

# Colonial Pines Sewer Extension – Phase 2

## Public Information Meeting

Rochester, NH  
Tuesday March 26, 2019



City of  
**ROCHESTER**  
New Hampshire



**S.U.R. CONSTRUCTION, INC.**

SITES • UTILITIES • ROADS

# Introductions – City of Rochester

- Public Works Director – Peter Nourse
- Mike Bezanson – City Engineer
- Tim Goldthwaite – Asst. City Engineer

Please sign in and provide e-mail and phone numbers to streamline communication.



Be sure to indicate desire to connect to new sewer system

# Agenda

## Typical Sewer Main Installation

### 1. Introductions

- Underwood Engineers

### 2. Background

### 3. S.U.R. Construction, Inc.





# Agenda

4. Construction Sequencing/Operations

5. City Ordinance

6. Private Property Sewer Service

7. Approximate Service Construction Costs



Sewer service installation below existing deck

# Introductions – Underwood Engineers

- Dan Rochette – Project Manager
- Tim Noble – Project Engineer
- Keith Noyes – Resident Project Representative

# Project Background

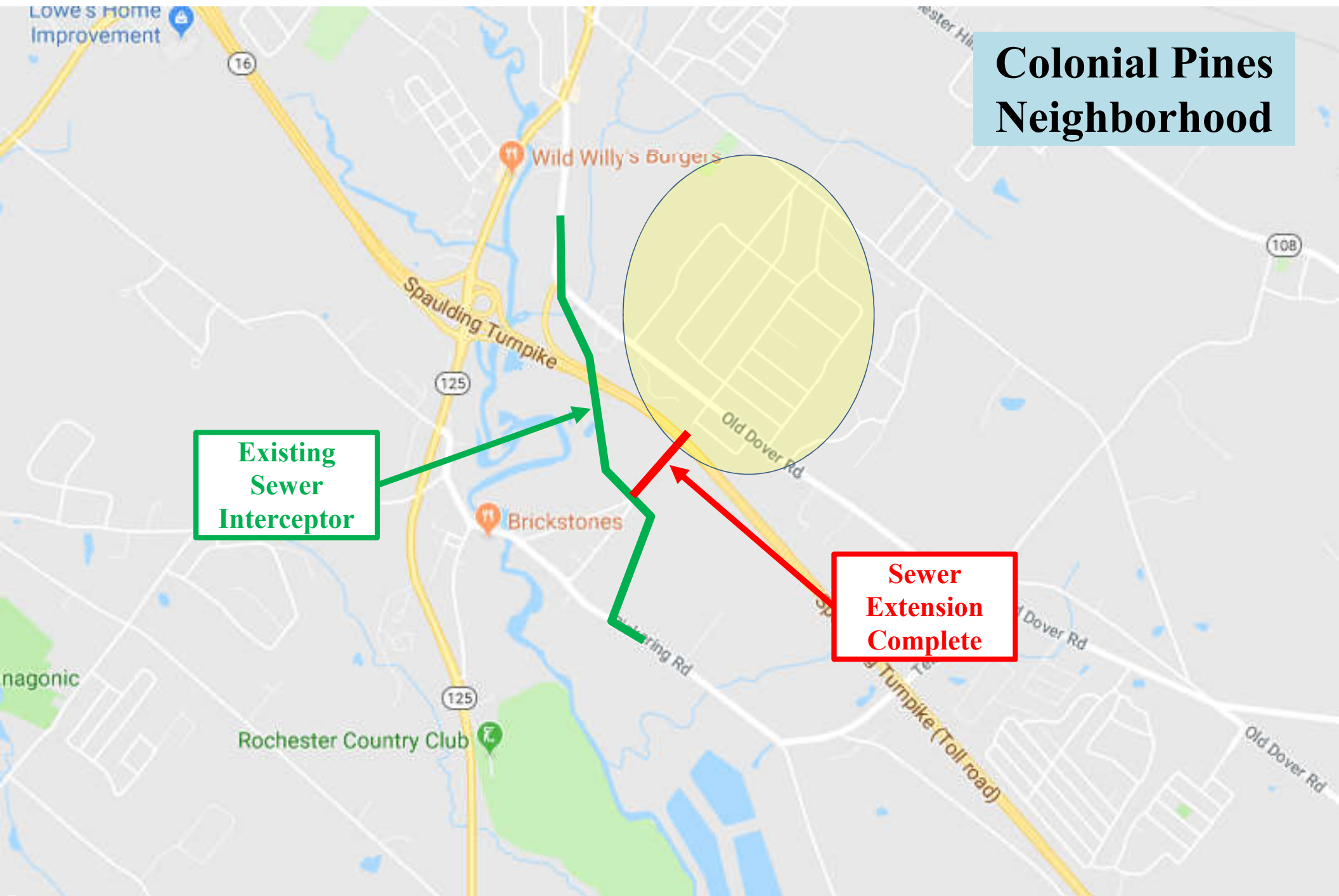


**UNDERWOOD**  
engineers

# Colonial Pines Neighborhood

**Existing  
Sewer  
Interceptor**

**Sewer  
Extension  
Complete**





# Work Completed to Date

- Engineering Study: 2015
- Preliminary Design: 2015
- Phase 1 Construction
  - Spaulding Turnpike Crossing: 2017
  - Railroad Ave Sewer Extension: 2018
- Preliminary Phasing Plan: 2018
- Final Design and Bidding – Phase 2: 2018



