

Scharf, Steven (DEC)

From: Harrington, Jim (DEC)
Sent: Wednesday, May 25, 2016 1:40 PM
To: Schick, Robert (DEC)
Cc: Evans, Daniel (DEC); Scharf, Steven (DEC); Swartwout, John (DEC); Wilkie, Henry (DEC)
Subject: FW: NGC-ARCADIS to TOB Presentation
Attachments: Report.HW.130003A.2016-05-25.NGC-ARCADIS Access TOB Meeting-1.pdf

As we discussed earlier, Grumman met with the Town of Oyster Bay Officials this morning to discuss installation of the remedial wells to address the OU3 groundwater hot spot. We participated (by phone) at Grumman's request. Attached are the slides from Grumman's presentation. They are working to minimize duration and footprint but there will be a significant impact to the community. At NG's request, I emphasized the state's desire for this to move forward as quickly as possible, referencing the Commissioner's March 17, 2016 letter.

There will be three recovery wells installed. The exact locations for first two (RW20 and RW21) have already been determined (and approved by DEC). NG consultants will deploy two large flatbed mounted rigs to install the wells simultaneously. One of them will be in the street and will require street closures. The other will be in a municipal parking lot behind a church and will result in the loss of a number of parking spaces nearest the church. Well installation will take 6 -8 weeks. The exact location of the third well has not been determined. NG will install 4 vertical profile borings followed by the installation of monitoring wells and then installation of a recovery well. This work will follow installation of the other recovery wells. NG would like to start right after the July 4 holiday and hopes to be completely finished by late September.

The town's biggest concern related to public questions about how long they were going to be inconvenienced and opined that there will be plenty of people suggesting that if NG had dealt with the problem expeditiously, this would not have to happen. The town appeared supportive but indicated that the position they would take is that this is work being done by Grumman as required by DEC. I did not disagree that we are requiring the work.

The slides proposed a Town meeting on June 2 and a public availability meeting on June 3 (a Friday). June 2 is a schedule Town Board meeting so there is no issue with it. There are a number of problems with a public availability meeting on June. Beyond it being a Friday, it is less than a week away (on a holiday weekend) so notice is an issue. NG agreed that they needed to reschedule. I missed the last part of the meeting due to the fire drill but spoke with Ed Hannon later. The Town suggested that NG meet with the water district prior to the public meeting. NG is looking at holding the meeting in a couple of weeks (Tues, Wed or Thurs night) and will let us know as soon as they decide. As we discussed, we will attend the meeting.

The other part of the presentation (which I missed) related to the conveyance pipe and treatment facility. A workplan for this part is due June 2. NG has pretty much decided that they will build a treatment plant adjacent the GM38 treatment plant. They are currently working with the land owner. I asked him why they were not actively considering use of BWD Plant 4 (since the treatment plant is nearby, already exists and is not being used) and he responded that it is not possible due to the ongoing litigation between NG and BWD. Also, based on past experience with BWD, he is concerned that BWD would want more money than it would cost to build a brand new plant. NG's preliminary layout for the transmission pipes along the streets but I understand that they discussed using the greenbelt to minimize disruption. We should see more details when the workplan is submitted. Jim H

James B Harrington, PE
Director, Remedial Bureau A
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Please note my new email address
Jim.Harrington@dec.ny.gov

From: Scharf, Steven (DEC)
Sent: Wednesday, May 25, 2016 12:02 PM
To: Harrington, Jim (DEC) <jim.harrington@dec.ny.gov>
Cc: Swartwout, John (DEC) <john.swartwout@dec.ny.gov>
Subject: NGC-ARCADIS to TOB Presentation

Jim,

Per your request, attached is the NGC-ARCADIS presentation from the meeting with the Town of Oyster Bay. The last slide does talk about a public session on the 3rd of June.

Thanks,

Steve
Steven M. Scharf, P.E.
Project Engineer, Division of Environmental Remediation
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Technical Stakeholder Meeting RW-21 Area Remedial Design/ Remedial Action

