

# Private Property Building Inspections

And Other Field Work

for

Contract 3

Granby Street Area Sewer Separation

Community Outreach Meeting

March 2, 2011



# Why is there a Clean Water Project?

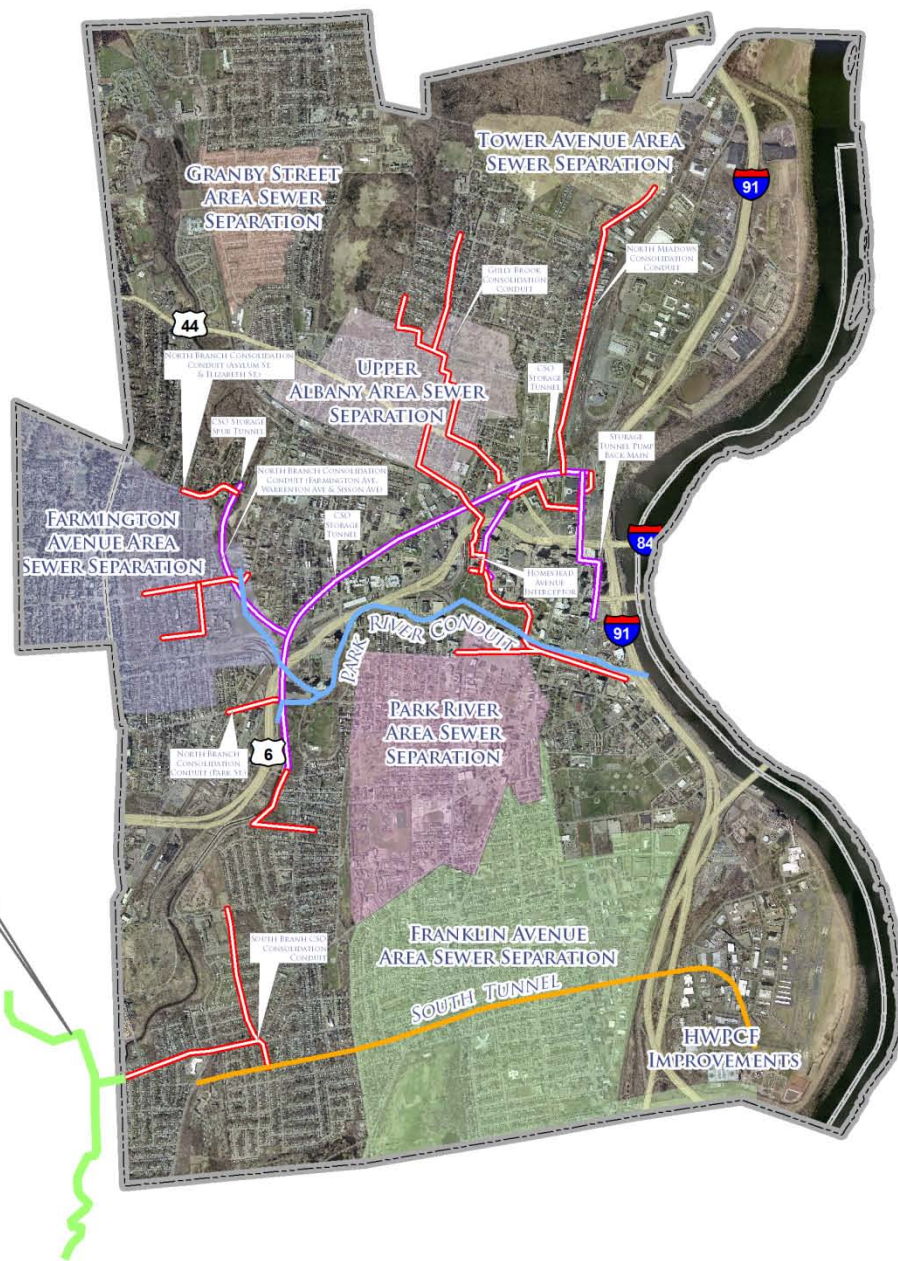
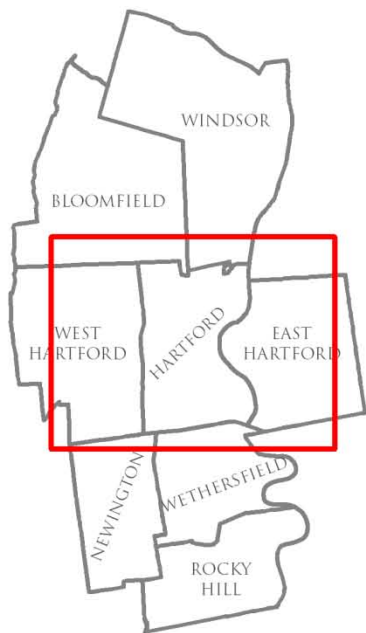
- **To stop 1 billion gallons of sewage from leaving the MDC sewer system during a typical year's rainfall events**
  - Consent Decree from the U.S. Environmental Protection Agency
  - Consent Order from the CT Department of Environmental Protection
  - In 2006, MDC customers voted to approve an \$800 million referendum to begin Phase 1 of the Clean Water Project (CWP)
- **Main Goals**
  - Eliminate Sanitary Sewer Overflows (SSOs)
  - Reduce Combined Sewer Overflows (CSOs)
  - Reduce the amount of combined sewage that enters the Connecticut River and Local Waterways
  - Reduce the amount of Nitrogen released into the CT River