# Phasing & Preliminary Construction Schedule





PHASE 4 -  
2021

PHASE 1 -  
Completed

PHASE 2 -  
Construction 2019

PHASE 3 -  
Design 2019  
Construct 2020

● Septic System Failures



# CONSTRUCTION

- S.U.R. Construction
- Schedule
- Sequence
- Anticipated Impacts
- Public Information
- Sewer Connections



Typical Sewer Main Installation

# Introductions – S.U.R. Construction

- Bill Creteau - President
- Mike Desrosiers – Project Manager
- Don Montigny – Site Superintendant

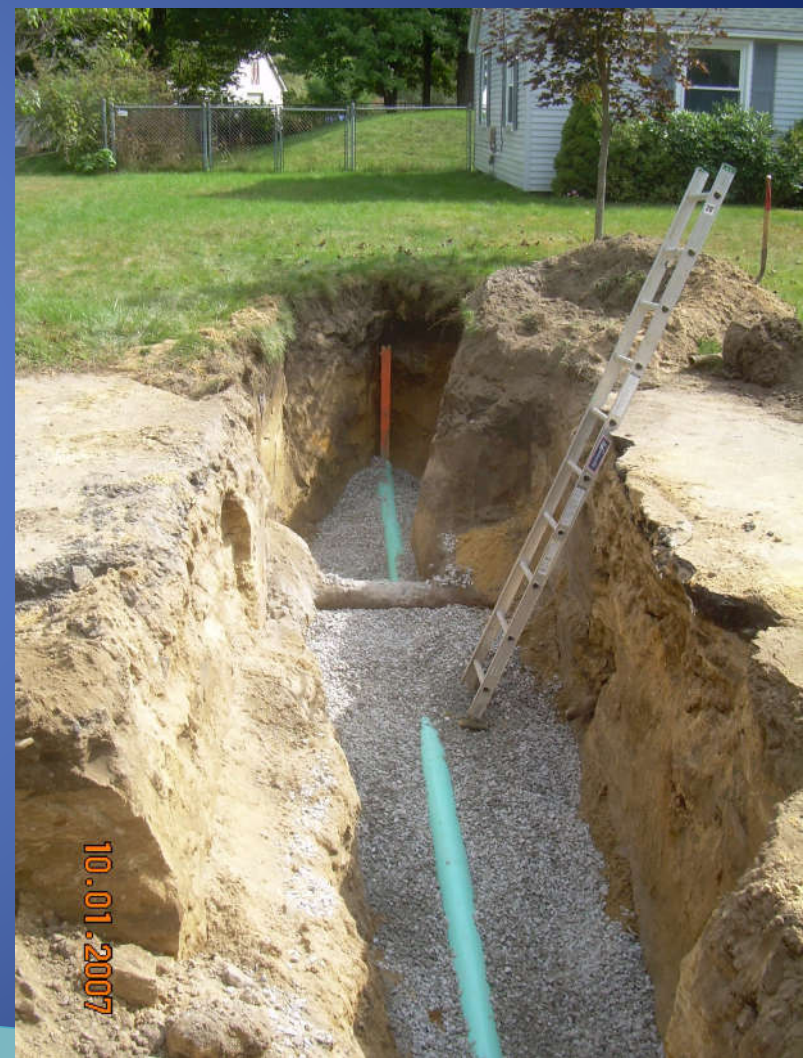
# Construction – S.U.R.

- Local Contractor
- Extensive work experience in Rochester
- Well versed in utility and road work



# Construction - Schedule

- Start of Work – April 1, 2019
- Work is expected into December  
– Substantial Completion
- Final paving overlay work spring 2020  
– Final Completion





# Construction - Sequence

- Select water improvements (Juniper Street)
  - Abandon existing small diameter water main
  - Transfer water services to large diameter main
  - Intersection improvements
  - Temporary Water Systems
- Establish Dewatering
  - Birch Drive



# Construction - Sequence

- Sewer Main Construction (Low to High)
  - Birch Drive
  - Juniper Street
  - Side Streets
- Sewer Services
- Road Restoration