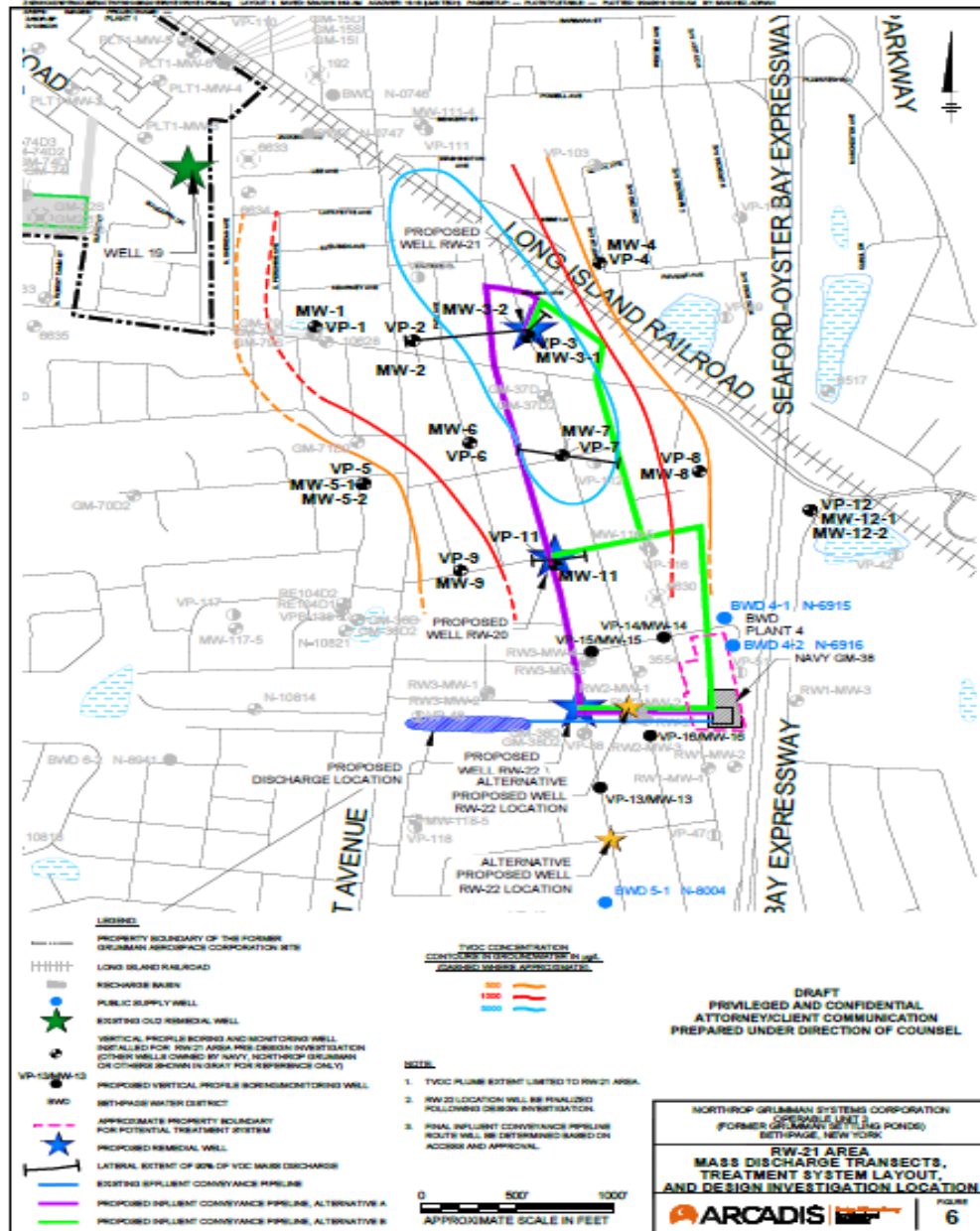
Operable Unit 3

Bethpage, New York

May 25, 2016

Agenda

- Project Overview/Opening Remarks
- Schedule
- Remedial Well Installation
- VPB and Monitoring Well Installation
- Requirements for Well Permit Approval
- Preliminary Pipe Installation Plan
- Town Points of Contact/Next Meeting Date



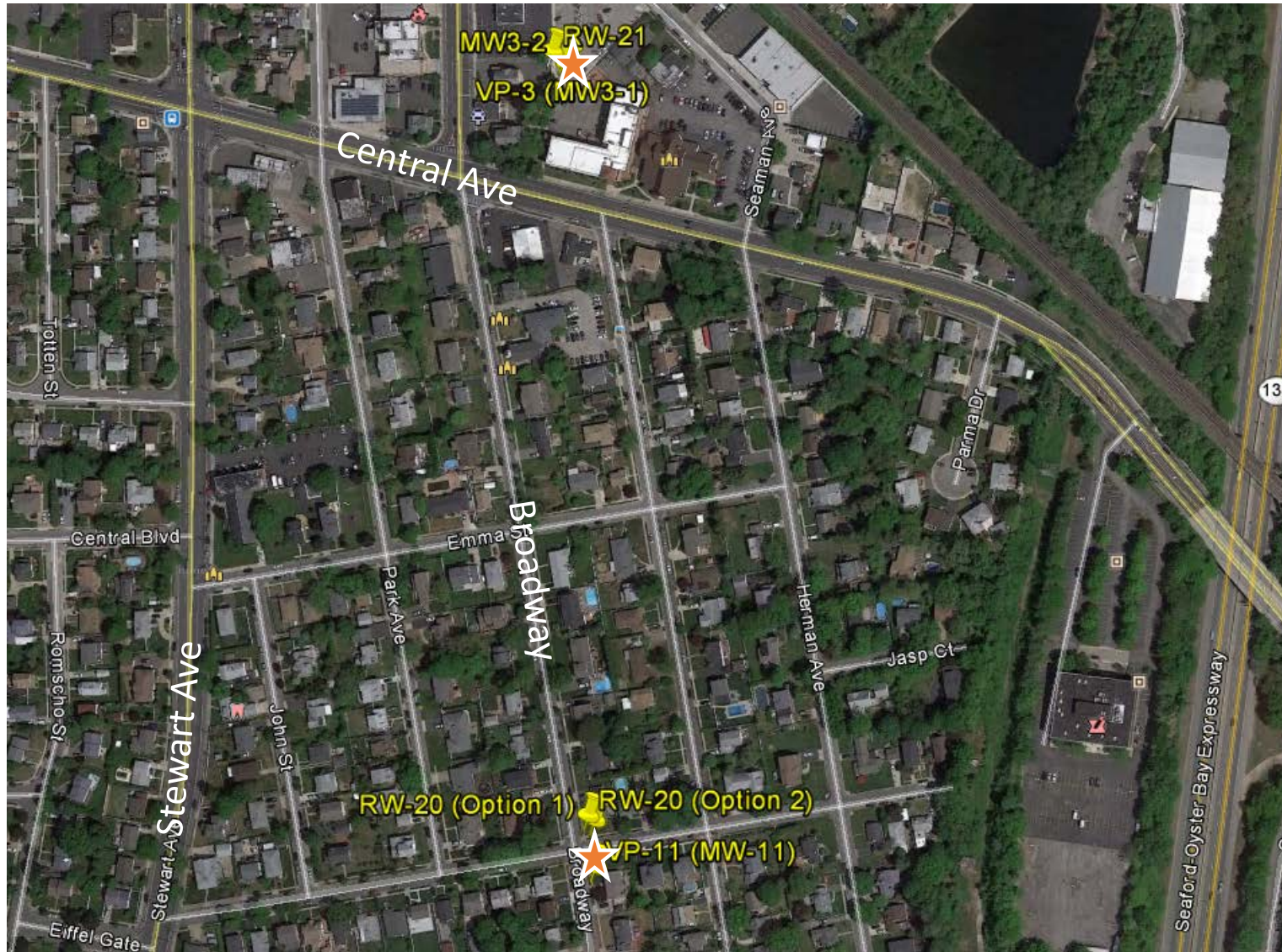
Project Overview

- Remedy developed in accordance with OU3 ROD on expedited schedule
- Remedial Design Work Plan being prepared
- NYSDEC approved the locations of the remedial wells
- Four VPBs/MWs anticipated to locate RW-22
- Treatment system and pipe plan are at the preliminary stages of development