# What is the Clean Water Program?

## MDC's Sewer System Master Plan

- Hartford has Six (6) Sewer Separation Areas
  - Granby Street Area – 5 Contracts
    - Granby 1 – Currently in Design
    - Granby 2/5 – Currently in Construction
- New Interceptors & Conduits
  - Convey Captured Overflows
- Treatment Plant Upgrades
  - Increase Capacity & Reduce Nitrogen
- Tunnels
  - Increase Conveyance & Storage Capacity

# CSO LONG TERM CONTROL PLAN



## EXISTING INFRASTRUCTURE

- Park River Conduit
- SSO Consolidation Pipe
- South Tunnel

## PROPOSED INFRASTRUCTURE

- Consolidation Conduit
- Tunnel



1 INCH = 5,000 FEET





# Granby #3 Project Area

## Legend

### Project Extents

-  Granby #3
-  Other Granby Projects

### Manhole

-  Combined
-  Partially Separated

### Sewer Mains

-  Combined
-  Partially Separated

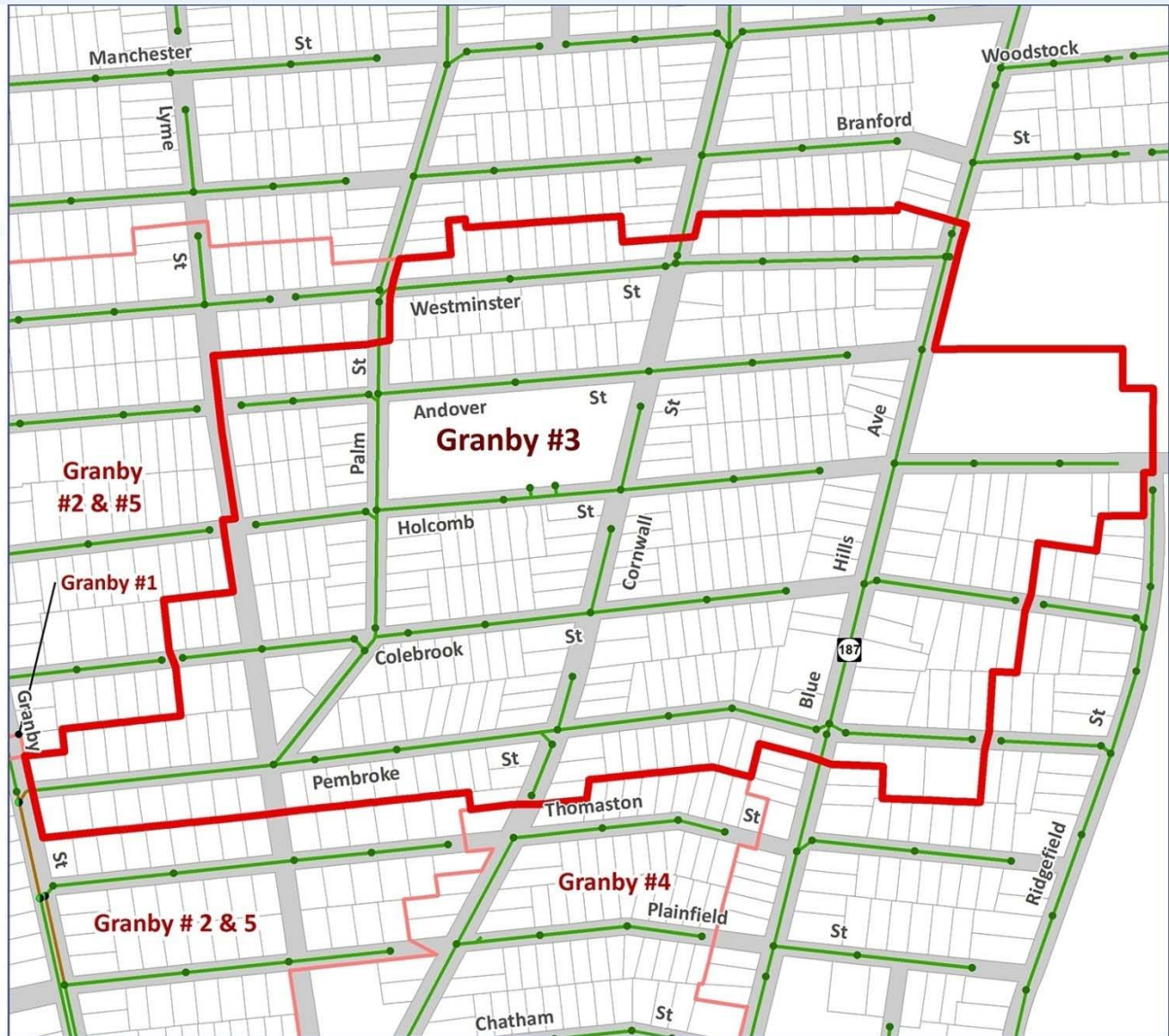


200 0 200 Feet

1 inch = 400 feet



MDC **Clean Water Project**  
the choice is clear  
Map Produced by MDC GIS Services