# Construction – Daily Impacts

- Daily Work Hours – 7AM to 6PM
- Noise
- Dust

Water truck for dust control



# Construction – Daily Impacts

- Traffic
  - Flaggers
- Staged Materials
  - Pipe
  - Manholes
  - Stock Piles

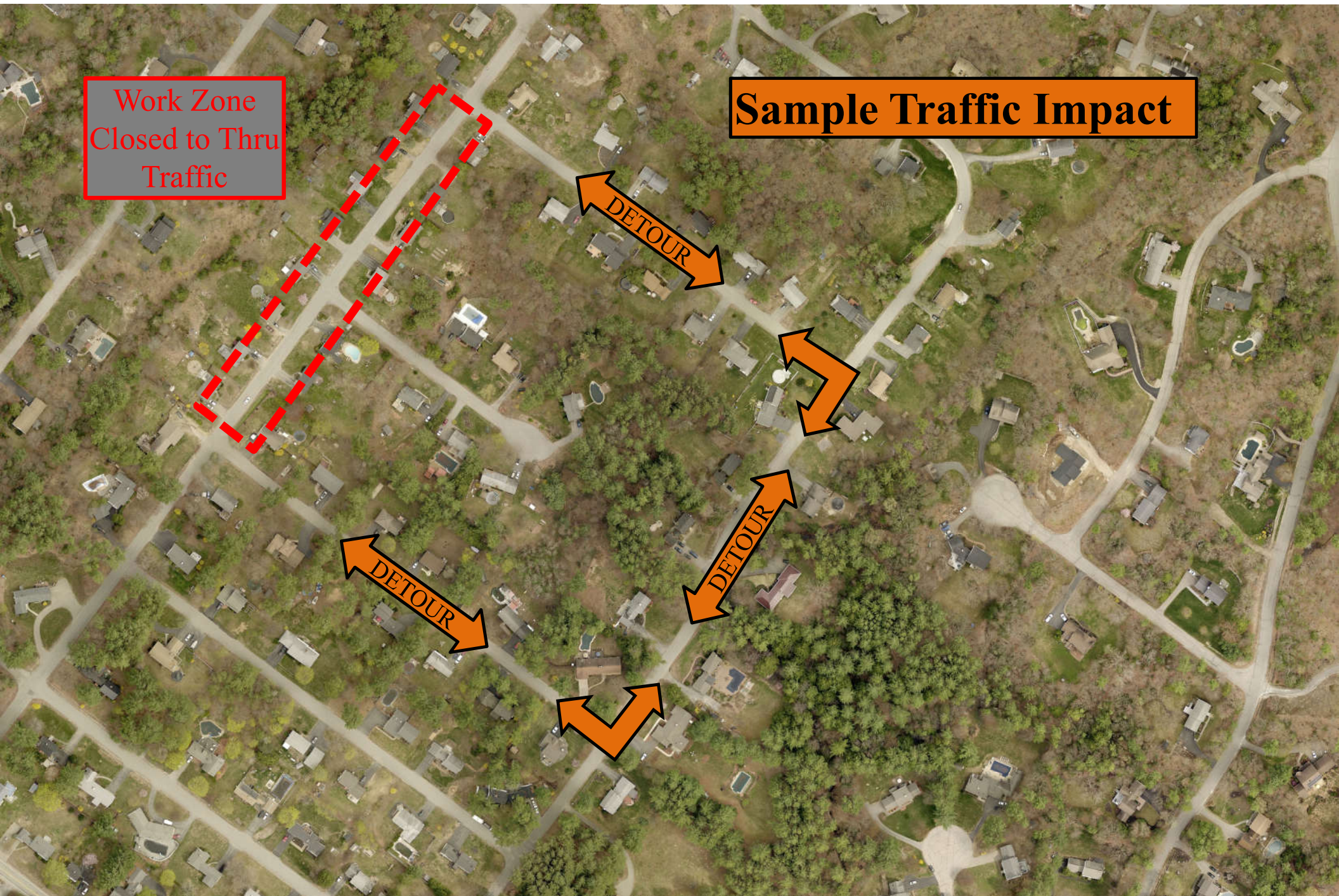


Temporary Road Closures



Work Zone  
Closed to Thru  
Traffic

Sample Traffic Impact





# Construction – Daily Impacts

- Let field representatives know ASAP if there is a special accommodation needed so that access can be coordinated.
- Contact info provided on the project website

# Public Information

- City Website
- Weekly Update
- Field Personnel
  - Don Montigny, S.U.R.
  - Keith Noyes, Underwood Engineers

# City Web Page

Colonial Pines Sewer Project | Ro

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← → ↺

https://www.rochesternh.net/public-works/pages/colonial-pines-sewer-project

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[HOW Do I ...](#) 

2018 City of Rochester Infrastructure Standards

Construction Cost Estimate 2018

Cross Connections in Household Plumbing

DPW Construction Projects

Downtown Crosswalk Assessment

Hydrant Flushing

Joint Report of Peer Review Panel for Numeric Nutrient Criteria

NH Ten Year Transportation Improvement Plan

New Public Works Facility

Online Permit Center

Pavement Condition Assessment

[Home](#) » [Public Works](#)

## Colonial Pines Sewer Project

- **2017** S.U.R. Construction completed the installation of a gravity sewer line beneath the Spaulding Turnpike.
- **2018** S.U.R. Construction completed the gravity sewer line from the Spaulding turnpike down Railroad Avenue to the City's sewer interceptor.
- **2019** Underwood Engineering completed the design engineering and the bidding of the Phase II Sewer Main extension into the Colonial Pines neighborhood.
- SUR Construction was the low bidder for the Phase II Sewer Extension Project - Construction Start planned for April 1, 2019 - Please [click here](#) to see the map to determine which streets are in this phase of the project.
- **An informational meeting is scheduled March 26, 2019 7PM at the Frisbie Conference Center.**
- To view the Colonial Pines Underwood Engineers March 22, 2018 Meeting Powerpoint presentation [click here](#).