Remedial Well Drilling Process

- Locations selected based on 2014-2015 results
- Well depths range from 620 to 680 feet
- First, a small-diameter pilot boring will be drilled to conduct groundwater and soil sampling
- Well will then be drilled by enlarging the pilot boring:
 - Well construction will be a continuous process
 - Flush mount vault will be installed

Potential RW-20 and RW-21 Locations



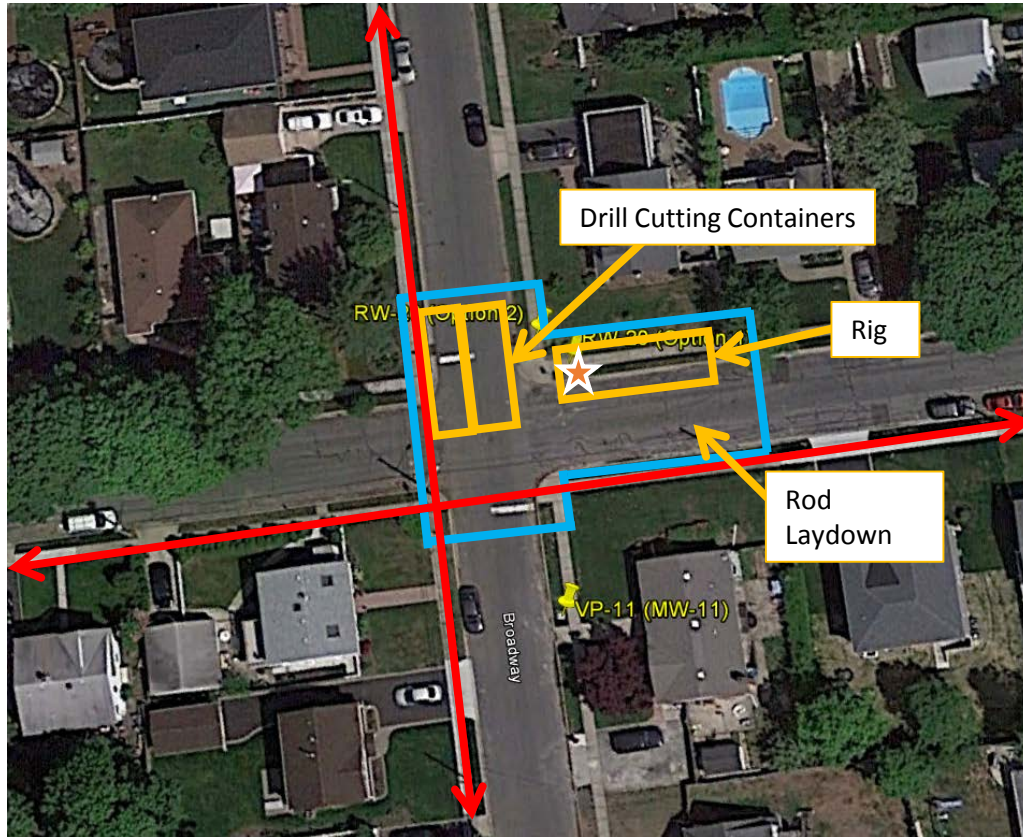
- One option available for RW-21
- Two options available for RW-20