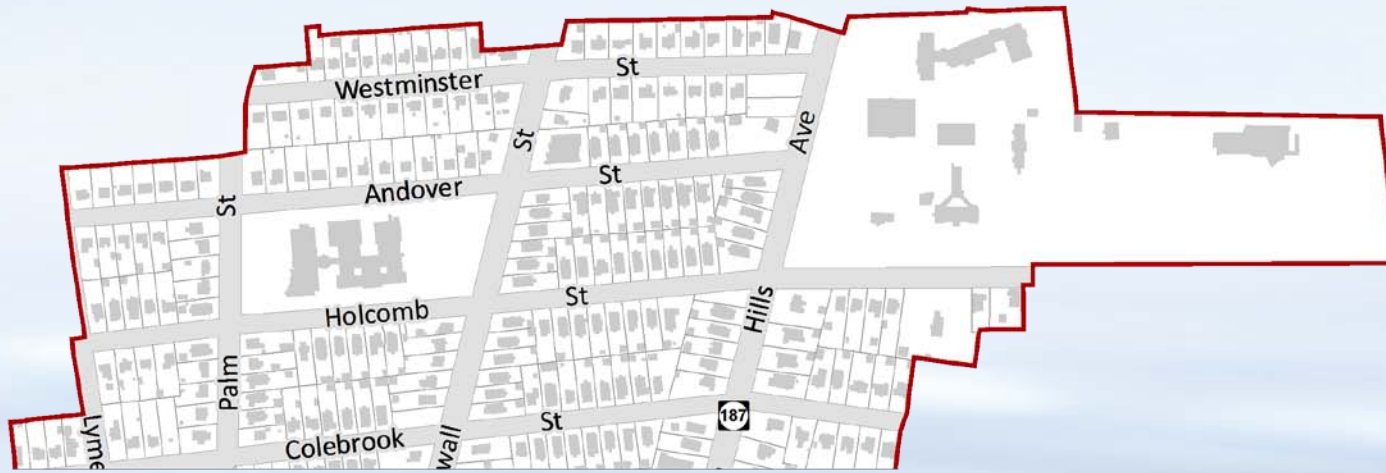
# Granby 3 Project Location

## Contact Information

Carla Williams  
Blue Hills Civic  
Association  
Outreach Liaison  
(860) 769-3854

**Building Inspections  
Tighe & Bond - Savin  
Engineers  
(860) 704-4760**

Neil H. Amwake, P.E.  
The Metropolitan District  
Project Manager  
namwake@themdc.com  
(860) 278-7850 Ext. 3438



### Clean Water Project and Granby Street Area Goals

- To significantly alleviate sewage backups into basements and to reduce street flooding
