



### **South Water Street Pump Station Force Main**

The Greenwich Department of Public Works (DPW) Sewer Division owns and maintains the South Water Pump Station (SWPS), located on South Water Street between Chinmoy and Hervey. The SWPS receives sewage by gravity from the central and northern parts of Byram, as well as the Byram shore area. The SWPS transfers the sewage through a 4,400 foot long 10" force main (a pipe carrying wastewater under pressure), running up Water Street to New Street, and then to Henry Street. The force main discharges to a sanitary sewer manhole at the top of Henry Street approximately 150 feet north of its intersection with Byram Ave. Wastewater flows by gravity from this point to the Grass Island Wastewater Treatment Plant.

In 1999, a portion of the original cast iron force main installed in the mid 1960s (the first 1,250 feet beginning at the pump station) was replaced with PVC pipe, given concerns over that section's condition. Because of its age, the DPW plans to replace the remaining cast iron portion with PVC pipe this summer. The project is currently out to bid, with bids due on 14 May 2008.

Approximately 3,150 feet of force main will be replaced, beginning just north of Interstate Lumber on South Water Street all the way to its discharge point on the upper end of Henry Street. The force main route is shown in Figure 1 (attached).

SWPS flow must be maintained during construction. To accomplish this, a new main generally parallel to the existing main will be installed. When the new main is in and complete, the existing main will be abandoned in place. Given the numerous buried utilities under South and North Water Streets, as well as site logistics, construction will be complex.

### **Water Street Area Construction Plan**

The construction plan is to install the new main by proceeding up Water Street (in the southbound lane) to New Street. Water Street work will be performed between the hours of 9 AM and 5 PM in accordance with town policy for this area, on business days. Work should begin after school is out in late June 2008. Our goal is to see the Water Street work completed and the road fully opened before school starts again in late August; however, much will depend on the contractor and actual conditions found underneath Water Street. This schedule is intended to avoid impacting school bus traffic and to take advantage of somewhat lower summer traffic levels.

The work is planned to be limited to one lane, to avoid road closure. We have reviewed our traffic plan with the DPW Traffic Engineering Division and with the Police Department. Town Police and work flagmen (if needed to augment police staff) will control traffic, providing alternating two-way traffic around the work area. We anticipate the work area length to be approximately 100 to 150 feet at any given time. The work area will be secured each evening, with plating placed over any open trench section so that the road will be fully passable for normal two way traffic each night. Our project team will work with residents along the route to address driveway and parking lot access. We will communicate our route and schedule to affected parcels as the contractor will be laying pipe in front of driveways making access temporarily unavailable. Every effort will be made to minimize disruption to local residents, business owners and patrons.



This project also includes full road restoration - full curb-to-curb milling and paving prior to final completion. To meet Town paving requirements, we must allow work trenches to settle. As we anticipate wrapping up the force main installation in the fall, and as paving cannot be done in the winter, we expect paving to be performed in Summer 2009. We will again schedule the work to avoid conflicts with school bus traffic.

### **New Street to Henry Street Area Construction Plan**

Once the Water Street pipe installation is complete, the work will progress up New Street and Henry Street to the discharge point on upper Henry Street. The work will be in a single lane and police, flagmen, signage and other requirements will be the same as those for Water Street. Working hours on New and Henry Street will shift to 7AM to 5PM in accordance with standard town policy for these streets. The road will be reopened each night to two-way traffic.

We will also be replacing 4 existing manholes on upper Henry Street, downstream of the force main discharge. To do this work, flow must be bypassed around these structures, which will be done via a temporary force main extension and small pumps to handle the few homes in the affected downstream area. The temporary force main extension will be installed along the side of the road beginning on Henry Street approximately 50 feet north of the intersection with Byram Avenue and extending approximately 650 feet north to an existing manhole.

We do not expect to interrupt residents sewer service during this work. However, during such work, we do appreciate any water conservation measures residents can take – such as saving that load of laundry for the evening! Our project team will work to communicate our work activities in this area to residents as the project progresses.

Upon replacing the manholes, the final permanent section of the new force main will be installed. Once this section is in place and fully operational, the temporary extension section will be removed and the areas affected restored as appropriate. Along the new force main route, New and Henry Streets are also to be milled and paved curb to curb upon the completion of work and appropriate trench settlement period. This paving is planned in conjunction with that on Water Street for the summer of 2009.