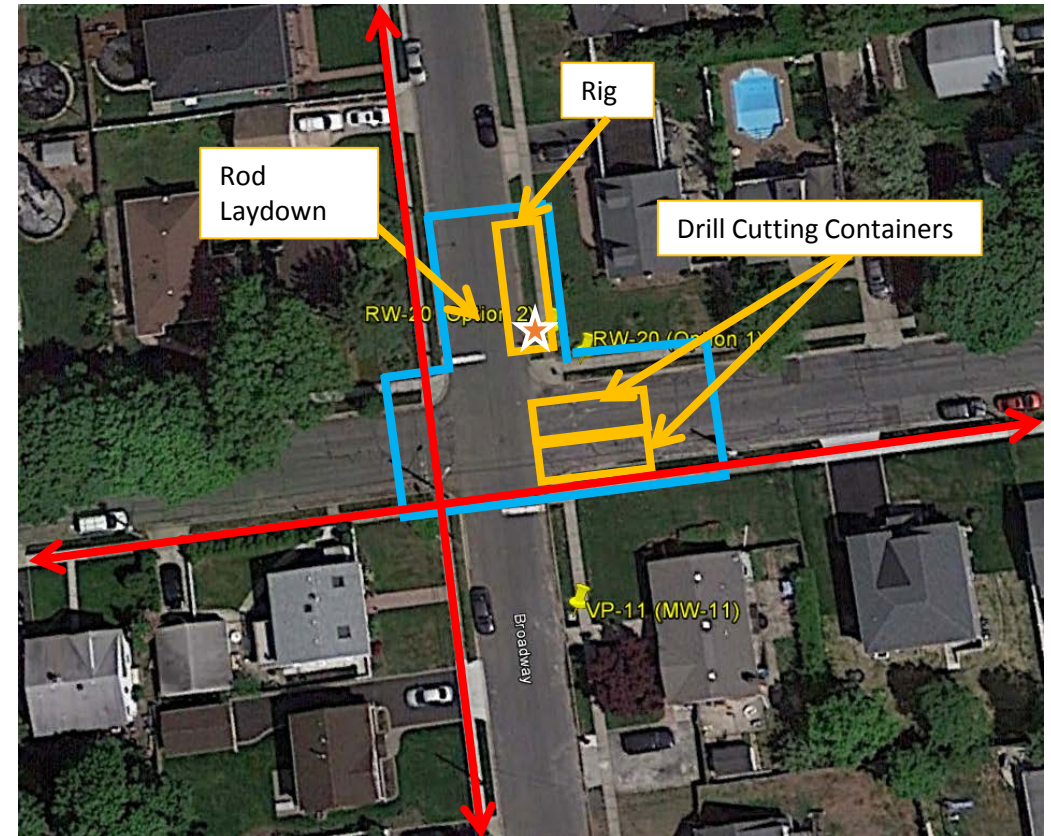
Proposed Well

Potential RW-20 Locations

- ↔ Overhead Utilities
- ★ Proposed Well
- Limits of Proposed Work Zone



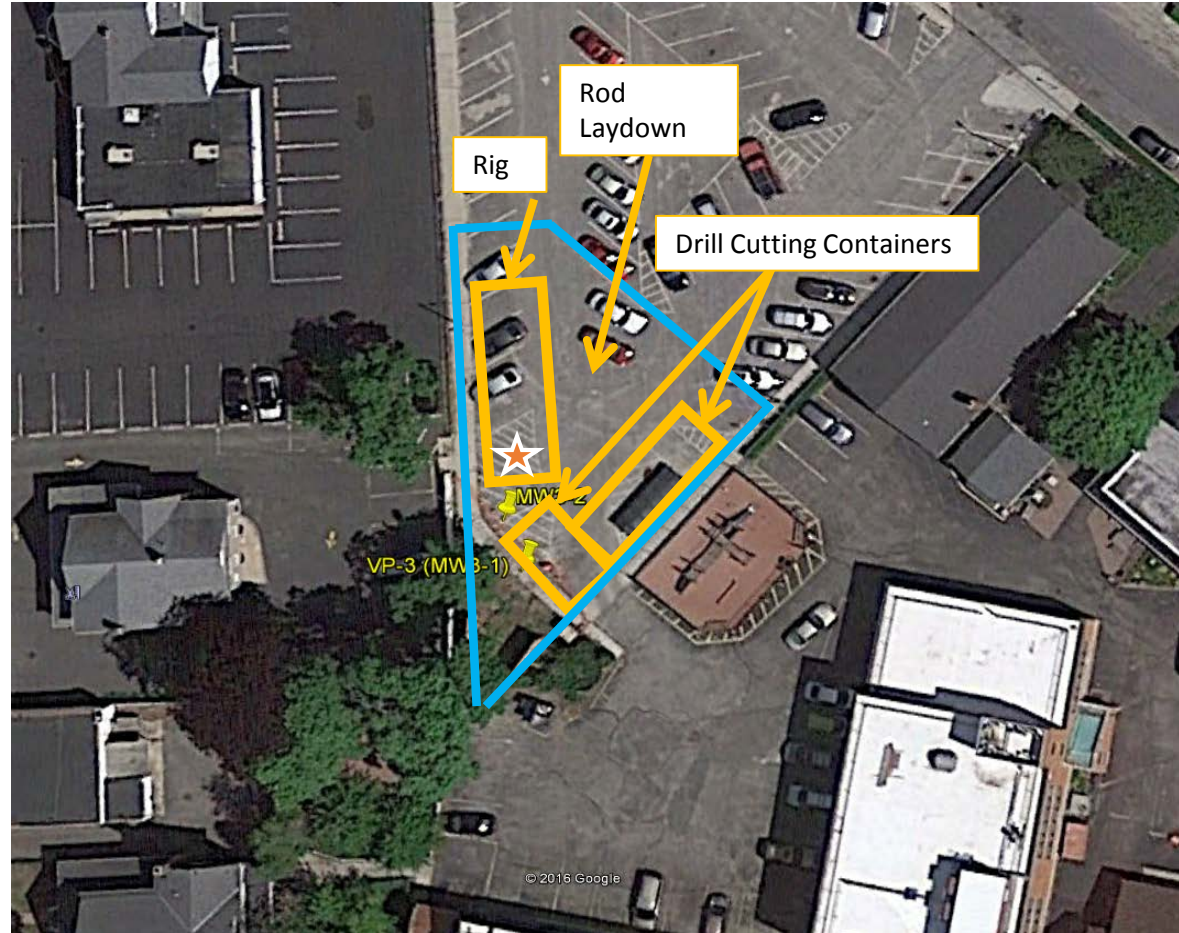
**Temporary road closures
needed during drilling
and well installation**