- To eliminate, to the extent possible, private inflow sources
- To reduce CSOs discharge to the Park River

### Granby Street Area Key Statistics and Goals

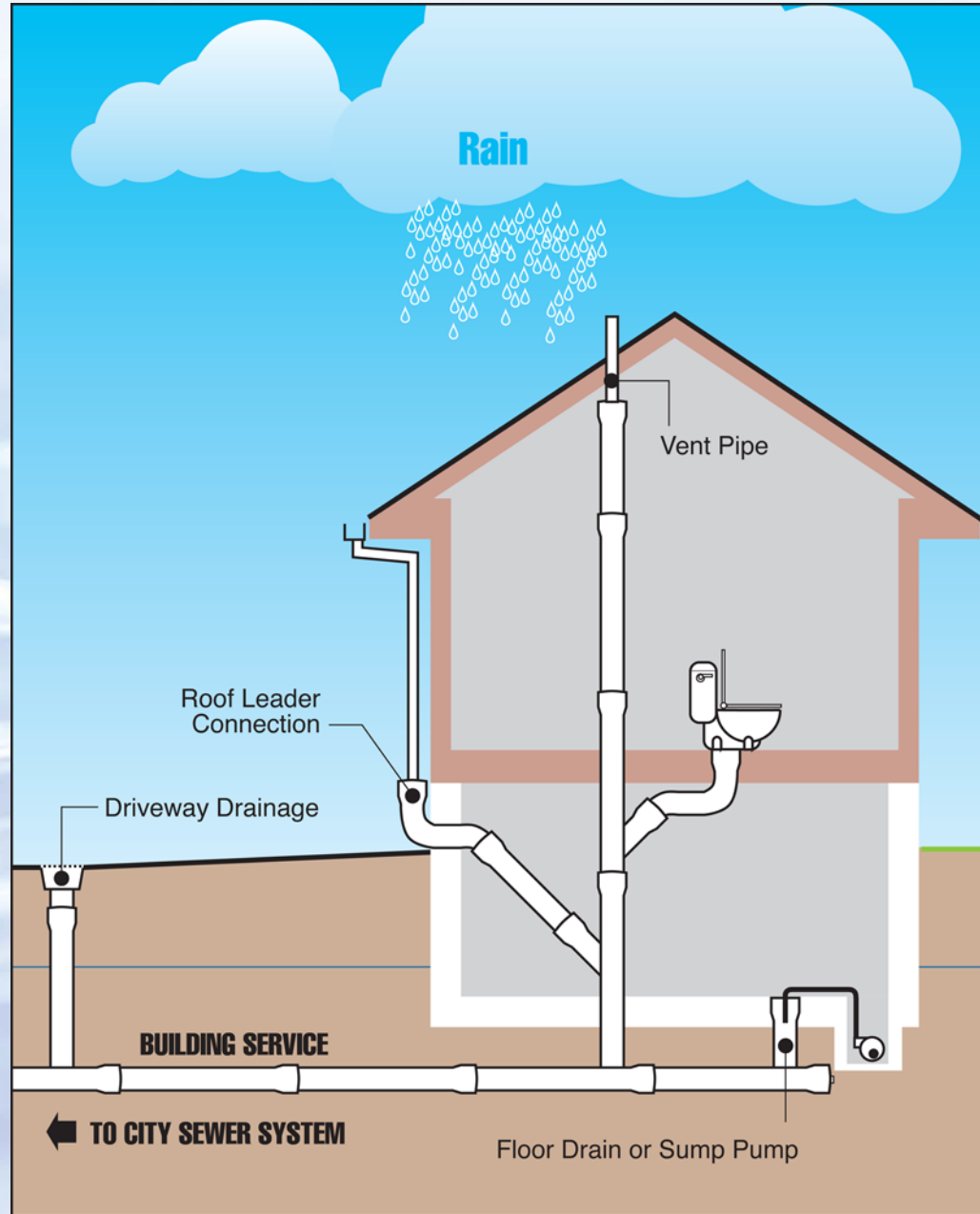
- 215 acres in northwest Hartford
  - 350 acres tributary to the Granby Street Area
- 45,195 lf of Sanitary Sewers, Storm Drains and new Combined Sewers
- 5 Primary Contracts
- 752 buildings, including 2 schools
- 2 Overflow Structures: N-2 and N-4