# Periodic Updates

## Colonial Pines Sewer Extension – Phase 2

Project Update  
Week of April , 2019

### *Upcoming Work*

Water Work

Sewer Work

### *Water Service Interruption*

Scheduled interruptions in water service is anticipated during the update window.

Brief interruptions (approximately 30 minutes) in water service will be required to transfer houses to the new water main in the street. Field personnel will notify residents prior to interrupting the water service.

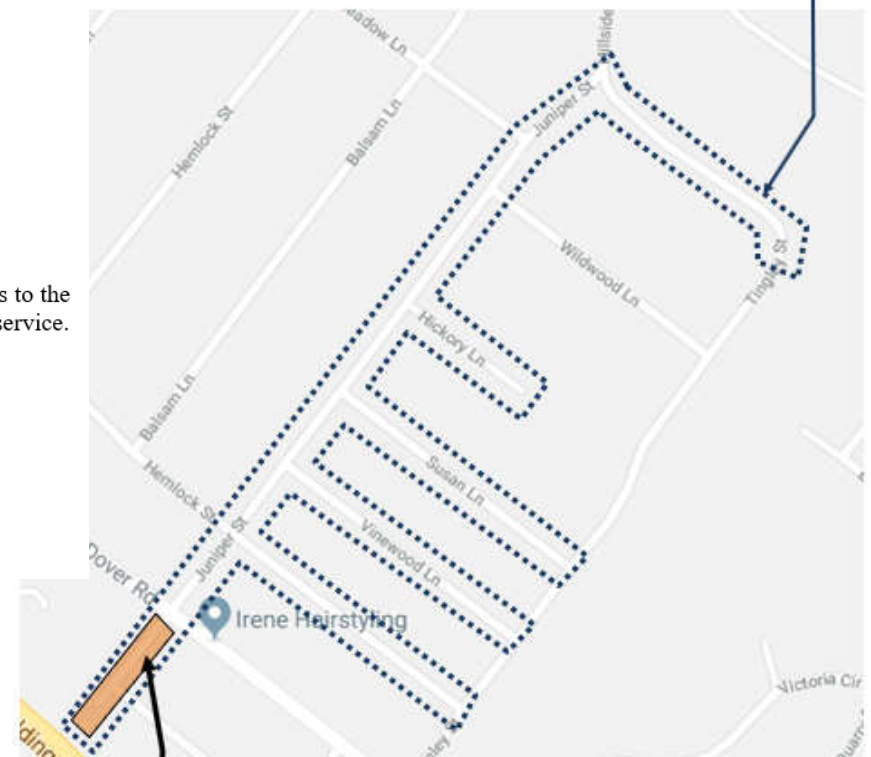
### *Traffic Patterns*

#### Road Closures:

**Parking:** We ask that residents do not park vehicles on the street in current work zones.

### *General Notes*

## COLONIAL PINES SEWER EXTENSION – PHASE 2 PROJECT AREA



Anticipated Work Zone:

- Sewer Main installation

# Public Information

- Message Boards
  - Old Dover Road Closures
- Field Personnel
  - Don Montigny, S.U.R.
  - Keith Noyes, Underwood Engineers