Potential RW-21 Location

★ Proposed Well




— Limits of Proposed Work Zone

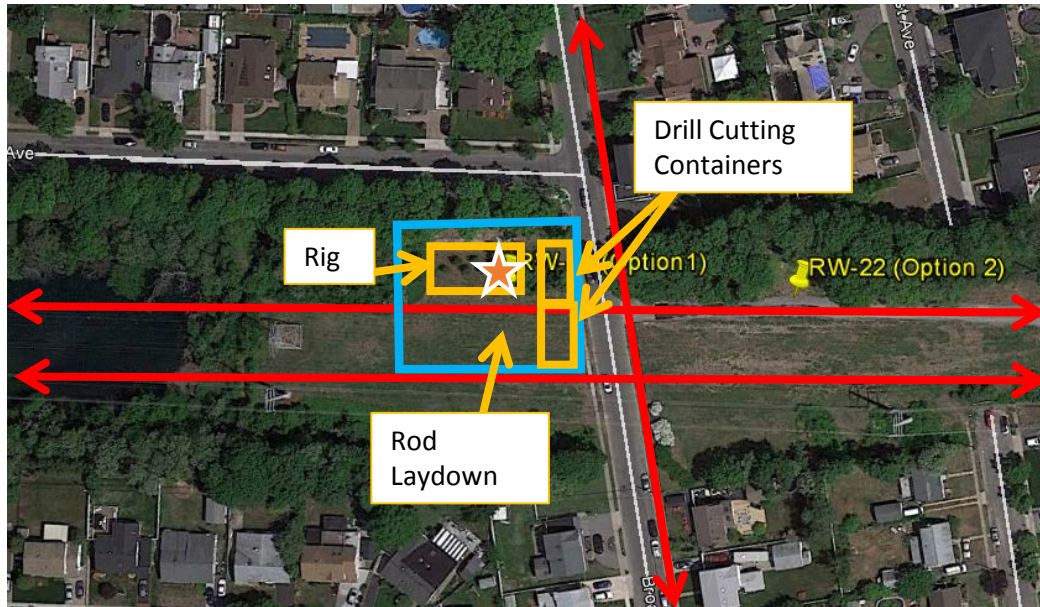
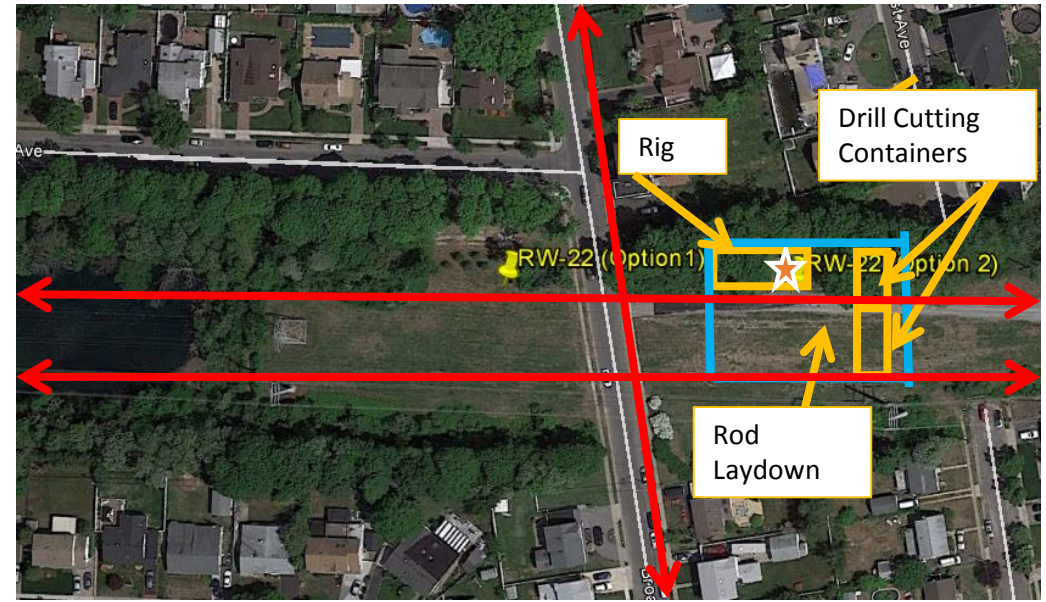


Potential RW-22 Locations



Potential RW-22 Locations

-  Overhead Utilities
-  Proposed Well
-  Limits of Proposed Work Zone



Preliminary Technical Package

RW-21 Area Pipe Installation Plan

- This plan provides two conceptual layouts (Options A and B) for the proposed influent pipes that will transmit water from the remedial wells (RW-20, RW-21, and RW-22) to the treatment plant
- Due to the densely populated area and limitations on suitable lands for drilling, the purpose of this plan is to identify potential locations and technical approach

Preliminary Technical Package

RW-21 Area Pipe Installation Plan

- Town of Oyster Bay properties or rights-of-way have been preliminarily identified for potential pipes.
- Conceptual plan is based on the following:
 - Utilities identified from NYSDEC-approved RW-21 Area pre-design investigation
 - Potential influent pipe routes (two options identified)
 - Identification of drill rigs, support equipment, required work areas, and potential contractors
 - Horizontal Directional Drilling (HDD) configurations combined with trenching
 - Pipe size requirements

Preliminary Technical Package

RW-21 Area Pipe Installation Plan

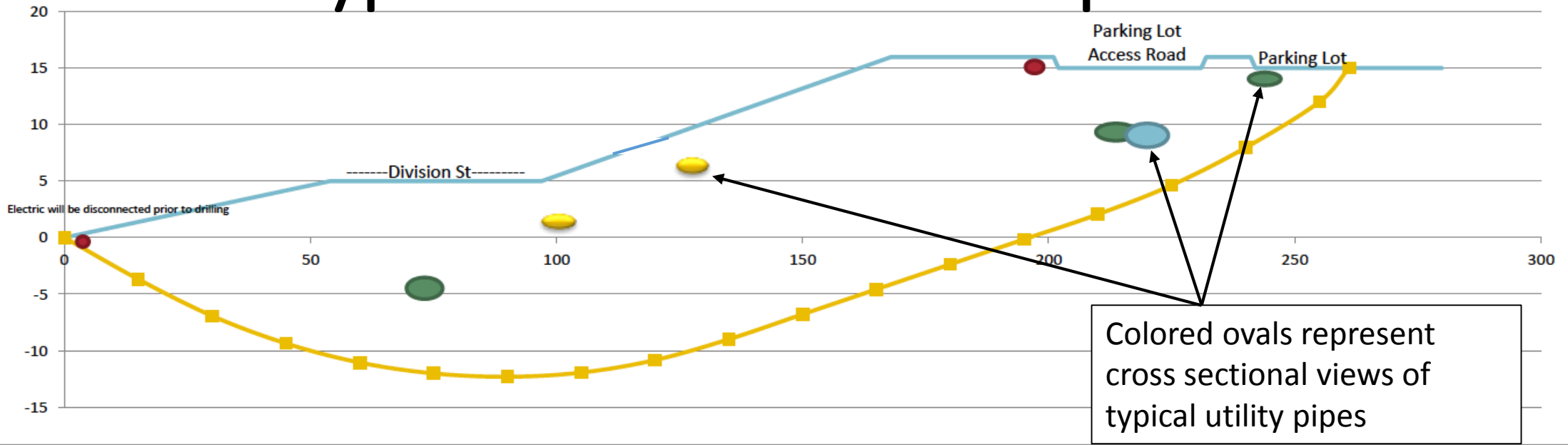
- Typical HDD pipe installation work sequence:
 - Utility identification, clearance and site survey
 - Geotechnical investigation
 - Mobilization, exit/entry area work zone setup/excavations, and drill rig setup
 - Pilot hole drilling
 - Reverse reaming to full bore diameter
 - Setup of work zone for High-Density Polyethylene (HDPE) pipe laydown and fusing area
 - Fuse pipe and pull through HDD bore
 - RW-20 pipe (Option A) will likely require road closure