### **Den Lane Pump Station Force Main and Construction Plan**

As part of this project, we are also planning to replace the Den Lane Pump Station force main. This main extends from the pump station at the bottom of Den Lane up to its discharge point on Pemberwick Road. Construction will be similar to that for South Water – with traffic control and work hours in accordance with town standards. Our project team will coordinate with residents on driveway access, communicating our project schedule. This main is much shorter – approximately 380 feet – and on a quiet side street, which will make construction easier. This work is to be started upon completion of the South Water Street force main.

**We appreciate everyone's cooperation to help us complete these important force main installations and thank all for their patience.**

Visit us at [www.greenwichct.org/sewer](http://www.greenwichct.org/sewer) or email at [sewer@greenwichct.org](mailto:sewer@greenwichct.org) - thanks!

FIGURE 1

# South Water Forcemain Replacement Route

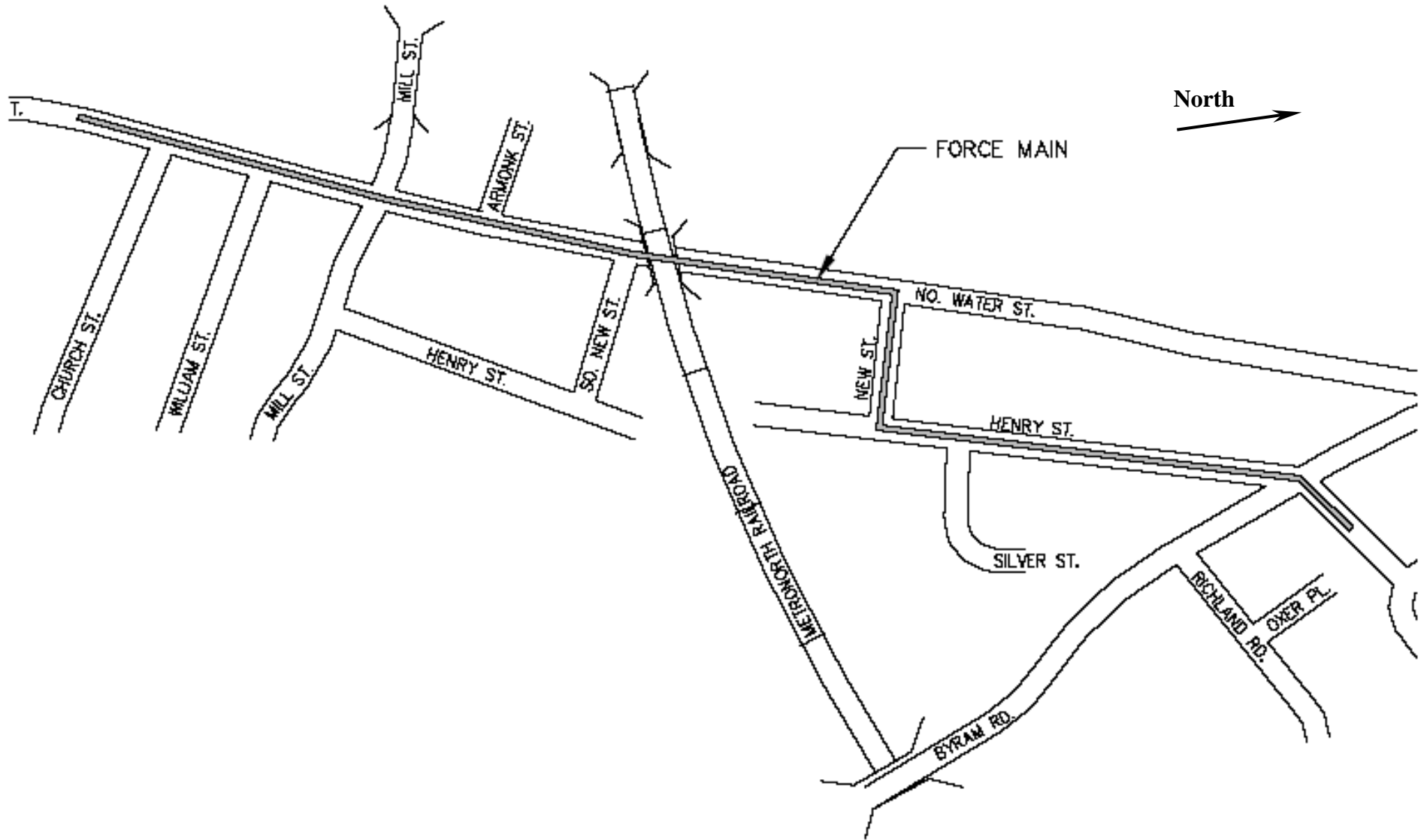


FIGURE 2

# Den Lane Forcemain Replacement Route