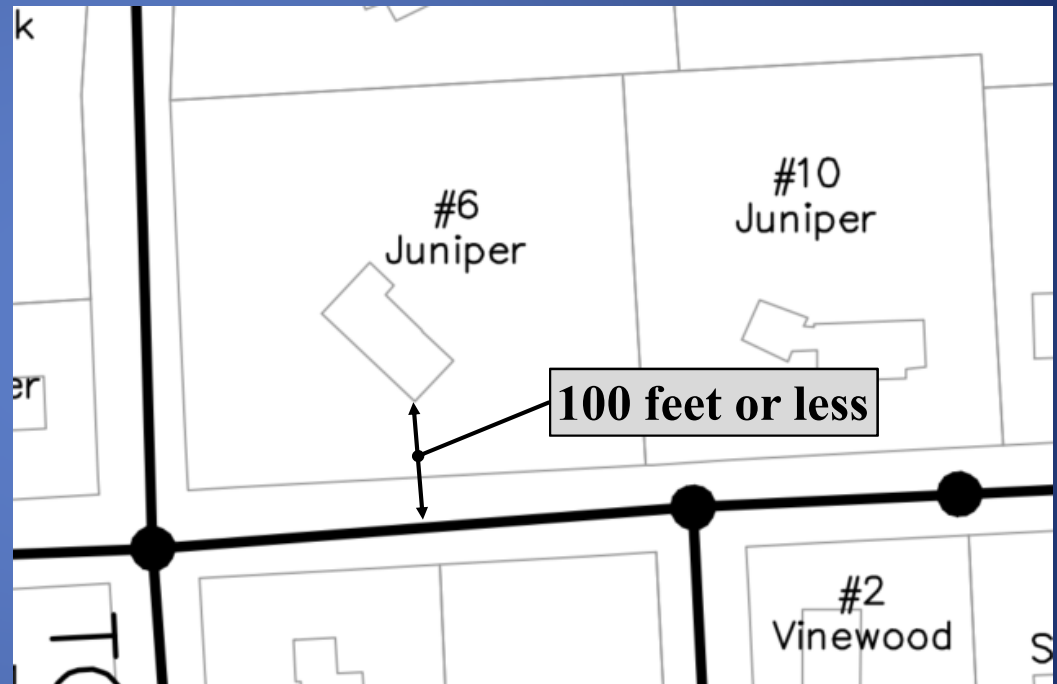


# Connection to New Sewer System (City Ordinance)



# Am I required to Connect?

- Center of sewer main is 100 feet or less from closest house corner.
- Connection within 90 days of notice



Is There A Waiver Available?

**YES!!**

However...

# How Does Waiver Work?

To qualify for waiver your system must have been:

1. Constructed after January 1, 1985
2. Constructed by a NHDES licensed installer
3. Designed by a NHDES licensed designer
4. Certified as functioning properly within the past year by a NHDES licensed evaluator



# How Does Waiver Work

- Fact Sheet is available on the City Website



*City of Rochester, New Hampshire*  
PUBLIC WORKS DEPARTMENT  
45 Old Dover Road • Rochester, NH 03867  
(603) 332-4096 Fax (603) 335-4352  
[www.rochesternh.net](http://www.rochesternh.net)

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## SEWER CONNECTION WAIVER FACT SHEET

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### Connection Requirement:

- Per city ordinance Chapter 16.3, connection to the municipal sewer system is **mandatory within 100'** unless a waiver can be granted.
- Chapter 16.3 (e): Structures within one hundred (100) feet of the public sewer and currently served by private wastewater disposal facilities shall connect to the public sewer within ninety (90) days after an official notice to do so. The City may grant a waiver to this requirement for properties with existing adequate sewage disposal systems which can be proven by the property owner to comply with applicable state and local regulations, to have been designed by a designer licensed in New Hampshire and to have been approved for construction by the New Hampshire department of environmental services after January 1, 1985.

### Waiver Requirements:

- If you would like to seek a waiver in lieu of connecting to the city sewer, the following conditions need to be met:
  - a. System must have been constructed after January 1, 1985.
  - b. System must have been constructed by a NHDES licensed installer.
  - c. System must have been designed by a NHDES licensed designer.
  - d. System must have been certified as functioning properly within the past year by a NHDES licensed evaluator.
- Construction:
  - a. To learn when the system was constructed, by whom, and who designed it, please visit the NHDES website at the following link or the steps below:  
<http://www2.des.state.nh.us/SSBOneStop/MainMenu.aspx?SID=636247358199273750>
    - i. Go To [www.des.nh.gov](http://www.des.nh.gov)
    - ii. Click on "OneStop Data & Information"
    - iii. Scroll to "Subsurface Application & Approval Status"
    - iv. Select "Subsurface Applications Status Query"
    - v. Enter property information and search
  - b. If you are unable to locate your property using this method, you can also

# Sewer Service Connection

Sewer Service installation between two dwellings



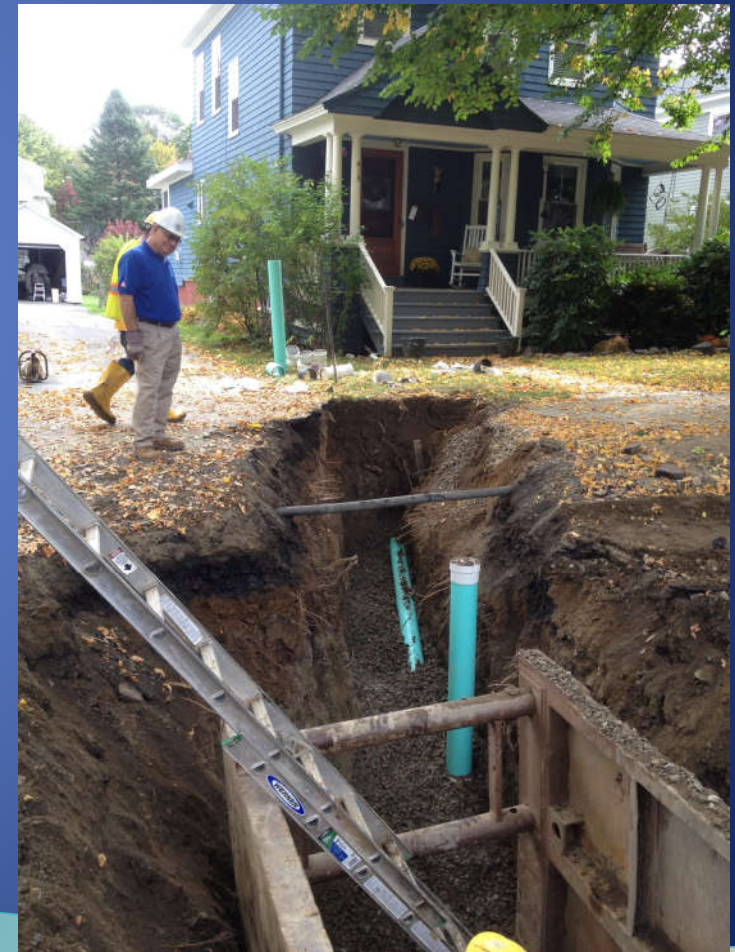


# How do I connect using the City's Contractor?

## Step #1

- Contact Project Representative to express desire to connect
  - City of Rochester
  - Underwood Engineers Field Personnel