### Contract 3 – Sewer Separation Project

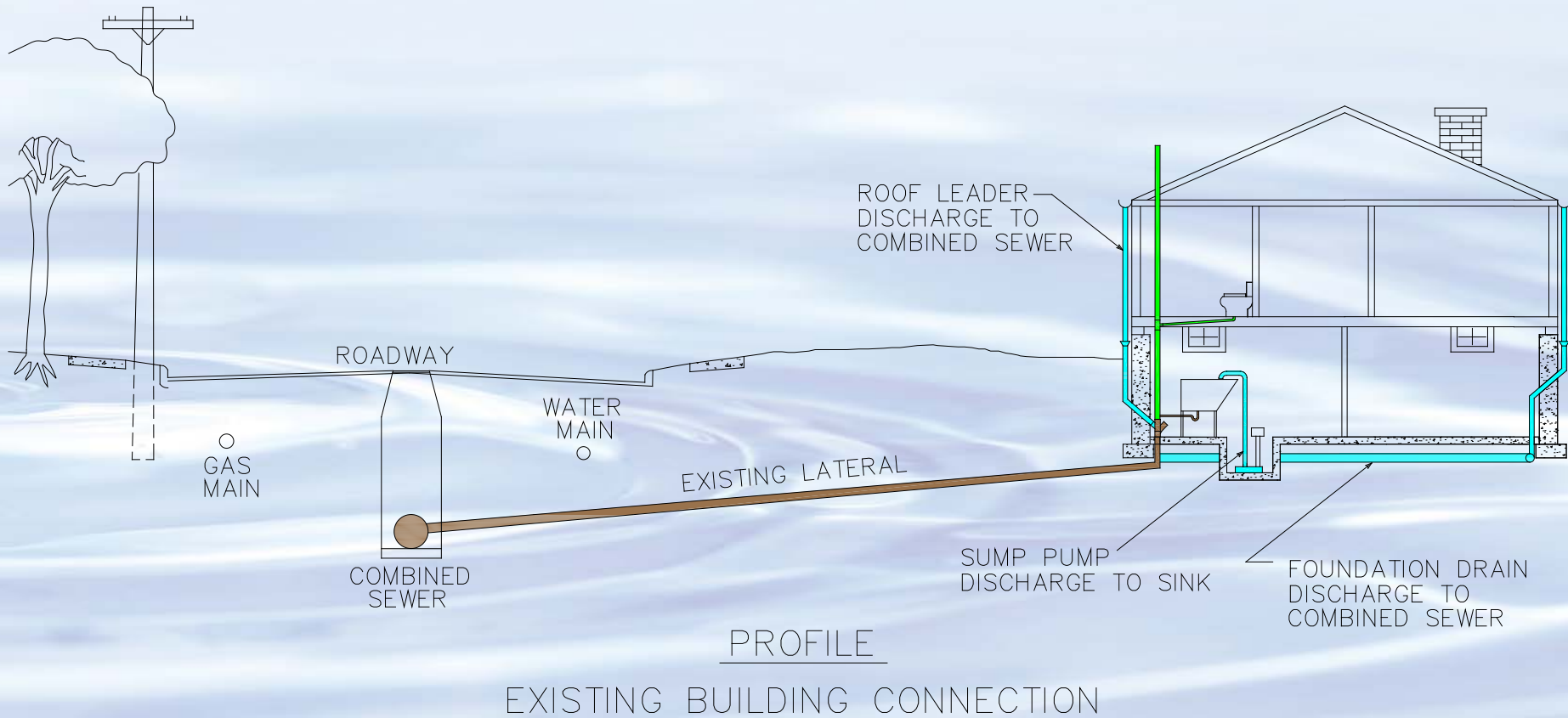
- Project Cost: Approximately \$31.3 Million (\$2010)
- 16,500 lf of Sanitary Sewer & Storm Drain
  - 8" to 42" Diameter
- 11,600 lf of Water Main
- 315 Buildings
- 13,500 CY of Rock Excavation