Preliminary Technical Package

RW-21 Area Pipe Installation Plan

- Pipe installation will meet substantive permitting requirements of the Town of Oyster Bay as well as any other permits/equivalencies
- Next steps in the design:
 - Coordinate with Town of Oyster Bay to:
 - Schedule site walk with contractors
 - Obtain utility maps
 - Initiate design:
 - Utility markout survey
 - Site survey
 - Geotechnical soil borings
 - Structural calculations for influent pipe design
 - Develop plan, profile, and details for the HDD program

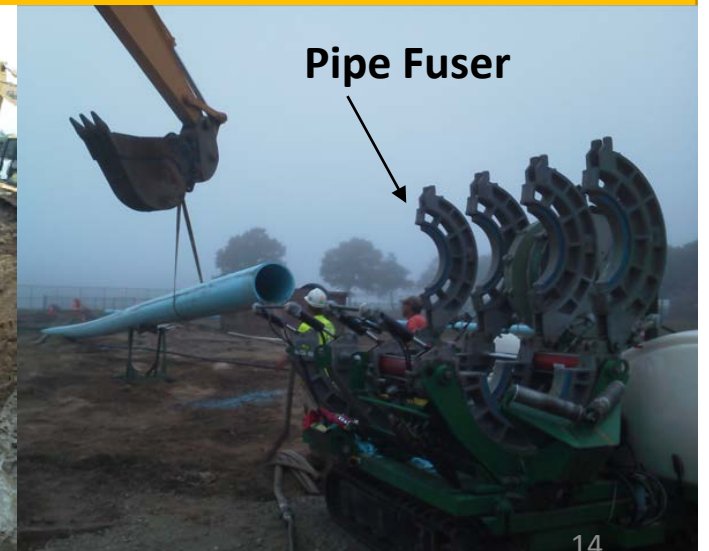
Typical Profile of HDD Pipe



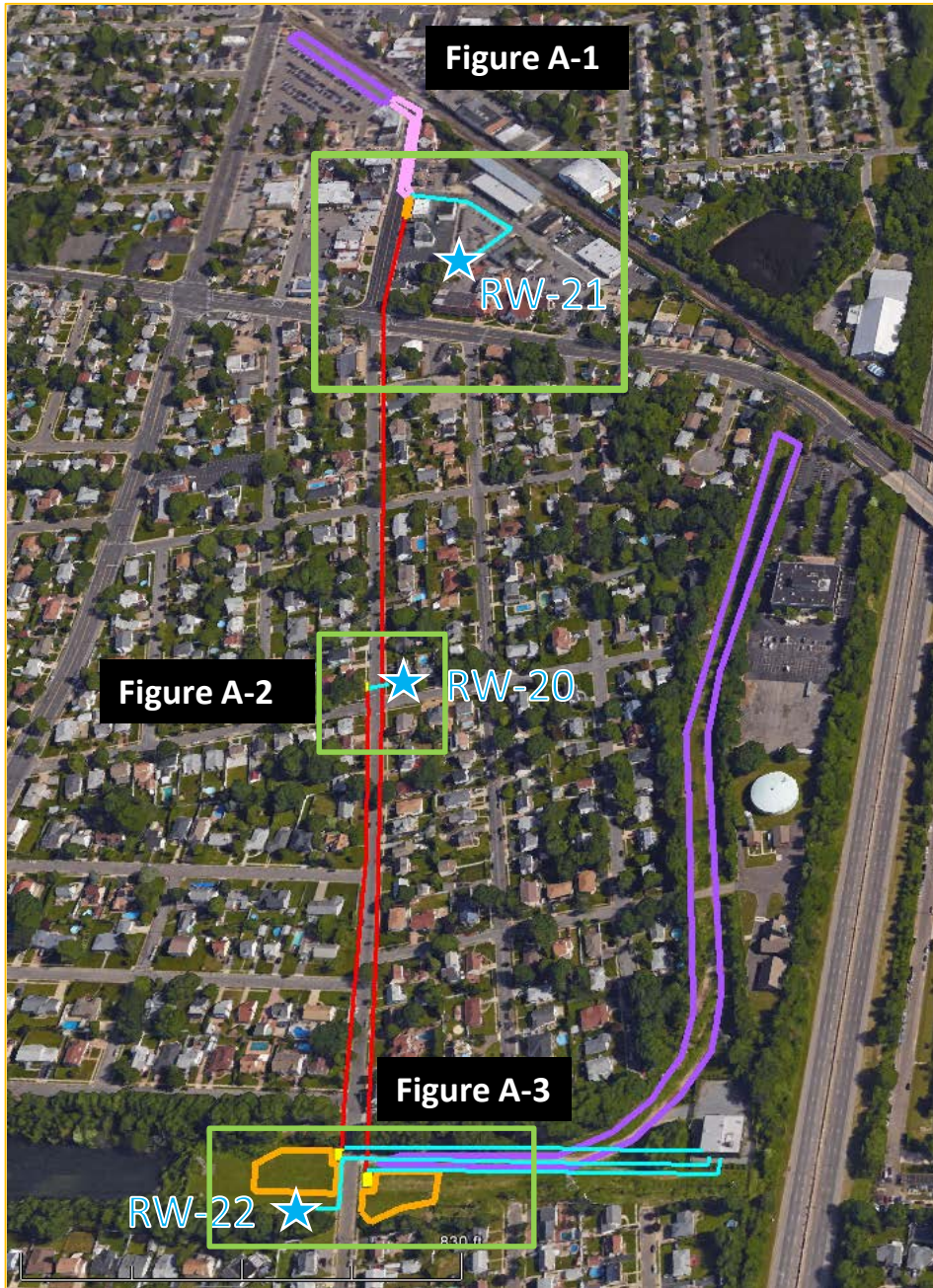
Photos of Entry Location



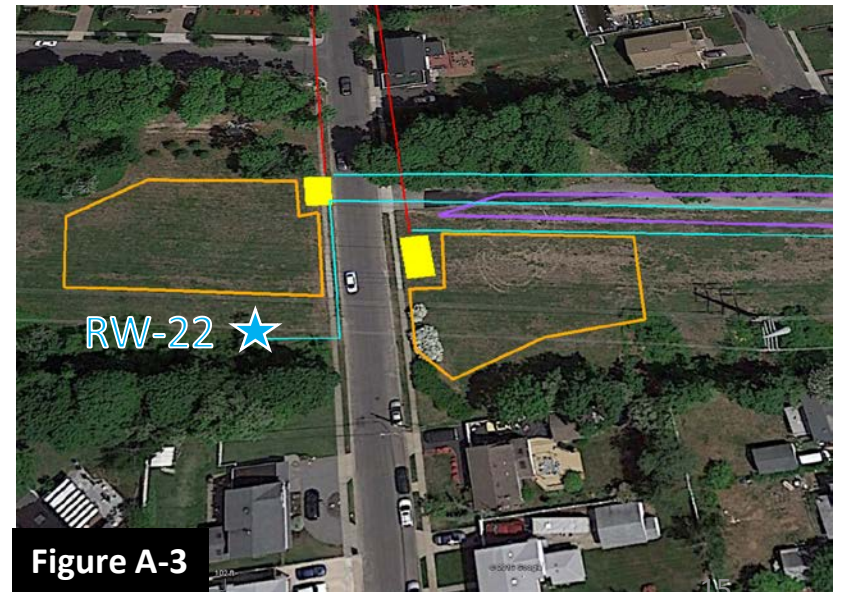
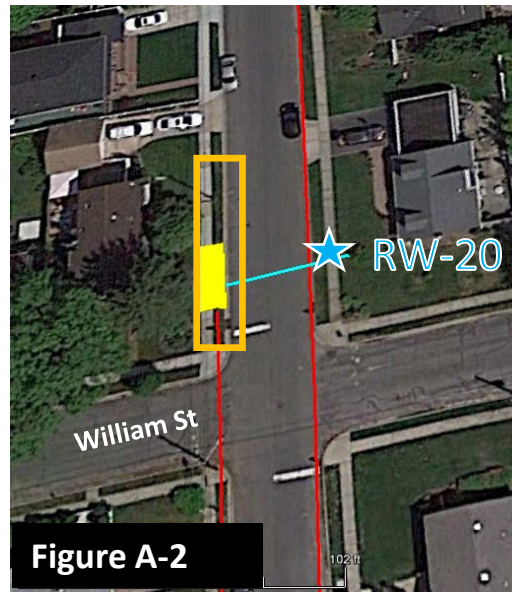
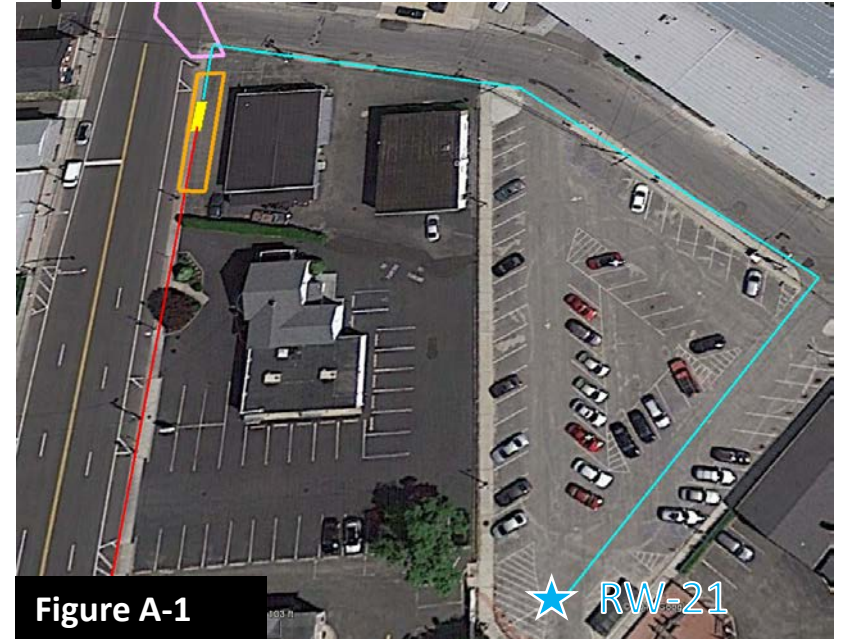
Photos of Exit Location