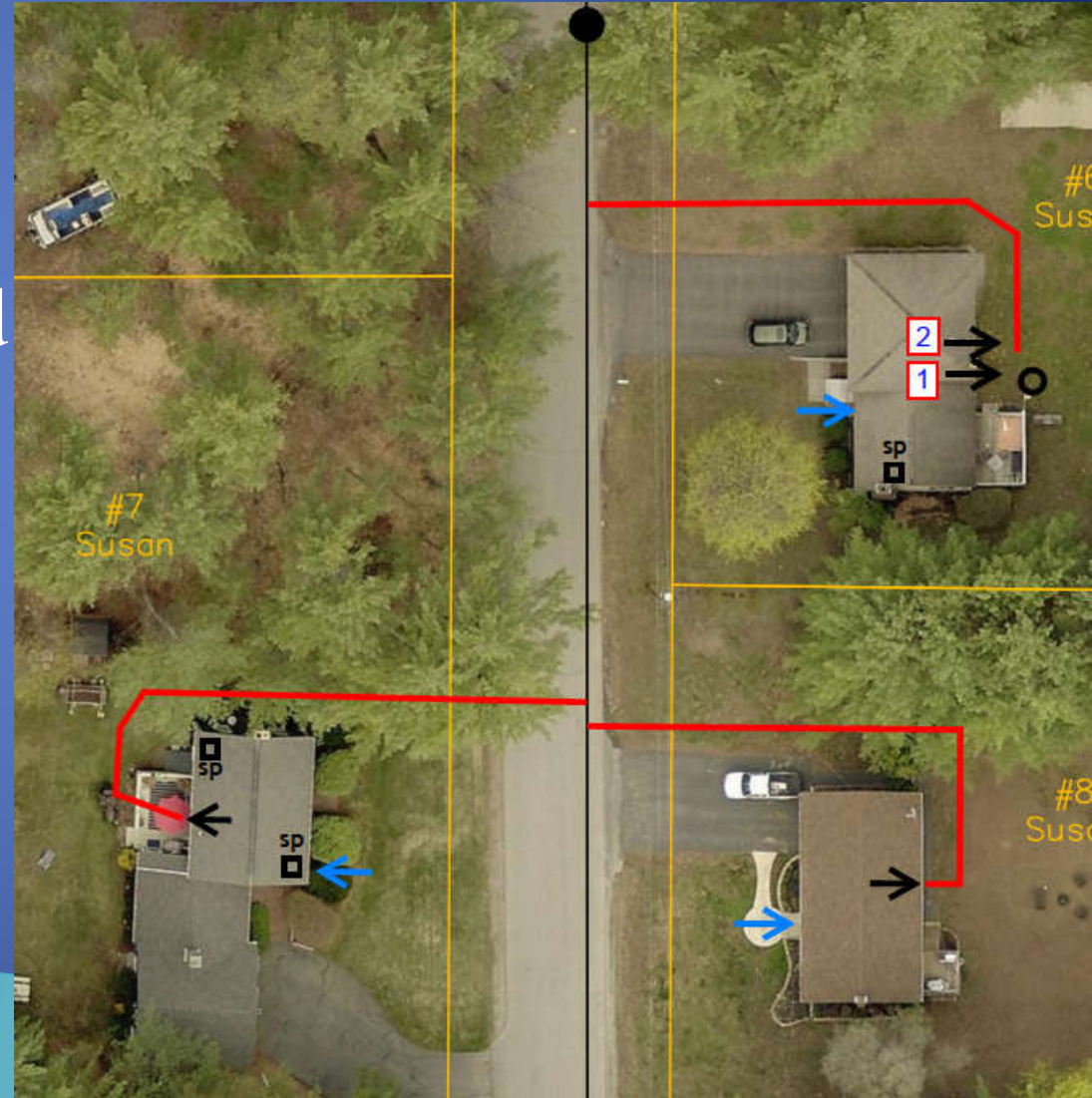
Typical cleanout at City Right of Way





## Step #2

- 
- UNDERWOOD**  
engineers





## City of Rochester, New Hampshire

### PUBLIC WORKS DEPARTMENT

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## COLONIAL PINES SEWER EXTENSION – PHASE 2 SEWER/WATER CONNECTION **NON-BINDING** COST ESTIMATING WORK SHEET

Location: \_\_\_\_\_

Costs for Services:

Item:	Quantity	Unit Price	Estimated Total*
6" PVC Sewer Service within Right-of-Way	n/a	\$0 / LF	\$ 0.00
6" PVC Sewer Service outside Right-of-Way		\$50 / LF	
Modification of Interior Plumbing	1	ALLOW	
Septic Tank Abandonment		\$500 / EA	
1" Copper Water Service within Right-of-Way		\$52 / LF	
1" Copper Water on Private Property		\$52 / LF	
Corporation		\$165 / EA	
Curb Stop with Box		\$ 165 / EA	
Water Meter Install and Turn On		\$ 550.95 / EA	
Driveway Pavement Restoration		\$145 / TON	
Tree removal (24" or greater Diameter)		\$1,300 / EA	
Tree removal (less than 24" Diameter)		\$500 / EA	
Tree Replacement (6' deciduous)		\$460 / EA	
Tree Replacement (3" coniferous)		\$540 / EA	
Remove and Reset Fences		\$19 / LF	
Remove and Reset Misc. Landscape	1	ALLOW	
Recording Fees (notarized lien)	1	\$40	\$ 40.00
ESTIMATED TOTAL COST (Actual Price may vary depending on site conditions)			
ESTIMATED EXTENDED PAYBACK COST (per quarters)			



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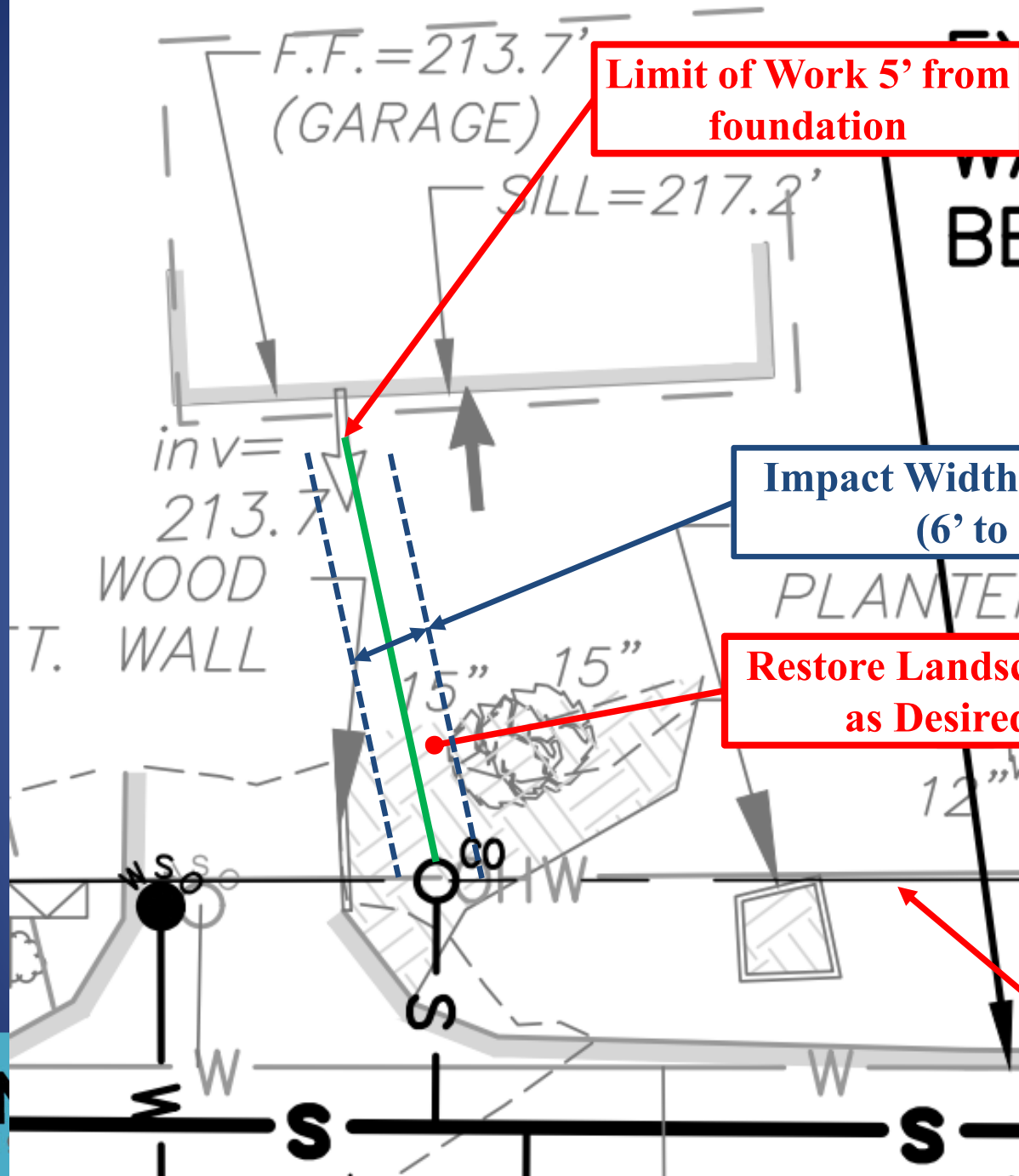
### Financing:

1. If the total cost of a service is less than \$5,000 then the homeowner can finance the installation of the service through their utility bill at 0% interest over 5 years paid on a quarterly basis (20 payments total).
2. If the total cost of a service is equal to or greater than \$5,000 then the homeowner can finance the installation of the service through their utility bill at 0% interest over 10 years paid on a quarterly basis (40 payments total).