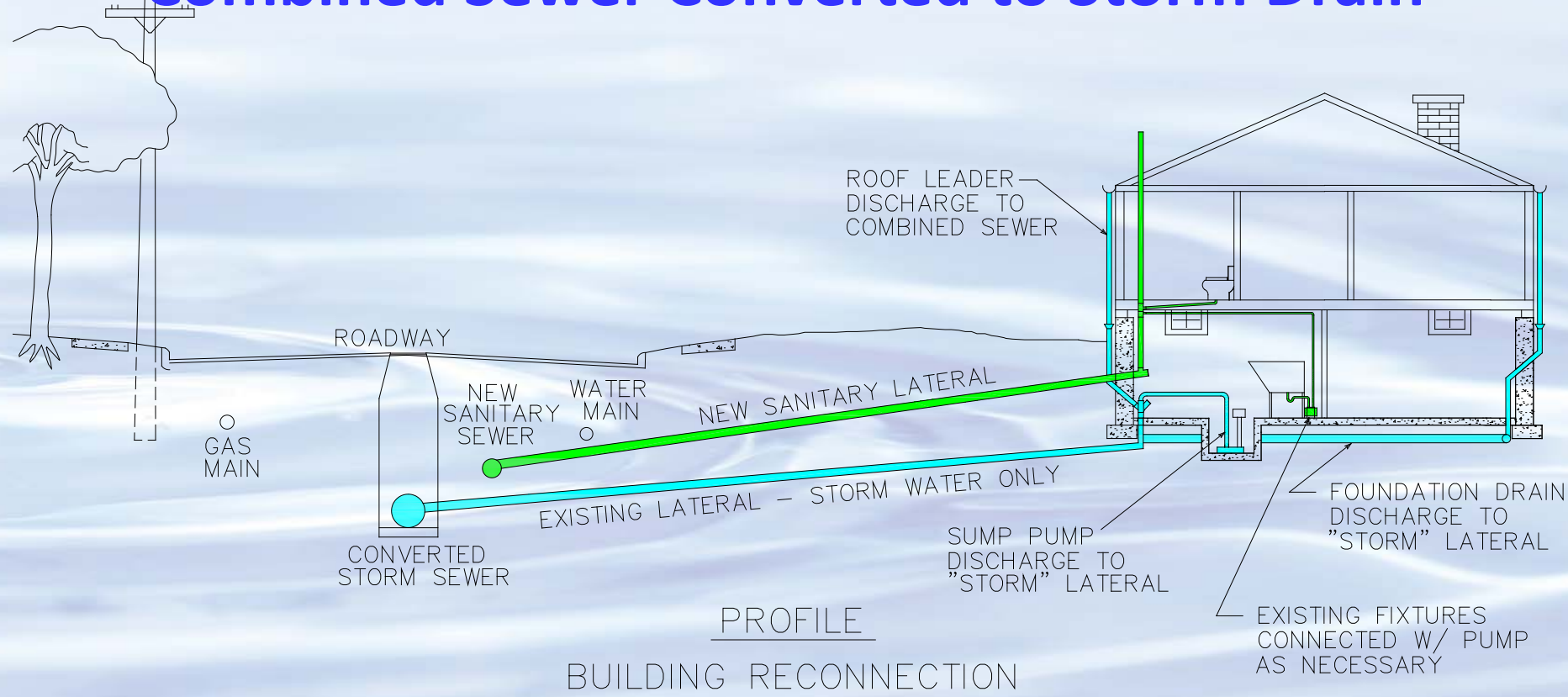
# Typical House Connection



# Typical / Existing Building Connection



# Typical Sewer Separation New Sanitary Sewer Combined Sewer Converted to Storm Drain



# Building Inspection Procedure

1. General information mailer to homeowners and residents
2. Community meeting
3. Conduct inspections: photos and measurements
  - a. Document exterior features (i.e. yard drains, roof leaders & other features impacted by the work)
  - b. Document interior plumbing (i.e. sump pit, cleanouts, waste lines, rain leader piping, fixtures and other features impacted by this work)
4. Appointments with residents when necessary
5. 3 or more attempts to access property



Note: 30 to 60 minutes (hours: 8am to 6pm ), 1 to 3 member crews with MDC identification badges – Savin Engineers, Inc.

# Granby Street Contract 3 Building Inspection Schedule for April 2011

## Monday April 4 to Thursday April 21, 2011

- Mondays 9:00 a.m. to 8:00 p.m.
- Tuesdays 8:00 a.m. to 8:00 p.m.
- Wednesdays 8:00 a.m. to 8:00 p.m.
- Thursdays 8:00 a.m. to 5:00 p.m.

## Friday April 22 and Saturday 23, 2011

- Friday 8:00 a.m. to 8:00 p.m.
- Saturday 8:00 a.m. to 5:00 p.m.

## Wednesday April 27 and Thursday April 28, 2011

- Wednesday 8:00 a.m. to 8:00 p.m.
- Thursday 8:00 a.m. to 5:00 p.m.

## Friday April 29 and Saturday 30, 2011

- Friday 8:00 a.m. to 8:00 p.m.
- Saturday 8:00 a.m. to 5:00 p.m.

