBLIC INPUT (TO WHOM)

BMP's (BEST MANAGEMENT PRACTICES)

- EROSION AND SEDIMENT CONTROL
 - INSTALL BEFORE ANY CONSTRUCTION
 - INSPECTION
 - MAINTAIN DURING CONSTRUCTION
 - MINIMIZE CUT AND FILL
 - STEEP SLOPE PROTECTION
 - WINTER CONSTRUCTION PROTECTION
- PERMANENT RUN OFF
 - NO FLOODING OR EROSION ON ABUTTING LAND
- DISPOSAL OF WASTE PRODUCTS AND CONSTRUCTION DEBRIS
- LONG TERM OPERATION AND MAINTENANCE OF BMP's
 - WHO WILL PERFORM O+M
 - WHO HAS ACCESS AND EASEMENTS
 - SCHEDULE OF O+M
 - AS BUILT DRAWINGS AND SIGNED MANUAL

What are Wetlands?

Wetlands are areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year, including the growing season. Wetlands are natural areas and are the collective term for marshes, swamps, bogs and area found in generally flat vegetated areas, in depressions in the landscape and along the edge of streams and rivers. Sometimes it is easy to see the water in a wetland, other times the wetness lies just below the surface of the soil, where the plant roots grow. Wetlands have many different appearances, plant mixtures and locations. It is very easy to confuse protected wetlands from land that is wet.

Wetlands can be found in nearly every county and climatic zone in the United States. Very important wetland systems exist in Dracut, possibly even in your neighborhood or on your property.

Why are wetlands important and valuable to people?

Wetlands are a vital link between water and land and are among the most productive ecosystems in the world, playing a major role in natural functions that have value to humans.

- ♦ Wetlands improve water quality by absorbing and filtering out pollutants before it reaches lakes, streams or ground water.
- ♦ Wetlands store floodwaters, acting like a natural sponge and slowing down the force of flood and storm waters as they travel downstream.
- ♦ Wetlands offer habitat for wildlife; including birds, fish, and other mammals during part of their life cycle.
- ♦ Wetlands provide valuable open space and create wonderful recreational opportunities. Hiking, photography, bird watching, painting are among the few.

Over half of America's original wetlands have been destroyed or lost due to agricultural drainage, development and other human activities, or used to dispose of household and industrial waste.

Consider yourself lucky! You could be living next to a botanical garden, a wildlife refuge and a water storage area.

How are the wetlands protected?

The federal, state and most local governments have tools in place to protect wetlands. Wetlands are protected by the Clean Water Act (Section 404), Massachusetts Wetland

Protection Act (G.L. c.131,s.40), Wetland Regulations (310 CMR 10.00), and the Dracut Wetland By-law.

What can I do? How can I protect my wetlands?

Despite the efforts of government agencies and private conservation organizations, wetlands continue to be degraded or destroyed. By becoming involved and educated about "your wetlands", you will be able to have a significant impact on saving and protecting them.

- ♦ Find the wetlands that exist near your home. Many of you have wetlands on your property.
- ♦ Check for any specific deed or easement restriction on your property. You have a legal obligation to protect the wetland if it is on your property. Cutting, dredging, altering, filling, dumping of clippings, adding or deleting certain plant species or changing water levels is prohibited.
- ♦ To avoid unintentional damage or legal complications, do research before taking any action. Contact the Dracut Conservation Office with any questions.
- ♦ Encourage your neighbors to protect the wetlands as well and report any violations to the Dracut Conservation Office.

Thank you for taking the time to read this and for taking steps toward understanding the wetlands in your neighborhood. We hope that this has given you some insight for living in harmony with and protecting the wetlands and natural environment in your neighborhood. Please share this with your neighbors for a wetland-friendly community.