Pipe Route - Option A

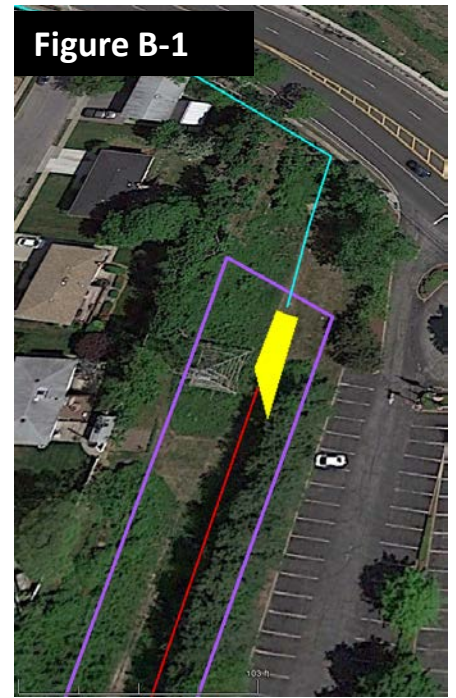
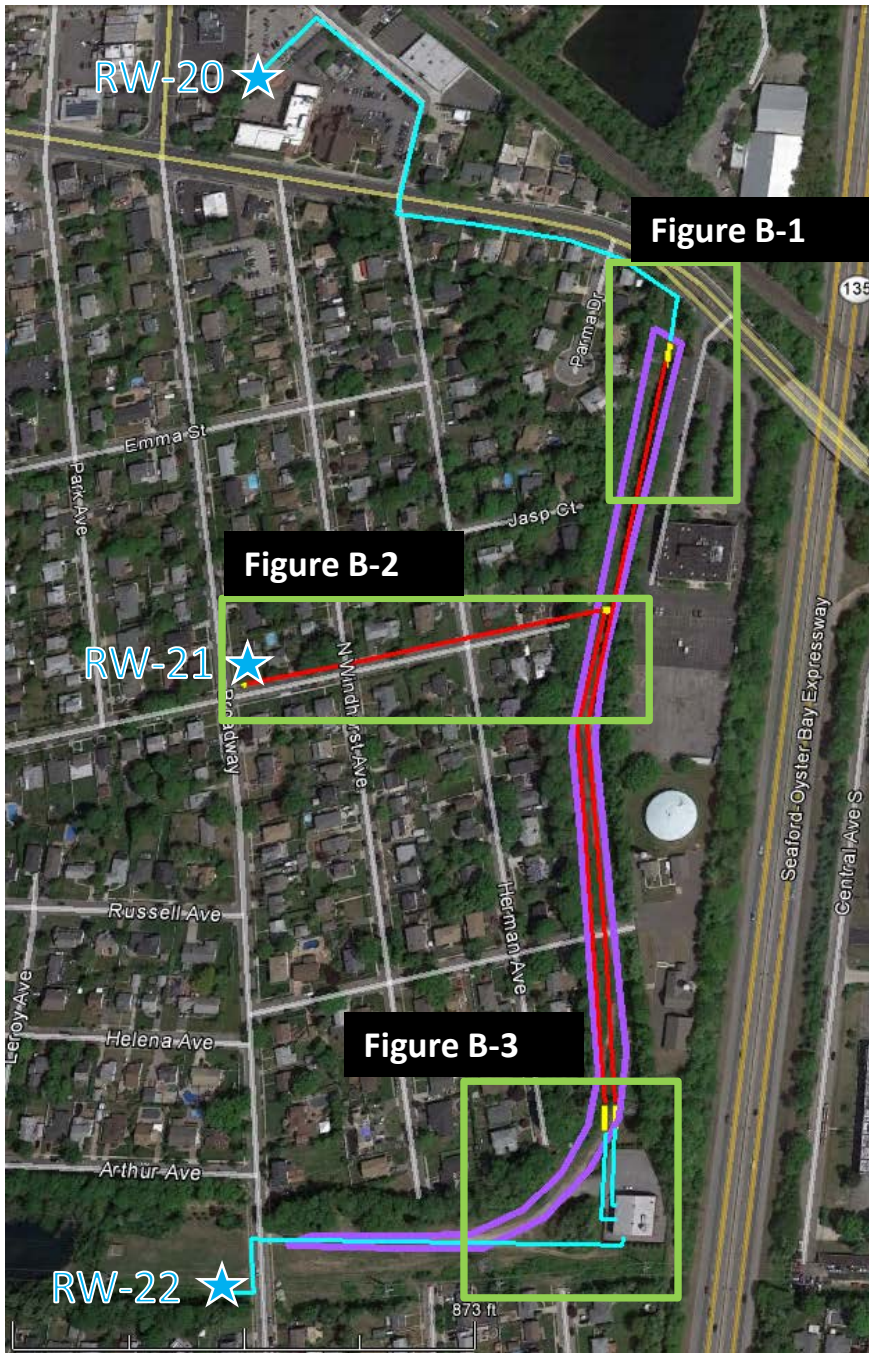


- Trenching
- HDD
- Staging/Exclusion Area for rig/pit
- Exit/Entry Area for HDD
- HDPE Fusing Area
- Traffic Restricted Area



Pipe Route - Option B

- Trenching
- HDD
- Exit/Entry Area for HDD
- HDPE Fusing Area



Points of Contact

- Town of Oyster Bay
- Arcadis – David Stern, Carlo San Giovanni, Chris Engler
- Northrop Grumman – Ed Hannon, Aaron Gershonowitz
- NYSDEC – Steve Scharf
- NYSDOH – Steve Karpinski
- NCDOH – Joe DeFranco

Next Meeting Date and Agenda

- Town Meeting – June 2, 2016
 - Permitting procedures for remedial design
 - List of permits
- Public Availability Session – June 3, 2016

5/25/2010

RW 21 AREA MEETING

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