# Typical Rain Leader into Ground



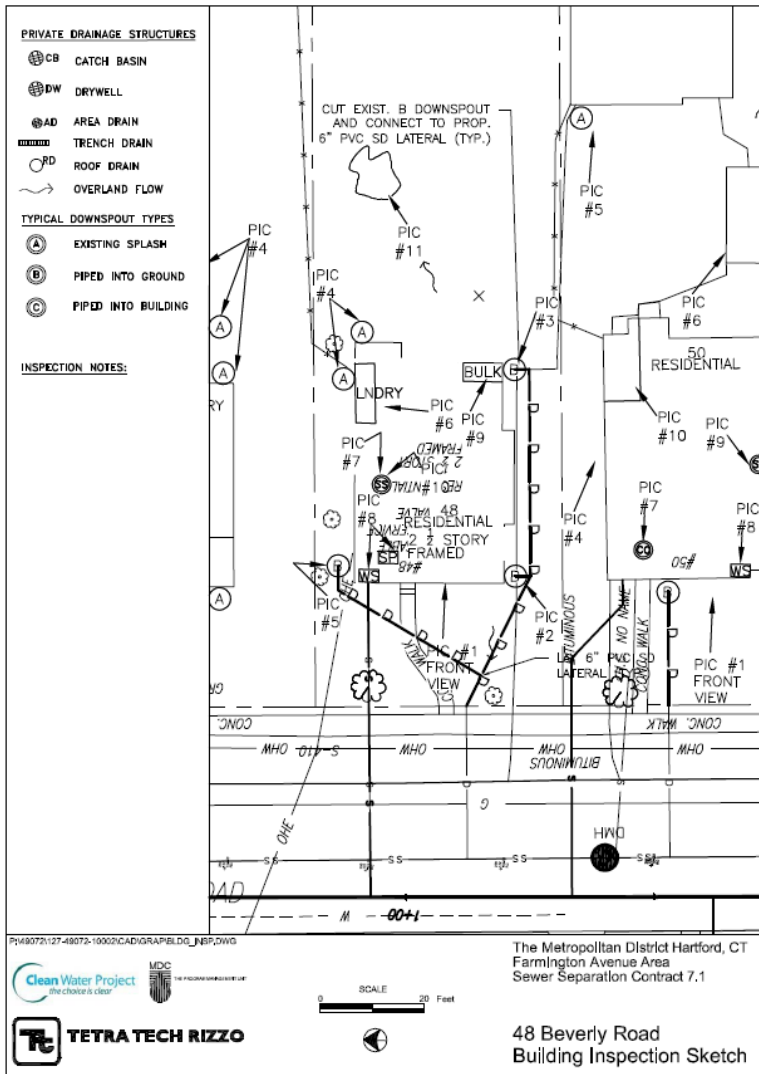
# Typical Rain Leader Through Wall



# House Inspection – Interior Rain Leader Piping



# Basement Survey



Address: 48 Beverly Road

## B. Internal House Inspection

Basement:  Y  N Finished:  Y  N Water in Basement:  Y  N

Basement Floor: **CONCRETE DIRT**

Fixtures in Basement: Sink 1 Toilet          Bath/Shower          Laundry 1  
Other None

Backwater Valve:  Y  N If yes, Functional:  Y  N **UNDETERMINED**

Potential Surcharging  Y  N (determined by inspector)

(See Sketch Below)

Sill to Floor Measurement 71

Sanitary Service  Y  N

Sanitary Pipe exits house through: **WALL FLOOR**

Sanitary Pipe Size: 4" inches Sill to Invert Measurement:         

Discharge Location:         

Drain Pipe  Y  N

Drain Pipe exits house through: **WALL FLOOR**

Drain Pipe Size:          inches Sill to Invert Measurement:         

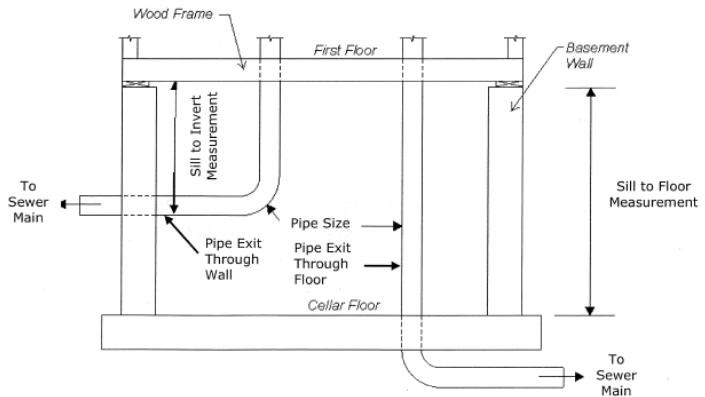
Discharge Location:         

Combined Pipe  Y  N

Combined Pipe exits house through: **WALL FLOOR**

Combined Pipe Size:          inches Sill to Invert Measurement:         

Discharge Location:         



# Schedule for Field Work In Your Neighborhood

## Design Services

- Building inspection (April – May)
- Survey in the roadway and front yards (April - June)
- Exploratory drilling in the public right of way (April – June)
- Inspections of the manholes and catch basins (May - June)
- Cleaning and televising of the sewer pipes (March - May)

These field activities will be conducted throughout the Granby 3 project area and should be completed by June 2011.

# Contact Information

## Scheduling Building Inspection Appointments

**Scheduling Hotline at (860) 704-4760**

**Tighe & Bond - Savin Engineers**

### Public Outreach

#### **Outreach Liaison Group:**

Blue Hills Civic Association

Carla Williams

Office: (860) 769-3854

Mobile: (860) 816-7836

### The Metropolitan District

Main Number

(860) 278-7850

Neil H. Amwake, P.E., Project Manager

(860) 278-7850 Ext. 3438

Greg Robertson, Special Services Administrator

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