Estimator Initial \_\_\_\_\_ Date \_\_\_\_\_

Owner Initial \_\_\_\_\_ Date \_\_\_\_\_

## CITY RIGHT OF WAY (R-O-W)





# How do I connect using the City's Contractor?

## Step #3

- Complete sewer connection permit – City of Rochester

**Water and Sewer Service Connection Application FOR COLONIAL PINES SEWER EXTENSION PROJECT**  
Permit Fee \$50 for Each Service Request (Includes Inspections)

Water Service \_\_\_\_\_ \$50.00 Sewer Service \_\_\_\_\_ \$50.00  
(Check one or both)

**OWNER INFORMATION:**

Name: \_\_\_\_\_ Date of Application: \_\_\_\_\_  
Address: \_\_\_\_\_ Map: \_\_\_\_\_  
Property Address: \_\_\_\_\_ Lot: \_\_\_\_\_  
Telephone #: \_\_\_\_\_ Cell/Business #: \_\_\_\_\_  
Owner's Email Address: \_\_\_\_\_

Is 0% extended financing through the City desired (residential only)? YES NO  
Is there an Existing Water service? YES NO  
Is the Service for Residential or Commercial Use RES. COM.

Owner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Call 603-332-4096 with any Questions.**

- By signing this form, you agree to allow the City of Rochester and their agents access to your property to perform the requested utility connection work. This work potentially includes, but is not exclusive to, installation of a sewer lateral, installation of a water lateral, abandonment of a septic tank, and any and all associated excavation and restoration required.
- This signing does not change the ownership obligations of any service as described in City

# How do I connect using the City's Contractor?

## Step #4

- Execute Security (payback) Agreement
  - City of Rochester
- Security Agreement will be based on estimate provided
- Agree Amendment may be required dependent on final cost

## SECURITY AGREEMENT

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ ("Debtor(s)"),  
for valuable consideration, receipt of which is acknowledged, grants to the City of Rochester  
("Secured Party") a security interest in the following property of Debtor (the "Collateral"):

Address: \_\_\_\_\_

Map and Lot: \_\_\_\_\_

Book and Page: \_\_\_\_\_

to secure payment of the following obligation of Debtor to Secured Party (the "Obligation"):

The Debtor owes \$ \_\_\_\_\_ (\_\_\_\_\_ dollars and \_\_\_\_\_ cents) to the City  
of Rochester for a loan related to the Debtor constructing a connection to the City sewer and  
water system(s). The Debtor will pay back the loan over a period of \_\_\_ years. The loan  
repayment amount will be included on the Debtor's quarterly water and sewer billed sent by the  
Department of Public Works-Utility Billing Department. Should the Debtor sell the collateral  
prior to the repayment of the loan, the loan must be paid off at the time of the sale or the City of  
Rochester will not release this lien on the Collateral. The City of Rochester will release this lien  
only after securing complete repayment for the Obligation.

**1. Warranties and Covenants of Debtor.** Debtor warrants and covenants that:

(a) No other creditor has a security interest in the Collateral except the following:

(b) Debtor is the owner of the Collateral free from any adverse lien or encumbrance  
except this lien and the others described in this Security Agreement.

(c) Debtor will defend the Collateral against all claims of other persons.

(d) Debtor will immediately notify the Secured Party in writing of any change in  
name or address.

(e) Debtor will do all such things as Secured Party at any time or from time to time  
may reasonably request to establish and maintain a perfected security interest in the Collateral.



# How much will the new service cost??



Sewer construction beneath paver patio adjacent to pool



Sewer service construction beneath brick driveway

# Typical Price Range of Service Construction

Description of Work	Unit Price	Short Service		Long Service	
		Quantity	Extended Total	Quantity	Extended Total
<u>Standard Required Work</u>					
Sewer Connection Permit	\$50 / Service	1	\$50	1	\$50
Sewer Service Pipe (incl. lawn restoration)	\$60 / LF	20	\$1,200	150	\$9,000
Decommission Septic Tank	\$600 EA	1	\$600	1	\$600
Total Standard Work			\$1,850	\$9,650	
*Costs to modify basement plumbing (if possible) may be offset by a reduction in pipe length					
<u>Sample Site Specific Work</u>					
Sewer Deduct Meter (Outdoor Spiggot & irrigation)	\$520.95/ Dwelling	1	\$520.95		
Tree Removal	\$500 / EA	1	\$500		
Pavement Restoration	\$145 / TON	3	\$435		
Remove and Reset Fence	19 / LF	16	\$304		
Landscape Restoration (i.e. Patios)	\$500 / EA	1	\$500		
Tree Replacement	\$500 / EA	1	\$500		
Total Specific Costs			\$2,760	(Rounded)	

# City Financing Option

- 0% Interest
- Less than \$5,000 financed
  - 5-Year term
- \$5,000 or more financed
  - 10-year term
- Payment added to quarterly bill



# Questions and Answers